

Delhi Technological University

SAPIENTIA

(INTELLECTUAL
CONTRIBUTIONS OF DTU)



2024

YEARLY EDITION
WITH
AUTHOR INDEX



DELHI TECHNOLOGICAL UNIVERSITY

SAPIENTIA 2024

1. "Cholinergic side Effect-Free anticancer drugs: paving the way for safer and more effective cancer treatment"

Authors: Ritu, Chandra, P., Das, A.

Source: Journal of Biomolecular Structure and Dynamics

[View Paper](#)

2. 'Explainable AI' Disease Detection with Reasoning

Authors: Kumar, M., Ramrakhiyani, K., Garg, H.

Source: Proceedings of the 3rd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2024

[View Paper](#)

3. 100 Years of the Ubiquitous Traffic Lights: An All-Round Review

Authors: Kulkarni, A.R., Kumar, N., Ramachandra Rao, K.

Source: IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)

[View Paper](#)

4. 6G for intelligent internet of things

Authors: Dabas, D., Mehra, P.S., Chawla, D., Sharma, J., Jamshed, A.

Source: Network Optimization in Intelligent Internet of Things Applications: Principles and Challenges

[View Paper](#)

5. A 12-Bit 1.2-GS/s Current-Steering DAC in 45-NM CMOS Technology

Authors: Gupta, T., Bhandari, S., Taran, S., Gupta, R.K.

Source: Journal of Circuits, Systems and Computers

[View Paper](#)

6. A 3D-convolutional-autoencoder embedded Siamese-attention-network for classification of hyperspectral images

Authors: Ranjan, P., Kumar, R., Girdhar, A.

Source: Neural Computing and Applications

[View Paper](#)

7. A Basic Study on Ground Improvement Techniques and Its Applications

Authors: Srijan, S., Gupta, A.K.

Source: Lecture Notes in Civil Engineering

[View Paper](#)

8. A Cocktail of Natural Compounds Holds Promise for New Immunotherapeutic Potential in Head and Neck Cancer

Authors: Kumar, S., Das, A.



Source: Chinese Journal of Integrative Medicine

[View Paper](#)

9. A Comparative Analysis of Cavity Positions in Charge Plasma based Tunnel FET for Biosensor Application

Authors: Kumar, A., Kale, S.

Source: IETE Journal of Research

[View Paper](#)

10. A Comparative Assessment of the Optimization Algorithms in Real Time Coordination of DOCRs

Authors: Kumar, P., Anand, S., Kumar, P., Mittal, S., Mahato, B.

Source: 2024 4th International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2024

[View Paper](#)

11. A Comparative Assessment of the Water Footprint of Agricultural, Industrial and Domestic Practices in India

Authors: Goyal, D., Haritash, A.K., Singh, S.K.

Source: Lecture Notes in Civil Engineering

[View Paper](#)

12. A Comparative Performance Analysis of 10 T and 11 T SRAM Cells

Authors: Yadav, P., Mittal, P.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

13. A Comparative Study of Deep Learning Models for Brain Tumor Classification

Authors: Das, T., Vishwakarma, D.K., Ranga, V.

Source: 2024 4th International Conference on Intelligent Technologies, CONIT 2024

[View Paper](#)

14. A Comparative Study of Machine Learning Models for Network Traffic Classification in the IoT Landscape

Authors: Thakur, D., Sah, S., Ailsinghani, P., Ranga, V.

Source: Proceedings of the 3rd International Conference on Applied Artificial Intelligence and Computing, ICAAIC 2024

[View Paper](#)

15. A Comparison of Transfer Learning Inspired CNN Architectures for 2D Image Workout Recognition

Authors: Rehman, A., Kumar, S., Verma, L.

Source: 2024 IEEE 9th International Conference for Convergence in Technology, I2CT 2024



[View Paper](#)

16. A Comprehensive Image Processing Framework for Early Diagnosis of Diabetic Retinopathy

Authors: Yadav, K., Alharbi, Y., Alreshidi, E.J., Alreshidi, A., Jain, A.K., Jain, A., Kumar, K., Sharma, S., Gupta, B.B.

Source: Computers, Materials and Continua

[View Paper](#)

17. A Comprehensive Review and Performance Analysis of Different 7T and 9T SRAM Bit Cells

Authors: Garg, M., Chaturvedi, M., Mittal, P., Chauhan, A.

Source: Smart Innovation, Systems and Technologies

[View Paper](#)

18. A Comprehensive Review to Investigate the Effect of Read Port Topology on the Performance of Different 7 T SRAM Cells

Authors: Rawat, B., Mittal, P.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

19. A Comprehensive Shade Resilient Approach for Enhanced PV Array Performance under Irradiance Mismatch Conditions

Authors: Singh, R., Yadav, V.K., Singh, M.

Source: IEEE Journal of Photovoltaics

[View Paper](#)

20. A Comprehensive Study on Advancements in Document Information Retrieval

Authors: Sharma, A., Arya, A.

Source: 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024

[View Paper](#)

21. A Comprehensive analysis of energy, exergy, economic and environment on integrated solarcombined cycle with various HTFs and thermal storage

Authors: Khandelwal, N., Yadav, P.S., Said, Z., Sharma, M., Shukla, A.K., Singh, O., Khandelwal, D., Caliskan, H.

Source: Applied Energy

[View Paper](#)

22. A Conceptual Model to Assess the Effectiveness of Frugal Product Design Frameworks

Authors: Kumari, A., Singh, R., Das, L.K.

Source: IEEE Transactions on Engineering Management

[View Paper](#)



23. A Critical Analysis of Landslide Susceptibility Studies in Himachal Himalaya

Authors: Paul, S.R., Sarkar, R.

Source: Journal of the Geological Society of India

[View Paper](#)

24. A Data-Driven Diabetes Predictive Model Using a Novel Optimized Weighted Ensemble Approach

Authors: Arora, S., Kumar, S., Kumar, P.

Source: Lecture Notes in Networks and Systems

[View Paper](#)

25. A Descriptive Analysis of Different Dual-Port and Single-Port 1T1R SRAM Cells for Low-Voltage Operations

Authors: Chopra, Y., Mittal, P.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

26. A Dynamic and Efficient Active Power Support Scheme Using VSC-HVDC System for Quick Frequency Restoration

Authors: Taneja, A., Saha, R., Singh, M.

Source: Arabian Journal for Science and Engineering

[View Paper](#)

27. A Fuzzy and Taguchi Method Based Hybrid Approach for Coordinated Voltage Stability Control

Authors: Ratra, S., Singh, K., Yadav, V.K.

Source: Proceedings of the 3rd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, ICPEICES 2024

[View Paper](#)

28. A Gain-Enhanced Multiband Frequency and Pattern Reconfigurable Antenna for Wi-Fi 6E and 5G New Radio Wireless Standards

Authors: Ganesh, M., Raghava, N.S., Sabapathy, T., Sharma, Y.

Source: International Journal of Communication Systems

[View Paper](#)

29. A Gaussian Doped p-GaN HEMT for Power Electronics Application

Authors: Garg, T., Kale, S.

Source: Proceedings of the 3rd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, ICPEICES 2024

[View Paper](#)



30. A Graded Index Hybrid Photonic Crystal Fiber for Supercontinuum Generation using AsSe2- As2S5

Authors: Tomer, D.S., Kumar, A. Source: Journal of Optics (India) [View Paper](#)

31. A High Performance and Low Power Subthreshold Voltage Level Shifter Design

Authors: Kapoor, A., Thapar, A., Jha, C.S., Kumar, C.I.

Source: Proceedings of the IEEE International Conference on VLSI Design

[View Paper](#)

32. A Hybrid Approach for Depression Detection Using Word Embedding, Naive Bayes and Bi-LSTM Models

Authors: Singh, J., Mangotra, I., Jain, M., Jain, A.

Source: Lecture Notes in Networks and Systems

[View Paper](#)

33. A Hybrid BERT-CNN Approach for Depression Detection on Social Media Using Multimodal Data

Authors: Beniwal, R., Saraswat, P.

Source: Computer Journal

[View Paper](#)

34. A Hybrid Deep Learning Model for Sentiment Analysis of IMDB Movies Reviews

Authors: Beniwal, R., Dinkar, A.K., Kumar, A., Panchal, A.

Source: 2024 Asia Pacific Conference on Innovation in Technology, APCIT 2024

[View Paper](#)

35. A Linear Time Shrinking-SL(t)-ViT Approach for Brain Tumor Identification and Categorization

Authors: Swetha, A.V.S., Bala, M., Sharma, K.

Source: IETE Journal of Research

[View Paper](#)

36. A Low Power Single Ended and Dual Port 8T SRAM with Robust Features

Authors: Dahiya, A., Tripathi, A., Usham, D., Mittal, P.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

37. A Machine Learning Approach With PSO for Intrusion Detection

Authors: Sharma, R., Madar, M.K., Meena, M., Kumar, V.

Source: 2024 International Conference on Intelligent Systems for Cybersecurity, ISCS 2024



[View Paper](#)

38. A Multi-Constrained Green Routing Protocol for IoT-Based Software-Defined WSN

Authors: Kumar, N., Beniwal, R.

Source: Concurrency and Computation: Practice and Experience

[View Paper](#)

39. A Network-Aware Aggregation and Control Framework for Residential Distributed Energy Resources

Authors: Gupta, S., Yadav, V.K., Singh, G.P., Singh, K.

Source: Proceedings of the 3rd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, ICPEICES 2024

[View Paper](#)

40. A New Criss-Cross-Based Asymmetrically Configured T-Type Multi-level Inverter

Authors: Mahto, K.K., Das, P., Das, D., Mittal, S., Mahato, B.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

41. A New High-Order Electronically Tunable Oscillator (HO-ETO)

Authors: Joshi, M., Kumar, R., Singh, M., Choudhary, S.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

42. A New Puzzle Strategy for PV Arrays Under Shadings

Authors: Gautam, M., Chauhan, U., Singh, K.

Source: Proceedings - International Conference on Computing, Power, and Communication Technologies, IC2PCT 2024

[View Paper](#)

43. A Novel APVD Steganography Technique Incorporating Pseudorandom Pixel Selection for Robust Image Security

Authors: Hosain, M., Kapoor, R.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

44. A Novel Acetylcholinesterase-Based Electrochemical Biosensor Using g-C₃N₄@MoS₂ Nanohybrid for the Detection of Trichlorfon

Authors: Chatterjee, S., Singh, H., Hudda, D., Sweetey, Kumar, D.

Source: Applied Organometallic Chemistry

[View Paper](#)



45. A Novel Approach for Secure and Efficient VANET Communication: Integrating Clustering, Curve Fitting, and Fog Computing

Authors: Devi, A., Kait, R., Ranga, V.

Source: International Journal of Performability Engineering

[View Paper](#)

46. A Novel Approach for State of Health Estimation of Lithium-Ion Batteries Based on Improved PSO Neural Network Model

Authors: Nasimov, R., Kumar, D., Rizwan, M., Panwar, A.K., Abdusalomov, A., Cho, Y.-I.

Source: Processes

[View Paper](#)

47. A Novel Approach to Image Synthesis: Using Stack GAN to Enhance Cybersecurity Application of Generative AI

Authors: Bisherwal, P., Srivastava, P., Kumar, R., Jindal, R.

Source: 2024 International Conference on Intelligent Systems for Cybersecurity, ISCS 2024

[View Paper](#)

48. A Novel Chaotic Map with High Chaotic Dynamics for Image Encryption Applications

Authors: Pal, P.K., Kumar, D.

Source: 2024 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024

[View Paper](#)

49. A Novel Deep Learning Based Fully Automated Framework for Captcha Security Vulnerability Checking

Authors: Thakur, A., Bhavishya, Singh, P.

Source: Lecture Notes in Networks and Systems

[View Paper](#)

50. A Novel Dielectric Modulated Double Gate Charge-Trapping MOSFET: Ferroelectric Gate Stack and Gaussian Doped Substrate Integration for Enhanced Performance

Authors: Swain, A., Agarwal, N., Singhal, T., Chaujar, R.

Source: 2024 IEEE International Conference on Information Technology, Electronics and Intelligent Communication Systems, ICITEICS 2024

[View Paper](#)

51. A Novel Enhancement Mode GaN HEMT with MIS and p-GaN structure

Authors: Garg, T., Kale, S.

Source: 2024 IEEE 9th International Conference for Convergence in Technology, I2CT 2024

[View Paper](#)



52. A Novel Sinusoidal Oscillator Using Single Voltage Differencing Buffered Amplifier

Authors: Gupta, P., Komanapalli, G., Pandey, R.

Source: Journal of Circuits, Systems and Computers

[View Paper](#)

53. A Numerical Investigation on Estimation and Validation of Power Law Constants for TiB2 Reinforced AA2024 Composite Material

Authors: Sahu, R., Srinivas, K., Agrawal, A.K.

Source: Smart Innovation, Systems and Technologies

[View Paper](#)

54. A PSO-optimized novel PID neural network model for temperature control of jacketed CSTR: design, simulation, and a comparative study

Authors: Chaturvedi, S., Kumar, N., Kumar, R.

Source: Soft Computing

[View Paper](#)

55. A Passive Floating C-MOS Memristor with Analog Applications

Authors: Gupta, R.K., Choudhry, M.S., Saxena, V.

Source: Proceedings - 2nd IEEE International Conference on Device Intelligence, Computing and Communication Technologies, DICCT 2024

[View Paper](#)

56. A Posteriori Error Analysis of Defect Correction Method for Singular Perturbation Problems With Discontinuous Coefficient and Point Source

Authors: Kaushik, A., Jain, S.

Source: Journal of Computational and Nonlinear Dynamics

[View Paper](#)

57. A Proposed IOT-based Smart Healthcare Management Framework for Performing Lossless Data Compression using Concept of Ontology

Authors: Sahu, M., Panda, J.

Source: Journal of Scientific and Industrial Research

[View Paper](#)

58. A Radiation-Hardened Double Node Upset Latch Design for Nanoscale CMOS Technologies

Authors: Mandal, P., Kumar, P., Singh, S.V., Kumar, C.I.

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[View Paper](#)

59. A Raspberry Pi 4 and Arduino-based Automated Intercom Door Lock System

Authors: Aggarwal, S., Ranga, V.

Source: 2024 1st International Conference on Advanced Computing and Emerging Technologies, ACET 2024

[View Paper](#)

60. A Reliable and high performance Radiation Hardened Schmitt Trigger 12T SRAM cell for space applications

Authors: Soni, L., Pandey, N.

Source: AEU - International Journal of Electronics and Communications

[View Paper](#)

61. A Review of Different Approaches for Boundary Shear Stress Assessment in Prismatic Channels

Authors: Kaushik, V., Kumar, M.

Source: Lecture Notes in Civil Engineering

[View Paper](#)

62. A Schiff base hydrogel of oxidized okra gum and carboxymethylated chitosan: a biocompatible and biodegradable injectable system for drug delivery in wound care

Authors: Kumar, J., Purwar, R.

Source: Colloid and Polymer Science

[View Paper](#)

63. A Silver Nanoparticle-Embedded Tamarind Kernel Gum/Poly (Sodium Acrylate) Nanocomposite for Sustainable Release of Doxycycline

Authors: Rani, I., Warkar, S.G., Kumar, A.

Source: ChemistrySelect

[View Paper](#)

64. A Single Bitline Highly Stable, Low Power With High Speed Half-Select Disturb Free 11T SRAM Cell

Authors: Soni, L., Pandey, N.

Source: ACM Transactions on Design Automation of Electronic Systems

[View Paper](#)

65. A Single Line 8T SRAM Bit Cell with Robust Read, Hold Stability and Low Power

Authors: Chopra, Y., Mittal, P.

Source: Lecture Notes in Networks and Systems

[View Paper](#)

66. A Single MOS-Memristor Emulator Circuit

Authors: Gupta, R.K., Choudhry, M.S., Saxena, V., Taran, S.

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[View Paper](#)

67. A Survey of Artificial Intelligence Applications in Wind Energy Forecasting

Authors: Dhaka, P., Sreejeth, M., Tripathi, M.M.

Source: Archives of Computational Methods in Engineering

[View Paper](#)

68. A Survey of Legal Text Analysis Techniques for Indian Legal Documents

Authors: Ghosh, T., Kumar, S.

Source: 2024 International Conference on Circuit, Systems and Communication, ICCSC 2024

[View Paper](#)

69. A Survey on Artificial Intelligence-Based Cyber Security in IoT Networks

Authors: Tyagi, A., Singh, A., Yadav, A., Mehra, P.S.

Source: Proceedings - 2nd IEEE International Conference on Device Intelligence, Computing and Communication Technologies, DICCT 2024

[View Paper](#)

70. A Survey on Blockchain for Rental Lease Management

Authors: Jain, A., Gangwar, A., Kumari, C., Mehra, P.S.

Source: 2024 11th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2024

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Source: 2024 11th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions), ICRITO 2024

[View Paper](#)

72. A Survey on CNN, RNN and CRNN for Document Retrieval in Healthcare

Authors: Kansal, V., Sharma, A.

Source: 15th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2024

[View Paper](#)

73. A Survey on Skin Lesion Detection and Classification using Machine Learning

Authors: Yadav, R., Bhat, A.

Source: 2nd International Conference on Artificial Intelligence and Machine Learning Applications: Healthcare and Internet of Things, AIMLA 2024

[View Paper](#)

74. A Systematic Literature Review on Maintenance of Software Containers



Authors: Malhotra, R., Bansal, A., Kessentini, M.

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[View Paper](#)

75. A Systematic Review Paper on Energy-Efficient Routing Protocols in Internet of Things

Authors: Yadav, R., Kumar, V.

Source: IETE Journal of Research

[View Paper](#)

76. A Systematic Review of RDHEI with Consistent Experimental Evaluation

Authors: Ankur, Kumar, R., Sharma, A.K.

Source: Lecture Notes in Electrical Engineering

[View Paper](#)

77. A Systematic Review of the World's Largest Government Sponsored Health Insurance Scheme for 500 Million Beneficiaries in India: Pradhan Mantri Jan Arogya Yojana

Authors: Aashima, Sharma, R.

Source: Applied Health Economics and Health Policy

[View Paper](#)

78. A Systematic Review on Internet of Things (IoT) Security: Applications, Architecture, Challenges and Solutions

Authors: Ganda, V.D., Ritika, R., Mehra, P.S., Chawla, D.

Source: 2024 1st International Conference on Advanced Computing and Emerging Technologies, ACET 2024

[View Paper](#)

79. A Systematic and Comprehensive Review on 2-D and 3-D Numerical Modelling of Stirling Engine

Authors: Singh, V., Kumar, A.

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[View Paper](#)

80. A catalogue of low-mass X-ray binaries in the Galaxy: From the INTEGRAL to the Gaia era*

Authors: Fortin, F., Kalsi, A., García, F., Simaz-Bunzel, A., Chaty, S.

Source: Astronomy and Astrophysics

[View Paper](#)

81. A class of analytic functions associated with sine hyperbolic functions

Authors: Kumar, S.S., Khan, M.G., Ahmad, B., Mashwani, W.K.

Source: Journal of Analysis

[View Paper](#)



82. A compact dual-element UWB-MIMO antenna with single band-notched characteristics

Authors: Dalakoti, N., Jain, P.

Source: Frequenz

[View Paper](#)

83. A comparative analysis of carboxymethyl tamarind kernel gum-based hydrogels for ciprofloxacin delivery

Authors: Yadav, P., Warkar, S.G., Kumar, A.

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[View Paper](#)

84. A comparative study of different BERT modifications

Authors: Agarwal, S., Jain, M.

Source: Artificial Intelligence, Blockchain, Computing and Security - Proceedings of the International Conference on Artificial Intelligence, Blockchain, Computing and Security, ICABCS 2023

[View Paper](#)

85. A compound reconfigurable electronically switched parasitic monopole antenna for sub 6 GHz wireless and vehicular applications

Authors: Ganesh, M., Raghava, N.S., Sabapathy, T., Sharma, Y.

Source: AEU - International Journal of Electronics and Communications

[View Paper](#)

86. A comprehensive analysis of energy, exergy, performance, and emissions of a spark-ignition engine running on blends of gasoline, ethanol, and isoamyl alcohol

Authors: Yadav, P.S., Gautam, R., Le, T.T., Khandelwal, N., Le, A.T., Hoang, A.T.

Source: Energy

[View Paper](#)

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Authors: Yadav, P.S., Kumar, S., Gautam, R.

Source: Clean Technologies and Environmental Policy

[View Paper](#)

88. A comprehensive energy, exergy, environmental, and economic analysis of dedicated mechanical subcooled vapor compression refrigeration system

Authors: Solanki, N., Arora, A., Singh, R.K.

Source: Journal of Thermal Analysis and Calorimetry

[View Paper](#)

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compression refrigeration system with dedicated mechanical subcooled system

Authors: Solanki, N., Arora, A., Singh, R.K.

Source: Journal of Mechanical Science and Technology

[View Paper](#)

90. A comprehensive review of urban vegetation as a Nature-based Solution for sustainable management of particulate matter in ambient air

Authors: Vashist, M., Kumar, T.V., Singh, S.K.

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[View Paper](#)

91. A comprehensive review on Federated Learning for Data-Sensitive Application: Open issues & challenges

Authors: Narula, M., Meena, J., Vishwakarma, D.K.

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[View Paper](#)

92. A comprehensive review on computational techniques for breast cancer: past, present, and future

Authors: Rautela, K., Kumar, D., Kumar, V. Source: Multimedia Tools and Applications [View Paper](#)

93. A comprehensive review on effect of cold metal transfer welding parameters on dissimilar and similar metal welding

Authors: Singh, I.J., Murtaza, Q., kumar, P.

Source: Journal of Engineering Research (Kuwait)

[View Paper](#)

94. A comprehensive review on methane enrichment in biogas through the purification process using biomass-based adsorbents

Authors: Meena, P.K., Pal, A.

Source: Biomass Conversion and Biorefinery

[View Paper](#)

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Authors: Sharma, Y., Arora, A.

Source: International Journal of Information Security

[View Paper](#)

96. A computational approach towards food-wine recommendations

Authors: Gupta, G., Katarya, R.



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[View Paper](#)

97. A critical systematic review on spectral-based soil nutrient prediction using machine learning

Authors: Jain, S., Sethia, D., Tiwari, K.C.

Source: Environmental Monitoring and Assessment

[View Paper](#)

98. A deep face spoof detection framework using multi-level ELBPs and stacked LSTMs

Authors: Dhiman, C., Antil, A., Anand, A., Gakhar, S.

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[View Paper](#)

99. A deep learning approach to dysarthric utterance classification with BiLSTM-GRU, speech cue filtering, and log mel spectrograms

Authors: Mehra, S., Ranga, V., Agarwal, R.

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[View Paper](#)

100. A dual band CPW-fed MIMO antenna for fifth generation application

Authors: Kansal, P., Mandpura, A.K., Kumar, N.

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[View Paper](#)

101. A flexible memory device made of SnO₂-hBN nanocomposite exhibits stable resistive switching application

Authors: Komal, K., Singh, M., Singh, B.

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102. A framework for evaluating the barriers to adopting Industry 4.0 in Indian SMEs: an approach of best-worst method

Authors: Kumar, R., Kumar, P., Singh, R.K., Vaish, A., Sharma, G.

Source: Journal of Management Analytics

[View Paper](#)

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Authors: Gandhi, S., Kumar, R.

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[View Paper](#)



104. A human activity recognition framework in videos using segmented human subject**focus**

Authors: Gupta, S., Vishwakarma, D.K., Puri, N.K.

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[View Paper](#)

105. A hybrid BERT-CPSO model for multi-class depression detection using pure hindi and hinglish multimodal data on social media

Authors: Beniwal, R., Saraswat, P.

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Authors: Singh, I., Kothari, D.P., Aditya, S., Rajora, M., Agarwal, C., Gautam, V.

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[View Paper](#)

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Authors: Nidhi, Verma, B.

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[View Paper](#)

108. A logistic regression model to facilitate setting of organic waste composting policy for sustainable waste management

Authors: Al-Sari?, M.I., Haritash, A.K.

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109. A low power Schmitt-trigger driven 10T SRAM Cell for high speed applications

Authors: Soni, L., Pandey, N.

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[View Paper](#)

110. A low profile circularly polarized metasurface-based ultra-wideband 4x4 MIMO antenna for 5G NR band FR2 frequencies

Authors: Angadi, S., Sharma, Y., Raghava, N.S., Sabapathy, T.

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[View Paper](#)



111. A metasurface based close-proximity two-port circularly polarized MIMO antenna for mid-band sub-6 GHz 5G applications

Authors: Angadi, S., Sharma, Y., Raghava, N.S., Sabapathy, T.

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Authors: Al-Sari?, M.I., Haritash, A.K.

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Authors: Handa, P., Goel, N., Indu, S., Gunjan, D.

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[View Paper](#)

114. A multilevel authentication-based blockchain powered medicine anti-counterfeiting for reliable IoT supply chain management

Authors: Sharma, N., Rohilla, R.

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[View Paper](#)

115. A nonlinear SAIR epidemic model: Effect of awareness class, nonlinear incidences, saturated treatment and time delay

Authors: Goel, K., Nilam

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[View Paper](#)

116. A novel decomposition-based architecture for multilingual speech emotion recognition

Authors: Ravi, Taran, S.

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[View Paper](#)

117. A novel framework for optimizing Gurney flaps using RBF surrogate model and cuckoo search algorithm

Authors: Tyagi, A., Singh, P., Rao, A., Kumar, G., Singh, R.K.

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[View Paper](#)



118. A novel heuristic and tunicate centered ANFIS and RCCRD optimization for soil nailing using a numerical approach

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Authors: Aman, R., Rizwan, M., Kumar, A.

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[View Paper](#)

120. A novel investigation on single-loop pulsating heat pipe filling with hybrid nanofluids: numerical and experimental

Authors: yadav, P.S., sharma, J., Hussain, M., Khan, I.A., Goyal, K., Ahmed, S.F.

Source: Heat and Mass Transfer/Waerme- und Stoffuebertragung

[View Paper](#)

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Authors: Kumar, V., Rao, R.N., Singh, A., Shekher, V., Paul, K., Sinha, P., Alghamdi, T.A.H., Abdelaziz, A.Y.

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[View Paper](#)

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[View Paper](#)

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Authors: Tiwari, A.K., Jain, M.

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[View Paper](#)

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868. Global incidence, prevalence, years lived with disability (YLDs), disability-adjusted life-years (DALYs), and healthy life expectancy (HALE) for 371 diseases and injuries in 204 countries and territories and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021

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[View Paper](#)

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[View Paper](#)

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[View Paper](#)

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[View Paper](#)

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Source: Autism in Adulthood

[View Paper](#)





AUTHOR INDEX

SAPIENTIA 2024

YEARLY EDITION 2024

2024 Published Papers

Author Index

Aali, A: 866,867,868,865
Aaron, T: 905
Aashima, Nanda, M: 932
Aashima, Sharma, R: 77,209,1036
Ababneh, Hs: 866
Abate, Yh: 867,868,866,869
Abbafati, C: 868,866,865
Abbas, Af: 966
Abbas, J: 869,865
Abbasgholizadeh, R: 867,866,865
Abbasi, Ma: 869,865
Abbasi-Kangevari, M: 867,866
Abbasian, M: 867,866,869,865
Abbastabar, H: 868,867,866,869
Abd Elhafeez, S: 868,866
Abd-El salam, S: 868,867,866,865
Abd-Rabu, R: 869
Abdelaziz, Ay: 121
Abdelmasseh, M: 868,866,869,865
Abdelsalam, A: 1729
Abdelwahab, A: 866,865
Abdollahi, A: 868
Abdollahi, M: 867,866,865
Abdollahi, M 869,: 869
Abdollahifar, M-A: 867,866,869
Abdoun, M: 867,866,865
Abdul Wahed, Z: 633
Abdulah, D.M: 866,869
Abdulkader, R.S: 869,868,867,865
Abdullah Naji, F.A: 361
Abdullah, K.H: 865
Abdullahi, A: 868,867,866,869,865
Abdurehman, A.M: 865
Abdusalomov, A: 46
Abebe, M: 867,866,865
Abebe, S.S: 867,866
Abedi, A: 866,869,865

2024 Published Papers

Abedi, V: 869
Abegaonkar, M.P: 1736
Abegaz, K.H: 868,866
Abegaz, T.M: 865
Abeldaño Zuñiga, R.A: 869
Abhilash, E.S: 866,865
Abhimanyu, M.A: 293
Abidi, H: 866,869
Abiodun, O: 867,866,869
Abiodun, O.O: 865
Abkenar, Y.T: 868,865
Aboagye, R.G: 868,866,869,865
Abolhassani, H: 868,867,866,869,865
Abolmaali, M: 867,866
Abouzid, M: 867,866,865
Aboyans, V: 869
Aboye, G.B: 867,866
Abreu, L.G: 868,867,866,865
Abrha, W.A: 867,869,866,865
Abrigo, M.R.M: 867,865
Absil, O: 1628
Abtahi, D: 867,866,865
Abu Rumeileh, S: 866
Abu-Gharbieh, E: 868,867,869,866
Abu-Rmeileh, N.M: 866,865
Abu-Rmeileh, N.M.E: 868,867
Abu-Zaid, A: 866,865
Abualhasan, A: 869
Abualruz, H: 868,867,866
Abubakar, B: 867,866
Aburuz, S: 869,866,865
Accrombessi, M.M.K: 866
Acharya, A: 1169
Acharya, B: 379
Ackerman, I.N: 868
Acuna, J.M: 865
Adair, T: 865
Adal, T.G: 866
Adal, T.G.G: 867
Adamu, A.A: 866
Adamu, L.H: 869

2024 Published Papers

Adane, M.M: 867
Addis, M.T: 673,864,882
Addo, I.Y: 868,869,866,865
Addolorato, G: 868,866
Adeagbo, O.A.A: 867
Adebayo, O.M: 869,865
Adebiyi, A.O: 868,866
Adedoyin, R.A: 867
Adegboye, O.A: 865
Adekanmbi, V: 867,869,866,865
Adekiya, T.A: 869
Aden, B: 867,865
Adepoju, A.V: 868,867,866,865
Adetokunboh, O.O: 867
Adetunji, C.O: 866,865
Adetunji, J.B: 867,866
Adewuyi, H.O: 868
Adeyeoluwa, T.E: 866,865
Adeyinka, D.A: 867,866
Adeyomoye, O.I: 867,866,865
Adha, R: 865
Adhikari, S: 707,712,1638
Adibi, A: 865
Adikusuma, W: 869,865
Aditya, S: 106
Aditya, Sharma, S.C: 1042
Admass, B.A: 866
Adnani, Q.E.S: 867,869,866,865
Adra, S: 867,869,866,865
Advani, D: 1690
Afework, A: 865
Afework, T: 869
Afolabi, A.A: 869,866,865
Afolabi, R.F: 867
Afraz, A: 869,865
Afrifa, S: 259
Afyouni, S: 868,867,865
Afzal, M.S: 867,866
Afzal, S: 867,869,866,865
Afzal, S : 868
Agampodi, S.B: 866

2024 Published Papers

Agarwal, A: 849,783
Agarwal, A.P: 752
Agarwal, B: 480
Agarwal, C: 106
Agarwal, J: 876,1679
Agarwal, L: 836,1420
Agarwal, M: 204
Agarwal, M.K: 783
Agarwal, N: 825,50
Agarwal, P: 200
Agarwal, R: 1533,99,303,568,964,1756
Agarwal, S: 84,515
Agarwal, V: 1474,651
Agarwal, V.V: 749
Agasthi, P: 866,865
Agasti, N: 1351
Aggarwal, A: 539,805,217,1546
Aggarwal, M: 1087,866
Aggarwal, S: 59,707,775,1308,1638,1749,1685
Aggarwal, T: 412,930
Aggrawal, A: 1155
Aggrawal, D: 1433,606,340,1710,1308,1585,339
Aghamiri, S: 867,869,866,865
Agide, F.D: 866
Agodi, A: 868,867,869,866,865
Agrahari, N: 763
Agrawal, A: 866,1082
Agrawal, A.K: 237,694,801,1051,53
Agrawal, C: 247
Agrawal, H: 1239
Agrawal, M: 356
Agrawal, R: 1303
Agrawal, R.K: 1309
Agrawal, S: 166,950,1034,1528,991,1016
Agrawal, S.K: 1066
Agyemang-Duah, W: 867,869,866,865
Ahinkorah, B.O: 867,869,866,865
Ahirwal, N: 1385
Ahlawat, A: 1282
Ahlawat, L: 1335,1336
Ahlstrom, A.J: 867

2024 Published Papers

Ahmad, A: 661,1255,868,867,869,866,865

Ahmad, B: 81

Ahmad, D: 868,867,869,866,865

Ahmad, F: 732,1613,752,868,867,866,865

Ahmad, M.M: 867,866,865

Ahmad, N: 1266,1727

Ahmad, R: 235

Ahmad, S: 168,868,869,867

Ahmad, S : 866

Ahmad, T: 867,866,865

Ahmadi, K: 866,865

Ahmadzade, A: 865

Ahmadzade, A.M: 869,866

Ahmadzade, M: 865

Ahmed, A: 868865866867869

Ahmed, F: 1445

Ahmed, H: 869,867,866,865

Ahmed, J: 446,729

Ahmed, J.Q: 869

Ahmed, L.A: 868,869,867,866,865

Ahmed, M: 489

Ahmed, M.B: 868,869,866,865

Ahmed, M.S: 866867

Ahmed, S: 1673,865

Ahmed, S.A: 869,867,866

Ahmed, S.F: 120

Ahmed, S.F.A: 1193

Ahmed, T: 848

Ahsan, N: 1744

Ahuja, C: 886

Ahuja, G: 1056

Ahuja, H: 1295

Ahuja, M: 870

Ahuja, N: 841

Ahuja, S.K: 860

Ailsinghani, P: 14

Airapetian, V: 1628

Ajami, M: 868,869,867,866,865

Ajarry, V: 1315

Aji, B: 869,867,866,865

Ajith, S: 966

2024 Published Papers

Ajumobi, O: 869,865
Akade, S: 869
Akalu, G.T: 867,865
Akara, E: 865
Akara, E.M: 866
Akbar, M: 1382
Akbari, M: 869
Akbarialiabad, H: 867,869,866
Akhil, Kumar, A: 1430
Akhlaghi, S: 869
Akinosoglou, K: 868,869,866,865
Akinyemi, R.O: 867,869
Akinyemiju, T: 866
Akkaif, M.A: 868,867,866
Akkala, S: 867,865
Akonde, M: 869
Akwah, E.K: 259
Akyirem, S: 866,865
Al Adawi, A: 1250
Al Agha, W: 1010,1495,408,614,1571,1574
Al Hamad, H: 867,866
Al Hasan, S.M: 868,867,869,866
Al Shuaili, A: 1250
Al Sultani, K: 1250
Al Umairi, A.Y: 1250
Al-Ahdal, T.M.A: 867,865,869
Al-Aly, Z: 868,867,866,865
Al-Amer, R.M: 869,867,866,865
Al-Azzam, S: 866
Al-Buriahi, M.S: 617
Al-Eyadhy, A: 867,865
Al-Gheethi, A.A.S: 869,867,866,865
Al-Gheethi, Alharrasi, M: 868
Al-Hanawi, M.K: 866,865
Al-Jumaily, A: 865
Al-Marwani, S: 868,867,866,865
Al-Maweri, S.A.A: 866,865
Al-Mekhlafi, H.M: 867,866,865
Al-Omari, B: 868,869,867,866
Al-Raddadi, R.M: 867
Al-Sabah, S.K: 867,866,865

2024 Published Papers

Al-Sari?, M.I: 108,112,1159
Al-Shahi Salman, R: 869
Al-Tawfiq, J.A: 869,867,866,865
Al-Wardat, M.S: 868
Al-Worafi, Y.M: 868,869,867,866,865
Ala, M: 865
Aladelusi, T.O: 865
Alahdab, F: 869,866
Alalalmeh, S.O: 868,867,866,865
Alalwan, T.A: 867,866
Alam, K: 867,866,865
Alam, M: 866,865
Alam, N: 866
Alam, T: 1730,326
Alam, Z: 865
Alanezi, F.M: 867,866,865
Alanzi, T.M: 867,866,865
Alavi, S.N.R: 867
Alavi, S.R: 865
Albakri, A: 867,866
Albashtawy, M: 868,869,867,866,865
Albataineh, M.T: 869,867,866,865
Alcalde-Rabanal, J.E: 866
Aldawsari, K.A: 869,866
Aldhaleei, W.A: 866
Aldridge, R.W: 868,866,865
Alej, E: 1628
Alema, Hb.B: 866
Alemayohu, M.A: 866
Alemi, H: 869,867
Alemi, S: 869,867,866,865
Alemu, M.D: 868
Alemu, Y.M: 868,867,866
Alene, K.A: 868
Algammal, A.M: 869
Alghamdi, T.A.H: 121
Alhabib, K.F: 867,866,865
Alhajri, N: 867
Alhalaiqa, F.A.N: 869,867,866,865
Alharbi, Y: 16
Alhassan, R.K: 868,869,867

2024 Published Papers

Ali Saeed, A: 868
Ali, A: 869,867,865
Ali, A : 866
Ali, A.H: 865
Ali, B.A: 867,865
Ali, E.A: 869
Ali, H: 865
Ali, L: 869,867,866
Ali, M.M: 869
Ali, M.U: 868,869,867,866,865
Ali, P: 818
Ali, R: 868,869,867,866,865
Ali, S: 724,770,1089,869,866
Ali, S.S: 865
Ali, S.S.S: 868,867,866
Ali, Z: 869,865
Aliabadi, S.B: 868
Alibert, Y: 1628
Alicandro, G: 866,865
Alif, S.M: 868,869,867,866,865
Aligol, M: 867,865
Alijanzadeh, M: 867
Alikhani, R: 866
Alimi, R: 865
Alimohamadi, Y: 869,866
Aliyi, A.A: 869,866,865
Aljasir, M.A.M: 867,866
Aljofan, M: 869
Aljunid, S.M: 868,869,867,866,865
Alla, F: 866
Alladi, S: 869
Allebeck, P: 866
Almahmeed, W: 865
Almatrafi, E: 1649
Almazan, J.U: 868,869,867,866,865
Almidani, L: 866
Almidani, O: 867,866,865
Almustanyir, S: 869
Alnassar, Z: 924,1572,1737
Alomari, M.A: 868,867,866,865
Alonso, J: 866

2024 Published Papers

Alonso, N: 865
Alotaibi, M.A: 1545
Alqahtani, J.S: 869,867,866,865
Alqalyoobi, S: 866
Alqasmi, I: 869
Alqutaibi, A: 865
Alqutaibi, A.Y: 869,867,866
Alreshidi, A: 16
Alreshidi, E.J: 16
Alrowaili, Z.A: 617
Altaany, Z: 868,869,866
Altaf, A: 867,866,865
Altirkawi, K.A: 869,867,866,865
Aluh, D.O: 867,866
Alvi, F.J: 867,865
Alvis-Guzman, N: 868,869,867,866
Alvis-Zakzuk, N.J: 868
Alwafi, H: 868,867,866,865
Aly, H: 869,867,866,865
Aly, S: 868,869,867,866
Alzahrani, J.S: 617
Alzoubi, K.H: 868,869,867,866,865
Amado, P.J: 1628
Aman, R: 119,400
Amani, R: 869,866
Amardeep, Kumar, R: 1740
Amare, A: 865
Amare, A.T: 868,866
Ambasta, R.K: 487,884,1280,1033,1671,1684,1422,1594
Amegbor, P.M: 868,866
Ameyaw, E.K: 868,867,866,865
Amhare, A: 865
Amin, T.T: 868,867,866,865
Amindarolzarbi, A: 868,869,867,866,865
Amini-Rarani, M: 867
Amiri, S: 868,869,867,866,865
Amirzade-Iranaq, M.H: 869,866
Ammar, M.A.H: 519
Ampomah, I.G: 867
Amrithalingam, M: 742
Amu, H: 869,866,865

2024 Published Papers

Amugsi, D.A: 868,869,867,866,865
Amusa, G.A: 869,867,866
Amzat, J: 869,865
Anaissi, A: 925
Anand, A: 1433,1710,98,281
Anand, B: 337
Anand, N: 1382
Anand, P: 1512
Anand, R: 999,329,333,369
Anand, S: 1301,10,1307,708
Anantha Lakshmi, Y: 1020
Ananya, Meena, P: 1369
Anbukumar, S: 1087,973
Ancuceanu, R: 868,869,867,866,865
Anderlini, D: 868,869,867,866,865
Anderson, D.B: 868,869,866
Andrade, P.P: 868,867,866,865
Andrei, C: 865
Andrei, C.L: 868,869,867,866
Andrei, T: 867,866,865
Androudi, S: 869
Angadi, S: 110,111,1097,1100,1483
Angappan, D: 869,865
Anger, M: 1628
Angerhausen, D: 1628
Angesom, T.W: 869
Angus, C: 866
Anil, A: 869,867,866,865
Anil, S: 867,866
Anistha, Kumar, P: 1441
Anjum, A: 380,653,1000,1323,1648,1325,865
Anjum, Katarya, R: 890,891
Ankit, Baitha, M.N: 1384
Ankit, Kishor, K: 521,541,1463
Ankita, Berwal, U: 1026,1553
Ankur, Kumar, R: 76,335,1055,174,126
Anoushiravani, A: 866
Ansar, A: 867
Ansari, A.K: 711,751,1726,1728
Ansari, H: 1713,868,866
Ansari, M.Z: 1250

2024 Published Papers

Ansari, N.A: 466,609,782,1246
Ansari-Moghaddam, A: 869,867,866
Ansariadi, A: 866
Anshu, Sharma, J: 253
Anshu, Sharma, S.C: 1041
Anshul, Chaujar, R: 473,1484
Anshul, Tomar, G: 1595
Antil, A: 1062,98,468
Antony, C.M: 865,868,867,866
Antriyandarti, E: 867,866,865
Anu, Kumari, S: 1534
Anu, Lohan, R: 600
Anu, Prasad, A: 1605
Anu, Punia, R: 1060
Anu, Rao, As: 1603,1617
Anu, Seema, Kumar, A: 142
Anugu, N: 1628
Anumukonda, N.S.K: 548,919
Anuoluwa, Ia: 865
Anupama, Rewari, S: 935,1207,1208
Anuradha, Bharadvaja, N: 1627
Anurag, A: 337
Anvari, D: 866
Anvari, S: 867,866
Anwar, S: 868,867,866,865
Anwar, S.L: 868,866
Anwer, R: 868,869,867,866
Anwer, S.T: 1639
Anyanwu, Pe: 868
Anyasodor, Ae.E: 867,866,865
Apparao, D: 1306,753
Appiah, S: 865
Appiahene, P: 259
Aqeel, M: 866,865
Arab, J.P: 868,866
Arab, Rae: 865
Arab-Zozani, M: 865
Arabloo, J: 868,867,866,865
Arafa, E.A: 867
Arafat, M: 868,869,867,866,865
Aragon, M: 1628

2024 Published Papers

Araki, D.T: 868
Araujo, A.M: 867
Aravkin, A.Y: 865,868,869,867,866
Araújo, A.M: 865
Areda, D: 869,866
Aremu, A: 867,866,865
Aremu, O: 866
Ariffin, H: 869,866,865
Arifin, H: 869
Aripov, T: 867,865
Arkew, M: 868,869,867,866
Arman, M: 187
Armocida, B: 868,867,866,865
Armstrong, D.J: 1628
Arndt, M.B: 868,866
Arnedo, C.A.M: 865
Arnlov, J: 866
Arooj, M: 868,869,867,866,865
Arora, A: 520,829,88,89,155,414,507,677,679,326,95,638,641,920,1281,598,736,737,810,1641,1644,1645,809,811,1294,1462
Arora, B.B: 736,737,1641,1644,1645,677,679
Arora, D: 569,938,1551
Arora, H.K: 1725
Arora, M: 379,153,437
Arora, P: 201
Arora, P.K: 585,953
Arora, S: 24,410,695,1525
Arora, V: 1747
Arraoui, R: 819
Arredouani, A: 1021
Artamonov, A.A: 868,869,867,866,865
Artanti, K.D: 869,865
Arulappan, J: 867,866,865
Aruleba, I.T: 865
Aruleba, R.T: 868,869,867,866,865
Arumugam, A: 868,867,866,865
Arvind, P: 237,694
Arya, A: 20,584
Arya, G: 357
Arya, S.R: 481,998
Arya, V: 257,922
Aryam, A: 1536

2024 Published Papers

Asaad, M: 866,865
Asadi-Lari, M: 867,866
Asadi-Pooya, A.A: 869
Asdaque, P.M.G.B: 1325
Asemi, Z: 867
Asena, T.F: 869
Asgary, S: 865,867
Asgedom, A.A: 866
Asghari-Jafarabadi, M: 869,867,866
Asghariahmadabad, M: 867,866
Ashbaugh, C: 868
Ashemo, M.Y: 868,867,865
Ashish, K: 375
Ashish, Kumar, P: 1328
Ashraf, A: 221
Ashraf, M: 868,869,867,866,865
Ashraf, T: 869,867
Ashraf, W: 1438
Ashutosh, Joshi, D: 1121
Ashvin, Kumar, A: 417
Asika, M.O: 868,867,865
Asjad, M: 922,1424
Askari, E: 868
Aslani, A: 866
Astell-Burt, T: 868,866
Asthana, S: 1703
Atal, D.K: 647
Atalell, K.A: 869
Atamurotov, F: 453,1551,1219,184,611,144,938
Athar, M: 235,866
Athari, S: 865
Athari, S.S: 868,869,867,866
Atheaya, D: 1275,1452
Atinafu, B.T.T: 869,866
Atlaw, H.W: 866
Atorkey, P: 868,869,866
Atout, M.M.W: 868,869,867,866,865
Atreya, A: 868,869,867,866,865
Attia, S: 865
Aujayeb, A: 868,869,867,866,865
Ausloos, M: 868,867,866

2024 Published Papers

Avan, A: 868,869,867,866,865
Avasthi, A: 395,1273
Awal, G.K: 1080
Awal, M.R: 1114
Awale, S.D: 1642
Awasthi, N: 941
Awasthi, S: 384,509,1688
Awedew, A.F: 866
Aweke, A.M: 867,866
Awotidebe, A.W: 868,865
Awuviry-Newton, K: 868
Ayala Quintanilla, B.P.A: 869,866
Ayanore, M.A: 865
Ayatollahi, H: 869,866
Ayele, G.M: 867,865
Ayinde, O.O: 869
Ayuso-Mateos, J.L: 868,866,865
Ayyoubzadeh, S: 865
Ayyoubzadeh, S.M: 867,866
Azad, A: 1299
Azadnajafabad, S: 868,869,865,867,866
Azeem, A: 1118
Azevedo, R.M.S: 868,867,866
Azhar Hussain, M: 866
Azhar, G.S: 865
Azim, Y: 1386
Aziz, S: 865
Azizah, H.J.A: 477
Azizi, Z: 869
Azizian, K: 869
Azmi, H: 819
Azzam, A.Y: 869,867,866,865
Babaei, M: 869
Babashahi, M: 865
Babu, A.S: 868,866,865
Babu, B.V: 190
Babu, G: 1201
Babu, G.R: 868,867
Badar, M: 868,869,867,866,865
Badawi, A: 865
Badiye, A.D: 868,869,867,866,865

2024 Published Papers

Badolia, N: 282
Badoni, M: 831,1134
Baghani, A.N: 865
Baghdadi, S: 868,869,867,866,865
Baghel, N: 300,1615
Baghel, S: 1313,1367,1210
Bagheri, N: 868,867,866,865
Bagherieh, S: 869,867,866,865
Bagla, V: 1134
Bah, S: 868,866,865
Bahadorikhalili, S: 866,865
Bahmanziari, N: 867,866
Bahri, R.A: 867,865
Bahuguna, V: 1624
Bai, J: 865
Bai, R: 868,869,867,866,865
Baig, A.A: 869,867,866
Bain, L.E: 868,867,865
Baitha, M.N: 1335
Bajaj, A: 143,165,1180,314
Bajaj, L: 1031
Bajaj, R: 1060,1732
Bajarange, A.P: 692
Baker, J.L: 868,867,866,865
Bakkannavar, S.M: 868,865
Bako, A.T: 868,867,866,865
Bakshi, R.K: 867,866
Bala, M: 35,778,844,1064,1263,649
Balaji, P: 1053
Balakrishnan, S: 868,869,866,865
Balalla, S: 869
Balas, V.E: 190
Balasubramanian, M: 867,866
Balbi, A: 1628
Baldi, S: 997
Bali, A.O: 869
Balogun, S.A: 865
Balsalobre-Ruza, O: 1628
Baltatu, O: 865
Baltatu, O.C: 869,867,866,865
Bam, K: 868,867,866,865

2024 Published Papers

Bana, A.R: 869
Banach, M: 869,867,866,865
Bandyopadhyay, S: 869,867,866,865
Banerjee, I: 869
Banga, S: 1221
Banik, B: 867,865
Banik, D: 1628
Banik, P.C: 868,867,866,865
Bankura, B: 839
Bano, A: 344
Bano, N: 427
Bansal, A: 1488,1490,74,505,634,974,1400
Bansal, G: 310,1433
Bansal, H: 971,1565,867,866,865
Bansal, K: 1201,866
Bansal, M: 1092,1451
Bansal, N: 312,844,1364,1363
Bansal, P: 441,1524,374,511,808
Bansal, R: 247,409
Bansal, S: 1393,1722,1748,798
Bansal, V: 399,1194,1381
Banwal, A: 960,1618,1182,616,1421
Baqais, A: 506
Baran, M.F: 869,867
Barati, S: 865
Barbic, F: 866
Barbora, L: 658
Barboza, M.A: 869
Barchitta, M: 868,869,867,866,865
Bardhan, M: 868,869,867,866,865
Bardideh, E: 868,867,866
Barh, D: 427
Barker-Collo, S.L: 868,869,867,866,865
Barman, A: 758
Barman, T: 1136
Barnighausen, T.W: 866
Barone-Adesi, F: 867,866,865
Barqawi, H.J: 868,867,866,865
Barr, R.D: 865
Barrero, L.H: 866,865
Barrow, A: 868,869,867,866

2024 Published Papers

Barteit, S: 868,867,866
Barua, L: 868,866
Basara, B.B: 868,867,865
Basharat, Z: 867,866,865
Bashash, D: 869
Bashir, A.I.J: 867,865
Bashiri, A: 866
Bashiri, H: 869
Bashiru, H.A: 869,867,865
Basiru, A: 868,869,867,866
Basith, A: 1421
Baskaran, P: 866,865
Basnyat, B: 866,865
Bassat, Q: 866
Bassat, Q : 865
Basso, J: 869
Basso, J.D: 867,866,865
Basting, A.V.L: 866
Basu, A: 1736
Basu, S: 869,868,867,866,865,
Bathini, P.P: 868
Batiha, A-M.M: 867
Batiha, A.M.M: 869
Batra, K: 868,869,867,866,865
Batra, L: 1066
Batra, P.K: 1172
Batra, R: 865
Baune, B.T: 868,869,867,866,865
Bautola, R: 744
Bayati, M: 867,866,865
Bayileyegn, Ns: 868,866,865
Beaney, T: 866,865
Beck, M: 1628
Bedi, N: 869,866,865
Bedi, P.P.S: 778,1064
Begde, A: 869
Beghi, M: 866
Begum, T: 869,867,865
Behboudi, E: 867,866,865
Behera, P: 866
Behnagh, A.K: 865

2024 Published Papers

Behnam, B: 868,869
Behnoush, A: 865
Behnoush, A.H: 868,869,867,866
Behzadifar, M: 866
Beiranvand, M: 868,869,867,866,865
Bejarano Ramirez, D.F: 866
Bekele, A: 869,867
Belay, S.A: 867,866
Belete, C.M: 866
Belete, M.A: 869
Belgaumi, Ui: 869,867,865
Bell, M.L: 868,867,866,865
Bello, A.K: 865
Bello, M.B: 866,865
Bello, O.O: 868,867,866,865
Belo, L: 866,865
Beloukas, A: 868,867,866,865
Bemanalizadeh, M: 869
Bendak, S: 865
Bender, R.G: 869,866
Benfor, B: 869
Beniwal, M: 826
Beniwal, N: 321
Beniwal, R: 33,34,105,678,1045,1098,1489,1139,1661,38,315,1488,1490,903
Beniwal, T: 1340
Bennett, D.A: 869,865
Bensenor, I.M: 868,869,867,866,865
Bensmail, H: 1021
Benzian, H: 865
Beran, A: 866
Berezvai, Z: 868,867,866,865
Berhie, A.Y: 867,866
Berice, B: 869
Berice, B.N: 866
Berkovsky, S: 1372
Berman, A.E: 865
Bermudez, A.C: 865
Bermudez, A.N.C: 867
Bernabe, E: 868
Bernstein, R.S: 868,866
Bertolacci, G.J: 866

2024 Published Papers

Bettencourt, P.J.G: 868,869,867,866,865
Beyene, H.B: 865
Beyene, K.A: 869,866,865
Bhadra, A: 869
Bhagat, A: 337
Bhagat, D.S: 869,866,865
Bhagat, R: 879,820
Bhagavathula, A.S: 868,867,866,865
Bhala, N: 868,866,865
Bhalla, A: 866,865
Bhalla, H: 1072
Bhan, S: 263
Bhandari, A: 261,1372
Bhandari, D: 868,866,865
Bhandari, K: 192,1492
Bhandari, S: 1455,5
Bhandari, V: 1517
Bhandarkar, S.L: 211
Bhangdia, K: 869,866
Bharadvaja, N: 923,999,1730,246,329,369,708,1132,333
Bharadwaj, D: 1043
Bharadwaj, S: 848
Bhardwaj, A: 554,703,818,1128,1291,1399,1540,1386,357
Bhardwaj, C: 1569
Bhardwaj, D: 448
Bhardwaj, K: 1364
Bhardwaj, N: 869,867,866,865
Bhardwaj, P: 869,867,866,865
Bhardwaj, P.V: 867,866,865
Bhardwaj, S.P: 1414
Bhardwaj, V: 771
Bhardwaj, Y: 436,1085
Bhargava, A: 868,869,866,865
Bhargava, V: 1724
Bharti, Mittal, P: 957,1007,1230
Bhartia, A: 582
Bhasin, S: 953,1081
Bhaskar, D: 1717
Bhaskar, D.R: 824,879,820,690,1509,1508
Bhaskar, S: 868,869,867,866,865
Bhaskaran, M: 1382

2024 Published Papers

Bhat, A: 73,140,149,1153,1165,1514,1694,377,889,1390

Bhat, A.A: 363

Bhat, A.N: 869

Bhat, M: 1409

Bhat, V: 868,869,867,866,865

Bhateja, I: 809

Bhatia, A: 802

Bhatia, A.B: 284,1071

Bhatia, B: 284,1071

Bhatia, K: 1676

Bhatia, R: 413

Bhatia, S: 356

Bhatnagar, M.C: 1427

Bhatnagar, P: 914

Bhatnagar, S: 549,550

Bhatt, K: 309

Bhatt, P: 1001

Bhatt, Y: 418

Bhattacharjee, N.V: 867

Bhattacharya, A: 1653

Bhattacharya, S: 577

Bhattacharyya, P: 887

Bhattarai, A: 962

Bhattarai, S: 1628

Bhatti, G.K: 868,869,867,866,865

Bhatti, J.S: 868,869,867,866,865

Bhatti, M.S: 868,867,866,865

Bhatti, R: 868,869,867,866,865

Bhavishya, Singh, P: 49

Bhayana, D.A: 1675

Bhola, G: 133,1749

Bhowal, B: 1662

Bhowmick, S: 1113

Bhushan, B: 286,468,1282,1418

Bhutta, Z.A: 868,866,865

Bicer, B.K: 867,865

Bijani, A: 869

Bikbov, B: 868,869,866,865

Bikram Shahi, S: 490

Bilal, M: 1613

Bilalaga, M.M: 869

2024 Published Papers

Bilandi, S: 923
Binmadi, N: 865
Bintoro, B: 865
Biondi, A: 867,865
Birajdar, R: 645
Birbacher, T: 1628
Biren, J: 1628
Birok, R: 602,947
Bishai, J.D: 868,866
Bisherwal, P: 47
Bisht, A: 835
Bisht, A.S: 1518
Bisht, V: 412
Bisht, Y.S: 1306
Bisignano, C: 865,868,867,866
Bisulli, F: 866,865
Biswas, A: 869,867,866,865
Biswas, B: 866
Biswas, R: 865
Biswas, R.K: 867
Biswas, S: 982
Bitaraf, S: 869,866,865
Bitew, B.D: 866
Bitra, V.R: 868,869,867,866
Bjørge, T: 868,869,867,866,865
Bleyer, A: 865
Bliss, E: 867
Bo, C.D: 868
Boachie, M.K: 867,866
Boampong, M.S: 866,865
Boban, A: 1202,1343
Bobirca, A.V: 867,866
Bodolica, V: 868,869,867,866,865
Bodunrin, A.O: 868,869,867,866,865
Bogale, E.K: 868,867,866
Bogale, K.A: 867,866
Bohlouli, S: 866
Bojang, D: 1286
Bokolia, R: 1370,656,756,1236,1182,1618,616,960,1421
Bolarinwa, O.A: 866,865
Boloor, A: 869,866

2024 Published Papers

Bonakdar Hashemi, M.B: 866
Bonny, A: 868,866,865
Bora Basara, B: 866
Bora, K: 866,865
Borah, M.D: 338
Borhany, H: 868,866
Borodo, S.B: 865
Borschmann, R: 865
Borzutzky, A: 866
Bose Styczynski, A: 849
Bose, H: 1669
Bottoni, J: 1628
Bouali, A: 1349
Bouaoud, S: 867,866,865
Boudalia, S: 865
Boustany, A: 866
Boxe, C: 868,866
Boyko, E.J: 865,866
Braam, M: 1628
Brady, O.J: 868,866
Bragazzi, N.L: 868,865
Braithwaite, D: 868,869,867,866,865
Brandeker, A: 1628
Brant, L.C: 868,866
Brar, L.S: 1314
Brauer, M: 868,867,866
Brayne, C: 869
Braytee, A: 925
Brazinova, A: 866
Brazo-Sayavera, J: 866
Breitborde, N.J.K: 867,866
Breitner, S: 868,866
Brenner, H: 868,869,866,865
Briko, A: 869
Briko, A.N: 866
Briko, N.I: 866
Bringas Vega, M.L: 869
Britton, G: 866,865
Brown, J: 868,869,866
Browne, A.J: 865
Brugha, T: 868,866

2024 Published Papers

Brunoni, A.R: 865
Bryazka, D: 867
Buchhave, L.A: 1628
Budhraj, N: 1287,1504,1505
Budig, T: 1372
Budke, C.M: 869
Bulamu, N.B: 868,867,866,865
Bulto, L.N: 866,865
Buonsenso, D: 868,869,867,866,865
Burkart, K: 865,868,869,867
Burns, R.A: 868,869,867,866,865
Burnwal, P.K: 192
Busse, R: 868,866,865
Bustanji, Y: 868,869,867,865,866
Butola, R: 211,741,1746
Butt, M.H: 869
Butt, N.S: 869,867,866
Butt, Z.A: 868,869,867,866,865
Byun, J: 868
Bärnighausen, T.W: 869,867
Béjot, Y: 869,866
Bérubé, C: 1372
C, Dhanamjayulu: 1097
Caballero, J.A: 1628
Cabral, L.S: 869
Cabrera, J: 1628
Caetano Dos Santos, F.L: 866
Cai, T: 865
Caldelli, R: 896
Calina, D: 868,869,867,866,865
Caliskan, H: 942,1193,1582,451,1646,963,21
Caliskan, N: 1193
Camera, L.A: 866
Campos, L.A: 866,865
Campos-Nonato, I.R: 868,869,867,866,865
Cao, B: 869
Cao, C: 868,869,866,865
Cao, D.N: 542
Cao, F: 867
Cao, S: 867
Cao, Y: 866

2024 Published Papers

Capodici, A: 868,867,866
Carabin, H: 869
Cardenas, C.A: 865
Carone, L: 1628
Carr, S: 865,868,866
Carreras, G: 868,869,867,866,865
Carrero, J.J: 865,866
Carrión-González, Ó: 1628
Carroll, F: 858
Carugno, A: 868,867,866,865
Carvajal, A.B: 865
Carvalho, C.G: 866
Carvalho, A.F: 869
Carvalho, F: 866,865
Carvalho, M: 868,866,865
Castaldelli-Maia, J: 865
Castaldelli-Maia, J.M: 868,866
Castañeda-Orjuela, C.A: 868,869,867,866,865
Castel Pietra, G: 868,867,866,865
Castro-González, A: 1628
Casulli, A: 869
Catalá-López, F: 869,866,865
Catapano, A.L: 868,869,866,865
Cattaruzza, M.S: 865,868,867,866
Cavallera, V: 869
Caye, A: 868,869,867,865
Cederroth, C.R: 865,866
Cegolon, L: 868,869,867,866
Cembranel, F: 868,867,866,865
Cenderadewi, M: 868,869,866,865
Cercy, K.M: 865,866
Cerin, E: 868,869,867,866,865
Cevik, M: 866,865
Chacón-Uscamaita, P.R: 865
Chacón-Uscamaita, P.R.U: 869
Chadda, R.K: 860
Chadha, M: 661
Chadha, S: 1735
Chadha, V: 124
Chadwick, J: 867,866
Chahal, R.P: 615

2024 Published Papers

Chahine, Y: 865,867,866
Chakrabarti, D: 362
Chakrabarti, R: 659
Chakrabarti, S: 887
Chakraborty, C: 867,866,865
Chakraborty, P.A: 868,866
Chakraborty, S: 1314
Chakraborty, T: 1056,1114
Chakravarty, A: 354
Chalek, J: 867
Chamola, P: 1312,1439
Chan, J: 865
Chan, J.S.K: 868,869,867,866
Chan, K: 1628
Chan, R.N.C: 868,866
Chandan, N.S: 865
Chandan, S.N: 868,867,866
Chandika, R.M: 868,866
Chandra Srivastava, S: 1515
Chandra, L: 1705
Chandra, P: 393,235,654,1163,1164
Chandra, S: 659
Chandra, V: 1074
Chandra, Y: 1271
Chandrasekar, E.K: 868,866
Chang, C: 865
Chang, C-K: 866
Chang, J-C: 866
Chani, P.S: 681
Chanie, G.S: 869,866
Charak, H: 823
Charalampous, P: 868,867,866,865
Charan, J: 869,865
Chatterjee, D: 492
Chatterjee, S: 44
Chattu, V: 865
Chattu, V.K: 868,869,867,866
Chaturvedi, A: 1375
Chaturvedi, D.K: 524
Chaturvedi, K: 814,925
Chaturvedi, M: 17

2024 Published Papers

Chaturvedi, P: 809,866
Chaturvedi, S: 54,1680,867
Chaty, S: 80
Chatzimavridou-Grigoriadou, V: 868,866,865
Chaudhary, A: 187,328,538
Chaudhary, A.K: 741
Chaudhary, D: 845
Chaudhary, H: 184,437,455,456,611,1218,454,457,569,759,1349,1499,1551,1552,435,453,872,1392,938,1219,144
Chaudhary, N: 1667
Chaudhary, R: 349,350,747,912,131,704,554,703,1128,1291,1709,293,1012,1636
Chaudhary, S: 194,1093,1653
Chaudhary, V: 517,752
Chaudhary, V.S: 517
Chaudhry, R: 1115
Chauhan, A: 1670,1762,1075,17,468
Chauhan, A.R: 1430
Chauhan, B.S: 480
Chauhan, D.S: 1344
Chauhan, P: 1373
Chauhan, P.S: 1224
Chauhan, R: 366
Chauhan, U: 42
Chaujar, R: 1017,1205,749,474,475,567,840,934,1248,1481,1611,774,994,50,930,1607
Chaurasia, A: 866
Chaurasia, S.P: 192
Chavula, M.P: 867,865
Chawla, D: 995,1052,1383,496,4,1475,78
Chawla, H: 1434
Chawla, S: 238,680,1056
Checker, S: 764
Cheema, H.A: 865
Chekol Abebe, E: 869
Chen, A: 865
Chen, A-T: 868,867,866
Chen, A.W: 868,866
Chen, C.S: 868,866
Chen, H: 868,869,867,866,865
Chen, J: 869
Chen, L: 865
Chen, M: 865
Chen, M.X: 866

2024 Published Papers

Chen, N.M: 868
Chen, S: 867,866,865
Cheng, C: 817
Cheng, C-Y: 866
Cheng, E.T.W: 868,866
Cherbuin, N: 865,866
Cheru, W.A: 866
Cherukuri, M: 150
Chew, D.S: 865
Chhabra, A: 379
Chhabra, H: 534
Chhabra, J.K: 1663
Chhillar, A: 542
Chhimwal, M: 1480
Chholak, K: 1120
Chi, G: 865,869,867
Chiarong Hsieh, V: 866
Chichagi, F: 869,867
Chidambaram, S.B: 869,1382
Chien, J-H: 867,866
Chierchia, G: 486
Chimed-Ochir, O: 868,866
Chimoriya, R: 868,869,866
Ching, P.R: 868,869,867,866
Chinthaginjala, R: 1097
Chinthala, S: 197
Chirinos-Caceres, J.L: 866,865
Chitheer, A: 869,866,865
Chitthamlerd, T: 1096
Chittora, P: 1134,513,1448,498,990,1473,527,528,1358,1357
Cho, S.J: 865
Cho, W.C.S: 868,867,866,865
Cho, Y-I: 46
Choi, S: 868,867
Chong, B: 868,867,866,865
Chong, Y.Y: 868,869
Choon Kit, C: 446,729
Chopra, H: 1151,869,867,866,865
Chopra, V: 124
Chopra, Y: 25,65,537
Choudhari, S.G: 868,869,867,866

2024 Published Papers

Choudhary, A: 1161,354
Choudhary, G: 1696
Choudhary, M.S: 1729
Choudhary, N: 211
Choudhary, P: 1768
Choudhary, R: 865
Choudhary, S: 626,684,1547,1670,41,726
Choudhry, A: 207,259
Choudhry, M.S: 55,66,842,1693
Choudhury, S.P: 628,850
Choumal, A: 699
Chourasia, S: 991,1016
Chouzenoux, E: 486
Chowdhury, E.K: 869
Chowdhury, R: 868,869,865,866
Chowdhury, S: 1624
Christensen, H: 869
Christensen, S.W.M: 868
Christopher, D.J: 867,866
Chu, D: 865
Chu, D-T: 868,869,867
Chugh, G: 1666
Chugh, H: 648,652,1606
Chukwu, I.S: 868,869,867,866,865
Chun, H.Y: 1523
Chung, E: 869,867
Chung, E: 865866868
Chung, S: 865
Chung, S-C: 867,866
Chuphal, L.S: 928
Churchill, D.G: 386,916
Chutiyami, M: 868,866
Cindi, Z: 867,866
Cini, K.I: 865
Cioffi, I: 867,866
Ciuffreda, R: 867
Claassens, M.M: 868,866
Clark, C.C.T: 865
Claro, R.M: 867,866
Coberly, K: 865,869,867,866
Coelho, L.F: 1628

2024 Published Papers

Cogen, R.M: 868,866
Columbus, A: 868,869,867,865,866
Comachio, J: 869
Comfort, H: 865,867,866
Conde, J: 868,869,867,866,865
Constantinou, T: 1628
Conti, S: 865
Cortese, S: 866
Cortesi, P.A: 868,869,866,865
Costa, V.M: 869,866,865
Costanzo, S: 866
Cousin, E: 869,865,868,866
Couto, R.A.S: 869,866
Cowan, N: 1628
Cowden, R.G: 866,865
Cramer, K.M: 866
Criqui, M.H: 868,869,867,866,865
Cruz-Martins, N: 868,869,867,866,865
Cuadra-Hernandez, S.M: 866867
Cui, X: 1387
Culbreth, G.T: 865,866
Cullen, P: 866,865
Cunningham, M: 865,866
Curado, M.P: 866
Cámara, L.A: 868,865
Cárdenas, R: 869,866,865
D'Amico, E: 869,865
D'Oria, M: 868,867,866
Da Silva, D.D: 867868865
Dabaghi, G.G: 868,867
Dabas, A: 1450
Dabas, D: 4,496,995,1475
Dabas, V: 1104
Dabbagh Ohadi, M.A: 869
Dadana, S: 869,867,866,865
Dadras, O: 868,869,867,866,865
Dagar, D: 1493,1620
Dagar, S: 1105
Dager, B: 542
Dahiru, T: 867
Dahiya, A: 36,1407

2024 Published Papers

Dahiya, P: 1133,310
Dahiya, S: 1082,1678,819
Dahmani, S: 1349
Dai, S: 868,866
Dai, X: 868,869,866
Dai, Z: 868,869,865,867,866
Daksh, Chauhan, Y: 514
Dalaba, M.A: 868
Dalakoti, N: 82,594
Dalal, K: 1146,1148,1348,865
Dalal, Y: 1353
Dalli, L.L: 866,865
Dalton, B: 867
Damavandi, P.T: 868,867,865
Damiani, G: 868,867,866,865
Dan, A: 1445
Danawi, H.A: 869
Danchi, W: 1628
Dandona, L: 869
Dandona, R: 869
Dandumont, C: 1628
Daneshvar, S: 865
Dangi, G: 534
Dangwal, P: 843
Dannert, F: 1628
Dantcheva, A: 1702
Dao Le, L.K: 868
Darak, S.J: 1227
Darega Gela, J: 866
Darshan, B.B: 866
Darwade, Ns: 1022,1023
Darwesh, A.M: 867,865
Darwish, A.H: 869
Das, A: 574,1164,1178,1053,1,8,1081,1612,313,393
Das, B.K: 1619
Das, D: 40
Das, J.K: 868,867,866,865
Das, K.P: 221
Das, L: 161,713,256,828
Das, L.K: 22
Das, P: 40

2024 Published Papers

Das, P.P: 752
Das, R.K: 1570
Das, S: 1053,1668,868,867,865
Das, S : 866869
Das, S.R: 884
Das, T: 13
Dascalu, A.M: 869,866
Dash, D: 860
Dash, N.R: 869,865,866
Dashti, M: 865,868,869,867,866
Dastiridou, A: 867,866
Datt Yadav, R: 636
Datta, D: 839
Datta, P: 224,342
Datta, R: 1437
Datta, S: 968
Davey, G: 866
Davies, G.H: 1433
Davila-Cervantes, C.A: 866
Davis Weaver, N: 866
Davlataliyev, A: 1219
Davletov, K: 868,867,866,865
Davoult, J: 1628
Dawar, G: 356
Dawn, A: 1628
De Andrade Ruela, G: 867,866
De La Hoz, F.P: 869
De La Torre-Luque, A: 869
De Leo, D: 868,869,866
De Luca, K: 866
De Vera, J-P.P: 1628
De Visser, P.J: 1628
De, A: 895,1131,1147,1681,516,301,371,535,1028
Dean, F.E: 869
Debalaxmi, D: 203,258
Debele, A.T: 865,868,867,866
Debnath, U: 184,221,435,437,611,872,1218,456,759,455,1552,1551
Debopadhaya, S: 868,867,866
Decleene, N.K: 868
Decoster, M.A: 732
Dedeepya, G: 617

2024 Published Papers

Deeba, F: 868
Deepali, Pandey, M: 1555
Deepika, Haritash, A.K: 1341,196
Deepthi, R: 867
Deepti, Maurya, S: 597
Defo, B.K: 868,869,867,865
Defrère, D: 1628
Degenhardt, L: 865,868,866
Dehbandi, R: 865
Dehghan, A: 866869
Dehkordi, J.A: 865
Deitesfeld, L: 865,866
Dejene, H: 869
Del Bo, C: 866
Delavari, S: 867
Delgado-Enciso, I: 868,867,866,865
Delgado-Ortiz, L: 865
Demant, D: 869,865
Demeke, D: 867
Demessa, B.H: 867,866,865
Demetriades, A.K: 868,869,866,865
Demir, E: 1219
Demissie, S: 869
Deng, K: 866
Deng, X: 869,867,866,865
Denova-Gutierrez, E: 866868867865
Deo, K: 1093
Deo, N: 277,164,1637
Deopa, N: 142,1534,600
Deravi, N: 866
Dereje, N: 866
Deribe, K: 867,865
Dervenis, N: 868,867,866,865
Dervi?evi?, E: 866
Des Jarlais, D.C: 866
Desai, H.D: 868,869,867,866,865
Desai, R: 868,867,866,865
Deshwal, A: 887
Desugari, H.S: 1527
Deswal, S.S: 933,1117
Deswal, V: 1210

2024 Published Papers

Deuba, K: 865,868
Dev Pandey, K: 741
Dev, N: 1120,249
Dev, P: 433
Dev, S: 618
Devanbu, V.G.C: 869,867,866,865
Devi, A: 45
Devi, C.B.A: 363
Devi, K: 317
Devi, O.L: 1318
Dewan, S.M.R: 866
Dey, A: 566
Dey, A.K: 566
Dey, S: 865
Dhaka, A: 571
Dhaka, P: 67,667
Dhaka, R.S: 571
Dhaka, S.K: 1523,383,1285
Dhali, A: 867,866,865
Dhama, K: 868,869,867,866,865
Dhar, G.G: 1752,1535
Dhariwal, S: 1068
Dharmaratne, S.D: 868,869
Dhaundiyal, P: 356
Dhawan, A: 1225
Dhimal, M: 869,867,866,865
Dhimal, M.L: 865
Dhiman, C: 98,163,1622,439,780,814,1378,1760,1062
Dhiman, T.K: 573
Dhingra, D: 356
Dhingra, S: 868,866,865
Dhruva, H.K: 779
Dhulipala, V.R: 867,866
Dhyani, A: 620
Dias Da Silva, D: 869,866
Diaz, D: 868,869,867,866,865
Diaz, L.A: 868
Diaz, M.J: 868,867,866
Dibas, M: 869
Diksha, Dev, N: 1362,1708,1715
Diksha, Gupta, A.K: 725

2024 Published Papers

Dima, A: 868,867,866,865
Ding, D.D: 868,869,867,866,865
Ding, H: 866
Dinis-Oliveira, R.J: 866
Dinkar, A.K: 34
Dinu, M: 869
Dirac, M.A: 865,868,869,867,866
Diress, M: 869
Dishu, Gupta, H: 1298
Ditta, A: 144
Diwakar, S: 1604
Dixit, A: 865,1768
Dixit, S: 377,1396
Dixit, S.G: 865
Djalalinia, S: 866
Do Prado, C.B: 867,868,866
Do, T.C: 869,867,865
Do, T.H: 865
Do, T.H.P: 868,869,867,866
Doaei, S: 866
Doan, K.D.K: 869
Dobhal, A: 1489
Dobriyal, R: 1283
Dodangeh, M: 869,865
Dodangeh, M : 866
Doddoji, R: 1733
Dohare, S: 868,867,866
Doheim, M.F: 869
Dokova, K.G: 869,866,865
Dolecek, C: 865,866
Dombola, W: 1729
Dominguez, R-M.V: 868
Dominguez, R.M.V: 866
Dong, W: 868,867,866
Dongarwar, D: 868,869,866
Dorn, C: 1628
Dorostkar, F: 866
Dorsey, E: 865
Dorsey, E.R: 868,866
Dos Santos, F.L.C: 867,868,869
Dos Santos, W.M: 867,866

2024 Published Papers

Doshi, R: 866,865
Doshmangir, L: 865,868,867,866
Douiri, A: 865
Dowou, R.K: 865,868,867,866
Driscoll, T.R: 868,866,865
Dsouza, A.C: 867
Dsouza, H.L: 868,869,867,866,865
Dsouza, V: 868,867,866
Du, M: 866
Dua, P: 1751
Dua, T: 869
Duanyai, W: 1096
Dube, J: 868,869,867,866,865
Dubey, A: 638,641
Dubey, A.K: 618,1261
Dubey, M.K: 674
Dubey, V: 444,1014,1466
Dugar, K: 1132,246
Dumith, S.C: 868,865
Dunachie, S.J: 865
Duncan, B.B: 868,866,865
Duprey, J: 867
Duque Lara, J.A: 1628
Duraes, A.R: 868,867,866,865
Duraismy, S: 868,869,867,866,865
Durojaiye, O.C: 868,869,867,866,865
Dutt, K: 1462
Dutta, K: 823
Dutta, S: 869,867,865
Dwivedi, A.K: 603,604
Dwivedi, P.K: 1038
Dwivedi, S: 319,531,772
Dwivedi, U.K: 850,628
Dwivedi, Y.K: 1433
Dwivedy, S.K: 1002
Dwyer-Lindgren, L: 867,866
Dzianach, P.A: 868,867,866,865
Dziedzic, A.M: 868,869,867,866,865
Dávila-Cervantes, C.A: 868,867,865
D'Angelo, E: 906
D'Silva, T.C: 716

2024 Published Papers

D'Souza, M.M: 201

E Sá Farinha, C.S: 868

E'Mar, A.R: 866

Ebenezer, O: 865

Eboreime, E: 868,866,865

Ebrahimi, A: 868,867,866,865

Echieh, C.P: 866,865

Ed-Dahmouny, A: 819

Ed-Dra, A: 865

Eddy, N.O: 653

Edinur, H.A: 868,869,867,866,865

Edvardsson, D: 868,866,865

Edvardsson, K: 867,866,865

Efendi, D: 866,865

Efendi, F: 867,866,865

Effendi, D.E: 866

Eghdami, S: 865

Ehsan Mousavi, S: 869

Eikemo, T: 865

Eikemo, T.A: 868,867,866

Eini, E: 868,866,865

Eissazade, N: 869

Ekholuenetale, M: 868,865,869,867,866

Eklavya, Katarya, R: 245

Ekpor, E: 865

Ekundayo, T.C: 868,865,869,866

El Hadi Attia, M: 519

El Nahas, N: 869

El Razek, M.M.A: 869,867

El Sayed, I: 866

El Sayed, I.E: 869

El-Huneidi, W: 866

Elahi Najafi, M.A.E: 869

Elahi, E: 1387

Elara, M.R: 997

Elbarazi, I: 865,868,869,866

Elema, T.B: 866

Elemam, N.M: 868,869,865,867,866

Elgar, F.J: 869,866,865

Elgendy, I.Y: 865,869,866

Elgohary, G.M.T: 868,867,865,866

2024 Published Papers

Elhabashy, H.R: 869,865,866
Elhadi, M: 868,869,867,866,865
Elhafeez, S.A: 867,865
Elilo, L.T: 869,867,866
Ellenbogen, R.G: 869
Elmagarmid, K.A: 1021
Elmeligy, O.A.A: 865,868,869,867,866
Elmonem, M.A: 869,867,866
Elnahas, G: 868
Elouaghzani, I: 245
Elowitz, M: 1628
Elshaer, M: 868,869,867,866,865
Elsohaby, I: 868,869,867,866,865
Emamverdi, M: 865,869
Emeto, T.I: 869,866,865
Emmanuel Omonisi, A.E: 868
Endres, M: 869
Engelbert Bain, L: 866
Erkhembayar, R: 868,866,865
Ertel, S: 1628
Esezobor, C.I: 869,866
Eshetie, T.C: 865
Eshkiki, Z.S: 868
Eshrati, B: 868,866
Eskandarieh, S: 865,869,867,866
Espinosa-Montero, J: 866,865
Esposito, F: 867
Essa, S.M: 1382
Estep, K: 865,868,867
Esubalew, H: 866
Etaee, F: 867,865,866
Eth, M.S: 311
Eynde, J.V.D: 865
Eze, U.A: 865
Fabín, N: 868,867,866,865
Fadaei, A: 869
Fadaka, A.O: 866,865
Fadlalla, M: 1021
Fagbamigbe, A.F: 868,865,869,867,866
Faheem, A: 633
Fahim, A: 869,866

2024 Published Papers

Fahimi, S: 865,867,866
Faizi, S.A.A: 427
Fakhri, K.U: 1639
Fakhri-Demeshghieh, A: 867,866
Fakkahi, A: 819
Fallahy, M.T.P: 867
Falzone, L: 868,865,867,866
Fang, Y: 1628
Faramarzi, A: 869,867
Fareed, M: 868,866
Fares, J: 869
Farinha, C.S.E: 865
Faris, M.E.M: 868,865,867,866
Faris, P.S: 866
Farjoud Kouhanjani, M: 869
Farman, M: 1402
Farmer, S: 867
Faro, A: 868,869,867,866,865
Farrokhi, P: 868
Farrokhpour, H: 865
Farzadfar, F: 869
Fasanmi, A.O: 867,866
Fatehizadeh, A: 868,869,867,866,865
Fathi, M: 869
Fathi, S: 869
Fatima, S.A.F: 869
Fatma, N: 1388
Fattahi, H: 866,865
Fauk, N.K: 868,867,866,865
Fazeli, P: 867,866,865
Feigin, V.L: 865,868,867,866,869
Feizkhah, A: 869,866
Fekadu, G: 866,865
Felix, S: 1628
Feng, X: 868,866
Fereshtehnejad, S: 865
Fereshtehnejad, S-M: 868,869,867,866
Feroze, A.H: 865,868,867,866
Ferrante, D: 866,865
Ferrara, P: 867,865
Ferrari, A.J: 868,869,866

2024 Published Papers

Ferreira, N: 868,869,867,866,865
Ferreira, P.H: 868
Fetensa, G: 869,867,866,865
Feyisa, B.R: 866
Filip, I: 867,866,865
Firouraghi, N: 869
Fischer, F: 868,869,867,866,865
Flavel, J: 868,867,866,865
Flaxman, A.D: 865
Fleisch, E: 1372
Flood, D: 868,866
Flor, L.S: 865,868
Florin, B.T: 865,866
Foigt, N.A: 868,867,866
Folayan, M.O: 868,867,866,865
Foley, K.M: 865
Fomenkov, A.A: 867,866,865
Fonseca, A.C: 869
Force, L.M: 865,868,869
Fornari, A: 869
Fornari, C: 865
Foroutan, B: 869,867,866,865
Foroutan, M: 866
Forthun, I: 866
Fortier, A: 1628
Fortin, F: 80
Fortney, J: 1628
Fortuna, D: 868,866
Foschi, M: 868,867,866,865
Fowobaje, K.R: 867,866
Francis, K.L: 867,866,865
Franklin, R.C: 868,866,865
Freitas, A: 868,867,866,865
Fridlund, M: 1628
Fridman, N: 916
Friedman, J: 865,866
Friedman, S.D: 866,865
Fukumoto, T: 868,869,867,866,865
Fuller, J.E: 865,867,866
Furtado, J.M: 868
Fux, B: 867,866

2024 Published Papers

G, S.K: 914
Gaal, P.A: 868,867,866,865
Gadanya, M.A: 865,868,869,867,866
Gadh, R: 1496,1497
Gahlan, N: 157,812,813,1151
Gaidhane, A.M: 868,869,867,866
Gaihre, S: 868,866,865
Gaipov, A: 865
Gakhar, R: 1688
Gakhar, S: 777,98
Gakidou, E: 865,866
Galali, Y: 868,869,867,866,865
Galehdar, N: 869,865
Galles, N.C: 866
Gallus, S: 867,866,865
Gambhir, P: 808
Gami, S.J: 284
Gan, Q: 869,865
Ganbat, M: 868,866
Ganda, V.D: 78
Gandhi, A.P: 868,869,867,866,865
Gandhi, I: 534
Gandhi, S: 103,894
Ganesan, B: 868,869,867,866,865
Ganesh, M: 28,85
Gangania, K: 347,1076
Gangwar, A: 1004,70
Gangwar, P: 183
Gangyan, M: 333
Ganie, M.A: 868
Ganiyani, M.A: 868,867,866
Garcia-Gordillo, M: 866
Garcia-Gordillo, M.A: 867
García, F: 80
Gardner, W.M: 868,869,866
Garg, A: 1907128759631460
Garg, B: 346
Garg, D: 533,1576,1000,348
Garg, G: 951
Garg, H: 2
Garg, J: 866,865

2024 Published Papers

Garg, M: 17,803,333,1563

Garg, N: 586,706,1142,1757,1758,355,1748,215,869,867,866,556,871,558,587,773,1176,1393,1635,1721,1722,1769

Garg, R: 134,762,395,653, 904,1124,1188,1273,1293,1652,380,672,944,1296

Garg, R.K: 459,981

Garg, S: 396,632,798,1238,575,875,1189,469,902,1145

Garg, T: 29,51,1262,1114,208

Garg, V: 795

Garima, Imtiyaz, K: 1639

Garima, Jaint, B: 592

Gathania, A.K: 873

Gau, S: 865

Gau, S-Y: 869

Gaur, K: 1343,1550

Gaur, R.Z: 716

Gaur, S: 1624

Gaur, S.K: 251,1562

Gaurav, K: 589,1632

Gautam, A.K: 274

Gautam, L: 461,979,1338

Gautam, M: 42

Gautam, N: 710

Gautam, P: 865

Gautam, R: 86,263,1246,942,1193,748,87,609,1137

Gautam, R.K: 869,867,866,865

Gautam, S: 1019,1276,1640,1766

Gautam, U: 976

Gautam, V: 744,621,636,743,106

Gawande, S: 1306

Gazzelloni, F: 867,865

Gbadamosi, S.O: 867,866

Gebi, T.G: 868,866

Gebre, T: 869

Gebregergis, M.W: 868,867,866,865

Gebrehiwot, M: 868,869,867,866,865

Gebremariam, T.B: 867,865

Gebremariam, T.B.B: 868,867

Gebremeskel, G.G: 869

Gebremeskel, T.G: 868,867,866

Gebreslassie, H.G: 869

Geda, Y.F: 867

Geetanjali: 622

2024 Published Papers

Geetanjali, Singh, R: 1580,322,1450
Gehlot, R: 158
Geiger, A: 1372
Gela, Y.Y: 868
Georgescu, S.R: 868,867,866
Gerema, U: 865,867
Geremew, H: 867
Gerogiannis, V.C: 379
Getacher, L: 869
Getachew, M.E: 865,867
Getachew, T: 865,866
Gething, P.W: 868,867,866,865
Getie, M: 868,866
Ghaderi Yazdi, B: 869
Ghadiri, K: 868,866
Ghadirian, F: 868,869
Ghaffarpasand, F: 869
Ghafourifard, M: 865
Ghahramani, S: 866,865
Ghailan, K.Y: 868,866,865
Ghajar, A: 868,865
Ghalibaf, A.M: 865,868
Ghalley, A: 1729
Ghanbari, R: 869
Ghanbarnia, M: 865
Ghasemi, M: 865,868,869,867
Ghasemi, M-R: 866
Ghasempour Dabaghi, G: 866
Ghasemzadeh, A: 865,868,867,866
Ghashghaee, A: 866
Ghassemi, F: 865,867,866
Ghazali, A.N: 128
Ghazi, M.R: 543,1476
Ghazy, R.M: 865,868,869,867,866
Ghimire, A: 866
Ghimire, S: 869,867,865
Ghoba, S: 866
Gholamalizadeh, M: 866
Gholami, A: 869
Gholamian, A: 867,866,865
Gholamrezanezhad, A: 865,868,869,867,866

2024 Published Papers

Gholizadeh, N: 866
Ghorbani Vajargah, P: 866
Ghorbani, M: 868,867,866
Ghosh, A: 314
Ghosh, R: 1225
Ghosh, S: 645,192,289,1243
Ghosh, T: 68,226,715,1319,1048
Ghoshal, A.G: 867,866
Ghotbi, E: 868,869
Ghozali, G: 865
Ghozy, S: 869,865
Ghuge, A.D: 867,865
Gialluisi, A: 869,865
Gibson, R.M: 868,865
Gil, A.U: 867,865
Gill, P.S: 869,866,865
Gill, S.S: 1269
Gill, T.K: 868,867,865,866
Gillmann, C: 1628
Gillum, R.F: 866,865
Ginindza, T.G: 868,865,866
Giorgi, M: 867
Girdhar, A: 126,491,6
Girdhar, N: 660
Giri, A.K: 180,481,998,1448,175,1465,1589,488
Giri, B: 305,1259,1698,985
Giri, S: 1461,1654,1655
Giri, T: 1658
Girmay, A: 865,868,867,866
Glasbey, J.C: 868,867,866,865
Glasstetter, L.M: 869
Glauser, A.M: 1628
Gnedovskaya, E.V: 869,866,865
Gobolos, L: 866
Godinho, M.A: 868,866
Goel, A: 438,1530,447,486,933,1117,1191,492,867,866,865,1039,1703,695,706
Goel, D: 808,1095,1601,1677
Goel, H: 467
Goel, K: 115
Goel, M: 1302
Goel, N: 113,160,421,432,307,1229,1226,1442

2024 Published Papers

Goel, P: 929,1223,1214,1575
Goel, R: 1720
Goel, S: 1563,1294
Goel, T: 967
Goenka, P: 945
Goharinezhad, S: 868
Gola, K.K: 1173
Golabek, G: 1628
Golchin, A: 869,867,866
Goldust, M: 868,865,866
Gole, M: 681
Golechha, M: 868,869,867,866,865
Goleij, P: 868,869,867,866,865
Golestanfar, A: 865
Golinelli, D: 869,865
Gomes, N.G.M: 866
Gomes-Neto, M: 869
Gona, P.N: 868,866,865
Gopalani, S.V: 867,866
Gorini, G: 868,866
Gosavi, K: 645
Goswami, A: 311,472,1009
Goswami, P: 331
Goudarzi, H: 867,866,865
Goudarzian, A: 865
Goulart, AC: 868,869,867,866
Goulart, B.NG: 866
Goval, C: 365
Gowda, R: 1497
Gowda, R.S: 1496
Gowda, S.N: 1496
Gowhar, S: 1541
Goyal, A: 118,275,429,869,867,866,865,402
Goyal, D: 11
Goyal, G: 911
Goyal, K: 120
Goyal, M: 797
Goyal, P: 1204
Goyal, P.K: 296,1362,1708,1715,993,1423
Grada, A: 868,866
Graham, S.M: 867,866

2024 Published Papers

Gray, R.J: 869
Greenhalgh, S: 865
Grenfell, J.L: 1628
Grivna, M: 865,868,869,867,866
Grosso, G: 866
Grover, S: 545,1735
Guadie, H.A: 869
Guan, B: 869
Guan, S-Y: 868,867,866
Guarducci, G: 868,869,867,866,865
Gubari, M.I.M: 868,867,866,865
Gudeta, M.D: 865,868,867,866
Guha, A: 868,866,865
Guicciardi, S: 868,869,867,866,865
Guidi, G: 1628
Guilera, O: 1628
Guimaraes, R.A: 866
Guin, D: 591,1079
Guino-O, R.S: 1106
Gulam Mustafa, M: 1195,168
Gulati, G: 1712
Gulati, I: 654,1492
Gulati, S: 1154,868,867,866
Gulia, A: 1594
Gulia, S: 393,235
Gulisashvili, D: 868,867
Gunawardane, D.A: 868,869,867,866,865
Gunjan, D: 113,160,421,432
Gunturu, S: 866,865
Guo, C: 868,867,866,865
Guo, H: 869
Gupta, A: 218,243, 665,1083,1084,1151,1682,217,222,444,595,1082,1099,1356,1546,1735,506,1429,823,968,1056,1373,1431
Gupta, A.K: 295,1623,868,867,866,865,7,1521
Gupta, B: 868,869,867,866,865
Gupta, B.B: 16
Gupta, C: 1414
Gupta, D: 380,1691,758,653
Gupta, E: 1226
Gupta, G: 96,331
Gupta, H: 1267,1390
Gupta, I: 868

2024 Published Papers

Gupta, I.R: 865
Gupta, K: 174,561,853,811,1459
Gupta, L: 294,239,275,404
Gupta, M: 291,1226,310,868,867,866,958,1190
Gupta, M.K: 867,866
Gupta, M.M: 1544
Gupta, N: 265
Gupta, N.K: 1374,643
Gupta, O.K: 958
Gupta, P: 52,486,889,1710,1175,724,770,1089
Gupta, R: 214,281,459,981,1379,1033,1163,183,811,940,1261,868,869,866,865,219,267,955,1379,270,1563
Gupta, R.D: 866
Gupta, R.K: 55,66,416,555,1274,1166,1187,359,1167,1186,324,465,1340,5,710
Gupta, R.S: 1183,1516,447,933,1117
Gupta, S: 39,104,488,1183,1442,1516,265,545,764,1140,1747,1357,1685,419,1735,869,867,866,865,502,1047,1242
Gupta, S.KI: 630,915,1641,1644,1645
Gupta, T: 5,795,1309,1479,698,1548,1429
Gupta, V: 907,906,1093,865,1140,823
Gupta, V.B: 868,869,867,866
Gupta, V.K: 1294,866,867,868, 869,860
Gurmessa, L: 866
Gusain, C: 1237,1244
Gutierrez, R.A: 866868869865
Gyawali, U: 962
Gómez, J.A.M: 865
Göbölös, L: 868,865,867
Güdekli, E: 1219
Haakenstad, A: 867
Habibzadeh, F: 868,869,867,866,865
Habibzadeh, P: 868,866,865
Hachesu, P.R: 868
Hachinski, V: 869,865
Haddadi, M: 865
Haddadi, R: 868,869,866,865
Hadei, M: 869,866
Hadi, N.R: 868,869,867,866
Haep, N: 868,869,867,866,865
Hafezi-Nejad, N: 868,866
Hafiz, A: 868
Hagelberg, J: 1628
Hagins, H: 869,868

2024 Published Papers

Haile, D: 866
Haile, T.G: 869
Hailu, A: 866
Haj-Mirzaian, A: 869,866
Hajibeygi, R: 867
Halboub, E.S: 868,866,865
Halder, P: 742
Halim, S.A: 865
Halimi, A: 868
Hall, B.J: 869,866,865
Haller, S: 868,867,866,865
Halwani, R: 865,868,869,867,866
Hamad, H.A: 865
Hamadeh, R.R: 867,866,865
Hamdy, N.M: 867
Hameed, S: 869,867,866
Hamidi, S: 867,866,865
Hamiduzzaman, M: 869,865
Hamilton, E.B: 868,866
Hammoud, A: 869,865
Hamoda, M.M: 1118
Han, C: 866
Han, H: 869
Han, L: 784
Han, Q: 867,866
Handa, P: 113,160,421,432,1226,307,1229,1442
Handal, A.J: 867
Hanif, A: 866
Hanifi, N: 865,869,866
Hankey, G.J: 868,869,867,865,866
Hanna, F: 866
Hannan, M: 865
Hannan, M.A: 868,869,866
Hansen, J : 1628
Hanson, S.W: 868
Hao, J: 869
Haokip, L: 1588
Haqq-Misra, J: 1628
Haque, M: 865
Haque, M.M: 1440
Haque, M.N: 868,867,866

2024 Published Papers

Haque, R: 235
Hara, N: 1628
Haranath: 391
Haranath, D: 1232,392
Harapan, H: 868,869,866,865
Hareru, H.E: 869
Hargono, A: 869,866
Harikesh, Chauhan, S.S: 1736
Haritash, A.K: 11,804,1329,108,112,382,862,1159,655,1434,719,1591,1331
Hariz, A: 519
Harlianto, N.I: 869
Haro, J.M: 868,869,867,866,865
Hartman, N.N: 869
Hartvigsen, J: 868
Harursampath, D: 637
Hasaballah, A.I: 868,869,867,866,865
Hasan, A.B: 858
Hasan, B: 716
Hasan, F: 633,869,865
Hasan, I: 868,867,866,865
Hasan, M: 865
Hasan, M.J: 867
Hasan, M.T: 866
Hasan, S.A: 865
Hasani, H: 869,867,866,865
Hasanian, M: 868,869,866,865
Hasanpour-Dehkordi, A: 865
Hashemi, M.B: 865,868,867
Hashi, A: 866
Hasija, Y: 173,1662,345,418,424,755,986,1035,1359,768,835,926,476,1149
Hasnain, M.S: 868,867,866
Hassan, A: 868,869,867,865
Hassan, A.M: 865
Hassan, I: 867,866
Hassan, M.D.I: 235
Hassan, S: 869
Hassanian-Moghaddam, H: 865
Hassanipour, S: 869,867,866,865
Hassankhani, H: 869,867,866
Hassen, M.B: 869
Haubold, J: 868,869,866,865

2024 Published Papers

Havmoeller, R.J: 868,866,865
Hay, S.I: 865,868,869,867,866
Hayat, K: 868,869
Hayatunisha, Kumar, N: 244
Hazra, A: 839
Hbid, Y: 865
He, J: 866
He, S: 925
Hebert, J.J: 868,867,866,865
Hediyal, T.A: 1382
Hegazi, O.E: 868,865,867,866
Hegazy, M.I: 869
Heidari, G: 868,869,866,865
Heidari, M: 869,867,866,865
Heidari-Foroozan, M: 865,866
Heidari-Soureshjani, R: 865,869
Helfer, B: 868,867,866,865
Helled, R: 1628
Hembram, T.K: 989
Hemmati, M: 868,867
Hemsley, B: 1372
Hendrie, D: 868,866
Henson, C.A: 868
Herbst, K: 1628
Heris, R.M: 865
Hernitschek, N: 1628
Herrera-Serna, B.Y: 867,866
Herteliu, C: 867,865,866
Hesami, H: 865,869,866
Hessami, K: 867
Hettiarachchi, D: 865
Heyi, D.Z: 865
Hezam, K: 868,869,867,866,865
Hill, C.L: 866
Himanshu, Yadav, G: 951
Hinkley, S: 1628
Hiraike, Y: 868,869,867,866,865
Hoan, N.Q: 868,867
Hoang, A.T: 86,451,1646
Hoffman, H.J: 869,865
Holker, R: 1054

2024 Published Papers

Holla, R: 868,869,867,865,866
Homsî, A.A: 865
Hon, J: 868
Hong, H: 1582,1193
Hooda, Y: 296
Hopf, K.P: 869
Horita, N: 869,867,866,865
Hosain, M: 43547865
Hossain, M.B: 869
Hossain, M.B.H: 867
Hossain, M.M: 868,869,867,866
Hossain, S: 865,869,866
Hossaini, M.A: 1545
Hosseini, M: 865
Hosseini, M-S: 866
Hosseinzadeh Adli, A.H: 866
Hosseinzadeh, H: 868,869,867,866,865
Hosseinzadeh, M: 868,869,867,866,865
Hostiuc, M: 868,867,865,866
Hostiuc, S: 868,869,867,865,866
Hsairi, M: 867,866,865
Hsieh, V: 865
Hsieh, Vc-R: 867
Hsu, J.M: 868
Hsu, R.L: 866
Hu, C: 869,867,866,865
Huang, J: 868,869,867,866,865
Huber, P.A: 1628
Huda, M: 865
Huda, M.M: 867
Huda, M.N: 869
Hudda, D: 1127,1389,44
Hugo, F.N: 868,865
Hultstrom, M: 866
Hultström, M: 865
Humayun, A: 867,866
Hundie, T.G: 866
Husain, A: 1392,1673,1250
Husain, S: 1388
Hushmandi, K: 868
Hussain, I: 618

2024 Published Papers

Hussain, J: 868,869,867,866,865
Hussain, M: 1541,120
Hussain, S: 865
Hussein, N.R: 868,869,867,866,865
Hussien, F.M: 866
Huy, L.D: 865
Huynh, C.K: 868
Huynh, H: 865
Huynh, H-H: 868,869,867,866
Hwang, B: 865
Hwang, B-F: 868,869,867,866
Hürriyetoğlu, A: 776,1543
Iannucci, V.C: 868
Ibarcena, N: 1372
Ibitoye, S.E: 865,869,867,866
Ibrahim Khaled, N: 1763
Ibrahim, K.S: 866
Idowu, O.O: 865
Iftikhar, P.M: 867,866
Ihler, A.L: 868
Ijo, D: 865,866
Ikiroma, A.I: 868,866
Ikuta, K.S: 865,868,866
Ikwegbue, P.C: 866
Ilaghi, M: 865,869
Ilesanmi, O.S: 865,868,869,867,866
Ilic, I.M: 868,869,867,866,865
Ilic, M.D: 868,869,867,866,865
Imam, M.T: 235,868,866
Imasu, R: 1523
Immurana, M: 865,868,869,867,866
Inamdar, S: 866
Inbaraj, L.R: 867,865
Indriasih, E: 866
Indu, S: 204,608,1477,1754,113,160,421,432,1005,148,1040,1252,1378,354
Iqbal, A: 867
Iqbal, F: 168
Iqbal, M: 283,318,1727
Iqhrammullah, M: 866
Iradukunda, A: 866,865
Iravanpour, F: 869,865

2024 Published Papers

Iregbu, K.C: 866,865
Ireland, M: 1628
Irham, L.M: 868
Isha, Aneesha, Mehata, M.S: 1600
Ishika, Bharadvaja, N: 1560
Ishrat, Z: 848
Islam, M: 865
Islam, M.D.R: 867
Islam, M.R: 868,866,865
Islam, S: 865
Islam, S.M.S: 868,869,866
Islami, F: 868,866,865
Ismail, F: 868,869,866
Ismail, N: 865
Ismail, N.E: 868,867,866
Iso, H: 869,867,866
Isola, G: 865,868,869,867,866
Ito, T: 1628
Itoh, S: 1628
Ivan M, D: 839
Ivanovski, S: 1628
Iwagami, M: 868,869,867,866,865
Iwu, C.C.D: 868,869,866,865
Iwu-Jaja, C.J: 865
Iyamu, I.O: 866
Iyer, M: 868,869,867,866,865
Jaafari, J: 868,867,866,865
Jaan, A: 869
Jacob, L: 869,867,866,865
Jacobsen, K.D: 868,866,865
Jadaun, S.S: 622
Jadidi-Niaragh, F: 865,868,869,867,866
Jadon, R.P.S: 582,290,243
Jafar, M.R: 181
Jafari, M: 869
Jafarinia, M: 868,869,865,866
Jafarzadeh, A: 869,866
Jafri, F.A: 1397,776,1543
Jaggi, K: 868,867,866,865
Jahankhani, K: 865,868,869,867,866
Jahanmehr, N: 865,868,869,867,866

2024 Published Papers

Jahrami, H: 868,869,867,866,865
Jain, A: 70,827,1750,1056,346,16,868,867,865,1148,231,387,583,1050,32
Jain, A.K: 16
Jain, D: 918,551,903,832,663
Jain, D.K: 1432,1125
Jain, G: 193,954,988,1270,1412,1468
Jain, J: 742
Jain, K: 1390,853
Jain, L: 947
Jain, M: 231,346,387,583,1050,461,1427,32,207,84,123,434,687,979,1192,1338,1416
Jain, N: 129,246,906,1329,889,1725,1132,868,867,866,865,1491
Jain, N.K: 1242,212,234
Jain, P: 1510,883,82,509,594,1256,1716,580,601,895,845
Jain, P.K: 348
Jain, R: 776,379,1543,288
Jain, R.K: 1681
Jain, S: 97,152,553,859,1144,1261,1492,1689,346,619,810,1105,222,776,1169,56,153,380
Jain, S.K: 1024,1108,566
Jain, T: 1053
Jain, U: 887,1711
Jain, V: 469,902,1145
Jaint, B: 536,1420,216,1184,1536
Jairoun, A.A: 868,867,866,865
Jaiswal, A: 868,869,866
Jaiswal, D: 640
Jaiswal, G: 1264,1747
Jaiswal, K.K: 1467
Jakovljevic, M: 868,869,867,865
Jalan, S: 1538
Jallow, E: 233
Jaluthria, K: 1487
James, A.T: 922,726,797
Jamil, M: 489
Jamir, I: 467
Jamora, R.D.G: 869
Jamshed, A: 496,4,995,1475
Jamshidi, E: 865,867,866
Jana, S: 869
Jani, C.T: 865
Janko, M.M: 866,865
Janson, M: 1628

2024 Published Papers

Jaouane, M: 819
Jarlais, D.C.D: 865
Jas Pacif, S.K: 1349
Jasrotia, R: 446,729
Jatau, A: 865
Jatau, A.I: 868,866
Jatin, Aryan, K: 863
Javadi, N: 869
Javadov, S: 868,867,866
Javaheri, T: 868,867,866
Javed, F: 938,144
Javed, S: 869
Javeed, S: 869
Jayant, H.K: 1213
Jayanthi, N: 1048,309,1278,1300,226,204,1385,1695
Jayapal, S: 865
Jayapal, S.K: 868,869,867,866
Jayaraj, R: 732
Jayaram, S: 868,869,867,866,865
Jayasimhadri, D: 391
Jayasimhadri, M: 392,422,1556,1739,1555
Jaychandran, N: 910
Jebai, R: 866
Jee, S.H: 868,867,866
Jeganathan, J: 868,867,866,865
Jema, A: 865
Jemere, D: 865
Jeong, W: 865
Jeyakumar, A: 868
Jeyaprakash, N: 974
Jeyaraj, A: 270
Jha, A: 1548
Jha, A.K: 1391,868,867,866,865
Jha, B: 1491
Jha, C.S: 31
Jha, K: 928
Jha, N: 1056
Jha, P: 301
Jha, R.K: 699
Jha, R.P: 867,866,865
Jha, S: 243

2024 Published Papers

Jhamnani, B: 428,563,1213
Ji, J.S: 865
Jiang, H: 865,868,869,867,866
Jiang, X: 925
Jin, Y: 865868866
Jindal, E: 1059,1310
Jindal, M.K: 1386
Jindal, R: 141,231,338,387,583,1050,1279,1297,1759,682,697,1030,1479,47,1487
Jindal, S: 1229
Jiya: 378
Jobe, A.S: 233
Jogia, A: 1161
Johansen, A: 1628
Johnson, C.O: 869
Johnson, O: 866,865
Johnson, W.D: 869
Jokar, M: 869,867,866
Jolly, A: 757
Jomehzadeh, N: 865
Jonas, J.B: 868,869,867,866
Jones, D.P: 865
Jones, H: 1628
Joo, J.B: 1676,363
Joo, T: 868,867,866,865
Jose, J: 1021
Joseph, A: 868,869,866,865
Joseph, N: 868,869,867,866,865
Joshi, A: 620,1518
Joshi, D: 1303,506,1302,1083,1084
Joshi, I: 1702
Joshi, K: 1718
Joshi, L: 310
Joshi, M: 41,1442,1037
Joshi, S.K: 419
Joshua, C.E: 868,869,867,866,865
Joshy, G: 866
Joukar, F: 867
Jozwiak, J.J: 868,867,866,865
Juikar, S.K: 785
Juneja, P: 1652
Jung, K-H: 896

2024 Published Papers

Jurisson, M: 866
Jyoti, An, J: 386
Jyoti, Dahiya, S: 739
Jyoti, Kubba, R: 916
Jyoti, Sharma, S.C: 388,1058,1185
Jyoti, Yadav, O: 1330
Jyotirmay, S: 1711
Jürisson, M: 868,869,867,865
K: 1020
K, M: 195
Kaambwa, B: 868,867,866,865
Kabir, A: 868869865866867
Kabir, H: 865,867
Kabir, Z: 868,869,867,866,865
Kabito, G.G: 869
Kadashetti, V: 868,869,866,865
Kadir, D.H: 866
Kadiyan, S: 1448,180
Kadyan, S: 260
Kafi, F: 869
Kafil, H.S: 865
Kag, S: 171,327,1352,1422
Kaharwar, K: 820
Kahe, F: 865
Kait, R: 45
Kakaralapudi, S: 910
Kakodkar, P.V: 865
Kalani, R: 865,868,869,867,866
Kalankesh, L.R: 865866868867
Kalantar, F: 869
Kale, S: 208,1486,9,29,51,252,596,1179,1262,1413,1501,1526,255,1203,1414
Kaler, R.S: 1258
Kaliyadan, F: 868,869,867,866,865
Kalra, P.K: 1702
Kalra, S: 868,867,865,866
Kalra, Y: 1235,368,1119,539
Kalsi, A: 80
Kamal, V.K: 866
Kamarajah, S.K: 866
Kamath, A: 869,865
Kamath, R: 867,866

2024 Published Papers

Kamath, S: 869,867
Kamenov, K: 868
Kamiab, Z: 866
Kamireddy, A: 865
Kammerer, J: 1628
Kamra, L: 1592
Kamyab, H: 168
Kamyari, N: 868,866
Kanagasabai, T: 868,866,865
Kanavos, A: 379
Kanchan, T: 869,867,866
Kandel, A: 869
Kandel, H: 868,869,865,866
Kane, S: 1628
Kanita, Deo, N: 1288
Kanjolia, A: 885,71
Kanmanthareddy, A.R: 868,866
Kanmiki, E: 865
Kanmiki, E.W: 867,866
Kanmodi, K.K: 868,869,867,866,865
Kansal, P: 100,1018,1674
Kansal, S: 595
Kansal, S.K: 867,866
Kansal, V: 72,415
Kant, K: 1563,1632,1705
Kant, N: 1529
Kant, R: 674,912
Kant, S: 713,1067
Kant, U: 1133
Kantar, R: 865
Kantar, R.S: 868,867,866,865
Kapoor, A: 31,1409
Kapoor, N: 867,865,866
Kapoor, R: 1409,450,1435,43,547,206,484
Kapoor, S: 823,1154
Kapuganti, D.K: 1743,302
Kar, M: 1573
Kar, S: 1566
Karaca, O: 655
Karajizadeh, M: 869,867,865,866
Karami, J: 869

2024 Published Papers

Karami, M: 867
Karan, A: 732
Karan, R: 248
Karanth, S.D: 869,865,866
Karasneh, R.A: 866
Karaye, I.M: 868,869,867,866,865
Karch, A: 869,866
Kardam, S: 1280,1422
Kargwal, R: 1452
Karim, A: 865,868,866
Karimi Behnagh, A: 869,866
Karimi, A: 869
Karimi, H: 865,869
Karimi, S: 865
Karimi, S.E: 868,866
Karimi, Y: 868
Karkhah, S: 865
Karkra, A: 921
Karmakar, S: 1053
Karna, A.K: 865
Karotia, A: 323
Karthik, V.S: 1527
Kashani, H.K: 865
Kashani, H.R.K: 868,867,866
Kashif, M: 380
Kashoo, F.Z: 867,866,865
Kashyap, B.K: 467
Kashyap, H.A.P: 1065
Kashyap, M.K: 1272
Kasnazani, Q.H.A: 866
Kasraei, H: 868,869,867,865,866
Kassarwani, N: 405
Kassaw, N.A: 865
Kassebaum, N.J: 865,869,867,866
Kassel, M.B: 865,868,867,866
Katamreddy, A: 865
Kataria, C: 223
Kataria, R: 1356,147,171,443,689,1103,1253,1352,1584,327,1099
Katarya, R: 666,1065,96,156,494,765,1466,1478,1542,1608,444,1713
Kathpalia, A: 1525
Kathuria, K: 733

2024 Published Papers

Katikireddi, S.V: 865
Katoto, P.D: 865
Katyan, D: 1712
Kaul, A: 430,590,892
Kaul-Ghanekar, R: 1382
Kauppila, J.H: 865,868,869,867,866
Kaur, A: 1149
Kaur, G: 720,262,523,531,1316
Kaur, H: 343,136,1683,869
Kaur, J: 1588,1161
Kaur, M: 967,1224
Kaur, N: 869,866,865
Kaur, R: 687,786,1192,787,838,1561,1371,138,832
Kaur, S: 136,410,1683,1632,1732,1334,1460
Kaushal, A: 135,366
Kaushal, D: 601,580
Kaushal, S: 795
Kaushal, V: 761
Kaushik, A: 56,153,222,242,1684,154,1422,1201,1692
Kaushik, G: 412
Kaushik, P: 185
Kaushik, S: 1210
Kaushik, V: 61,1209,1365,1366,132
Kavita, Rohilla, R: 1660
Kavra, R: 595
Kawakami, N: 868,866
Kayat, T: 695
Kaydi, N: 865
Kayibanda, J: 865
Kayode, G.A: 868,869,866,865
Kazemi, F: 865,868,869,867,866
Kazemian, S: 865,868,866
Kazeminia, S: 867
Kazmi, T.H: 866
Kebebew, G.M: 866
Kebede, A.D: 866
Kebede, F: 866
Keflie, T.S: 866
Keikavoosi-Arani, L: 868,869,865
Keiyoro, P.N: 866
Keller, C: 865,868,869,866

2024 Published Papers

Kelly, J.T: 866
Kempen, J.H: 865,868,867,866
Kendal, E.S: 867
Kerr, J.A: 868,865,866
Kesari, J.P: 433,1353
Kesari, K.K: 467
Kesarwani, S: 351,939,1249,1590
Keshtkar, K: 868,867
Kesse-Guyot, E: 868,866,865
Kessentini, M: 74,505
Keykhaei, M: 865,868,869,867
Khadembashiri, M: 865
Khadembashiri, M.A: 869
Khadembashiri, M.M: 865
Khader, Y.S: 869
Khafaie, M.A: 869,865
Khajuria, H: 868,869,867,866,865
Khalafi, M: 865
Khalaji, A: 865,868,869,867,866
Khaled, N.I: 1152
Khalid, A: 275,868
Khalid, N: 868,867,866,865
Khalid, Z: 1387
Khalil, A.A: 867,866
Khalil, I.A: 865
Khalilian, A: 868,867,866
Khamaru, A: 287,852,900,130,522,1537,1576
Khamesipour, F: 865,868,869,867,866
Khammarnia, M: 869
Khan Suheb, M.Z: 866
Khan, A: 984868865866867
Khan, A.A: 716
Khan, A.Q: 922
Khan, D: 1198
Khan, G: 865,866
Khan, I: 865,868,867,866
Khan, I.A: 120,866,865
Khan, K: 156,666,125
Khan, M: 605,868,869,867,865,866
Khan, M.A: 865,866
Khan, M.A.B: 868,869,867

2024 Published Papers

Khan, M.D.N: 1647
Khan, M.G: 81
Khan, M.J: 867,866
Khan, M.M: 1178
Khan, M.N: 867,866,618
Khan, N: 711
Khan, S.A: 1298
Khan, S.N: 1738
Khan, S.Y: 1386
Khan, T: 865
Khan, Y: 419,451,753,963,1306,1320,1325,1582,1646
Khan, Y.H: 869
Khan, Z.A: 563,711,866
Khandelwal, D: 21
Khandelwal, N: 21,86
Khandelwal, S.K: 402
Khandelwal, V: 515
Khaneghah, A.M: 867,865
Khang, Y-H: 867
Khanmohammadi, S: 865,868,869,867,866
Khanna, M: 1701
Khanna, T: 869
Khanna, V: 137,446,729
Khanuja, M: 1438
Khare, M: 197,198
Khare, S: 1480
Kharola, A: 172,843,1283
Khatab, K: 868,869,867,866,865
Khatami, F: 865,868,866
Khatatbeh, H: 869,866
Khatatbeh, M.M: 868,869,866
Khater, A.M: 868
Khateri, S: 869
Khatib, M.N: 869
Khatoon, S: 1073
Khatreja, K: 1337
Khatri, I: 207,259,925
Khatri, K: 791
Khatri, S: 888
Khatri, V: 1731
Khattar, D: 409

2024 Published Papers

Khatun, M: 839
Khavandegar, A: 865,867,866
Khayat Kashani, H.R: 869
Kheirallah, K.A: 865
Khera, R: 677,679
Khera, S.N: 1122,250,525,1769
Kheterpal, M: 1753
Khidri, F: 865
Khidri, F.F: 868,867,866
Khilwani, N: 834
Khodadoust, E: 868,865,866
Khonji, M.S: 869
Khorashadizadeh, F: 869
Khorgamphar, M: 866
Khormali, M: 865,868,869,867,866
Khorrami, Z: 868,866
Khosla, S: 1498
Khosla, T: 1245
Khosravi, A: 866
Khosravi, M.A: 867,866
Khosrowjerdi, M: 867,865
Khubchandani, J: 869,865
Khurana, A: 1241
Khurana, I: 211
Khurana, M: 454,759,455,221
Khushbu, Rani, I: 1597
Khusun, H: 865
Kian, S: 869
Kidane, W.T: 867
Kifle, Z.D: 865,868,867,866
Kim, D: 386
Kim, G: 869,866,865
Kim, H: 1687
Kim, J: 865,869,866
Kim, J.S: 867
Kim, K: 866
Kim, M.S: 868,869,867,866
Kim, Y.J: 869,866
Kimokoti, R.W: 868,869,867,866,865
Kinzel, K.E: 865,867,866
Kiross, G.T: 865,867

2024 Published Papers

Kisa, A: 868,869,867,866,865
Kisa, S: 868,869,867,866,865
Kishor, K: 200,1335,1336,1384
Kiss, J: 865
Kitzmann, D: 1628
Kivimäki, M: 865,869
Klu, D: 865,866
Knudsen, A.K.S: 868,866
Knudsen, A.K.S: 865
Kocaballi, A.B: 1372
Kocarnik, J.M: 868,866
Kochhar, S: 868,869,866
Kocsis, T: 866
Koh, D.S.Q: 866
Koh, H.Y: 868
Kohar, S: 1028
Kohli, G.S: 1543
Kolahi, A: 865
Kolahi, A-A: 868,869,867,866
Koli, Y: 1107
Kolves, K: 866
Koly, K.N: 869
Komal, K: 101,639,822
Komanapalli, G: 52,1175
Komaragiri, R: 612
Kompani, F: 865,868,869,867,866
Koren, G: 868,867,866,865
Koroshetz, W.J: 869
Korzh, O: 868,867
Kosen, S: 868,869,867,866,865
Koshal, Rana, N: 187
Kostev, K: 866,865
Kota, S.H: 197
Kotamraju, S.K: 1020
Kothari, D.P: 106
Kotnis, A.L: 865
Kouhanjani, M.F: 865
Koul, J: 374
Koul, P.A: 866,865
Koul, S.K: 1736
Koulmane Laxminarayana, S.L.K: 866

2024 Published Papers

Kourosh Arami, M: 869
Kovacevic, A.B: 1628
Kowalski, J: 542
Kowatsch, T: 1372
Koyanagi, A: 869,865
Kraus, S: 1628
Krause, O: 1628
Kravchenko, M.A: 869,865
Krishan, K: 868,869,867,866,865
Krishna, H: 865,866
Krishna, V: 868,867,866
Krishnamoorthy, V: 865,868,869,867,866
Krishnamoorthy, Y: 866,865
Krohn, K.J: 865,866
Kruijssen, J.M.D: 1628
Kuanr, B.K: 1411
Kuate Defo, B.K: 866
Kubba, R: 1330,1351
Kubeisy, C.M: 865,867
Kucuk Bicer, B.K: 866
Kuddus, A: 865
Kuddus, M: 868867866865
Kuddus, M.A: 868,869,867,866
Kuiper, R: 1628
Kuitunen, I: 868,867,866,865
Kujan, O: 865
Kujur, V.S: 573
Kukreja, S: 996,1061
Kukreti, N: 147,443,1584,327,1594
Kukreti, R: 591,1079,860
Kulimbet, M: 867,866,865
Kulkarni, A: 1265,1286
Kulkarni, A.R: 3
Kulkarni, V: 868,866,865
Kulshrestha, N: 1528
Kumar Dwivedi, A: 176
Kumar Jha, S: 1411,731
Kumar Mahapatro, A: 1601
Kumar Mishra, R: 240
Kumar Pal, Y: 731
Kumar Roy, P: 772

2024 Published Papers

Kumar Singh, K: 987

Kumar Singh, M: 1438

Kumar Sinha, R: 821

Kumar Soni, V: 240

Kumar Srivastava, D: 1177

Kumar Vishwakarma, D: 485

Kumar Yadav, V: 1415

Kumar, A: 9,131,252,269,354,417,507,571, 596,600,663,704,735,747,784,832,866,903,908,1012,1032,1125,1179,1342,1429,1

Kumar, A.G: 721

Kumar, A.N: 650,781

Kumar, B: 1573,928,960,71,885,1439,1701

Kumar, C: 498,990,1473,1059,1310,1301

Kumar, C.I: 538,31,58,899

Kumar, D: 1034,1449,1640,1709,1745,46,92,324,489,651,956,1429,642,1389,1624,1705,1706,637,1642,131,627,48,464,1127,

Kumar, G: 257,726, 1212,1038,1424,398,797,117,620,922,1271,1622,665,1096,1548,1480

Kumar, G.A: 869

Kumar, H: 947,867,866,865,953

Kumar, I: 873,1239

Kumar, J: 62,127,325,931,980,1482,237,289,694,211,582

Kumar, K: 582,658,811,1453,1073,870,16,1102

Kumar, L: 333,369,708,870,329

Kumar, M: 2,271,326,609,722,1111,1246,1577,1732,612,842,878,915,941,1209,1444,1472,1693,1719,1761,643,1137,1366,68

Kumar, N: 38,878,948,1116,1472,3,54,178,286,304,385,423,510,512,524,585,952,1030,1284,1403,1418,1447,1545,1651,1680

Kumar, P: 500,790,972,1046,1307,1550,58,102,147,171,236,443,833,899,1352,1508,1515,1584,327,820,1301,1400,1445,1382

Kumar, P : 10699

Kumar, P.P: 1013

Kumar, R: 102,146,249,330,742,895,896,1011,1143,1265,1410,1506,1656,1699,6,41,216,723,738,745,762,1158,1184,1227,13

Kumar, S: 8,215,227,394,516,610,901,1047,1137,1231,1351,1430,1753,15,24,87,135,191,241,285,916,1066,1123,1666,179,71

Kumar, S.A: 132

Kumar, S.S: 81,898,1214,1220,1221,1575,347,576,1223,1292,1461,1654,1655

Kumar, T.V: 90,298

Kumar, V: 121,228,445,585,696,1247,1294,1327,1751,331,469,902,1098,482,1217,1145,75,1216,1564,92,956,1139,1661,37,1

Kumar, Y: 223,483,499,1006,1517,972,1032,1202

Kumar, Y.R: 742

Kumari, A: 22,191,1123,1032,1544

Kumari, C: 70

Kumari, M: 173,201,866,865,1404

Kumari, N: 345,835

Kumari, R: 217,1546

Kumari, S: 874,1027,1067,1406,1502,1558,1604,1707,158,390,597,1334,1722,1569,686

Kumari, T: 557

2024 Published Papers

Kumarswamy, M: 1211
Kumie, F.T: 866
Kumsa, N.B: 869
Kundara, R: 1313,1367,1210
Kundu, B: 989
Kundu, R: 872
Kundu, S: 175,180,1448,1465,1589,481,998,869,867,866
Kunle, K.R: 867
Kunndra, C: 1161
Kurchaniya, D: 470
Kuriachen, B: 642,627,637
Kuriakose, A: 1628
Kurmanova, A: 865
Kurmi, O.P: 868,867,865,866
Kurniasari, M.D: 869
Kushwah, A: 1368
Kushwaha, A: 966
Kushwaha, R: 1719,1761
Kushwaha, S: 1086,1415
Kusnali, A: 867,866,865
Kusuma, D: 868,869,867,866,865
Kutluk, T: 865
Kuttikkattu, A: 869,865
Kutum, R: 860
Kwarteng, A: 866
Kyei, E.F: 867,865
Kyriopoulos, I: 867,866,865
Kyu, H.H: 865,868,869,866
La Vecchia, C: 869,866
Labadie, L: 1628
Lacey, B: 868,867,866
Lacour, S: 1628
Ladan, M: 865
Ladan, M.A: 868,869,867,866
Laflamme, L: 865,868,867,866
Lafranconi, A: 868
Lagat, A.K: 866
Lager, A.C.J: 866
Laha, S.S: 1768
Lahariya, C: 868,869,867,865
Lahmar, A: 866,865

2024 Published Papers

Lahon, S: 1678
Lai, D.T: 865
Lai, D.T.C: 868,867,866,865
Lai, Y-T: 1389
Lakshmanan, M: 1695
Lakshya, Khan, M.I.H: 692
Laksono, T: 869,865
Lal, B: 566
Lal, D.K: 868,869,867,866,865
Lal, R: 790,1011
Laloo, R: 865,868,867,866
Lallukka, T: 868,869,866,865
Lam, H: 866
Lam, J: 866
Lamba, N: 370,806,1626
Lami, F.H: 869
Lamnisos, D: 867,865
Lan, Q: 868
Lan, T: 868,865
Landires, I: 868,869,867
Landrum, K.R: 866
Lanfranchi, F: 868,867,865,866
Lang, J.J: 866
Langguth, B: 868,869,867,866,865
Lansingh, V.C: 866,865
Lanza, A.F: 1628
Laouini, A: 519
Laplante-Levesque, A: 866
Laplante-Lévesque, A: 868,867,865
Larijani, B: 865,868,866
Larson, H.J: 867
Larsson, A.O: 868,867,866,865
Lasrado, S: 868,869,867,866,865
Lassi, Z.S: 866
Lata, K: 730
Latief, K: 869,867,866,865
Latif, M: 865
Latifinaibin, K: 869,865,867,866
Lau, Km-M: 869
Laugier, R: 1628
Laurens, M.B: 869

2024 Published Papers

Lauriola, P: 868,866,865
Lavania, D: 348
Lawal, B.K: 869
Laxminarayana, S.K: 865
Laxminarayana, S.L.K: 868,867
Le, A.T: 86
Le, H-H: 868
Le, L.K.D: 869,867,865
Le, N: 865
Le, N.H.H: 868,867,866
Le, T.D.T: 868,867,866,865
Le, T.T: 86,865
Le, T.T.T: 869,866
Leasher, J.L: 868
Ledda, C: 868,869,867,866
Ledesma, J.R: 866
Lee, M: 868,869,867,866,865
Lee, P.H: 868,867,866,865
Lee, R.K-W: 1114
Lee, S: 865
Lee, S-W: 868,869
Lee, S.W: 868,869,867,866,865
Lee, S.W.H: 866
Lee, W: 865
Lee, W-C: 868,869,866
Lee, Y: 865
Lee, Y.H: 868,869,867,866
Leedjärv, L: 1628
Leekha, M: 1738
Legesse, S.M: 865
Legrand, K.E: 868,866
Leigh, J: 865,866
Lema, G.K: 867
Lendl, M: 1628
Lenzi, J: 868,865
Leo, D.D: 865
Leonardi, M: 869
Leong, E: 868,867,866,865
Lepse, P.V: 169
Lerango, T.L: 865,869,867,866
Leung, J: 868

2024 Published Papers

Leung, M: 1628
Li, A: 867
Li, J: 817
Li, M: 865
Li, M-C: 868,869,867,866
Li, P: 1372
Li, S: 867
Li, W: 865,868,869,867,866
Li, X: 1053,868,867,866,865
Li, Y: 866865868
Li, Z: 865,866
Libra, M: 865
Lichtenberg, T: 1628
Ligade, V.S: 869,867,865,866
Likaka, A.T.M: 866,865
Lillo-Box, J: 1628
Lim, L: 865
Lim, L-L: 868,866
Lim, S.S: 865,868,869,867,866
Lin, C-C: 366,660
Lin, R: 865
Lin, R-T: 867
Lin, S: 865
Linda Merin, J: 867,866
Lindstedt, P.A: 867
Lindstrom, M: 868,866
Linehan, C: 869,866
Linn, S: 868
Linz, H: 1628
Lioutas, V: 865
Lipi, K: 277
Lipi, Kumar, A: 1413
Listl, S: 867,865
Liu, C: 869,866
Liu, G: 868,867,866
Liu, J: 869,867,866,865
Liu, L.W.Y: 446,729
Liu, R: 868,866
Liu, S: 868,865,866
Liu, W: 868,869
Liu, X: 865

2024 Published Papers

Liu, X 866,: 866867868
Liu, Y: 867
Livingstone, K.M: 865
Llanaj, E: 868,867,866,865
Lo, C: 865
Lo, C-H: 868,869
Lo, W.D: 869
Lobo, S.W: 869
Loftus, M.J: 866
Logroscino, G: 869
Loicq, J: 1628
Lopes, G: 869
Lopez-Bueno, R: 866
Lopukhov, P.D: 869,867,866
Loreche, A : 865
Loreche, A.M: 868,866
Lorenzovici, L: 868,869,867,865
Lorkowski, S: 869,866
Lotfi, M: 865
Lotfizadeh, M: 865
Lotufo, P.A: 867,866
Loureiro, J.A: 869
Lozano, R: 865,868,866
Lubinda, J: 868,869,867,865,866
Lucchetti, G: 868,869,867,866,865
Lugo, A: 867,866,865
Lukenze Tamuzi, J.J.L: 869
Lunevicius, R: 868,867,865,866
Luque, R: 1628
Lusk, J.B: 868
Luthra, R: 968
Luthra, S: 888
Lv, H: 868,867
Lám, J: 868,869,867,865
López-Bueno, R: 868,867
Ma, J: 865
Ma, S: 865
Ma, Z: 865
Ma, Z.F: 868,869,867,866
Maass, K.L: 867,866
Mabrok, M: 869,865

2024 Published Papers

Mabuwa, S: 619
Machairas, N: 868,866,865
Machoy, M: 867,869,866,865
Madadizadeh, F: 869,866
Madan, A.K: 1727,283,318,1141
Madan, J: 774,994
Madan, P: 404
Madar, M.K: 37
Madhwesha Moudgalya, R: 779
Madsen, C: 866,865
Madureira-Carvalho, A.M: 866867868
Magaña Gómez, J.A: 868
Mageswari, M: 291
Maggi, J: 1039
Maghazachi, A.A: 865,868,869,867,866
Maghbouli, N: 869
Mago, P: 1105
Mahadevan, S: 1628
Mahajan, E: 705
Mahajan, G: 978,1535,1752
Mahajan, H: 705
Mahajan, P: 293,672,944,1296,395,904,1124,1188,1273,1293
Mahalakshmi, A.M: 1382
Mahamuda, S: 617,686,1029,1233,389,1535,1020,1733,978
Maharaj, S.B: 866,865
Maharjan, P: 865,868
Mahasha, P.W: 868
Mahato, B: 10,40
Maheri, M: 868
Mahesh Padukudru, P.A: 869,867,866,865
Mahesh, V: 637,627
Maheshwari, G.C: 631,996,1061,250,525
Maheshwari, K: 686,390
Maheshwari, M: 1065
Maheshwari, N: 462,463,644,657,1539,1631,854
Mahipalan, M: 587
Mahjoub, S: 868,869,867,866,865
Mahmoud, M.A: 868,867,866,865
Mahmoudi, A: 866
Mahmoudi, E: 865,868,866
Mahmoudi, M: 869,865

2024 Published Papers

Mahmoudi, R: 866
Mahmudul Hasan, S.M: 867
Mahto, K.K: 40
Mahto, R: 1361
Maity, M: 1653
Maity, S: 437
Majeed, A: 868,869,867,866
Majumdar, A: 486,1056,438,1530
Majumdar, A.S: 707
Majumdar, L: 1628
Majumdar, S: 148,274
Majumder, N: 289
Majumder, S: 1687
Makhdoom, I.F: 866
Makram, O.M: 865
Makris, K.C: 868
Mala, R: 265
Malagón-Rojas, J.N: 869,867,865
Malakan Rad, E: 869,866
Malazy, O.T: 865,868,867
Malbet, F: 1628
Maled, V: 866
Malekzadeh, R: 865,866
Malhotra, A: 1759
Malhotra, A.K: 865,866
Malhotra, B.D: 1607,887,1768,749
Malhotra, H: 731
Malhotra, K: 868,869,867,866,865
Malhotra, N: 215,308
Malhotra, P: 1633
Malhotra, R: 74,125,150,151,505,669,670,673,864,882,1519,1621,1711,1714,205,495,1520
Malhotra, T: 1431
Malik, A: 1269,544,896
Malik, A.A: 865,868,869,867,866
Malik, H: 1545
Malik, I: 600,868,869,867,866,865
Malik, K: 808
Malik, R: 791
Malik, S: 383,1285,1523,968
Malinga, L.A: 865
Malla, C: 619

2024 Published Papers

Mallhi, T.H: 869
Mallia, F: 1628
Malligawad, M: 457
Mallik, A: 1755,908,1609,1125,1231,1636
Malta, D.C: 865,868,869,867,866
Mamun, A.A: 867,866,865
Manav, Gautam, M: 909
Mandal, P: 58,899
Mandia, V: 1271
Mandpura, A: 545,1278
Mandpura, A.K: 100,1018,1507,1674,1300,1417,1420,1685,1735
Mandupura, A: 1385
Mangla, G: 854
Mangotra, I: 32
Manilal, A: 869
Manjeet, Anu, Deopa, N: 615
Manju, Bharadvaja, N: 767
Manjul, M: 1470
Manjula, M: 865
Manjula, S: 867
Manjunath, K: 782,300,1615
Manla, Y: 868,867,865
Mann, A: 1190
Mann, R: 474,475,934,1481
Mann, S: 689,1103,1253
Mannan, F: 865
Manocha, K: 923
Manoi, K: 375
Manral, A: 752
Mansoori, Y: 865,867
Mansour, A: 865,868,867
Mansouri, B: 867
Mansouri, P: 868,866
Mansouri, V: 865,869
Mansouri, Z: 867
Mansournia, M: 865
Mansournia, M.A: 868,869,867,866
Mantilla Herrera, A.M: 868
Mantovani, L.G: 868,865,866
Manu, E: 868
Manu, Kumar, D: 1167,1186

2024 Published Papers

Maqsood, S: 866
Marasini, B.P: 869,865,866
Marateb, H: 865
Marateb, H.R: 869,868,866
Maravilla, J.C: 865,867,866
Marconi, A.M: 866,865
Mardi, P: 868,866,865
Marino, M: 867,866,865
Marjani, A: 867,866,865
Marjit, S: 1053
Maroufi, S.F: 869
Maroufkhani, P: 1433
Martinez, G: 868,867,866
Martinez-Guerra, B.A: 866,865
Martinez-Piedra, R: 868,867,866,865
Martinez-Raga, J: 869
Martini, D: 868,866
Martini, S: 869,866
Martins, Ca: 865
Martins-Melo, F.R: 869,868,867,866,865
Martorell, M: 869,868,867,866,865
Marx, W: 868,866,865
Mary Anitha, T: 779
Maryam, S: 868,867,866,865
Marzo, R.R: 869,868,867,866,865
Masaka, A: 866
Mashwani, W.K: 81
Masood, A: 1169
Masoudi, A: 867
Masrie, A: 866
Massano, J: 869
Mate, K.K.V: 865
Matei, C.N: 865
Mathangasinghe, Y: 869,868
Mathew, J: 1628
Mathew, S.S: 1272
Mathews, E: 869
Mathieson, S: 868,866
Mathioudakis, A.G: 868,865,866
Mathur, A: 313,341
Mathur, M.R: 866

2024 Published Papers

Mathur, P: 1161
Mathur, R: 914
Matin, B.K: 865
Matsuo, T: 1628
Matthews, E: 1628
Mattumpuram, J: 868,867,866
Matzopoulos, R: 866
Maude, R.J: 865,869,867,866
Maugeri, A: 865,869,868,867,866
Maulik, P.K: 869,866
Maurya, A: 875
Maurya, I: 422,1556,1014
Maurya, N.K: 987
Maurya, R.K: 1251
Maurya, S: 1332
Maurya, S.K: 184,144,1552,1218
Mavi, A.K: 1624,1639
May, E.A: 865,867
Mayeli, M: 865,869,868,867,866
Mazaheri, M: 869,867,866,865
Mazhar, M.A: 1673
Mazidi, M: 868,865,866
Mazumder, KSK: 1446,581,917,1770
Mazzotti, A: 868,865
Mcalinden, C: 869,865
Mcgrath, J.J: 865,869,868,867,866
Mckee, M: 868,867,866,865
Mckowen, A.L.W: 868,867,866
Mckowen, A.W: 865
Mclaughlin, S.A: 865,867,866
Mcphail, M.A: 868,865
Mcphail, S.M: 867,866,865
Meadows, V: 1628
Mechili, E.A: 866,865
Medina, J.R.C: 866
Mediratta, R.P: 866,865
Meel, P: 1734
Meena, D: 1427,764,1234,756
Meena, D.C: 1402
Meena, J: 91,599,1345
Meena, J.K: 869,866,865

2024 Published Papers

Meena, M: 37
Meena, P: 501,682,683,788,1610,883,1595
Meena, P.K: 94,364,1019,1416,1642,1766
Meena, R: 756,656
Meena, R.K: 973,1559,1048
Meena, R.P: 139,1025,1260
Meena, S: 151,669,670,696,905,911
Meena, V.P: 1658
Meenu, Sharma, P: 1687
Mehari, M: 865
Mehata, M.S: 1004,1388
Mehdi Rashidi, M: 963
Mehdi, H: 449,619,625,1261
Mehlman, M.L: 869,865
Mehmood, A: 1141
Mehndiratta, M.M: 869
Mehra, P.S: 4,995,1172,1475,78,220,880,1052,1383,1395,69,70,71,885,496
Mehra, R: 867,866,865
Mehra, S: 99,568,964,1533
Mehraban, S: 1664
Mehrabani-Zeinabad, K: 868,865,867,866
Mehrabi Nasab, E: 866
Mehrotra, A: 849
Mehrotra, R: 1105,865
Meissner, D: 906
Mekene Meto, T: 866
Mekonnen, M.M: 865
Meles, G.G: 866
Mendez-Lopez, M.A.M: 869,867,866
Mendoza, W: 869,868,867,866,865
Mendoza-Cano, O: 869
Menezes, R.G: 865,869,868,867,866
Mengesha, E.W: 865
Mengist, B: 866
Mennesson, B: 1628
Mensah, G.A: 868,867,865
Mensah, L.G: 865
Mentis, A-F.A: 868,867
Mentis, A.A: 865
Mentis, A.F.A: 866
Meo, S.A: 865,868,867,866

2024 Published Papers

Merati, M: 869,867
Meresha, H.A: 868,866
Meretoja, A: 865,869,868,867,866
Meretoja, T.J: 868,867,866,865
Merin, L: 865
Merkin, A: 869
Mersha, A.M: 869,868,867,866,865
Mesfin, B.A: 866,865
Mestrovic, T: 865,869,868,867,866
Metanat, P: 867
Meto, T.M: 868,867
Mettananda, K.C.D: 868,867,866
Mettananda, S: 868,867,866
Meyer, M.R: 1628
Meylaks, P: 866
Mhaske, P: 645
Mhlanga, A: 867,866,865
Mhlanga, L: 867,866,865
Mi, T: 869,867,866,865
Miazgowski, T: 869,867,866
Micha, G: 867,866,865
Michalek, I: 865
Michalek, I.M: 869,868,867,866
Midda, M.O: 192
Miglani, J: 1065
Mihretie, E.T: 869
Miller, P.A: 868
Miller, T.R: 868,867,865,866
Mills, E.J: 868,866
Minaei, S: 1472
Mindlin, S.N: 865
Minelli, G: 865
Minh, L: 865
Minh, L.H.N: 869,868,867,866
Mini, G: 865
Mini, G.K: 866
Minja, N.W: 865
Minocha, V.K: 278,381,407,1101,1366
Mir Mohammad Sadeghi, P: 866
Mir, U.B: 185
Mirdamadi, N: 865

2024 Published Papers

Mirfakhraie, R: 869
Mirghafourvand, M: 865,867
Mirica, A: 865,869,866
Mirijello, A: 868,866
Mirinezhad, S: 865
Mirmosayyeb, O: 865
Mirrahimov, E.M: 869,868,867,866
Mirutse, M.K: 868,867,866,865
Mirza, M: 867
Mirza-Aghazadeh-Attari, M: 865,868
Mirzaei, M: 869,868,865,866
Mirzaei, R: 868,867
Misgana, T: 865
Misganaw, A: 869,868,866
Mishra, A: 495,736,737,468,867,866
Mishra, A.K: 842,1693,868
Mishra, D: 462,463,644,657,854,1539,1631
Mishra, G: 403
Mishra, K.K: 999
Mishra, K.R: 1499
Mishra, M: 944
Mishra, M.K: 884
Mishra, N.K: 270
Mishra, N.S: 164
Mishra, P: 749
Mishra, R: 1360
Mishra, R.K: 170,1102,290,582,243,1003,198,280,662,717,861,975,1471,1513
Mishra, R.N: 229,524
Mishra, R.S: 1215,1261,1320,1323,1570,1648,449,1144,251,607,688,959,1247,1287,1504,1562
Mishra, S: 177,202,1324,172,248,602,1325,753
Mishra, S.K: 1616,257
Mishra, T: 515
Mishra, V: 145,372,1003,1672,1222
Mishra, V.M: 1460
Mishra, V.R: 1714
Misra, S: 865,869,867,866
Mitchell, P.B: 865,868,867,866
Mithra, P: 869,865,866
Mittal, A: 242,539,1491
Mittal, C: 868,867,866,865
Mittal, M: 865

2024 Published Papers

Mittal, P: 279,460,626,684,897,937,1001,1157,1311,1350,1407,1439,1547,17,12,18,25,65,537,1312,401,36,124,183,1059,1310

Mittal, S: 527,528,1358,504,1301,10,40,1267,1307,513

Mittal, U: 212,234,1242

Mizana, B.A: 869

Moazen, B: 865,868,867

Mobayen, M: 866

Moberg, M.E: 869,868,866

Modi, A: 637,627

Mohamadkhani, A: 869,866

Mohamed, A.I: 865,867

Mohamed, A.Z: 867

Mohamed, J: 868,867,866,865

Mohamed, M.F.H: 868,865,867,866

Mohamed, N.S: 869,868,867,866,865

Mohammad Ayyoubzadeh, S: 869

Mohammad, A: 1613

Mohammad-Alizadeh-Charandabi, S: 865,867,866

Mohammad-Pour, S: 865

Mohammadi, E: 869,868

Mohammadi, H: 869

Mohammadi, S: 865868867866869

Mohammadian-Hafshejani, A: 867,866,865

Mohammadifard, N: 866

Mohammadshahi, M: 865,869

Mohammed Shariff, A.S: 1303

Mohammed, H : 866868

Mohammed, M: 865,869,867,866

Mohammed, S: 865866867868869

Mohammed, S.A: 1118

Mohammed, T.A.G: 614,1571,408,1010,1574,1495

Mohan, A: 1536

Mohan, L: 329,333,369

Mohan, S: 869

Mohan, V: 240,861,280,866

Mohan, Y: 1470

Mohanty, J: 266

Mohapatra, A.K: 362

Mohapatra, P: 1316

Moholkar, V.S: 658

Mohr, R.M: 868

Mojiri-Forushani, H: 869,866,865

2024 Published Papers

Moka, N: 869
Mokari, A: 866
Mokdad, A.H: 865,869,868,867,866
Mokhtarzadehazar, P: 867,865
Molaverdikhani, K: 1628
Molinaro, S: 869,868,867,866
Molla, N.U: 1551,1552,455,1218
Mollière, P: 1628
Molokhia, M: 866
Momenzadeh, K: 865
Montazmanesh, S: 865,868,866
Monaghan, T.M: 1382
Monasta, L: 869,868,867,866,865
Mondal, R: 839
Mondello, S: 868,866
Monga, R: 606
Moni, M: 865
Moni, M.A: 867,866
Monika, Bhat, A: 406,471
Moniruzzaman, M: 869
Monnier, J: 1628
Montazeri, F: 865,869
Moodi Ghalibaf, A: 866
Mool, A: 794
Moore, E.S: 233
Mor, S: 250,525
Moradi, M: 865,869,868,867,866
Moradi, Y: 869,868,867,866,865
Moradi-Lakeh, M: 865,869,868,866
Moradinazar, M: 865
Moradpour, F: 865
Moradzadeh, M: 866
Moraga, P: 869,868,867,866,865
Morawska, L: 868,865,866
Moreira, R.S: 868,867,866,865
Morovatdar, N: 865,869,868,867,866
Morrison, S.D: 865,869,868,867,866
Morsi, D.A.E: 865
Morze, J: 868,867,866,865
Mosapour, A: 869,868,867
Mosser, J.F: 865,869,868,866

2024 Published Papers

Mossialos, E: 865,869,868,867
Mostafavi, H: 865
Mostofinejad, A: 865
Motaghinejad, M: 869
Motappa, R: 868,867,866
Mougin, V: 865,868,866
Mouodi, S: 868,865,866
Mourad, A-H.I: 131
Mouria, P.K: 936,977,1109
Mousavi Khaneghah, A: 866
Mousavi, P: 865,869,867,866
Mousavi, S: 865
Mousavi, S.E: 866
Mpolya, E.A: 866
Mpundu-Kaambwa, C: 867,865
Mrejen, M: 868,866,865
Mrityunjay, Arora, A: 518,1498
Msherghi, A: 868
Msomi, V: 619
Mubarik, S: 869,868,867,866,865
Mubina Shekh, Rani, S: 1437
Muccioli, L: 869,865,867,866
Mudgal, A: 1491
Mueller, U.O: 868,866,865
Mughal, F: 869,865,866
Mukherjee, P: 435
Mukherjee, S: 732,866,865
Mukoro, G.D: 869,865
Mulenga, J: 1302
Mulita, A: 869,865
Mulita, F: 869,868,867,866,865
Mumtaz, S: 454
Munindra, Krishna, B: 358
Muniyandi, M: 865
Munjali, K: 868,867,866,865
Munzini, S: 377
Murillo-Zamora, E: 868,867,866
Murlimanju, B.V: 868
Murmu, M.K: 285
Murray, C.J.L: 865,869,867,868,866
Murshed, M.N: 819

2024 Published Papers

Murtaza, Q: 93,251,264,292,361,446,561,629,724,729,770,991,1016,1024,1089,1090,1108,1199,1400,1562,633,741,974,634,1

Musa, J: 867

Musaigwa, F: 869,867,866,865

Musallam, K.M: 866,865

Musina, A-M: 867

Muskan, Jayasimhadri, M: 1015

Mustafa, A: 869,866

Mustafa, G: 144,1219,1551,1552,184,611,437,938,1218,865,869,868,866,435,569,872,453,454,455,456,759

Mustafa, M.G: 1276,1198

Muthu, S: 869,868,867,865

Muthupandian, S: 867,866,865

Muthusamy, R: 866

Mutshembele, A: 427

Muzaffar, M: 868,867,866

Muñoz, A.G: 1628

Myrzakulov, N: 1392

Myung, W: 868,867,866,865

Márquez, F.P.G: 1545

März, W: 869

Möller, H: 869

N, J: 1319

Nabhan, A.F: 865

Nadikattu, R.R: 1071

Nafukho, F.M: 865

Nagar, B: 480

Nagaraja, S.B: 865

Nagarajan, A.J: 869,868,867,866,865

Nagarajan, S.T: 924,1022,1023,1572,186

Nagariya, R: 356

Nagel, G: 867,866

Nagesh, D.S: 458

Naghavi, M: 866,865

Naghavi, P: 869,868,867,865,866

Naheed, A: 866

Naik, B: 1366,1209

Naik, G: 867,866,865

Naik, G.R: 865,869,868,867,866

Naima, Tyagi, P.K: 588,1355

Naimzada, M: 865

Naimzada, M.D: 867

Nainu, F: 869,868,867,866

2024 Published Papers

Nair, S: 868,866,865
Nair, T.S: 869,865
Najajra, M.A.I: 408,1574,614,1495,1571,1010
Najmuldeen, H.H: 865
Najmuldeen, H.H.R: 869,868,866
Nakate, U.T: 850
Nakhostin Ansari, N: 869,866
Naldi, L: 865
Nallanthighal Rghava, S: 1100
Nambi, G: 869
Namdar Areshtanab, H: 869
Nand, D: 1067,358,1406,1502,417,590,892,945,430
Nandal, M: 1187
Nandal, R: 1718
Nandanwar, H: 494,1608
Nandawadekar, A: 1566
Nandy, M: 839
Nangia, U: 212,234,1237,1242,1244,385,423,877
Nangia, V: 868,867,866,865
Naqvi, A.A: 868,866
Narasimha Swamy, S: 866
Narasimhamurthy, S.K: 457
Narayan, J: 1002
Narayana Gowda, S: 1497
Narayana, A.I: 868,866
Nargus, S: 865,869,868,866
Narula, M: 91,599
Narwal, N: 1363
Narwan, M: 1182,1236,616,1421
Nasab, E.M: 865,868,867
Nasato, D.S: 181
Nascimento, B.R: 865,869,867,866
Nascimento, G.G: 868,867,866,865
Naseem, U: 1397,261,1169,776,1543
Nasehi, S: 866
Naser, A.Y: 869,867,865
Nashwan, A.J: 868,866
Nashwan, A.J.J: 869
Nasim, M: 1397
Nasimov, R: 46
Nasiri, M: 865

2024 Published Papers

Nasiri, M.J: 867
Nasoori, H: 869
Nasreldein, A: 869868
Nath, K: 1496,1497
Nath, P: 170
Nath, V: 1266
Natto, Z.S: 865,869,868,867,866
Nauman, J: 865,869,867,866
Navarro, R: 1628
Naveed, M: 867,866,865
Nawaz, A: 793,1063,633
Nayak, B.P: 869,868,867,866,865
Nayak, R: 810
Nayak, V.C: 865,868,867,866
Nayyar, A.K: 865
Nayyar, K: 1151
Nazri-Panjaki, A: 869,866,865
Ndejjo, R: 867,866
Nduaguba, S.O: 868,867,866
Neelakantan, S: 742
Neeraj, Sharma, S: 447,933,1117
Negaresh, M: 869
Negash, H: 869,868,867,865,866
Negero, A.K: 865
Negesse, C.T: 867
Negi, S: 279,460,897,937,1350
Nego, I: 865,869,868,867,866
Nego, R.I: 865,869,868,867,866
Negru, S: 865
Negru, S.M: 869,866
Neha, Deo, N: 855
Nehra, R.K: 961
Nejad, A.R: 867
Nejadghaderi, S: 865
Nejadghaderi, S.A: 869,868,867,866
Nejjari, C: 867,866,865
Nekouee, Z: 457,1499
Nematollahi, M: 865
Nematollahi, M.H: 869
Nena, E: 866,865
Nepal, S: 867,866,865

2024 Published Papers

Nesbit, O.D: 865,869,868
Netsere, H.B: 868,867
Newton, C.R.J: 865,869
Ng, M: 868,866
Ngasainao, M.R: 659
Nggada, H.A: 866
Nguefack-Tsague, G: 868,867,866
Ngunjiri, J.W: 868,867,866,865
Nguyen Le, D.T: 542
Nguyen, A.H: 866
Nguyen, D.H: 869,868,867,865,866
Nguyen, H.Q: 869,868
Nguyen, H.T.H: 869,867,866
Nguyen, N-T.T: 869
Nguyen, P.T: 865869867866
Nguyen, Q.P: 867
Nguyen, T: 865
Nguyen, V.G: 542
Nguyen, V.T: 869,867,866,865
Nhantumbo, E: 1286
Niazi, R.K: 869,868,867,866
Nichith, C: 966
Nichols, E: 869
Nidhi, Verma, B: 107
Nielsen, K.R: 866
Nigatu, Y.T: 867,866,865
Nikolouzakakis, T.K: 869,868,867,866,865
Nikoobar, A: 865,868,867,866
Nikoomanesh, F: 868,866
Nikpoor, A: 865
Nikpoor, A.R: 868,867,866
Niktabar, S.M.M: 635
Nilam: 115,1240
Nilaya, M: 239
Ningrum, D.N.A: 866
Niranjan, M.S: 384,613,728,367,552,1251,264,351,361,939,1590
Niranjan, V: 869
Nitin, Meena, P: 557
Nizam, M.A: 865
Nißen, M: 1372
Nnaji, C.A: 868,867,866

2024 Published Papers

Nnyanzi, L.A: 869,868,867,866
Noack, L: 1628
Noman, E.A: 869,868,867,866
Nomura, S: 868,867,865,866
None, A: 1629
Noori, A.R: 299,503
Noori, H: 199
Noreen, M: 867,866,865
Noroozi, N: 865,869,867,866
Norrving, B: 869,868,866,865
Noubiap, J: 865
Noubiap, J.J: 869,866
Novotney, A: 865,866
Nri-Ezedi, C.A: 869,868,867,866,865
Nsamba, B: 1628
Ntaios, G: 869,868,866,865
Ntsekhe, M: 868,866,865
Nunemo, M.H: 867
Nunez-Samudio, V: 866
Nurrika, D: 869,868,867,866,865
Nutor, J.J: 867,866
Nuñez-Samudio, V: 869,867,865
Nzoputam, C.I: 868
Nzoputam, O.J: 868
O'Donnell, M.J: 869,868,867,866
Oancea, B: 869,868,867,866,865
Obamiro, K.O: 867,865,866
Oboh, M.A: 866
Obsa, A.G: 868
Odetokun, I.A: 865,869,868,867,866
Odogwu, N.M: 867,866
Odukoya, O.O: 867
Oduro, M.S: 866
Ofakunrin, A.O.D: 866,865
Ogunkoya, A: 866
Ogunsakin, Re: 865,869
Oguntade, A.S: 868,867,866
Oguri, K: 1628
Oguta, J.O: 869,868,867,865
Oh, I: 865
Oh, I-H: 869,867,866

2024 Published Papers

Ohri, J: 405
Okati-Aliabad, H: 869,868,866,865
Okeke, S.R: 865,869,868,867,866
Okekunle, A.P: 865,869,868,867,866
Okidi, L: 865
Okonji, O.C: 869,868,867,865,866
Okwute, P.G: 869,867,865
Olagunju, A.T: 865,869,868,867,866
Olaiya, M.T: 865,869,866
Olana, M.D: 869
Olanipekun, T.O: 865
Olarinoye, I.O: 617
Olasupo, O.O: 868,867
Olatubi, M.I: 869,868,867,866,865
Oliaee, R.T: 865,868
Olivas-Martinez, A: 865
Oliveira, G.M.M: 869,868,867,866,865
Oliver, S: 865
Olorukooba, A.A: 865
Olufadewa, I.I: 865,869,868,866
Olusanya, B.O: 869,868,867,866,865
Olusanya, J.O: 868,867,866,865
Oluwafemi, Y.D: 865,866
Oluwatunase, G.O: 865,867
Om, H: 230
Omar Bali, A.O: 866
Omar, H.A: 865,868,867,866
Omayio, E.O: 1754
Omer, G.L: 868,867,866,865
Ondayo, M.A: 866
Ong, K.L: 866,869
Ong, S: 869,866,865
Onie, S: 868
Onwujekwe, O.E: 865,869,868,867,866
Onyedibe, K.I: 866,865
Opio, J: 865
Ordak, M: 869,868,867,866,865
Orellana, E: 865
Orisakwe, O.E: 867,866,865
Orish, V.N: 865,868,867,866
Orji, A.U: 869

2024 Published Papers

Orru, H: 865
Ortega-Altamirano, D.V: 869,868,865,867,866
Ortiz, A: 865,868,867,866
Ortiz-Brizuela, E: 868,865
Ortiz-Prado, E: 867,865
Osman, S.M: 542
Osman, W.M.S: 868,867,866
Ostroff, S.M: 868,866
Osuagwu, U.L: 869,868,867,866,865
Osuolale, O: 867
Otoiu, A: 865,868,867,866
Otstavnov, N: 869,868,866,865
Otstavnov, S.S: 869,868,867,866
Ouali, T: 1349
Ouyahia, A: 869,868,865,867,866
Ouyang, G: 868,867,866,865
Owolabi, M.O: 865,869,868,867,866
Oyeyemi, I.T: 865
Oyeyemi, O.T: 865
Oza, A: 1628
Ozten, Y: 865,867,866
Pacheco-Barrios, K: 869
Pacif, S.K.J: 456,569,1218,454,457,1499
Padron-Monedero, A: 868,866
Padubidri, J: 865
Padubidri, J.R: 869,868,866
Padukudru, M.P.A: 868
Pahadia, A.K: 514
Pahuja, T: 940
Paidisetty, M.K: 966
Painuli, S: 1113
Pal, A: 364,1019,1287,1504,1766,94,1506,1647,1255
Pal, K: 1414
Pal, P.K: 48,651,1630,1765,869,866,865
Pal, R: 708
Pal, S: 344,646
Palange, P.N: 869
Pali, H.S: 1257,643
Palicz, T: 868,865,866
Paliwal, A: 1361
Palladino, C: 869,868,866,865

2024 Published Papers

Palladino, R: 865,869,866
Pallavi, Kumar, P: 671
Palle, E: 1628
Palma-Alvarez, R.F: 869,866,865
Pan, F: 869,868,867,866
Pan, H-F: 867,866
Pana, A: 867,866,865
Panagiotakos, D: 869
Panahi, P: 865
Panchal, A: 34
Panchal, D: 966
Panchal, S: 1008,698
Pancholi, N: 875
Panda, J: 794,57,913,1228,1532,1754
Panda, P: 867,866
Panda-Jonas, S: 869,867,866
Pandey, A: 662,717,869, 1094,1377,495,783,1154,1688,865,1147
Pandey, C.M: 1181
Pandey, G: 662,717,982
Pandey, H: 700
Pandey, J.K: 718,1549,1697
Pandey, K: 1597
Pandey, M: 544,1002
Pandey, N: 958,1183,1190,1388,1516,1376,1472,60,64,109,935,1207,1208,878,1189,1459
Pandey, R: 52,851,1339,1578,1175
Pandey, S: 1585,1586
Pandey, S.K: 723
Pandey, V: 757
Pandey, V.K: 1314
Pandi-Perumal, S.R: 868,866,865
Pandian, J.D: 869
Pando-Robles, V: 865
Paneru, S: 360
Pangaribuan, H.U: 869,868,867,866,865
Panghal, H: 693,701,702,734,1419,1557,1581
Pani, B: 380
Pankaj, Kumar, A: 612
Pankaj, Rai, J.N: 186
Panos, G.D: 868,867,866,865
Panos, L.D: 868,867,866
Pant, G: 577

2024 Published Papers

Pant, S: 1388
Pantazopoulos, I: 869,867,865,866
Pantea Stoian, A.M.P: 866
Panwar, A.K: 622,796,46,656,1573,1449
Papadopoulou, P: 866,865
Papneja, S: 834
Parashar, J: 1605
Parashar, S: 1684
Pardhan, S: 869,868,865
Parida, M: 1102
Parihar, A.S: 502,320,881,927,1069,783,1688
Parihar, R.K: 192
Parija, P.P: 869
Parikh, R.R: 869,868,867,866,865
Park, S: 869,867,865,866
Parmar, I: 465
Parmar, S: 799
Parthasarathi, A: 869,867,865,866
Pashaei, A: 865,869,868,867,866
Pasovic, M: 868,866
Passera, R: 868,867,866
Pasupula, D: 865
Pasupula, D.K: 866
Paswan, A.P: 1568
Patel, A: 414
Patel, D: 268
Patel, G: 1454
Patel, H.M: 867,866
Patel, J: 869,868,867,866
Patel, J.R: 865
Patel, K: 709,1583,1587,330
Patel, N: 697
Patel, S: 312
Patel, S.K: 868,866,865
Pathak, A: 1376
Pathak, I: 1477
Pathak, J: 1044,1158,1686,1764
Pathak, N: 1454
Pathak, S.R: 1687
Pathak, V: 607,1215,480
Pathak, Y: 749,1607

2024 Published Papers

Pathan, A.R: 865
Patidar, J: 1519
Patidar, S: 141,1030,1361,1344,1741
Patil, A: 865
Patil, S: 869,868,867,866,865
Patoulas, D: 869,868,867,865,866
Patro, P: 658
Patthipati, V: 865
Patthipati, V.S: 868,867,866
Pattnaik, B: 1079
Patwal, M: 551
Paudel, U: 865,867,866
Paul, J: 827
Paul, K: 121
Paul, S.K: 1376
Paul, S.R: 23
Paun, M: 867
Pawan: 1135
Pawan, Dhiman, R: 1130
Pawan, P: 1658
Pawar, H: 1122
Pawar, S: 865,869,868
Payal, Megha, Verma, K: 1264
Pazoki Toroudi, H: 866
Pe Benito, C,R: 1372
Pease, S.A: 865,868,867,866
Peden, A.E: 865,868,867,866
Pedersini, P: 869,868,867,866,865
Peesapati, R: 676,1243
Peng, M: 868,867,865
Pensato, U: 869,868,867,866,865
Pepito, V.C.F: 868,867,866,865
Peprah, E.K: 865,868,866
Peprah, P: 868,867,866
Perdigao, J: 866868
Pereira, D.M: 869
Pereira, G: 867,865
Pereira, J: 869,865
Pereira, M: 865,866
Pereira, M.O: 869,868
Peres, M.F.P: 865,869,867,866

2024 Published Papers

Perianayagam, A: 868,867,865,866
Perico, N: 869,868,867,866,865
Perna, S: 869,867
Persson, C: 1628
Pestell, R.G: 867,866
Pesudovs, K: 868,866
Petcu, I: 865
Petcu, I-R: 869
Petermann-Rocha, F.E: 869,868,867,865,866
Petri, W.A: 868,866
Pezzani, R: 865
Pham, H: 865
Pham, H.T: 869,868,867,866
Philip, A.A: 1521
Philip, A.K: 868,867,866
Philip, L: 860
Phillips, M: 865
Phillips, M.R: 865,869,868,866
Pierannunzio, D: 867,866,865
Pigeolet, M: 865,868,867,866
Pigott, D.M: 865,868,867,866
Pilania, R: 686
Pilgrim, T: 865,866
Pillai, R: 1507
Pillay, J.D: 868
Pinheiro, M: 865
Pinilla-Monsalve, G.D: 869
Pinki, Kumar, P: 856
Pipil, H: 719,1591,804,1331,1329
Piplani, Y: 220
Piracha, Z.Z: 868,866
Piradov, M.A: 869,865,866
Pirouzpanah, S: 868,866
Pistolese, O: 1372
Pitman, J: 1628
Piyush, Prakash, P: 803
Plakkal, N: 866,865
Plass, D: 868
Plotnikov, E: 869,868,867,866,865
Plávalová, E: 1628
Podder, V: 866

2024 Published Papers

Poddighe, D: 865,869,868,867,866
Pokhriyal, H: 954,1468
Polat, B: 869
Polinder, S: 868,866
Polkinghorne, K.R: 866
Pollner, P: 867,865
Poluru, R: 869,867,866,865
Pond, C.D: 869,865
Ponkilainen, V.T: 866
Pooja, Pannu, P: 1639
Poonam: 228,445
Poonia, S: 1056
Popli, S: 420
Porru, F: 866
Postma, M.J: 865,868,867,866
Poudel, G.R: 869,865,866
Poudel, L: 865
Poudel, S: 1169
Pourali, G: 865,867
Pouramini, A: 869
Pourbagher-Shahri, A.M: 869
Pourfridoni, M: 869
Pourmotabbed, T: 1178
Pourshams, A: 867,866
Pourtaheri, N: 869,868,867,866,865
Pozuelos, F.J: 1628
Prabhu, D: 867
Prada, S.I: 868,867,866,865
Pradeep Kumar, P: 685
Pradhan, A.A: 289
Pradhan, L.K: 1573
Pradhan, P.M.S: 865,868,867,866
Prado, C.B.D: 865
Prajapati, S: 904,1124,1188,1293
Prajapati, V: 865
Prajapati, V.K: 865
Prakash Gupta, J: 982
Prakash Verma, O: 176
Prakash, A: 306,1256
Prakash, C: 1110,1602,446,729
Prakash, G.V: 136

2024 Published Papers

Prakash, H: 348
Prakash, O: 1314
Prakash, P: 1239,797
Prakash, P.Y: 869
Prakash, S: 869
Prakash, T: 1702
Prakash, V: 869,868,865
Prakasham, T.N: 866
Prakriya, S: 1327
Pramanik, K.R: 869
Prasad, A: 1554,1707,1558,142,597,966,1569,1732,390,686,1604
Prasad, B: 743
Prasad, C.P: 865
Prasad, D: 178,815,816,1511,1545
Prasad, M: 925,868,867,866,865,478,259
Prasad, M.V.V.K.S: 978,1535,1752
Prasad, R: 750,1565
Prasad, U.S: 1570
Prashant, A: 867,866,865
Prashar, V: 1187
Prashar, V.: 218
Pratap Singh, S: 821
Pratap Singh, V: 1012
Pratap, A: 973
Pratap, B: 1395
Prates, E.J.S: 865,869,868,866
Pravallika, C: 1029,1233,1020
Preeti, Kumari, P: 1396
Prerak, S: 182
Prieto Alhambra, D: 866
Priscilla, T: 868,866
Pritchett, N: 869,868,866
Priti, Kaur, R: 1596
Priy, A: 290
Priya, P: 262
Priya, Singh, B: 1259
Priyanka, Khera, S.N: 1659
Priyanka, Kumar, M: 394
Priyanka, Sharma, R: 675,1650
Pruthi, D: 365
Puhka, P: 477

2024 Published Papers

Pujari, S: 132
Punetha, N: 193,988,1270,1412
Punia, B.K: 1757,355
Puri, N.K: 792,893,1411,129,901,104,805,1725
Puri, P: 868
Purnobasuki, H: 865,869
Purohit, B.M: 867,866,865
Purwar, R: 1687,62,325,624,980,1482,289
Pushkar, K.L: 1428
Putra, R.P: 477
Puvvula, J: 868,867,866,865
Qadire, M.A: 867,865
Qaisar, R: 865
Qamar, S: 1118
Qamar, W: 235
Qasim, N.H: 869,868,867,866,865
Qattee, I: 869,868,865,867,866
Qazi, A.L: 868,866
Qian, G: 869,868,866,865
Qiu, S: 866
Qoronfleh, M.W: 1382
Quan, N: 865
Quanz, S.P: 1628
Quintanilla, B.A: 865
Quintanilla, B.P.A: 868
Quirrenbach, A: 1628
Qureshi, M.F: 866
Rabiee Rad, M: 866
Rachana: 1453
Rad, E.M: 865,868,867
Rad, M.R: 868,867
Radfar, A: 867,866,865
Radhakrishnan, R.A: 868,866
Radhakrishnan, V: 869,868,867,866,865
Radhika, R: 602
Raee, P: 865,869,867
Raeisi Shahraki, H: 866
Rafferty, Q: 868,866
Rafiei, A: 867
Rafique, I: 869,865
Raggi, A: 869,868,866,865

2024 Published Papers

Raggi, C: 867
Raghav Chaturvedi, K: 982
Raghav, P.R: 869,868,867,866
Raghava, N.S: 28,85,371,535,110,111,543,961,1476,1724,650,781,919,1131
Rahaman, F: 611,456
Rahati, M.M: 869
Raheem, N: 866
Rahim, E.A: 643
Rahim, F: 869,867,866,865
Rahim, M.J: 868,867,866
Rahimi, Z: 869
Rahimi-Movaghar, V: 866
Rahimifard, M: 869
Rahisuddin: 1673
Rahman, M: 865869868867866
Rahman, M.A: 869,868,867,866
Rahman, M.D.M: 867
Rahman, M.H.U: 869,866
Rahman, M.M: 868,866
Rahman, M.O: 869
Rahman, S: 235
Rahman, T: 865
Rahmani, A: 865
Rahmani, A.M: 869,866
Rahmani, S: 865,869,868,866
Rahmanian, M: 868
Rahmanian, V: 867,866
Rahmati, M: 869,867
Rahmawaty, S: 868
Rahnavard, N: 865,867
Rahul: 799,1268,1723
Rahul, Katarya, R: 1494
Rahul, Pokhriyal, V: 843,172,1283
Rai, A: 1118,966
Rai, J.N: 691,949
Rai, K: 512
Rai, K.B: 510,1651
Rai, M: 1106
Rai, P: 1035,1056,865,867
Rai, R: 1357
Rai, S: 1456

2024 Published Papers

Raimondo, D: 867
Raina, S: 1639
Raizada, S: 837
Raj Moolambally, S: 869
Raj, A: 690,1509,1730,270,1445,824,879,1177,1508,1056,1428
Raj, C: 259
Raj, M: 682
Raj, P: 803
Raj, R: 344,370,646,806,1626,973,941,1559
Raj, V.S: 1422
Raj, Y: 966
Raja, F: 857
Raja, V: 968
Rajaa, S: 868,865,866
Rajabpour-Sanati, A: 865,869,867
Rajagopal, K: 280,975,1471,1513
Rajderkar, V: 1153,1165
Rajni, Garg, N: 1538
Rajora, M: 106
Rajora, N: 706
Rajput, P: 867,866,865
Rajput, R: 726,1701
Rajput, S: 796
Rakesh, P.K: 1374
Rakovac, I: 866
Ram Bhaskar, D: 1177
Ram, M: 1710
Ram, P: 865,867
Ram, Y.L.S: 179
Ramachandra Rao, K: 3
Ramachandran, S: 975,1471,1513
Ramadan, H: 869,865
Ramadan, M.M: 868
Ramadhanti, A: 477
Raman, R: 451,1582,1646,963
Ramana, V.V: 365,1762
Ramasamy, S: 865
Ramasamy, S.K: 869,868,867,866
Ramasubramani, P: 869,868
Ramazanu, S: 869,868,865,866
Ramirez, D.F.B: 868,867,865

2024 Published Papers

Ramirez, R: 1628
Ramrakhiyani, K: 2
Ramteke, P.C: 1425,1522
Ramya, M: 446,729
Rana, H: 218
Rana, J: 867,865
Rana, K: 868,867,866,865
Rana, P: 201
Rana, S: 1440,1716,1767,656,1353,966,340
Rana, S.S: 867
Ranabhat, C.L: 868,865,867,866
Rancic, N: 869,868,867,866,865
Rane, A: 868,867,866
Ranga, V: 99,203,303,316,568,964,1173,1533,1756,285,59,210,1315,1485,13,45,258,721,948,1663,14,962
Ranganath, M.S: 607,1436,1215
Ranganathan, M: 1628
Rani, A: 710,1166
Rani, I: 63,1598
Rani, N: 760,1422,1671,1503
Rani, P: 801,1051,1126,1175,1235
Rani, R: 1278,1300,1264,1695,374,1303,1747
Rani, S: 865,1289,793,1063
Rani, U: 600
Ranjan, P: 6,126,491,745,683
Ranjan, R: 282,784
Ranjan, S: 508,867,865
Rao, A: 478,1267,353,117
Rao, A.S: 383,874,1027,1234,1285,1523,136,1676,1707,1558,363,600,617,1020,410,1332,1534,1683,1605,142,389,597,1029,
Rao, B.R.V: 363
Rao, C.R: 865,868,867,866
Rao, I: 865
Rao, I.R: 869,867,866
Rao, K: 868
Rao, K.S: 635
Rao, M: 865,868,866
Rao, P: 1753
Rao, P.K: 1555
Rao, P.V: 1322
Rao, R.N: 121
Rao, S: 353,865
Rao, S.A: 1309

2024 Published Papers

Rao, S.J: 869,868,866
Rapaka, D: 869,867
Rasali, D.P: 865,866
Rasella, D: 865,867,866
Rashedi, S: 865,867,866
Rashedi, V: 869,867,866,865
Rashid, A.M: 869,865
Rashidi Alavijeh, M: 869
Rashidi, M-M: 869,868,867
Rashidi, M.M: 451,1646,866
Rasool, A: 1478
Rasouli-Saravani, A: 865,869,866
Rastogi Verma, S: 859,1075
Rastogi, A: 721
Rastogi, P: 865
Rastogi, V: 1374
Rasul, A: 867,866,865
Ratan, Z.A: 867
Rathi, P: 1424
Rathnaiah Babu, G: 866
Rathnayake, T: 294
Rathore, H.S: 467
Ratra, S: 27
Ratre, A: 376
Raturi, A: 626,684,1547
Rauniyar, K: 776,1543,261,1397,1169
Rauniyar, S.K: 868,867,866
Raut, U: 658
Rautela, K: 92,482,956,1217,1682
Ravangard, R: 865,866
Ravi, R: 326
Ravi, Taran, S: 116,664
Ravikumar, N: 867,866,865
Ravita, Diwakar, S: 390
Ravita, Prasad, A: 1060
Raw, R.S: 191,1123
Rawaf, D.L: 865,868,867,866
Rawaf, S: 865,869,868,867,866
Rawal, D.S: 551
Rawal, L: 866
Rawassizadeh, R: 867,866,865

2024 Published Papers

Rawat, B: 18,401
Rawat, P: 1687
Rawat, S.S: 1548
Rawlley, B: 867,866
Ray, S: 1329
Ray, S.K: 1304
Rayguru, M.M: 997,815,816,1511
Raza, K: 427
Raza, R.Z: 866
Razeghian-Jahromi, I: 865
Razo, C: 869,868,866
Reddy, K.R: 1331,804
Reddy, M.M.R: 865
Reddy, M.M.R.K: 868,867
Reddy, N.D.K: 295,725,1623,1521
Redwan, E.M.M: 869,868,867,866,865
Rehman, A: 15,1049
Rehman, F: 865
Rehman, F.U: 866
Rehman, S: 618
Reifels, L: 868,866
Reilly, D: 1053
Reiner, R.C: 865,868,866
Reiners, A: 1628
Rekha Rani, P: 389
Remuzzi, G: 869,868,867,866,865
Renzaho, A.M.N: 868
Reshmi, B: 865,868,867
Resnikoff, S: 865
Rewari, S: 590,851,892,1266,1339,1578,430,447,476,933,570,572,593,1162,574,1068,1191
Reyaz, M.S.B: 625
Reyes, L.F: 868,866,865
Rezaee, M: 865
Rezaei, M: 866
Rezaei, N: 865866867
Rezaei, N 868,868,: 868869
Rezaeian, M: 869,868,867,866,865
Rghava, S.N: 1483
Rhee, T.G: 869,866
Riad, A: 869,867
Riaz, M.A: 865,867,866

2024 Published Papers

Ribas, I: 1628
Ribeiro, A: 865
Ribeiro, A.L.P: 866
Ribeiro, D.C: 865
Rice, M: 1628
Rickard, J: 868,867,866,865
Ricketti, B.V: 1628
Rikhtegar, R: 867
Rios-Blancas, M: 865
Rishiwal, V: 1115
Rishu, U: 1507
Ritika, R: 78
Ritu, Apoorva, Sharma, S: 1164
Ritu, Bharmjeet, Nida-E-Falak, Das, A: 1163
Ritu, Chandra, P: 1,313
Riva, H.R: 866
Rizvi, M.A: 1639
Rizvi, S.M.I: 1376
Rizwan, M: 119,400,877,1449,46,699,1512,1613
Robinson, S.R: 869
Robinson-Oden, H.E: 865,867,866
Rodrigues, C.F: 868,867,866
Rodrigues, M: 865,869,866
Rodriguez, J.A.B: 865,869,868,867
Roelfsema, P: 1628
Roever, L: 869,868,866,865
Rogowski, E.L.B: 869,866
Rohilla, K: 1428
Rohilla, P: 390,1554,1060,1558,1604,597
Rohilla, R: 867,865,114,224,225,342,1469,1407
Rohloff, P: 865,866
Romadlon, D.S: 867,866,865
Romagnolo, A: 1628
Romero-Rodriguez, E: 866
Romoli, M: 869,866
Ronco, M.P: 1628
Ronfani, L: 869,868,867,865,866
Rongali, G: 1078
Roshandel, G: 868,865,866
Roshanzamir, S: 865
Rostamian, M: 865

2024 Published Papers

Roth, G.A: 866
Rotimi, K: 868
Rout, H.S: 868,867,866
Roy, A: 968,1700,1118
Roy, B: 868,867,865
Roy, J.G: 1107
Roy, N: 779,868,867,866,910
Roy, P: 1653,869,868,867,866,865
Roy, P.K: 319
Roy, S: 997
Roy, S.D: 1702
Roy, T: 437
Roy, V: 433
Rubagotti, E: 869,868,867,866,865
Rugheimer, S: 1628
Ruhal, R: 1099,1356
Ruiz, M.A: 869
Rumeileh, S.A: 865
Rumisha, S.F: 865,867,866
Runghien, T: 867,866
Russ, T.C: 869
Russell, A: 1594
Rustagi, K: 914
Rustagi, S: 968
Ruzvidzo, K.H: 687,1192
Rwegerera, G.M: 866,865
Rynkiewicz, A: 866,865
Ryoo, M.S: 1053
S: 1020
S, K: 1097
S, R.N: 548
Sa Farinha, C.S.E: 866
Saad, A.M.A: 869,868,865,867,866
Saadatian, Z: 869,867,866
Sabapathy, T: 28,85,110,111,1100,1483
Sabbatucci, M: 865
Saber, K: 865,869,866
Saber-Ayad, M: 865
Saber-Ayad, M.M: 865,868,867,866
Saberikamarposhti, M: 869,867,866
Sabour, S: 868,867,866

2024 Published Papers

Sacco, S: 869,868,865,866
Sachan, R: 624
Sachdev, P.S: 868,866
Sachdeva, B: 152
Sachdeva, N: 738
Sachdeva, R: 1688,866
Sachin, Riya, Soni, S: 208
Sachin, S: 1045
Sada, F: 867
Saddik, B: 865,869,868,867,866
Saddler, A: 868,865,866
Sadee, B.A: 868,867,865,866
Sadeghi, E: 869868865866867
Sadeghi, M: 865,868
Sadeghian, F: 866
Sadeghian, S: 865,869
Sadik, L: 1073
Sadique, H: 1199,1200
Saeb, M.R: 868,867,866
Saeed, U: 868867866865869
Saeedi, M: 865
Safaeinejad, F: 866
Safdarian, M: 869
Safi, S: 865
Safi, S.Z: 869,868,867,866
Sagar, E: 1769,1771
Sagar, H: 1398,940
Sagar, N: 1443
Sagar, R: 869,868,865,866
Saghazadeh, A: 865,866
Sagoe, D: 869,868,867,866
Sah, S: 14
Saha, A: 989
Saha, M: 867
Saha, R: 1075,26,1113
Saha, S: 989,413
Saha, S.K: 575
Saheb Sharif-Askari, F.S: 869
Saheb Sharif-Askari, N: 869,866
Sahebkar, A: 869,867,866
Sahoo, B.K: 1636

2024 Published Papers

Sahoo, S.S: 869,867,866,865
Sahoo, U: 866
Sahraian, M: 865
Sahraian, M.A: 869
Sahu, A: 769
Sahu, A.K: 1057,1138,1196,1425,1522,295,725,1623
Sahu, M: 57,884,1033,1228,1503,1594,1671,660,867,866
Sahu, M.K: 267,1555,1732,142
Sahu, R: 53
Said, Z: 942,963,21,1582,451,1646
Saif, A.G.F: 1118
Saif, Z: 868,867,866
Saifi, H: 1298
Saifi, S: 374,1357
Sailaja, P: 617
Saini, D: 1758
Saini, J.S: 1130
Saini, K: 286,1418
Saini, L: 1634
Saini, N: 926
Saini, P: 458
Sajedi, S: 865
Sajedi, S.A: 869
Sajid, I: 427
Sajid, M.R: 868,866,865
Sajith, V: 930
Sajwan, A: 403
Sakalkar, S: 700
Sakharkar, M.K: 1382
Sakshaug, J.W: 869,868,867,865,866
Salahi, S : 865
Salam, N: 868,866
Salamati, P: 865,867,866
Salami, A.A: 865,868,867,866
Salaroli, L.B: 868,866,865
Saleh, M.A: 865,869,868,867,866
Salehi Omran, H: 869
Salehi, S: 865,866
Salem, M.R: 869,868,867,866,865
Salem, M.Z.Y: 868,867,866,865
Salhi, K: 519

2024 Published Papers

Sali, A: 819
Salimi, S: 865,869,867,866
Sallam, M: 868
Samadi Kafil, H: 869,866
Samadzadeh, S: 869,868,867,865,866
Samakkhah, S.A: 865
Samara, K.A: 865
Samargandy, S: 865,869,868,866
Samdurkar, S.W: 1392
Samodra, Y.L: 869,868,867,865,866
Samrat Modi, K: 821
Samsher: 1290,364,1195,1199,1323,1648
Samsher, Kumar, A: 943,1326
Samsher, Murtaza, Q: 1200
Samuel, N: 905
Samuel, V.P: 869,867,865
Samui, P: 1073
Samy, A.M: 869,868,865,867,866
Sanabria, J: 865,868,867,866
Sanadgol, N: 869,867,865
Sanal Kumar, V.R: 966
Sandhir, R: 201
Sangal, R: 1309
Sangalay, A: 817,1520
Sanganyado, E: 865
Sangar, B: 232
Sangeeta, Kumar, R: 969,1272
Sangeeta, Singh, M: 431
Sangwan, S: 756
Sangwan, S.R: 918
Sangwan, V: 392,1014,873,1455,698
Sanjeev, R.K: 869,865
Sanmarchi, F: 865,869
Sanna, F: 868,865,867,866
Santhiya, D: 967,1092,1451,1500,1601,1095,1152,1337,1677,1763
Santomauro, D.F: 868,869,866
Santos, F.C.D: 865
Santos, I.S: 868,866
Santos, W.M.D: 865
Santosh, M: 989
Santri, I: 865

2024 Published Papers

Santri, I.N: 869,865
Santric-Milicevic, M.M: 869,868,867,865,866
Sao Jose, B.P: 866
Saqib, H: 867
Sarasmita, M.A: 868,865,866
Saraswat, M: 1747
Saraswat, P: 315,33,105
Saraswat, V.K: 1619
Saraswat, Y: 1569
Saraswathy, S.Y.I: 867,866
Saravanan, A: 865,869,867,866
Saravi, B: 867,866,865
Sardana, V: 362,155
Sardar, A: 759
Saria, P: 1517
Sarikhani, Y: 865,868,867,866
Sarkar, A: 355
Sarkar, B.D: 185
Sarkar, C: 865
Sarkar, M: 839
Sarkar, R: 1491,989,23,199,399,448,876,1043,1194,1381,1679,1204
Sarkar, T: 867,866
Sarmiento-Suárez, R: 868867865866
Sarode, G.S: 868,867,865,866
Sarode, S.C: 868,867,865,866
Sarswat, R: 966
Sarveazad, A: 865,869,868,867,866
Sathian, B: 865,868,867,866
Sathikh, P.M: 623
Sathish, T: 867,866,865
Sathyanarayan, A: 868,867
Satpathy, M: 869,868,866
Sattin, D: 865
Satyam, K: 654
Satyam, S: 1045
Saulam, J: 865
Saute, R.L: 869
Sawad, A.B: 1372
Sawhney, M: 868
Sawyer, S.M: 865
Saxena, A: 982,1101,1130

2024 Published Papers

Saxena, K: 887
Saxena, P: 1735
Saxena, R: 378,791
Saxena, S: 744,946,865
Saxena, S.K: 1701
Saxena, V: 385,423,66,55
Saya, G: 865
Sayadi, Y: 865
Sayed, I.E: 868
Sayeed, A: 865,867,866
Sayeed, M: 865
Sayeed, M.A: 867,866
Saylan, M: 869,866,865
Sayyah, M: 869,866
Sazid, M: 128
Scarmeas, N: 869,868,867,866,865
Schaarschmidt, B.M: 868,865,866
Schiess, N: 869
Schlaich, M.P: 869,866
Schlecker, M: 1628
Schlee, W: 867,865,866
Schmidt, M.I: 865,868,866
Schneider, Ijc: 868,866
Schonhut-Stasik, J: 1628
Schuermans, A: 869,867,866,865
Schumacher, A.E: 865,867,868,866
Schutte, A.E: 866
Schwarzinger, M: 869,866
Schwebel, D.C: 869,868,867,865,866
Schwendicke, F: 868,867,866,865
Schwieterman, E: 1628
Seabroke, G.M: 805
Sebastian, A: 1742
Sedighi, M: 868
Seeher, K.M: 869
Seema, Rao, A.S: 1333
Seewal, R: 832
Sefilian, A.A: 1628
Sehrawat, C: 504
Sekhri, E: 206,450,484,1435
Selukka Thulasiram, N: 1737

2024 Published Papers

Selvaraj, A: 1351
Selvaraj, S: 869,867,866,865
Semreen, M.H: 865
Senani, R: 1177,1509
Senapati, S: 865,868,866
Sendekie, A.K: 869
Sengar, S.S: 858
Sengupta, D: 1056
Sengupta, P: 869,867,865
Seniaray, S: 1297,1634,795
Senthilkumaran, S: 869,868,867,866,865
Sepanlou, S.G: 865,868,867,866
Serabyn, E: 1628
Serban, D: 865,869,867,866
Sergindo, M.T: 869
Sertsu, A: 865
Servili, C: 869
Serván-Mori, E: 867
Seshadri, M: 1334
Seshulatha, K: 978,1752
Seth, N: 697
Sethi, A: 666,1520
Sethi, Y: 869,868,867,866,865
Sethia, D: 97,553,1040,1252,157,266,812,813,886,1074,1151
Setiawati, F.A: 477
Setoguchi, S: 868
Setu, K: 268
Seyedalinaghi, S: 865,869,867
Seyedi, S: 865
Seyedi, S.A: 867
Seylani, A: 869,868,867
Sha, F: 866
Shabani, M: 869
Shabany, M: 869,866
Shadid, J: 868
Shafaat, A: 865,866
Shafaat, O: 865
Shafie, M: 865,869,868,867,866
Shafiee, A: 865
Shah, A: 261
Shah, H: 868

2024 Published Papers

Shah, J: 867
Shah, N.K: 948
Shah, N.S: 868,865,866
Shah, P.A: 868,867,866,865
Shah, R.R: 1738
Shah, S.B: 1169
Shah, S.M: 866
Shahabi, S: 865,869,866
Shahbandi, A: 865,869,868,867,866
Shahgholian, A: 1046
Shahi, C: 1628
Shahid, I: 866,865
Shahid, S: 865,869,868,867,866
Shahid, W: 865,868,866
Shahraki, H.R: 869,868,867,865
Shahraki-Sanavi, F: 869
Shahsavari, H.R: 869,866
Shahwan, M.J: 865,869,868,867,866
Shaikh, A: 867,866
Shaikh, M.A: 869,868,867,866,865
Shailly, D: 1448
Shaji, K.S: 869
Shakeri, A: 865,868,866
Shakil, H: 865
Shakil, M.A: 215
Shaklan, N: 947
Shalash, A.S: 868,866
Sham, S: 869,868,866,865
Shama, A.T.T: 869
Shambharkar, P.G: 497,1720,1031
Shamim, F.A: 633
Shamim, M: 865
Shamim, M.A: 869,868,867,866
Shams-Beyranvand, M: 869,867,865,866
Shamshad, H: 866,865
Shamshirgaran, M: 865
Shamshirgaran, M.A: 868
Shamsi, M.A: 865,869,868,867,866
Shanawaz, M: 865,869,868,867,866
Shandilya, A: 960,390,1604
Shandilya, P.S: 1121

2024 Published Papers

Shankar, A: 783,868,867,865,866

Shanker, A: 884

Shanker, H: 740,1091

Shannawaz, M: 868,867

Sharan, A: 1462

Sharan, P: 779

Sharan, S.C: 779

Sharath, M: 869,868,867

Sharda, M: 205

Sharda, Malhotra, R: 1070

Shardeo, V: 185

Sharfaei, S: 865,869,867,866

Sharif-Askari, F.S: 866

Sharif-Askari, N.S: 865

Sharifan, A: 865,869,868,867,866

Shariff, M: 865

Sharifi-Rad, J: 868,867,866,865

Sharma, A: 20,336,367,415,467,479,552,584,643,672,987,992,1296,1457,784,1257,379,1639,1171,72,122,452,1586,1264,374

Sharma, A.K: 428,76,335,1055

Sharma, B: 476,1532,1512,752

Sharma, D: 439,646,780,833,1760,245,482,660,1217,1303,1559,1056

Sharma, G: 1438,1619,102

Sharma, G.K: 285

Sharma, H: 966,857

Sharma, I: 1227,1346

Sharma, J: 880,1106,1475,1629,496,995,4,1041,940,120

Sharma, J.G: 305,659,689,1103,1253,1259,1416,1698,985,1701,1689,984,1092,1104,1500,1525,1588

Sharma, K: 792,893,926,1718,1723,159,459,649,825,834,845,981,1135,1670,1701,378,1658,970,1668,35,578,579,778,794,84

Sharma, K.K: 1201

Sharma, M: 198,567,1275,1452,284,1696,153,749,1411,1487,21,865,869,868,867,154,222

Sharma, M.K: 1665

Sharma, M.R: 169

Sharma, N: 114,186,850,1147,1378,1469,153,628,968,1031,1687,497,586,1518,757

Sharma, N.S: 732

Sharma, P: 122,183,338,452,1015,1258,1706,197,1071,542,992,1457,1389

Sharma, R: 37,314,324,371,535,649,1131,573,730,1236,1340,268,732,1182,1545,875,966,869,868,867,866,865,559,932,1342

Sharma, R.C: 1619

Sharma, R.P: 388,1058,1185,1042,1454

Sharma, S: 169,254,412,774,994,1168,1460,1544,526,532,808,419,467,982,16,966,1628,865,868,866,1446,384

Sharma, S.C: 1379,1454,253,254,1398,1346,1629

Sharma, S.K: 373

2024 Published Papers

Sharma, T: 513
Sharma, U: 868,867,866
Sharma, V: 159,368,578,579,1119,1135,1139,1332,1661,1271,378,845,1658,868,867,865,866,1168,1098,1130
Sharma, Y: 95,398,920,1225,1281,1612,110,111,1100,1483,1146,1348,1347,28,85
Shashamo, B.B: 869
Shashank, A.S: 966
Shastry, R.P: 868,867,866,865
Shavandi, A: 868,867,866,865
Shaveta, Bhan, R.K: 1611
Shaw, D.H: 865,867
Shayan, A: 865
Shayan, A.M: 868,867
Shayan, M: 869,868,867,866
Sheel, R: 1667
Shehabeldine, A.M.E: 868,867,866,865
Sheikh, A: 865,867,866
Sheikhi, R: 865
Sheikhi, R.A: 869,867,866
Shekh, S.H: 1392
Shekhar, C: 1510
Shekhar, S: 1360,869
Shekhawat, P.S: 628
Shekhawat, S.P.S: 384
Shekher, V: 121
Shen, J: 869,866,865
Shenoy, M.M: 867,865
Shenoy, S.M: 869
Sheoran, H.S: 911
Sherawat, V: 1370
Shetty, A: 866
Shetty, B.K: 865
Shetty, B.S.K: 866
Shetty, P.H: 869,868,867,866
Shetty, R.S: 865
Shey, R: 865
Shi, P: 867,866
Shiani, A: 865
Shibuya, K: 868,866,865
Shifa, J.E: 868
Shiferaw, D: 865,868,867,866
Shiferaw, D.S: 869

2024 Published Papers

Shiferaw, W.S: 868
Shigematsu, M: 869,868,867,866,865
Shikha, S: 1040,1252
Shikha, Sethia, D: 1005,341,1625
Shimpy, Kumar, M: 297,530,746
Shin, J: 865
Shin, M: 865
Shin, M-J: 866
Shin, Y.H: 866
Shingatgeri, V.M: 870
Shiri, R: 869,868,867,866,865
Shirkoochi, R: 865,867,866
Shitaye, N.A: 868,866
Shittu, A: 865,869,868,867,866
Shiue, I: 865,866
Shivakumar, K.M: 869,868,865,866
Shivangi, Rawat, C: 860
Shivarov, V: 868,867,866,865
Shivhare, M.K: 943,1326
Shiwakoti, S: 261,490,1543
Shobana, R: 216,536,1184
Shokeen, A: 1317
Shokeen, K: 504
Shokraneh, F: 867,866
Shokri, A: 866
Shokri, F: 869
Shool, S: 865,869,868,867,866
Shorofi, S.A: 869,867,866
Shree, D: 1295,1528
Shrestha, S: 869,868,866,865
Shrila, M: 1369
Shrivastav, A.K: 1624
Shrivastava, A: 1432
Shrivastava, A.K: 630,635,118,500,1008,1399,1540,1568
Shrivastava, M: 1508,1717,690,824
Shrivastava, N: 887
Shriwastava, S: 1314
Shruti, Bharadvaja, N: 334,965
Shruti, Jain, S: 731
Shuaib, M: 1387
Shuja, K: 865

2024 Published Papers

Shuja, K.H: 867
Shujait Ali, S.S: 869
Shukla, A: 955
Shukla, A.K: 21
Shukla, B.K: 453
Shukla, J: 1738
Shukla, R: 661
Shukla, S: 1480
Shukla, S.K: 483,499,1006,1073
Shukla, V: 1161
Shuval, K: 868,867,866,865
Shyam Mishra, R: 1143
Si, Y: 865
Siankam Tankwanchi, A.B: 869
Sibhat, M.M: 865,868
Siddharth, Jain, B: 312
Siddig, E.E: 865,869,868,867,866
Siddiqui, M.A: 1643,1649
Siddiqui, S: 661
Sigfusdottir, I.D: 869,868,865
Sikarwar, A.S: 466,782
Sikdar, S: 1653
Sikka, R: 1444
Sillanpää, M: 446,729
Silva, Das: 868
Silva, J.P: 865,869,868,867,866
Silva, L: 1628
Silva, L.M.L.R: 869,868,867,866
Silva, L.M.R: 865
Silva, S: 865,868,867,866
Simaz-Bunzel, A: 80
Simonetti, B: 867
Simpson, C.R: 865,868,866
Simões, J.P: 865
Sinaei, E: 869
Singal, A: 868,867,865,866
Singari, Rm: 688,936,953,959,977,1109,623,238,680
Singh Mali, H: 168
Singh, A: 413,424,468,511,565,865,877,1560,69,527,528,598,826,831,1358,1395,1536,121,189,420,800,1134,1255,1316,1653
Singh, A.K: 1290,1529,1741,179,1440
Singh, A.P: 1320

2024 Published Papers

Singh, B: 148,278,381,407,177,380,1618,960,865,202,1767,101,442,639,792,822,893,656

Singh, B.B: 865,869,868,867,866

Singh, B.P: 235

Singh, C.P: 1731,436,856,1085

Singh, D: 1459,419,1059,1310,1325,1363,1364

Singh, G: 523,526,532,531,1316,1744,720,1673,716,869,866,420,504

Singh, G.P: 39

Singh, H: 426,442,1178,44,230,1239,1303,379,868,848

Singh, H.P: 946

Singh, I: 106,233,731,888,909,910,1057,1138,1279,1527,1042,757,914,1374

Singh, I.J: 93,236,629,771

Singh, J: 32,130,1537,339,340,533,866,606,1748

Singh, J.A: 868,867

Singh, J.P: 1347

Singh, K: 320,783,881,927,1069,27,1487,1243,201,1688,42,158,39

Singh, K.K: 700

Singh, K.R: 1115,1486

Singh, L: 1592

Singh, M: 161,305,985,1698,101,175,232,357,442,508,639,822,865, 1390,1448,1465,1566,1589,1699,41,180,488,1272,628,86

Singh, N: 140,522,1694,1409,753,1306,1666

Singh, N.K: 643,987

Singh, N.P: 865,866

Singh, O: 21

Singh, P: 247,598,620,668,688,838,857,860,959,1079,1140,1371,1417,1596,117,127,138,478,501,788,931,1360,1610,1267,15

Singh, R: 19,213,1277,1321,22,223,921,1145,1415,1443,1599,404,265,1110,1401,1602,328

Singh, R.C: 790,912,131,704,1012,1636,416,555,727,1274,1380,349,350,747,1038

Singh, R.K: 727,1380,257,1011,1046,1211,102,1034,1544,1445,426,1212,1324,88,89,429,833,353,398,1001,1034,117,620,12

Singh, R.P: 1746

Singh, R.R: 1231

Singh, S: 513,592,691,765,949,1088,1150,1401,1458,218,517,544,1028,1421,1086,1269,1747,754,1438,966,1628,865,869,86

Singh, S.K: 1346,134,985,993,1423,1434,1745,299,503,709,1111,1583,1587,11,90,298,330

Singh, S.P: 696,575

Singh, S.V: 58,899

Singh, T: 307,1216,888

Singh, U: 1267

Singh, V: 79,264,363,580,613,631,656,728,1334,1408,1590,1676,601,634,974,1026,571,756,588,685,1013,1355,1553,1400

Singh, V.K: 326,1768,831

Singh, V.P: 627,637,642,131,704,1636

Singh, V.V: 1196

Singh, Y: 983,681,1026,987,643,1257

Singha, K: 1082

2024 Published Papers

Singha, R: 1000
Singhal, C: 1206
Singhal, M: 723
Singhal, S: 846,1394,1464,1567
Singhal, T: 50
Singhal, V: 124
Singhania, S: 155,339,340,362,1440,1753
Singholi, A.K.S: 1436
Singholi, A.S: 211
Singla, M: 1099
Singla, P: 683
Singla-Pareek, S.L: 1662
Sinha, A: 242
Sinha, A.N: 625
Sinha, D.N: 866
Sinha, P: 121
Sinha, R: 404
Sinha, R.K: 521,541,1463,200,368,874,1027,1119,1235,1336,1370,1384,1335,1707,1558
Sinha, S: 188,754,1614
Sinha, S.K: 1639
Sinto, R: 866
Siraj, M: 865
Siraj, M.S: 867,866
Sirohi, M: 409
Sirota, S.B: 869,866
Sisaudia, V: 276,1317
Sisodia, D: 531
Sitas, F: 865,866
Sivakumar, S: 869,866,865
Sivaprasad Kumar, S: 1076
Siwach, V: 1739
Skou, S.T: 868
Skryabin, V.Y: 865,866
Skryabina, A.A: 866,865
Sleet, D.A: 868,865,866
Slepak, E.L.N: 865,868
Smith, A.E: 867
Smith, G: 867
Sneed, E.L: 1628
Socea, B: 867,866
Sofuo?lu, D: 453

2024 Published Papers

Sohag, A.A.M: 869
Sohrabi, H: 865
Sokhan, A: 867,866
Solanki, A: 1436
Solanki, G: 515
Solanki, L: 853
Solanki, N: 88,89
Solanki, P: 1105
Solanki, R: 869,868,867,866
Solanki, S: 749,867,866
Soleimani, H: 865,869,867,866
Solikhah, S: 869
Soliman, S.S.M: 865,868,867,866
Solmi, M: 865
Solomon, Y: 867865869
Somayajula, A: 930
Somu, S.T: 1222
Sonam, R: 1117
Song, B-J: 1382
Song, S: 869,868,866
Song, W.K: 1096
Song, Y: 865,869,868,867,866
Soni, L: 60,64,109
Soni, S: 616
Soni, U: 665,1424
Soni, V.K: 861
Sonthalia, A: 1160
Sood, M: 860
Sood, S: 265
Soodejani, M.T: 868,867,865
Sorensen, R.J.D: 865,868,867,866
Soriano, J.B: 865,868,866
Sorot, R: 1191
Sotoudeh, H: 869
Soyiri, I: 865
Soyiri, I.N: 868,866
Spartalis, M: 869,868,867,865,866
Spearman, S: 866
Spencer, L: 1628
Squicciarini, V: 1628
Sreedevi, I: 1479

2024 Published Papers

Sreejeth, M: 67,472,540,667,1009,232,304,508,1284,1403,1447,883

Sreeramareddy, C: 865

Sreeramareddy, C.T: 868,867,866,865

Sreeshanth, B.S: 966

Sri Kavya, K.C: 1020

Srijan, Gupta, A.K: 1197

Srijan, S: 7

Srikakolapu, J: 481,998

Srinivas, H: 1738

Srinivas, K: 53,554,703,1128,1291,741

Srinivasa Rao, A: 1554

Srivastava, A: 376,1240,860,1391,1541

Srivastava, A.K: 1491,1567,915

Srivastava, C.M: 1687

Srivastava, D: 720

Srivastava, D.K: 355

Srivastava, M: 1345

Srivastava, N: 1632

Srivastava, P: 401,47,967

Srivastava, R: 589,1632,319,328,772,762,762

Srivastava, S: 1492

Srivastava, T: 1685

Srivastava, V: 661

Srivastava, V.K: 867,866

Staguhn, J: 1628

Stanaway, J.D: 866

Stanikzai, M.H: 867,866

Stapelfeldt, K: 1628

Stark, B.A: 869,868,866

Starnes, J.R: 869,866,865

Starodubov, V.I: 867,865

Starodubova, A.V: 869,868,867,865,866

Stassun, K: 1628

Stefan, S: 865

Stefan, S.C: 867

Stein, C: 868,866

Stein, D.J: 869,868,865,866

Steinbeis, F: 865,866

Steiner, C: 868,866

Steiner, T.J: 869,868

Steinmetz, J.D: 869,868,866

2024 Published Papers

Steiropoulos, P: 868,867,865,866
Stettler, C: 1372
Stevanovi?, A: 866
Stockfelt, L: 868,865,866
Stoian, A.M.P: 868,867
Stokes, M.A: 868,867,865,866
Stortecky, S: 865,866
Stovner, L.J: 869
Stranges, S: 865
Stroumpoulis, K: 865
Subedi, N.S: 868
Subramanian, S: 1451
Subramanian, T: 1160
Subramaniyan, V: 868,867,866
Suchit, S: 945
Sud, A: 1149
Suemoto, C.K: 868
Suheb, M.Z.K: 869,865
Suleman, M: 869,868,867,865,866
Suliankatchi Abdulkader, R: 866
Sultana, A: 869,868,867,865,866
Sumalatha, C: 1733
Sun, H.Z: 866
Sun, J: 869,867,865,866
Sun, Y: 925
Sundar, V: 732
Sunder, S: 1099,1356
Sundström, J: 866868
Suneja, K: 928
Sunkersing, D: 865,869,866
Sunnerhagen, K.S: 869,865,866
Sunny, A: 869
Suri, A: 1132,246
Suri, P.K: 194,983,1659
Suri, R: 308
Susan, S: 807,1696,1705,1174,323,1054,1136,1304,1533
Susanty, S: 865
Susianti, H: 869
Suthanthira Kannan, S: 867,866
Swain, A: 50
Swain, C.K: 869,868,867,865,866

2024 Published Papers

Swamy, S.N: 867
Swapna, K: 1029,1233,389,978,1535,1752,1733,617,1604,1732
Swara, H: 1429
Swaroop, P: 282
Swati, Nilam: 830
Sweety, Kumar, D: 560,360,44
Sweety, Paneru, S: 464
Swetha, A.V.S: 35,1263
Sykes, B.L: 867,865
Szarpak, L: 868,867,865,866
Szeto, M.D: 869,867,865,866
Szócska, M: 866865867
Tabaee Damavandi, P: 866
Tabares-Seisdedos, R: 867,866
Tabarés-Seisdedos, R: 869,868
Tabatabaei Malazy, O: 866
Tabatabaei, S.M: 869,866
Tabatabaeizadeh, S: 865
Tabatabaeizadeh, S-A: 868,867,866
Tabatabai, S: 865,869,868,867,866
Tabb, K.M: 867,865
Tabche, C: 868
Tabish, M: 865,869,868,867,866
Taborda-Barata, L.M: 865
Tabuchi, T: 865
Tadakamadla, S.K: 868,866
Tadesse, B.T: 865
Tadkamadla, J: 866
Tahbaz, S.V: 865,869
Taheri Abkenar, Y.T: 866
Taheri Soodejani, M: 866
Taheri, A: 865
Taheri, M: 869
Taherkhani, A: 868,865
Tahvildari, A: 869
Tai-Hoon, K: 1097
Taiba, J: 868,867,865,866
Tajbakhsh, A: 865,869,867
Takahashi, K: 866
Talaat, I.M: 865,868,867,866
Talan, D: 951

2024 Published Papers

Talegaonkar, S: 710
Talewar, R: 390
Talewar, R.A: 686,1604,1732
Talukder, A: 868,867,865,866
Tampa, M: 869,868,867,866
Tamre, M: 206,484,450,1435
Tamura, M: 1628
Tamuzi, J.L: 868,867,865,866
Tan, K: 865
Tan, K-K: 869,868,867,866
Tandukar, S: 868,866
Taneja, A: 26,1653
Taneja, P: 1001
Taneja, S: 655,1329
Tang, H: 869,868,867,865,866
Tang, H.K: 865,866
Tang, S: 925
Tannavi, Jayasimhadri, M: 1014
Tantawi, M.E: 865,868,867
Tanveer, M.Q: 623
Tanvi Singh, Tanwar, M: 359
Tanwar, E: 1114
Tanwar, L: 913,306
Tanwar, M: 710,1166,465
Tanwar, N: 755,768
Tanwar, S: 787,1561,1172
Taran, S: 1455,5,176,603,604,66
Tareke, Dada: 867
Tareke, M: 869
Tarigan, I.U: 869,866
Tariku, M.K: 867,866
Tariqujjaman, M: 866
Tarkang, E.E: 866
Tat, N.Y: 869,865
Tat, V.Y: 869,867,865
Tavakoli Oliaee, R: 869
Tavakoli Oliaee, R.T: 866
Tavangar, S: 865
Tavangar, S.M: 869,868,867,866
Tavasol, A: 869
Taveira, N: 865,866

2024 Published Papers

Taweepreda, W: 189,763,800
Tayal, A: 166,950
Tayal, C: 730
Tayal, V.K: 946
Tayal, Y: 686,1604,1732
Taysum, B: 1628
Tayyab, M: 623
Tebeje, T.M: 865
Tefera, Y.M: 869,865,866
Tehlan, U: 1080
Tehrani-Banihashemi, A: 869
Teimoori, M: 868,867,865
Temesgen, W.A: 869
Temperini, V: 906
Temsah, M: 865
Temsah, M-H: 869,868,867,866
Temsah, R.M.H: 865,867,866
Teotia, P: 1258
Teramoto, M: 869,868,867,865,866
Terefa, D.R: 867
Tesfaye, A.H: 869
Tesfaye, E.G: 869
Tesfaye, S.H: 865
Tesler, R: 869,867,866
Tevatia, A: 753,419
Teye-Kwadjo, E: 867,866
Thakali, O: 869
Thakran, K: 809
Thakur, A: 49,137,303,446,729,1756,1687
Thakur, D: 14,1389,1706
Thakur, G: 1713
Thakur, I: 1149
Thakur, R: 225,766,867,866
Thakur, S.N: 1619
Thakur, V: 255,1203,1486
Thakur, V.N: 571
Thangaraju, P: 869,868,867,865,866
Thankappan, K.R: 868,867,865,866
Thapa, R: 865,869
Thapa, S: 776,1397,1543,261,1169
Thapar, A: 31

2024 Published Papers

Thapar, R: 865,869,868,867
Thapliyal, K: 875
Tharani, K: 952
Tharwat, S: 867,866
Thayakaran, R: 868,867,866
Thimmappa, S.C: 467
Thirunavukkarasu, S: 868
Thomas, N: 868,867,865,866
Thomas, N.K: 869,868,866
Thomson, A.M: 866
Thrift, A.G: 865,869,866
Thukral, S: 827,1750,1444
Thum, C.C: 865
Thum, C.C.C: 868,866
Thygesen, L.C: 866
Tian, J: 865,866
Tian, Y: 168,817
Tibrewal, A: 1625
Tichopad, A: 868,867,865,866
Ticoalu, J.H.V: 869,867,865,866
Tiecheng, X: 938
Tillawi, T: 869,868,866
Tin, K.K: 189,763,800
Tiruye, T.Y: 865,868,867,866
Titova, M.V: 867,866
Tiwari, A: 71,429,885,1768,291
Tiwari, A.K: 123,434,1453
Tiwari, C: 1768
Tiwari, K.C: 1078,777,1458,1531,97,553
Tiwari, M.K: 1376
Tiwari, N: 1500,241
Tiwari, R.K: 661
Tiwari, S: 970,1347
Tiwari, U: 821
Tiwary, J.K: 982
Tobe-Gai, R: 868
Toghroli, R: 869
Tohidast, S: 865
Tokas, V: 1593
Tomar, B: 304,1284,1403,1447
Tomar, D: 1112

2024 Published Papers

Tomar, M: 1637
Tomar, V.S: 210,1485
Tomer, D.S: 30,529,714
Tonelli, M: 865,869,868,867,866
Topor-Madry, R: 868,866
Toprakseven, S: 154
Toprakseven, ?: 222
Toriola, A.T: 866
Toroudi, H.P: 865,868,867
Torre, A.E: 868,866
Toshwal, M: 909
Touvier, M: 868,865,866
Tovani-Palone, M.R: 865,869,868,867,866
Traini, E: 869,867
Tram, K: 865
Tran, J.T: 868,867,866
Tran, M.T.N: 868
Tran, N-H: 869,868
Tran, N.M: 869,868,867,865,866
Tran, V.D: 542
Trico, D: 868,865,866
Trihandini, I: 865,867
Tripathi, A: 36,333
Tripathi, A.M: 912
Tripathi, K: 1426
Tripathi, M.M: 1460,67,667,1237,1244
Tripathi, N.M: 181
Tripathi, R: 397,608,1129,1579
Tripathi, R.M: 887
Tripathi, R.N: 831
Trivedi, A: 483,499,1006,972,1202,1343,1550
Trivedi, A.K: 1189
Trivedi, D.K: 1002
Trivedi, R: 201,173
Tromans, S.J: 869,868,867,865,866
Truelsen, T.C: 869
Truong, T.H: 542
Truong, V.T: 865
Truyen, T.T: 865
Truyen, T.T.T.T: 869,868,867,866
Tsatsakis, A: 869,868,867,866

2024 Published Papers

Tsegay, G.M: 869,868,866
Tsermpini, E: 865
Tsermpini, E.E: 869,868,867,866
Tualeka, A.R: 869
Tufa, D.G: 869
Tuljapurkar, V: 1531
Tumurkhuu, M: 865,868,867,866
Tung, K: 865,866
Tuteja, M: 807
Tyagi, A: 69,117,196,353,382,862,398,987
Tyagi, M: 1311,741,1746,1745
Tyagi, N: 1438
Tyagi, R.S: 993,1423
Tyagi, S.K: 1157
Tyagi, V: 1269
Tyagi, Y.K: 1599,1187
Tyrovolas, S: 865,868,867,866
Tzimos, D: 379
Ubah, C.S: 865,869
Uddin, S.M.N: 867,866
Udoakang, A.J: 865,869,867,866
Udoh, A: 868,867,865,866
Ulhaq, I: 869,865
Ullah, A: 867,866
Ullah, I: 866
Ullah, S: 865866867
Umair, M: 865,869,868
Umakanthan, S: 869,868,867,866
Umamaheswari, N: 1010,1495
Umapathi, K.K: 869
Umar, T: 865
Umar, T.P: 868
Umeokonkwo, C.D: 867,865,866
Umesh, A: 865
Undurraga, E.A: 868
Unim, B: 865,869,868,867,866
Unnikrishnan, B: 865,869,868,867,866
Unsworth, C.A: 868,866
Upadhyay, A: 758
Upadhyay, E: 868,867,865,866
Upadhyay, P: 374

2024 Published Papers

Upadhyay, S.K: 1443
Upadhyaya, A: 1268
Upadhyaya, S: 538,1396
Upreti, G: 1712
Upreti, K: 291
Ur Rahman, M.H: 868,867
Urooj, S: 506
Urso, D: 865,868,866
Usham, D: 36
Usman, J.S: 868,867,866
Vacante, M: 865,867
Vahabi, S.M: 868,867,866
Vahdani, A.M: 865
Vaibhavi, Agrawal, S: 239
Vaish, A: 102
Vaishali, K: 868,867,866
Vaithinathan, A.G: 869,868,867,865,866
Vajargah, P.G: 865
Vakilian, A: 869
Valizadeh, R: 869,867,865,866
Valluru, S.K: 815,816,1511,1762,162
Van De Velde, S.M: 866
Van Den Eynde, J: 867,869,868,866
Van Der Tak, F: 1628
Van Kempen, T.A: 1628
Van Tran, P: 869
Varavikova, E: 867,865
Vardanjani, H.M: 867
Varga, O: 868,867,865,866
Vargas, F: 776
Varghese, R.B: 306
Varma, A: 742
Varma, R.P: 868
Varma, S.A: 865
Varnosfaderani, M.P: 865
Varshney, A: 163,177
Varshney, D: 1155
Varshney, G: 138,786,1371
Varshney, M: 616
Varshney, P: 1386
Vart, P: 869,868,867,865,866

2024 Published Papers

Varthya, S.B: 865,869,867,866
Varuvel, E.G: 1160
Vasankari, T.J: 869,868,867,865,866
Vashishth, S: 487,1594
Vashishtha, G: 230
Vashist, M: 90,298
Vasic, M: 868,866
Vasisht, G: 1628
Vats, S: 848
Vaziri, S: 869,868,866
Vecchia, C.L: 868,867,865
Veeramani, H: 776,1543
Veerman, L.J: 865
Vellingiri, B: 869,868,867,866
Veloz, A.F.V: 869
Venkateswarlu, M: 389,1733,1029,1233,617,390
Venkateswarulu, M: 978,1535,1020
Venketasubramanian, N: 865,869,868,866
Venugopal, D: 867,865
Vera Ticoalu, J.H: 868
Verghese, N.A: 865,867,866
Verma, A: 316,1555,402,1112,962,668,1426
Verma, B: 1734,397,836,1129,1579
Verma, D: 1713
Verma, H.V: 343
Verma, J.K: 1663
Verma, K: 559,562,789,1248,1607,1563
Verma, L: 15
Verma, M: 289,540,249,1265,1618,960,1286,291,616,1421,1687,867,865,866,1048
Verma, N: 162,241,576,1744,823,898
Verma, O.P: 376,603,604,321,1126,1241,1245,1675
Verma, P: 308,378,1634,865,161
Verma, R: 265,1563
Verma, S: 425,558,695,773,1176,1181,1635,1721,1154,1440,1460,1753,379
Verma, T: 1480
Verma, V: 326,837
Veroux, M: 865,868,867,866
Verras, G: 865
Verras, G-I: 869,868,867,866
Vervoort, D: 865,869,868,867,866
Vichitra, C: 1382

2024 Published Papers

Vidushi: 1621

Vidya, S: 1322

Vieira, R: 865

Vieira, R.J: 865

Vij, A: 1699

Vijay Kumar, T: 134

Vijaya Kumar, T: 1087

Vikas, Jayasimhadri, M: 1232

Vikas, M: 391

Vikram, P.K: 706

Villafane, J.H: 869,866

Villafañe, J.H: 868,867,865

Villani, L: 865,869

Villanueva, G.I: 865,866

Villeneuve, P.J: 865

Vinay, D: 966

Vinay, R: 1372

Vinayak, M: 867,866

Violante, F.S: 865,868,867,866

Vipin: 976,139,145,372,1260,1672

Vipin, Agarwal, A: 271,722,1577

Vipin, Gopal, A: 750

Vipin, V: 1247,1025

Vipin, Vedabouriswaran, G: 1107

Vishnoi, M: 292,634,974,1090,1400

Vishnu, K: 492

Vishnu, S: 575

Vishwakarma, D.K: 13,104,258,478,133,143,165,167,373,493,775,929,1180,1377,1493,1620,1657,91,203,316,599,814,907,92

Vishwakarma, M: 867

Vishwakarma, V.P: 276

Vishwas, P: 1078

Viskadourou, M: 869,866

Visontay, R: 865

Viswanadha, K: 1097

Vladimirov, S.K: 869,867,866

Vlassov, V: 869,868,867,865,866

Vo, B: 867,865,866

Vohora, D: 860

Vohra, R: 1742,1743,1078

Vollset, S: 865

Vollset, S.E: 868,866,867

2024 Published Papers

Volovat, S.R: 869,868,867,865
Volovici, V: 865
Vongpradith, A: 865,868,866
Vos, T: 865,869,868,867,866
Vu, L.T: 869
Vujcic, I.S: 869,865,867,866
Vukovic, R: 865,866
Vyapak, V: 163
Vyas, R: 883
Wadehra, S: 1527
Wadhwa, J: 244
Wado, Y.D: 865
Wafa, H.A: 865,867,866
Wagaye, B: 869
Wagri, N.K: 800
Wahab Hashmi, A: 168
Waheed, Y: 869,868,867,865,866
Wahood, W: 869
Wakwoya, E.B: 867
Walde, M.T: 869
Walia, A: 1361
Walia, G.S: 227,1660,1477
Walia, R.S: 1746,723,745,741,1745
Wamai, R.G: 865,866
Wang, C: 865,868,867,866
Wang, D: 865,867
Wang, F: 869,868,867,865
Wang, H.S: 1628
Wang, N: 868,866
Wang, S: 865866869868867
Wang, Y: 865,869,868,867,866
Wang, Y-P: 869,868,867,866
Wangchuk, S: 293,1354
Waqas, M: 869,866
Ward, P: 865,868,867,866
Waris, A: 869
Warkar, S.G: 63,83,273,332,564,979,1338,1598,916,785,461,501,557,788,1369,1595,1610,791,1597
Wassie, E.G: 868,867,866
Watson, S: 865,867,866
Watson, S.L.W: 866
Wattal, R: 1322,740,802,1091,936,977,1088,1109,1150

2024 Published Papers

Weaver, M.R: 865,868,867
Weaver, N.D: 865
Weerakoon, K.G: 869,868,867,865,866
Wei, M.Y: 866
Weintraub, R.G: 869,868,866
Weiss, D.J: 865,868,867,866
Weldemariam, A.H: 865,869,868
Wells, K.M: 865,868,867
Wen, Y: 865
Wen, Y.F: 868,867
Werdecker, A: 865
Westerman, R: 869,867,865,866
Whig, P: 1071,284
Whisnant, J.L: 869,868,866
Whiteford, H.A: 868
Wiangkham, T: 868,867,866
Wickramasinghe, D.P: 869,865,868,867,866
Wickramasinghe, N.D: 869,868,867,865,866
Wijeratne, T: 865
Wilandika, A: 868,866
Wilkerson, C: 868,866
Willeit, P: 868,867,866
Willekens, B: 869
Wilner, L.B: 869
Wilson, S: 865,866
Wimo, A: 868
Winkler, A.S: 869
Wojewodzic, M.W: 865,866
Woldegebreal, D.H: 868,866
Wolf, A.W: 868,866
Wolfe, C.D.A: 869,866
Wondimagegene, Y.A: 867,866
Wong, K: 896
Wong, Y.J: 868,866
Wongsin, U: 866
Wool, E.E: 865,866
Woolf, A.D: 868,865
Wordsworth, R: 1628
Wu, A-M: 869,866
Wu, C: 868,866
Wu, D: 865

2024 Published Papers

Wu, F: 868,867,866
Wu, H: 1269,942
Wu, X: 868,866
Wu, Z: 868,866
Wulandari, R.D: 865
Wulf Hanson, S: 869
Wyatt, M: 1628
Xia, J: 867,866
Xia, Y: 868
Xiao, H: 868,867,865,866
Xie, Y: 866
Xing, J: 1387
Xu, B: 1387,865
Xu, G: 867
Xu, S: 869,867,866
Xu, W-D: 866
Xu, X: 865,869,868,867,866
Xu, Y.Y: 868,866
Yadav, A: 167,195,485,493,952,1657,1691,907,69,402
Yadav, A.K: 188,754,1614,1255
Yadav, A.S: 326
Yadav, B.S: 349,350
Yadav, D: 1211
Yadav, E: 1597,420
Yadav, G: 352,1405,1605,179,534,700
Yadav, J: 302,1742,860
Yadav, K: 16,768,986
Yadav, L: 865,868
Yadav, M: 256,713,828,1542,181,1115
Yadav, N: 1104,1599,1317
Yadav, O: 1706
Yadav, P: 12,83,273,322,332,564,698,1292,1450,618,1220,1224
Yadav, P.S: 86,87,748,942,1193,21,1137,542,120
Yadav, R: 73,75,149,1404,1514,1238,1145,1415,1442,1077,549,550,761,166,631,950,218
Yadav, R.D: 621
Yadav, R.K: 414,170,548,650,781,919,1470,1664
Yadav, S: 279,460,570,572,574,593,804,851,897,937,1162,1234,1331,1339,1350,1359,1564,1578,430,476,719,984,1329,1411
Yadav, S.K: 754
Yadav, S.S: 1068
Yadav, T: 1086,1415
Yadav, V: 658

2024 Published Papers

Yadav, V.K: 19,39,213,488,1243,1277,1321,1417,1145,676,27,1112,469,745,902,946,1086,645
Yadeta, A: 1204
Yadollahpour, A: 869,868,867,866
Yaghoobpoor, S: 867
Yaghoobpour, T: 867
Yaghoubi, S: 869,868,867,865
Yahaya, Z.S: 867
Yahya, G: 869
Yamagishi, K: 869,868,866
Yang, D: 867,866
Yang, G: 1430
Yang, J: 1382,817
Yang, L: 865,869,868,867,866
Yano, Y: 869,868,867,865,866
Yao, Y: 869,868,865,866
Yaribeygi, H: 868,867,866
Yasa, M: 1498
Yasir, M: 938
Yazdanpanah, M.H: 868
Ye, P: 865,868,867,866
Yegon, P: 272,411,1254,1704
Yehualashet, S.S: 869,868,866
Yengejeh, R.J: 865
Yesera, G.E: 865
Yeshaneh, A: 869
Yesiltepe, M: 869,866
Yesodharan, R: 867,865
Yesuf, S.A: 865,868,867,866
Yezli, S: 868,867,866
Yi, L: 997
Yi, S: 869,866
Yigezu, A: 867,866
Yigit, A: 865
Yigit, V: 865
Yigzaw, Z.A: 868
Yingthawornsuk, T: 666
Yip, P: 865,867,866
Yirak, M.G: 840,1017,1205
Yismaw, M.B: 866
Yismaw, Y: 868,866
Yi?it, A: 868

2024 Published Papers

Yi?it, V: 868
Yi?it, A: 869,866
Yi?it, V: 869,866
Yon, D: 865
Yon, D.K: 869,868,867,866
Yonemoto, N: 869,868,867,865,866
Yoon, S-J: 866
You, Y: 865,869,867,866
Younis, M: 865
Younis, M.Z: 869,868,867,865,866
Yousefi, Z: 867,866
Youshanlouei, H.R: 869
Yu, C: 865,869,868,867,866
Yu, X: 925
Yu, Y: 868,867,866
Yuan, C-W: 867
Yuh, F.H: 866
Yusuf, H: 869,868
Yusuf, M: 168
Yuvaraj, N: 139,145,351,372,750,939,1025,1088,1150,1260,1565,1672,1107,1249
Yuvraj, N: 742,971,561
Zadey, S: 869,865,866
Zadnik, V: 865,866
Zafari, N: 865,867,866
Zahedi, M: 865,869
Zahid, M.H: 868
Zahid, M.N: 865
Zahir, M: 865
Zakham, F: 869,868,865,867,866
Zaki, L: 868
Zaki, M.E.S: 865
Zaki, N: 865,869,868,867,866
Zakzuk, J: 865
Zali, A: 869
Zamagni, G: 869,867,865
Zaman, B.A: 868,865
Zaman, S: 865
Zaman, S.B: 866
Zamora, N: 868,865,866
Zand, R: 865,869,868,866
Zandi, M: 865,867

2024 Published Papers

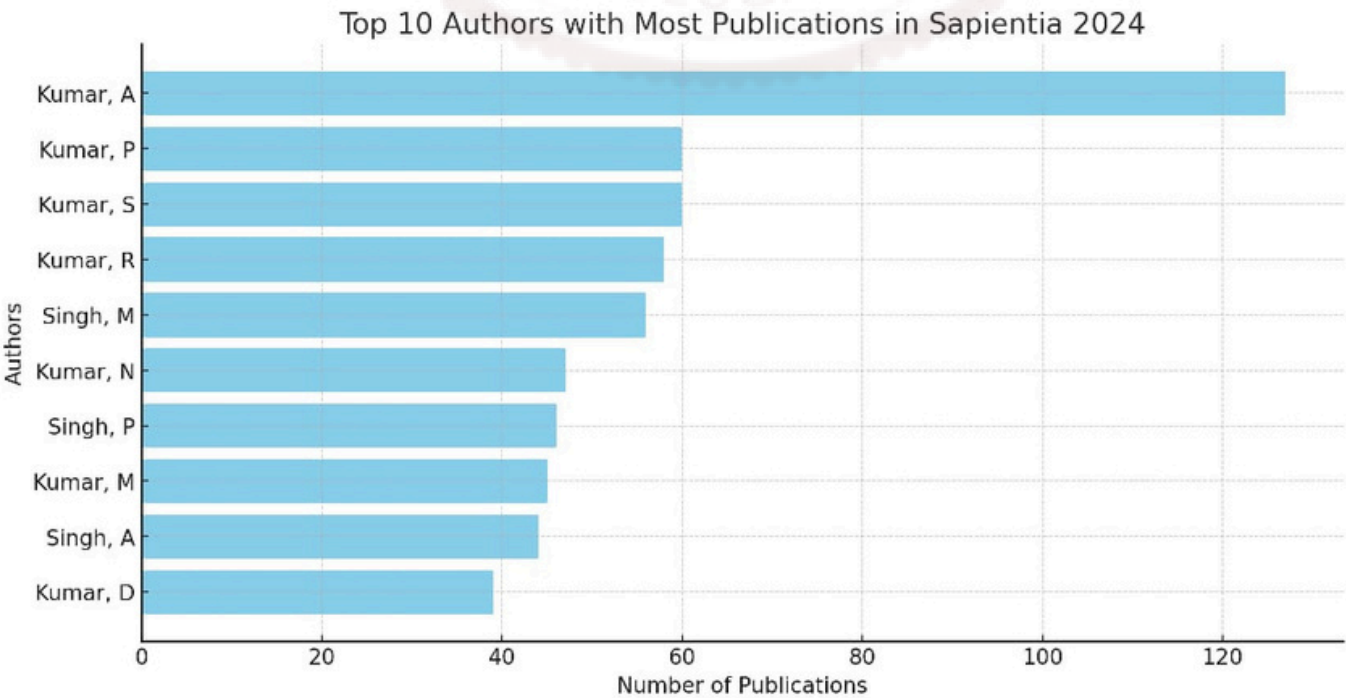
Zandieh, G.G.Z: 865,869,868,867
Zanghì, A: 865
Zangiabadian, M: 869,867,866
Zar, H.J: 868,866
Zare, I: 865,866
Zarghami, A: 869
Zarrintan, A: 868,866
Zastrozhin, M.S: 869,868,865,867
Zear, A: 1173
Zeariya, M.G.M: 869,865,866
Zegeye, Z.B: 869
Zeinali, Z: 866
Zeiri, N: 819
Zeng, Y: 865
Zeukeng, F: 869
Zeydi, A.E: 867,865
Zhai, C: 869,865
Zhang, C: 1496,1497,869,865
Zhang, H: 869,868,867,866
Zhang, H : 865
Zhang, J : 866
Zhang, L: 866
Zhang, M: 867
Zhang, N: 868
Zhang, Y: 869,868,867,865,866
Zhang, Z : 865
Zhang, Z-J: 869,866
Zhao, H: 869,868,865,866
Zhao, Y: 869
Zhao, Y : 865
Zheng, P: 865,869
Zhong, C: 865,868,867,866
Zhong, P: 868
Zhou, H: 869
Zhou, J: 868,867,865,866
Zhu, B: 869,867,866,865
Zhu, L: 867,866
Zhu, Z: 865,868
Zhumagaliuly, A: 869
Ziaeefar, P: 865
Ziafati, M: 868,866

2024 Published Papers

Zielinska, M: 865
Zielińska, M: 867
Zielińska, M: 869,868,866
Zikarg, Y.T: 869
Zimsen, S.R.M: 868
Zine, A: 519
Zitoun, O.A: 866
Ziya, F: 847
Zoladl, M: 869,868,866
Zou, Z: 865,867,866
Zuhlke, L.J: 866
Zulfequar, M: 786
Zumla, A: 865,868,866
Zunaid, M: 1198,605,1141,1143,1195,1276,1640,1647,1250
Zuñiga, R.A.A: 868,865
Zweck, E: 865,866
Zyoud, S.H: 865,868,867,866
Ärnlöv, J: 869,867
Šekerija, M: 866,865
Ščučka, J: 635

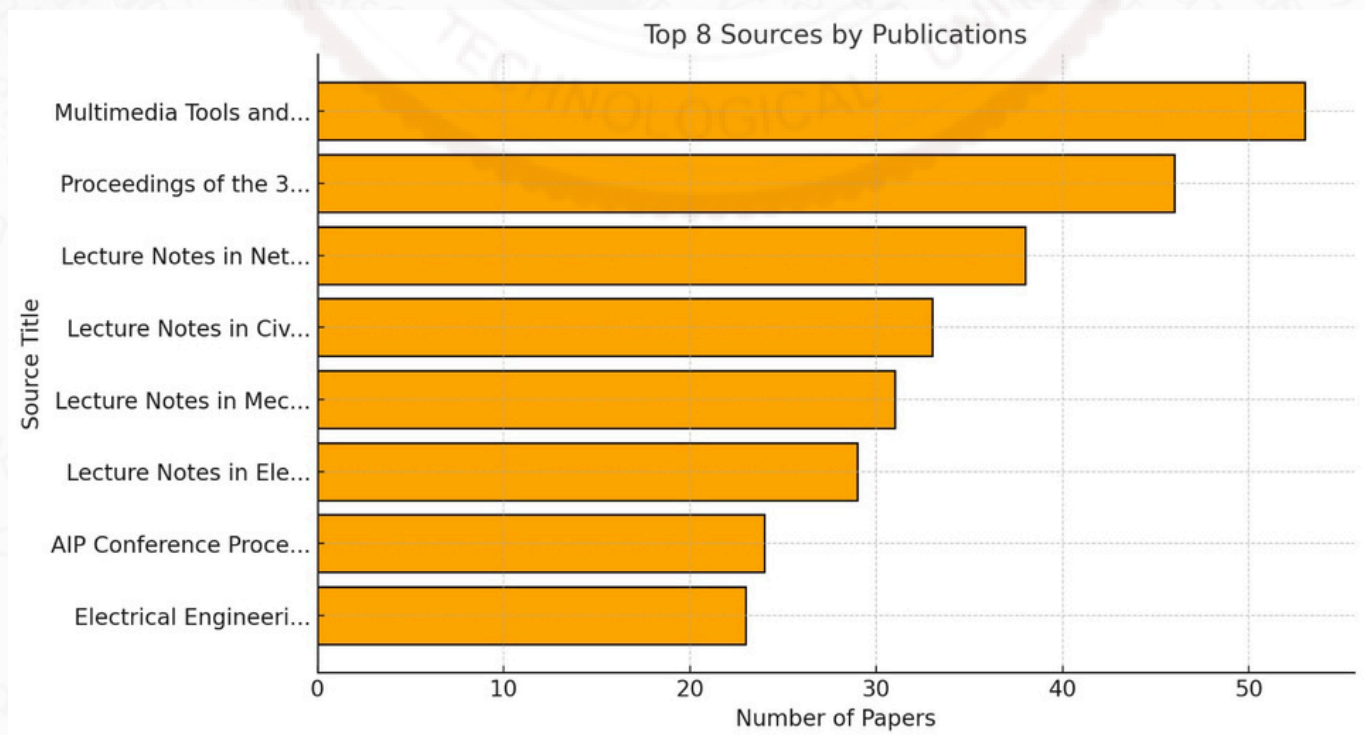
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Singh, A	44
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