

Manoj Jain

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,736
citations

23
h-index

39
g-index

85
ext. papers

1,951
ext. citations

2.4
avg, IF

5.06
L-index

#	Paper	IF	Citations
81	Delineation of Flood-Prone Areas Using Remote Sensing Techniques. <i>Water Resources Management</i> , 2005 , 19, 333-347	3.7	164
80	Estimation of Sediment Yield and Areas of Soil Erosion and Deposition for Watershed Prioritization using GIS and Remote Sensing. <i>Water Resources Management</i> , 2010 , 24, 2091-2112	3.7	95
79	Evaluation of the SCS-CN-Based Model Incorporating Antecedent Moisture. <i>Water Resources Management</i> , 2004 , 18, 567-589	3.7	87
78	An unconditionally stable alternating direction implicit scheme for the two space dimensional linear hyperbolic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2001 , 17, 684-688	2.5	87
77	An Improved I a S Relation Incorporating Antecedent Moisture in SCS-CN Methodology. <i>Water Resources Management</i> , 2006 , 20, 643-660	3.7	83
76	An Unconditionally Stable ADI Method for the Linear Hyperbolic Equation in Three Space Dimensions. <i>International Journal of Computer Mathematics</i> , 2002 , 79, 133-142	1.2	79
75	An advanced soil moisture accounting procedure for SCS curve number method. <i>Hydrological Processes</i> , 2007 , 21, 2872-2881	3.3	69
74	A Rain Duration and Modified AMC-dependent SCS-CN Procedure for Long Duration Rainfall-runoff Events. <i>Water Resources Management</i> , 2008 , 22, 861-876	3.7	58
73	Catchment area-based evaluation of the AMC-dependent SCS-CN-based rainfall-runoff models. <i>Hydrological Processes</i> , 2005 , 19, 2701-2718	3.3	56
72	Enhanced Runoff Curve Number Model Incorporating Storm Duration and a Nonlinear I-a-S Relation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006 , 11, 631-635	1.8	47
71	Investigation of multi-model spatiotemporal mesoscale drought projections over India under climate change scenario. <i>Journal of Hydrology</i> , 2018 , 567, 489-509	6	47
70	Error estimates for Gauss quadrature formulas for analytic functions. <i>Mathematics of Computation</i> , 1968 , 22, 82-82	1.6	44
69	Development of a Modified SMA Based MSCS-CN Model for Runoff Estimation. <i>Water Resources Management</i> , 2015 , 29, 4111-4127	3.7	40
68	Comparison of AMC-dependent CN-conversion Formulae. <i>Water Resources Management</i> , 2008 , 22, 1409-1420	3.7	36
67	A fourth order difference method for the one-dimensional general quasilinear parabolic partial differential equation. <i>Numerical Methods for Partial Differential Equations</i> , 1990 , 6, 311-319	2.5	36
66	Spatio-temporal assessment of vulnerability to drought. <i>Natural Hazards</i> , 2015 , 76, 443-469	3	33
65	Field Applicability of the SCS-CN-Based MishraSingh General Model and its Variants. <i>Water Resources Management</i> , 2005 , 19, 37-62	3.7	33

64	Numerical solution of a fourth-order ordinary differential equation. <i>Journal of Engineering Mathematics</i> , 1977 , 11, 373-380	1.2	33
63	Hydrological Simulation in a Forest Dominated Watershed in Himalayan Region using SWAT Model. <i>Water Resources Management</i> , 2013 , 27, 3005-3023	3.7	32
62	Fourth-order difference methods for the system of 2D nonlinear elliptic partial differential equations. <i>Numerical Methods for Partial Differential Equations</i> , 1991 , 7, 227-244	2.5	32
61	Long-term hydrologic simulation using SCS-CN-based improved soil moisture accounting procedure. <i>Hydrological Processes</i> , 2011 , 25, 561-579	3.3	30
60	Single cell finite difference approximations of $O(kh^2 + h^4)$ for $\nabla^2 u$ for one space dimensional nonlinear parabolic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2000 , 16, 408-415	2.5	25
59	A fourth-order difference method for elliptic equations with nonlinear first derivative terms. <i>Numerical Methods for Partial Differential Equations</i> , 1989 , 5, 87-95	2.5	24
58	Fourth-order finite difference method for three-dimensional elliptic equations with nonlinear first-derivative terms. <i>Numerical Methods for Partial Differential Equations</i> , 1992 , 8, 575-591	2.5	23
57	Evaluation of AMC-Dependent SCS-CN-Based Models Using Watershed Characteristics. <i>Water Resources Management</i> , 2006 , 20, 531-552	3.7	22
56	Multivariate Modeling of Projected Drought Frequency and Hazard over India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 04020003	1.8	20
55	Technical note: The numerical solution of the system of 3-D nonlinear elliptic equations with mixed derivatives and variable coefficients using fourth-order difference methods. <i>Numerical Methods for Partial Differential Equations</i> , 1995 , 11, 187-197	2.5	20
54	Higher order difference formulas for a fourth order parabolic partial differential equation. <i>International Journal for Numerical Methods in Engineering</i> , 1976 , 10, 1357-1367	2.4	20
53	Spatiotemporal assessment of drought hazard, vulnerability and risk in the Krishna River basin, India. <i>Natural Hazards</i> , 2019 , 99, 611-635	3	19
52	P-stable methods for periodic initial value problems of second order differential equations. <i>BIT Numerical Mathematics</i> , 1979 , 19, 347-355	1.7	19
51	High-accuracy cubic spline alternating group explicit methods for 1D quasi-linear parabolic equations. <i>International Journal of Computer Mathematics</i> , 2009 , 86, 1556-1571	1.2	18
50	A modification of the stiefel-bettis method for nonlinearly damped oscillators. <i>BIT Numerical Mathematics</i> , 1988 , 28, 302-307	1.7	17
49	Impact of ENSO, Global Warming, and Land Surface Elevation on Extreme Precipitation in India. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 05019032	1.8	17
48	High accuracy difference schemes for a class of singular three space dimensional hyperbolic equations. <i>International Journal of Computer Mathematics</i> , 1995 , 56, 185-198	1.2	16
47	Unravelling the teleconnections between ENSO and dry/wet conditions over India using nonlinear Granger causality. <i>Atmospheric Research</i> , 2021 , 247, 105168	5.4	16

46	Assessment of precipitation extremes in India during the 21st century under SSP1-1.9 mitigation scenarios of CMIP6 GCMs. <i>Journal of Hydrology</i> , 2020 , 590, 125422	6	15
45	Effect of Climate Change on Runoff Generation: Application to Rift Valley Lakes Basin of Ethiopia. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 1048-1063	1.8	14
44	Linear stability analysis and fourth-order approximations at first time level for the two space dimensional mildly quasi-linear hyperbolic equations. <i>Numerical Methods for Partial Differential Equations</i> , 2001 , 17, 607-618	2.5	14
43	Fourth-order approximation for the three space dimensional certain mildly quasi-linear hyperbolic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2001 , 17, 277-289	2.5	11
42	A generalized relation between initial abstraction and potential maximum retention in SCS-CN-based model. <i>International Journal of River Basin Management</i> , 2006 , 4, 245-253	1.7	10
41	Mathematical Models for Prediction of Rheological Parameters of Pineapple Juice. <i>International Journal of Food Engineering</i> , 2008 , 4,	1.9	9
40	Another Look at Z-transform Technique for Deriving Unit Impulse Response Function. <i>Water Resources Management</i> , 2007 , 21, 1829-1848	3.7	9
39	Finite difference methods of order two and four for 2-d non-linear biharmonic problems of first kind. <i>International Journal of Computer Mathematics</i> , 1996 , 61, 155-163	1.2	9
38	Cubature method for the numerical solution of the characteristic initial value problem: $uxy = f(x, y, u, ux, Uy)$. <i>Journal of the Australian Mathematical Society</i> , 1968 , 8, 355-368		9
37	Optimization of microwave-vacuum drying of pomegranate arils. <i>Journal of Food Measurement and Characterization</i> , 2014 , 8, 398-411	2.8	8
36	Fourth-order finite difference method for 2D parabolic partial differential equations with nonlinear first-derivative terms. <i>Numerical Methods for Partial Differential Equations</i> , 1992 , 8, 21-31	2.5	8
35	Fifth order implicit multipoint method for solving equations. <i>BIT Numerical Mathematics</i> , 1985 , 25, 250-255		8
34	Numerical solution of linear differential equations and Volterra's integral equation using Lobatto quadrature formula. <i>Computer Journal</i> , 1967 , 10, 101-107	1.3	8
33	Relationship between Runoff Curve Number and PET. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014 , 19, 355-365	1.8	7
32	A compact discretization of $O(h^4)$ for two-dimensional nonlinear triharmonic equations. <i>Physica Scripta</i> , 2011 , 84, 025002	2.6	7
31	Fourth order operator splitting method for the three space parabolic equation with variable coefficients. <i>International Journal of Computer Mathematics</i> , 1994 , 50, 55-64	1.2	7
30	Fourth-order difference method for quasilinear Poisson equation in cylindrical symmetry. <i>Communications in Numerical Methods in Engineering</i> , 1994 , 10, 291-296		7
29	A fourth-order difference scheme for quasilinear poisson equation in polar co-ordinates. <i>Communications in Numerical Methods in Engineering</i> , 1994 , 10, 791-797		7

28	Difference schemes for second order hyperbolic equations. <i>International Journal for Numerical Methods in Engineering</i> , 1976 , 10, 960-964	2.4	7
27	Modelling of streamflow in snow dominated Budhigandaki catchment in Nepal. <i>Journal of Earth System Science</i> , 2018 , 127, 1	1.8	6
26	Identification of sediment source and sink areas in a Himalayan watershed using GIS and remote sensing. <i>Land Degradation and Development</i> , 2009 , 20, 623-639	4.4	6
25	Quadrature formulas for semi-infinite integrals. <i>Mathematics of Computation</i> , 1974 , 28, 499-499	1.6	5
24	The numerical solution of the two-dimensional unsteady navier-stokes equations using fourth-order difference method. <i>International Journal of Computer Mathematics</i> , 1991 , 39, 125-134	1.2	4
23	P-stable singlestep methods for periodic initial-value problems involving second-order differential equations. <i>Journal of Engineering Mathematics</i> , 1979 , 13, 317-326	1.2	4
22	Comparative study of two and three level ADI methods for parabolic equations with a mixed derivative. <i>International Journal for Numerical Methods in Engineering</i> , 1976 , 10, 1309-1315	2.4	4
21	Fitting a simplified two-parameter gamma distribution function for synthetic sediment graph derivation from ungauged catchments. <i>Arabian Journal of Geosciences</i> , 2013 , 6, 1835-1841	1.8	3
20	A new three-level implicit cubic spline method for the solution of 1D quasi-linear hyperbolic equations. <i>Computational Mathematics and Modeling</i> , 2013 , 24, 452-470	0.5	3
19	A Novel Numerical Method of for Three-Dimensional Non-Linear Triharmonic Equations. <i>Communications in Computational Physics</i> , 2012 , 12, 1417-1433	2.4	3
18	Single cell discretization of $O(kh^2 + h^4)$ for the estimates of $\{\partial u\over\partial n\}$ for the two-space dimensional quasi-linear parabolic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2001 , 17, 250-261	2.5	3
17	An efficient technique for exploring register file size in ASIP synthesis 2002 ,		3
16	A higher-order difference method for 3-D parabolic partial differential equations with nonlinear first derivative terms. <i>International Journal of Computer Mathematics</i> , 1991 , 38, 101-112	1.2	3
15	On the numerical integration of a singular two-point boundary value problem. <i>International Journal of Computer Mathematics</i> , 1990 , 31, 187-194	1.2	3
14	Analysis of Flexible Pavement Serviceability Using ANN for Urban Roads 2013 ,		2
13	Impact of Denial-of-Service in security protocols 2011 ,		2
12	Single-cell discretization of $O(kh^2 + h^4)$ for Δ/∇ for three-space dimensional mildly quasi-linear parabolic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2003 , 19, 327-342	2.5	2
11	Optimum Runge-Kutta Fehlberg Methods for First Order Differential Equations. <i>IMA Journal of Applied Mathematics</i> , 1971 , 8, 386-396	1	2

10	Reappraisal of hydrologic alterations in the Roanoke River basin using extended data and improved RVA method. <i>International Journal of Environmental Science and Technology</i> , 2021 , 18, 417-440	3.3	2
9	Higher Order Bairstow Method for Solving Polynomial Equation. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1971 , 51, 51-52	1	1
8	Optimum Runge-Kutta-Fehlberg Methods for Second-order Differential Equations. <i>IMA Journal of Applied Mathematics</i> , 1972 , 10, 202-210	1	1
7	Hydromagnetic Laminar Flow through Conducting Parallel Porous Walls. <i>Journal of the Physical Society of Japan</i> , 1967 , 22, 1255-1266	1.5	1
6	Multiscale investigation of precipitation extremes over Ethiopia and teleconnections to large-scale climate anomalies. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	1
5	A step towards mapping rainfall erosivity for India using high-resolution GPM satellite rainfall products. <i>Catena</i> , 2022 , 212, 106067	5.8	0
4	Complexity analyses of Godavari and Krishna river streamflow using the concept of entropy. <i>Acta Geophysica</i> ,1	2.2	0
3	Impact of climate change on runoff regime of the Godavari River in India. <i>Sustainable Water Resources Management</i> , 2022 , 8, 1	1.9	0
2	Multilevel difference schemes for the heat conduction equation and its application to the dirichlet problem in two and three dimensions. <i>Calcolo</i> , 1979 , 16, 157-180	1.5	
1	Throughput Performance of an IP Differentiated-Services Network for Video Communication. <i>Lecture Notes in Computer Science</i> , 2008 , 218-227	0.9	