

# Rashmi Bhardwaj

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2635169/publications.pdf>

Version: 2024-02-01

81  
papers

592  
citations

840776

11  
h-index

677142

22  
g-index

90  
all docs

90  
docs citations

90  
times ranked

515  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water quality management using statistical analysis and time-series prediction model. Applied Water Science, 2014, 4, 425-434.	5.6	73
2	River Water Prediction Modeling Using Neural Networks, Fuzzy and Wavelet Coupled Model. Water Resources Management, 2015, 29, 17-33.	3.9	60
3	Statistical, time series, and fractal analysis of full stretch of river Yamuna (India) for water quality management. Environmental Science and Pollution Research, 2015, 22, 397-414.	5.3	54
4	Water quality index and fractal dimension analysis of water parameters. International Journal of Environmental Science and Technology, 2013, 10, 151-164.	3.5	51
5	Wavelet and statistical analysis of river water quality parameters. Applied Mathematics and Computation, 2013, 219, 10172-10182.	2.2	42
6	Evaluation of statistical bias correction methods for numerical weather prediction model forecasts of maximum and minimum temperatures. Natural Hazards, 2014, 73, 1229-1254.	3.4	41
7	Bias-free rainfall forecast and temperature trend-based temperature forecast using T-170 model output during the monsoon season. Meteorological Applications, 2007, 14, 351-360.	2.1	21
8	Effect of perturbed potentials on the non-linear stability of libration point L <sub>4</sub> in the restricted problem. Celestial Mechanics and Dynamical Astronomy, 1994, 59, 345-374.	1.4	20
9	Forecasting quantitative rainfall over India using multi-model ensemble technique. Meteorology and Atmospheric Physics, 2014, 126, 31-48.	2.0	17
10	Real-time nowcast of a cloudburst and a thunderstorm event with assimilation of Doppler weather radar data. Natural Hazards, 2014, 70, 1357-1383.	3.4	16
11	Evolutionary Techniques for Optimizing Air Quality Model. Procedia Computer Science, 2020, 167, 1872-1879.	2.0	14
12	Data driven estimation of novel COVID-19 transmission risks through hybrid soft-computing techniques. Chaos, Solitons and Fractals, 2020, 140, 110152.	5.1	12
13	Nonlinear Time Series Analysis of Pathogenesis of COVID-19 Pandemic Spread in Saudi Arabia. Computers, Materials and Continua, 2020, 66, 805-825.	1.9	9
14	Analysis of Water Parameters Using Daubechies Wavelet (Level 5) (Db5). American Journal of Mathematics and Statistics, 2012, 2, 57-63.	0.1	8
15	Analysis and very short range forecast of cyclone "AILA" with radar data assimilation with rapid intermittent cycle using ARPS 3DVAR and cloud analysis techniques. Meteorology and Atmospheric Physics, 2014, 124, 97-111.	2.0	7
16	Recurrence quantification analysis of a three level trophic chain model. Heliyon, 2019, 5, e02182.	3.2	7
17	Variability analysis in PM <sub>2.5</sub> monitoring. Data in Brief, 2019, 24, 103774.	1.0	7
18	Development of model for sustainable nitrogen dioxide prediction using neuronal networks. International Journal of Environmental Science and Technology, 2020, 17, 2783-2792.	3.5	7

#	ARTICLE	IF	CITATIONS
19	Complex Dynamics of Meditating Body. Indian Journal of Industrial and Applied Mathematics, 2016, 7, 106.	0.1	7
20	Assimilation of Indian Doppler Weather Radar observations for simulation of mesoscale features of a land-falling cyclone. Natural Hazards, 2011, 59, 1339-1355.	3.4	6
21	Assimilation of Doppler Weather Radar Data in WRF Model for Simulation of Tropical Cyclone Aila. Pure and Applied Geophysics, 2014, 171, 2043-2072.	1.9	6
22	Location specific forecasting of maximum and minimum temperatures over India by using the statistical bias corrected output of global forecasting system. Journal of Earth System Science, 2014, 123, 1171-1195.	1.3	6
23	Dynamic Indicator for the Prediction of Atmospheric Pollutants. Asian Journal of Water, Environment and Pollution, 2019, 16, 39-50.	0.5	6
24	Fractal, predictability index and variability in trends analysis of river-water dynamics. International Journal of River Basin Management, 2014, 12, 285-297.	2.7	5
25	Time series and predictability analysis of air pollutants in Delhi. , 2016, , .		5
26	Convection Dynamics of Nanofluids for Temperature and Magnetic Field Variations. Advances in Intelligent Systems and Computing, 2021, , 271-289.	0.6	5
27	Surface roughness effect on couple stress fluid lubricated Porous pivoted slider bearings. Journal of Information and Optimization Sciences, 2016, 37, 13-22.	0.3	4
28	Weather Forecasting using Soft Computing Techniques. , 2018, , .		4
29	Nonlinear dynamics for the spread of pathogenesis of COVID-19 pandemic. Journal of Infection and Public Health, 2021, 14, 817-831.	4.1	4
30	Accelerating order of convergence using secant type methods. Journal of Interdisciplinary Mathematics, 2017, 20, 417-426.	0.7	3
31	Stock Market Trend Analysis during Demonetization using Soft-Computing techniques. , 2018, , .		3
32	Application of intelligent computing to develop performance index algorithm as a multicriteria decision making tool. International Journal of Intelligent Networks, 2020, 1, 85-91.	7.8	3
33	Machine learned hybrid Gaussian analysis of COVID-19 pandemic in India. Results in Physics, 2021, 30, 104630.	4.1	3
34	Water Quality Analysis Using Artificial Intelligence Conjunction with Wavelet Decomposition. Advances in Intelligent Systems and Computing, 2020, , 107-123.	0.6	3
35	Chaotic Attitude Tumbling of Satellite in Magnetic Field. American Journal of Applied Sciences, 2006, 3, 2037-2041.	0.2	3
36	Satellite's Motion under the Effect of Magnetic Torque. American Journal of Applied Sciences, 2006, 3, 1899-1902.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Fractal analysis and machine-learned decision system for precision and smart farming. European Physical Journal: Special Topics, 2021, 230, 3955-3969.	2.6	3
38	Molecular and Immunohistochemical Cognizance of HPV16 in Oral Leukoplakia, Oral Squamous Cell Carcinoma and Oropharyngeal Squamous Cell Carcinoma. Head and Neck Pathology, 2021, 15, 882-892.	2.6	2
39	Neuronal Brownian dynamics for salinity of river basins™ water management. Neural Computing and Applications, 2021, 33, 11923-11936.	5.6	2
40	Recurrence analysis and synchronization of two resistively coupled Duffing-type oscillators. Nonlinear Dynamics, 2021, 104, 2127-2144.	5.2	2
41	Resonance in Satellite's Motion Under Air Drag. American Journal of Applied Sciences, 2006, 3, 2184-2189.	0.2	2
42	Predictability and Wavelet Analysis of Air Pollutants for Commercial and Industrial Regions in Delhi. Indian Journal of Industrial and Applied Mathematics, 2016, 7, 165.	0.1	2
43	Dispersion Analysis of Monthly Rainfall and Temperature Time Series, 1901–2015. Indian Journal of Industrial and Applied Mathematics, 2020, 11, 91.	0.1	2
44	Convection Dynamics of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles in Blood Fluid Flow. Indian Journal of Industrial and Applied Mathematics, 2018, 9, 23.	0.1	2
45	Modeling air quality index using optimized neuronal networks inspired by swarms. Environmental Engineering Research, 2021, 26, 200469-0.	2.5	2
46	Development of Epidemiological Modeling RD-Covid-19 of Coronavirus Infectious Disease and Its Numerical Simulation. Infosys Science Foundation Series, 2021, , 245-277.	0.6	1
47	Study and Analysis of Time Series of Weather Data of Classification and Clustering Techniques. Advances in Intelligent Systems and Computing, 2021, , 257-270.	0.6	1
48	Aerodynamic Torque exhibits non-resonance oscillation in satellite motion. Mathematica Applicanda, 2017, 44, .	0.0	1
49	Hybrid Fuzzified-PID Controller for non-linear Control Surfaces for DC Motor to Improve the Efficiency of Electric Battery Driven Vehicles. International Journal of Recent Technology and Engineering, 2019, 8, 2561-2568.	0.2	1
50	Dynamical Forensic Inference for Malware in IoT-Based Wireless Transmissions. Advances in Wireless Technologies and Telecommunication Book Series, 2020, , 51-79.	0.4	1
51	Assessment of Stock Prices Variation Using Intelligent Machine Learning Techniques for the Prediction of BSE. Advances in Intelligent Systems and Computing, 2020, , 159-166.	0.6	1
52	Hybrid Models for Weather Parameter Forecasting. Complexity, 2021, 2021, 1-17.	1.6	1
53	Hybridized wavelet neuronal learning-based modelling to predict novel COVID-19 effects in India and USA. European Physical Journal: Special Topics, 2022, , 1-18.	2.6	1
54	Fractal and variability analysis of simulations in ozone level due to oxides of nitrogen and sulphur. AIP Conference Proceedings, 2017, , .	0.4	0

#	ARTICLE	IF	CITATIONS
55	Chaotic Oscillation of Satellite due to Aerodynamic Torque. Advances in Astronomy, 2021, 2021, 1-12.	1.1	0
56	Improvement in Explicit Prediction of Water Quality Using Wavelet-Based LSSVR and M5pRT. Complexity, 2021, 2021, 1-16.	1.6	0
57	Dynamical Indicator of Human Body's Physical Endurance. Nepal Journal of Mathematical Sciences, 2021, 2, 25-34.	0.1	0
58	Study of slip velocity effect on performance of magnetic fluid flow. Indian Journal of Industrial and Applied Mathematics, 2013, 4, 108.	0.1	0
59	Chaos in Satellite Motion under Aerodynamic Torque. Indian Journal of Industrial and Applied Mathematics, 2013, 4, 68.	0.1	0
60	Statistical Bias Correction Methods for Numerical Weather Prediction Model (NWP) Forecasts of Maximum and Minimum Temperatures. Indian Journal of Industrial and Applied Mathematics, 2013, 4, 142.	0.1	0
61	Trend, Time Series, and Wavelet Analysis of River Water Dynamics. Springer Proceedings in Mathematics and Statistics, 2014, , 479-490.	0.2	0
62	Time Series, Trend and Wavelet Analysis of Water Parameters. Indian Journal of Industrial and Applied Mathematics, 2014, 5, 1.	0.1	0
63	Assimilation of Doppler Weather Radar Data in WRF Model for Numerical Simulation of Structure of Cyclone Aila (2009) of the Bay of Bengal at the Time of Landfall. , 2014, , 309-318.		0
64	Impact of Doppler Weather Radar Data on Numerical Simulation of Heavy Rainfall. Indian Journal of Industrial and Applied Mathematics, 2014, 5, 64.	0.1	0
65	Rotational Oscillation of Satellite in Elliptic Orbit under Magnetic Torque. Indian Journal of Industrial and Applied Mathematics, 2014, 5, 17.	0.1	0
66	Nonlinear Modelling of Competitive Ecosystem. Indian Journal of Industrial and Applied Mathematics, 2016, 7, 11.	0.1	0
67	On Nonlinear Dynamics, Chaos and Complexities. Indian Journal of Industrial and Applied Mathematics, 2016, 7, 270.	0.1	0
68	Surface Roughness Effect on Dynamics of Carbon Nanotube. Indian Journal of Industrial and Applied Mathematics, 2017, 8, 24.	0.1	0
69	Interactive of Atmospheric Components in Environmental Cycle. Indian Journal of Industrial and Applied Mathematics, 2017, 8, 167.	0.1	0
70	Dynamical Complexities of Non-linear Physical and Biological Systems. Indian Journal of Industrial and Applied Mathematics, 2017, 8, 133.	0.1	0
71	Saturn's Hyperion System Dynamics under the Influence of Aerodynamic Torque. Indian Journal of Industrial and Applied Mathematics, 2017, 8, 76.	0.1	0
72	Synchronisation of Satellite Motion Under the Influence of Aerodynamic Torque. Indian Journal of Industrial and Applied Mathematics, 2018, 9, 82.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Aerodynamic Torque Exhibits Resonance in Satellite Motion. Indian Journal of Industrial and Applied Mathematics, 2018, 9, 107.	0.1	0
74	Asymptotic Stability Analysis Applied to Price Dynamics. Indian Journal of Industrial and Applied Mathematics, 2018, 9, 186.	0.1	0
75	Time Delay Stabilizes Chaos Dynamics in Economic System. International Journal of Mathematics Trends and Technology, 2018, 53, 515-524.	0.1	0
76	Transient Weather Impact on Air Pollution. Indian Journal of Industrial and Applied Mathematics, 2019, 10, 139.	0.1	0
77	On Ecosystem Models, Chaos and Complexity. Indian Journal of Industrial and Applied Mathematics, 2019, 10, 118.	0.1	0
78	Chaos in Non-Linear Planar Oscillation of a Satellite in an Elliptic Orbit under the Influence of Aerodynamic Torque. Indian Journal of Industrial and Applied Mathematics, 2019, 10, 76.	0.1	0
79	Convection Dynamics of SiO <sub>2</sub> Nanofluid. Advances in Intelligent Systems and Computing, 2020, , 389-397.	0.6	0
80	Computational Linguistic Analysis of Retail E-Commerce. , 2020, , 371-380.		0
81	Effect of magnetic and temperature variation on Al <sub>2</sub> O <sub>3</sub> nanofluConvection. Mathematica Applicanda, 2020, 48, .	0.0	0