Sarita Gajbhiye Meshram

List of Publications by Year in Descending Order

79 papers	1,183 citations	21 h-index	31 g-index
83 ext. papers	1,578 ext. citations	3.1 avg, IF	5.48 L-index

#	Paper	IF	Citations
79	Assessing erosion prone areas in a watershed using interval rough-analytical hierarchy process (IR-AHP) and fuzzy logic (FL). *Stochastic Environmental Research and Risk Assessment*, **2022**, 36, 297	3.5	2
78	CGST: Provably Secure Lightweight Certificateless Group Signcryption Technique based on Fractional Chaotic Maps. *IEEE Access*, **2022**, 1-1	3.5	
77	Identification of critical watershed at risk of soil erosion using morphometric and geographic information system analysis. *Applied Water Science*, **2022**, 12, 1	5	2
76	Assessing and mapping recreation value as an ecosystem service in central part of Esfahan Province, Iran. *Arabian Journal of Geosciences*, **2022**, 15, 1	1.8	0
75	Identification of the Groundwater Potential Recharge Zones Using MCDM Models: Full Consistency Method (FUCOM), Best Worst Method (BWM) and Analytic Hierarchy Process (AHP). *Water Resources Management*, **2021**, 35, 4727	3.7	5
74	Application of entropy weighting method for urban flood hazard mapping. *Acta Geophysica*, **2021**, 69, 841-854	2.2	7
73	Soil erosion modeling of watershed using cubic, quadratic and quintic splines. *Natural Hazards*, **2021**, 108, 2701-2719	3	2
72	An effective mobile-healthcare emerging emergency medical system using conformable chaotic maps. *Soft Computing*, **2021**, 25, 8905-8920	3.5	8
71	A comparative study between dynamic and soft computing models for sediment forecasting. *Soft Computing*, **2021**, 25, 11005-11017	3.5	5
70	Impact of roof rain water harvesting of runoff capture and household consumption. *Environmental Science and Pollution Research*, **2021**, 28, 49529-49540	5.1	2
69	A robust smart card and remote user password-based authentication protocol using extended chaotic maps under smart cities environment. *Soft Computing*, **2021**, 25, 10037-10051	3.5	10
68	Using Improved TOPSIS and Best Worst Method in prioritizing management scenarios for the watershed management in arid and semi-arid environments. *Soft Computing*, **2021**, 25, 11363-11375	3.5	6
67	Comparative implementation between neuro-emotional genetic algorithm and novel ensemble computing techniques for modelling dissolved oxygen concentration. *Hydrological Sciences Journal*, **2021**, 66, 1584-1596	3.5	7
66	Fractional chaotic maps based short signature scheme under human-centered IoT environments. *Journal of Advanced Research*, **2021**, 32, 139-148	13	24
65	Iterative classifier optimizer-based pace regression and random forest hybrid models for suspended sediment load prediction. *Environmental Science and Pollution Research*, **2021**, 28, 11637-11649	5.1	15
64	A New Remote Fuzzy User Password Authentication Scheme Using Sub-tree for Cloud Computing. *International Journal of Circuits, Systems and Signal Processing*, **2021**, 15, 92-105	1.3	
63	River channel migration and land-use/land-cover change for Padma River at Bangladesh: a RS- and GIS-based approach. *International Journal of Environmental Science and Technology*, **2021**, 18, 3109-3126	3.3	3

62	Identification of Critical Watershed for Soil Conservation Using Game Theory-Based Approaches. *Water Resources Management*, **2021**, 35, 3105-3120	3.7	5
61	Comparison of land use/land cover change of fused image and multispectral image of landsat mission: a case study of Rajshahi, Bangladesh. *Environmental Earth Sciences*, **2021**, 80, 1	2.9	1
60	Simplified sediment yield index incorporating parameter stream length. *Environmental Earth Sciences*, **2021**, 80, 1	2.9	3
59	A Provably Secure Lightweight Subtree-Based Short Signature Scheme With Fuzzy User Data Sharing for Human-Centered IoT. *IEEE Access*, **2021**, 9, 3649-3659	3.5	6
58	An Efficient, Robust, and Lightweight Subtree-Based Three-Factor Authentication Procedure for Large-Scale DWSN in Random Oracle. *IEEE Systems Journal*, **2021**, 1-12	4.3	3
57	OOS-SSS: An Efficient Online/Offline Subtree-Based Short Signature Scheme Using Chebyshev Chaotic Maps for Wireless Sensor Network. *IEEE Access*, **2020**, 8, 80063-80073	3.5	13
56	Probabilistic estimation of design runoff curve number: a case study for Shakkar river watershed, India. *International Journal of Hydrology Science and Technology*, **2020**, 10, 302	1.5	1
55	An efficient ID-based cryptographic technique using IFP and GDLP. *Security and Privacy*, **2020**, 3, e119	1.8	0
54	Predicting the Impacts of Optimal Residential Development Scenario on Soil Loss Caused by Surface Runoff and Raindrops Using TOPSIS and WetSpa Models. *Water Resources Management*, **2020**, 34, 3257-3277	3.7	6
53	Long-term temperature trend analysis associated with agriculture crops. *Theoretical and Applied Climatology*, **2020**, 140, 1139-1159	3	29
52	An efficient key authentication procedure for IND-CCA2 secure Paillier-based cryptosystem. *Soft Computing*, **2020**, 24, 6531-6537	3.5	3
51	An Efficient Mobile-Healthcare Emergency Framework. *Journal of Medical Systems*, **2020**, 44, 58	5.1	5
50	A subtree-based transformation model for cryptosystem using chaotic maps under cloud computing environment for fuzzy user data sharing. *International Journal of Communication Systems*, **2020**, 33, e4307	1.7	11
49	. *IEEE Systems Journal*, **2020**, 1-9	4.3	4
48	Application of SAW and TOPSIS in Prioritizing Watersheds. *Water Resources Management*, **2020**, 34, 715-732	3.7	43
47	Application of Artificial Neural Networks, Support Vector Machine and Multiple Model-ANN to Sediment Yield Prediction. *Water Resources Management*, **2020**, 34, 4561-4575	3.7	21
46	Relationship between landslide and morpho-structural analysis: a case study in Northeast of Morocco. *Applied Water Science*, **2020**, 10, 1	5	5
45	An effective dynamic runoff-sediment yield modeling for Shakkar watershed, Central India. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	2

44	Mapping of soil sensitivity to water erosion by RUSLE model: case of the Inaouene watershed (Northeast Morocco). *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	7
43	The Feasibility of Multi-Criteria Decision Making Approach for Prioritization of Sensitive Area at Risk of Water Erosion. *Water Resources Management*, **2020**, 34, 4665-4685	3.7	12
42	Hybrid modelling approach for water body change detection at Chalan Beel area in northern Bangladesh. *Environmental Earth Sciences*, **2020**, 79, 1	2.9	4
41	Predicting reservoir volume reduction using artificial neural network. *Arabian Journal of Geosciences*, **2020**, 13, 1	1.8	6
40	Pragmatic approach for prioritization of flood and sedimentation hazard potential of watersheds. *Soft Computing*, **2020**, 24, 15701-15714	3.5	17
39	New Approach for Sediment Yield Forecasting with a Two-Phase Feedforward Neuron Network-Particle Swarm Optimization Model Integrated with the Gravitational Search Algorithm. *Water Resources Management*, **2019**, 33, 2335-2356	3.7	30
38	Comparison of AHP and fuzzy AHP models for prioritization of watersheds. *Soft Computing*, **2019**, 23, 13615-13625	3.5	49
37	An identity-based encryption technique using subtree for fuzzy user data sharing under cloud computing environment. *Soft Computing*, **2019**, 23, 13127-13138	3.5	16
36	An efficient ID-based cryptographic transformation model for extended chaotic-map-based cryptosystem. *Soft Computing*, **2019**, 23, 6937-6946	3.5	24
35	River flow prediction using hybrid PSOGSA algorithm based on feed-forward neural network. *Soft Computing*, **2019**, 23, 10429-10438	3.5	38
34	An efficient online/offline ID-based short signature procedure using extended chaotic maps. *Soft Computing*, **2019**, 23, 747-753	3.5	26
33	Monthly long-term rainfall estimation in Central India using M5Tree, MARS, LSSVR, ANN and GEP models. *Neural Computing and Applications*, **2019**, 31, 6843-6862	4.8	28
32	Application of Principal Component Analysis for Grouping of Morphometric Parameters and Prioritization of Watershed. *Water Science and Technology Library*, **2018**, 447-458	0.3	8
31	Drought analysis in the Tons River Basin, India during 1969-2008. *Theoretical and Applied Climatology*, **2018**, 132, 939-951	3	12
30	Application of cubic spline in soil erosion modeling from Narmada Watersheds, India. *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	11
29	What Is the Potential of Integrating Phase Space Reconstruction with SVM-FFA Data-Intelligence Model? Application of Rainfall Forecasting over Regional Scale. *Water Resources Management*, **2018**, 32, 3935-3959	3.7	23
28	Trend analysis of rainfall pattern over the Central India during 1901–2010. *Arabian Journal of Geosciences*, **2018**, 11, 1	1.8	24
27	Statistical evaluation of rainfall time series in concurrence with agriculture and water resources of Ken River basin, Central India (1901–2010). *Theoretical and Applied Climatology*, **2018**, 134, 1231-1243	3	31

26	Spatio-temporal analysis of daily, seasonal and annual precipitation concentration in Jharkhand state, India. *Stochastic Environmental Research and Risk Assessment*, **2018**, 32, 1085-1097	3.5	31
25	Comparison of cubic, quadratic, and quintic splines for soil erosion modeling. *Applied Water Science*, **2018**, 8, 1	5	12
24	Efficient online/offline IBSS protocol using partial discrete logarithm for WSNs. *IET Networks*, **2018**, 7, 363-367	2.8	11
23	Prioritization of watershed through morphometric parameters: a PCA-based approach. *Applied Water Science*, **2017**, 7, 1505-1519	5	85
22	Application of remote sensing and geographical information system for generation of runoff curve number. *Applied Water Science*, **2017**, 7, 1773-1779	5	12
21	Long-term trend and variability of precipitation in Chhattisgarh State, India. *Theoretical and Applied Climatology*, **2017**, 129, 729-744	3	48
20	Modelling soil erosion from a watershed using cubic splines. *Arabian Journal of Geosciences*, **2017**, 10, 1	1.8	10
19	Trend analysis of precipitation in Jharkhand State, India. *Theoretical and Applied Climatology*, **2017**, 130, 261-274	3	44
18	Piecewise Regression Using Cubic Spline-A Case Study. *International Journal of Hybrid Information Technology*, **2017**, 10, 75-84		3
17	An IND-ID-CPA Secure ID-Based Cryptographic Protocol using GDLP and IFP. *Informatica*, **2017**, 28, 471-484	2.9	16
16	Trend analysis of rainfall time series for Sindh river basin in India. *Theoretical and Applied Climatology*, **2016**, 125, 593-608	3	59
15	Development of a geomorphological erosion index for Shakkar watershed. *Journal of the Geological Society of India*, **2015**, 86, 361-370	1.3	11
14	Simplified sediment yield index model incorporating parameter curve number. *Arabian Journal of Geosciences*, **2015**, 8, 1993-2004	1.8	30
13	Prioritizing erosion-prone area through morphometric analysis: an RS and GIS perspective. *Applied Water Science*, **2014**, 4, 51-61	5	90
12	Hypsometric analysis of Shakkar river catchment through geographical information system. *Journal of the Geological Society of India*, **2014**, 84, 192-196	1.3	16
11	Relationship between SCS-CN and Sediment Yield. *Applied Water Science*, **2014**, 4, 363-370	5	33
10	Estimation of design runoff curve numbers for Narmada watersheds (India). *Journal of Applied Water Engineering and Research*, **2013**, 1, 69-79	1.2	24
9	To assess the impacts of climate change on runoff in Golestan Province, Iran. *Natural Hazards*,1	3	1

8	A Multi-Layer Perceptron (MLP)-Fire Fly Algorithm (FFA)-based model for sediment prediction. *Soft Computing*,1	3.5	2
7	Conformal Chebyshev chaotic map-based remote user password authentication protocol using smart card. *Complex & Intelligent Systems*,1	7.1	1
6	Streamflow Prediction Based on Artificial Intelligence Techniques. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*,1	1.1	6
5	Flood Mapping Using Multi-temporal Sentinel-1 SAR Images: A Case Study haouene Watershed from Northeast of Morocco. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*,1	1.1	4
4	Role and Concept of Rooftop Disconnection in Terms of Runoff Volume and Flood Peak Quantity. *International Journal of Environmental Research*,1	2.9	1
3	An efficient authentication with key agreement procedure using Mittag efflerChebyshev summation chaotic map under the multi-server architecture. *Journal of Supercomputing*,1	2.5	5
2	Combined use of Sentinel-2 and Landsat-8 to monitor water surface area and evaluated drought risk severity using Google Earth Engine. *Earth Science Informatics*,1	2.5	3
1	An efficient remote user authentication with key agreement procedure based on convolution-Chebyshev chaotic maps using biometric. *Journal of Supercomputing*,1	2.5	0