

# Manoj Jain

## List of Publications by Year in descending order

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83  
papers

2,251  
citations

201385

27  
h-index

233125

45  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1698  
citing authors

#	ARTICLE	IF	CITATIONS
1	Delineation of Flood-Prone Areas Using Remote Sensing Techniques. <i>Water Resources Management</i> , 2005, 19, 333-347.	1.9	205
2	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.	1.9	129
3	Evaluation of the SCS-CN-Based Model Incorporating Antecedent Moisture. <i>Water Resources Management</i> , 2004, 18, 567-589.	1.9	103
4	An Improved I a S Relation Incorporating Antecedent Moisture in SCS-CN Methodology. <i>Water Resources Management</i> , 2006, 20, 643-660.	1.9	101
5	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.	2.0	96
6	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.	1.0	89
7	Investigation of multi-model spatiotemporal mesoscale drought projections over India under climate change scenario. <i>Journal of Hydrology</i> , 2018, 567, 489-509.	2.3	86
8	An advanced soil moisture accounting procedure for SCS curve number method. <i>Hydrological Processes</i> , 2007, 21, 2872-2881.	1.1	83
9	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.	1.9	66
10	Catchment area-based evaluation of the AMC-dependent SCS-CN-based rainfall-runoff models. <i>Hydrological Processes</i> , 2005, 19, 2701-2718.	1.1	65
11	Enhanced Runoff Curve Number Model Incorporating Storm Duration and a Nonlinear Ia-S Relation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 631-635.	0.8	57
12	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.	2.3	53
13	Development of a Modified SMA Based MSCS-CN Model for Runoff Estimation. <i>Water Resources Management</i> , 2015, 29, 4111-4127.	1.9	52
14	Spatio-temporal assessment of vulnerability to drought. <i>Natural Hazards</i> , 2015, 76, 443-469.	1.6	51
15	Error estimates for Gauss quadrature formulas for analytic functions. <i>Mathematics of Computation</i> , 1968, 22, 82-90.	1.1	49
16	Comparison of AMC-dependent CN-conversion Formulae. <i>Water Resources Management</i> , 2008, 22, 1409-1420.	1.9	46
17	Hydrological Simulation in a Forest Dominated Watershed in Himalayan Region using SWAT Model. <i>Water Resources Management</i> , 2013, 27, 3005-3023.	1.9	43
18	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.	2.0	41

#	ARTICLE	IF	CITATIONS
19	Multivariate Modeling of Projected Drought Frequency and Hazard over India. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	38
20	Field Applicability of the SCS-CN-Based Mishra?Singh General Model and its Variants. Water Resources Management, 2005, 19, 37-62.	1.9	37
21	Spatiotemporal assessment of drought hazard, vulnerability and risk in the Krishna River basin, India. Natural Hazards, 2019, 99, 611-635.	1.6	37
22	Numerical solution of a fourth-order ordinary differential equation. Journal of Engineering Mathematics, 1977, 11, 373-380.	0.6	36
23	Fourth-order difference methods for the system of 2D nonlinear elliptic partial differential equations. Numerical Methods for Partial Differential Equations, 1991, 7, 227-244.	2.0	36
24	Unravelling the teleconnections between ENSO and dry/wet conditions over India using nonlinear Granger causality. Atmospheric Research, 2021, 247, 105168.	1.8	36
25	Long-term hydrologic simulation using SCS-based improved soil moisture accounting procedure. Hydrological Processes, 2011, 25, 561-579.	1.1	35
26	Impact of ENSO, Global Warming, and Land Surface Elevation on Extreme Precipitation in India. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	31
27	A fourth-order difference method for elliptic equations with nonlinear first derivative terms. Numerical Methods for Partial Differential Equations, 1989, 5, 87-95.	2.0	29
28	Evaluation of AMC-Dependent SCS-CN-Based Models Using Watershed Characteristics. Water Resources Management, 2006, 20, 531-552.	1.9	29
29	Single cell finite difference approximations of $O(kh^2 + h^4)$ for $\frac{\partial u}{\partial x}$ for one space dimensional nonlinear parabolic equation. Numerical Methods for Partial Differential Equations, 2000, 16, 408-415.	2.0	27
30	Fourth-order finite difference method for three-dimensional elliptic equations with nonlinear first-derivative terms. Numerical Methods for Partial Differential Equations, 1992, 8, 575-591.	2.0	25
31	Higher order difference formulas for a fourth order parabolic partial differential equation. International Journal for Numerical Methods in Engineering, 1976, 10, 1357-1367.	1.5	24
32	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. Numerical Methods for Partial Differential Equations, 1995, 11, 187-197.	2.0	24
33	High-accuracy cubic spline alternating group explicit methods for 1D quasi-linear parabolic equations. International Journal of Computer Mathematics, 2009, 86, 1556-1571.	1.0	23
34	Effect of Climate Change on Runoff Generation: Application to Rift Valley Lakes Basin of Ethiopia. Journal of Hydrologic Engineering - ASCE, 2013, 18, 1048-1063.	0.8	23
35	P-stable methods for periodic initial value problems of second order differential equations. BIT Numerical Mathematics, 1979, 19, 347-355.	1.0	20
36	High accuracy difference schemes for a class of singular three space dimensional hyperbolic equations. International Journal of Computer Mathematics, 1995, 56, 185-198.	1.0	18

#	ARTICLE	IF	CITATIONS
37	Linear stability analysis and fourth-order approximations at first time level for the two space dimensional mildly quasi-linear hyperbolic equations. Numerical Methods for Partial Differential Equations, 2001, 17, 607-618.	2.0	18
38	A modification of the stiefel-bettis method for nonlinearly damped oscillators. BIT Numerical Mathematics, 1988, 28, 302-307.	1.0	17
39	A step towards mapping rainfall erosivity for India using high-resolution GPM satellite rainfall products. Catena, 2022, 212, 106067.	2.2	16
40	Cubature method for the numerical solution of the characteristic initial value problem. Journal of the Australian Mathematical Society, 1968, 8, 355-368.	0.3	13
41	Fourth-order approximation for the three space dimensional certain mildly quasi-linear hyperbolic equation. Numerical Methods for Partial Differential Equations, 2001, 17, 277-289.	2.0	13
42	Optimization of microwave-vacuum drying of pomegranate arils. Journal of Food Measurement and Characterization, 2014, 8, 398-411.	1.6	13
43	A generalized relation between initial abstraction and potential maximum retention in SCS-based model. International Journal of River Basin Management, 2006, 4, 245-253.	1.5	12
44	Numerical solution of linear differential equations and Volterra's integral equation using Lobatto quadrature formula. Computer Journal, 1967, 10, 101-107.	1.5	11
45	Fifth order implicit multipoint method for solving equations. BIT Numerical Mathematics, 1985, 25, 250-255.	1.0	11
46	Another Look at Z-transform Technique for Deriving Unit Impulse Response Function. Water Resources Management, 2007, 21, 1829-1848.	1.9	10
47	Mathematical Models for Prediction of Rheological Parameters of Pineapple Juice. International Journal of Food Engineering, 2008, 4, .	0.7	10
48	Multiscale investigation of precipitation extremes over Ethiopia and teleconnections to large-scale climate anomalies. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1503-1519.	1.9	10
49	Fourth-order difference method for quasilinear Poisson equation in cylindrical symmetry. Communications in Numerical Methods in Engineering, 1994, 10, 291-296.	1.3	9
50	Finite difference methods of order two and four for 2-d non-linear biharmonic problems of first kind. International Journal of Computer Mathematics, 1996, 61, 155-163.	1.0	9
51	A compact discretization of $O(h^4)$ for two-dimensional nonlinear triharmonic equations. Physica Scripta, 2011, 84, 025002.	1.2	9
52	Relationship between Runoff Curve Number and PET. Journal of Hydrologic Engineering - ASCE, 2014, 19, 355-365.	0.8	9
53	Modelling of streamflow in snow dominated Budhigandaki catchment in Nepal. Journal of Earth System Science, 2018, 127, 1.	0.6	9
54	Reappraisal of hydrologic alterations in the Roanoke River basin using extended data and improved RVA method. International Journal of Environmental Science and Technology, 2021, 18, 417-440.	1.8	9

#	ARTICLE	IF	CITATIONS
55	Fourth-order finite difference method for 2D parabolic partial differential equations with nonlinear first-derivative terms. Numerical Methods for Partial Differential Equations, 1992, 8, 21-31.	2.0	8
56	Difference schemes for second order hyperbolic equations. International Journal for Numerical Methods in Engineering, 1976, 10, 960-964.	1.5	7
57	Fourth order operator splitting method for the three space parabolic equation with variable coefficients. International Journal of Computer Mathematics, 1994, 50, 55-64.	1.0	7
58	A fourth-order difference scheme for quasilinear poisson equation in polar co-ordinates. Communications in Numerical Methods in Engineering, 1994, 10, 791-797.	1.3	7
59	An efficient technique for exploring register file size in ASIP synthesis. , 2002, , .		7
60	Identification of sediment source and sink areas in a Himalayan watershed using GIS and remote sensing. Land Degradation and Development, 2009, 20, 623-639.	1.8	7
61	Quadrature formulas for semi-infinite integrals. Mathematics of Computation, 1974, 28, 499-503.	1.1	5
62	Fitting a simplified two-parameter gamma distribution function for synthetic sediment graph derivation from ungauged catchments. Arabian Journal of Geosciences, 2013, 6, 1835-1841.	0.6	5
63	Comparative study of two and three level ADI methods for parabolic equations with a mixed derivative. International Journal for Numerical Methods in Engineering, 1976, 10, 1309-1315.	1.5	4
64	P-stable singlestep methods for periodic initial-value problems involving second-order differential equations. Journal of Engineering Mathematics, 1979, 13, 317-326.	0.6	4
65	The numerical solution of the two-dimensional unsteady navier-stokes equations using fourth-order difference method. International Journal of Computer Mathematics, 1991, 39, 125-134.	1.0	4
66	Complexity analyses of Godavari and Krishna river streamflow using the concept of entropy. Acta Geophysica, 2021, 69, 2325-2338.	1.0	4
67	Impact of climate change on runoff regime of the Godavari River in India. Sustainable Water Resources Management, 2022, 8, 1.	1.0	4
68	On the numerical integration of a singular two-point boundary value problem. International Journal of Computer Mathematics, 1990, 31, 187-194.	1.0	3
69	A higher-order difference method for 3-D parabolic partial differential equations with nonlinear first derivative terms. International Journal of Computer Mathematics, 1991, 38, 101-112.	1.0	3
70	Single cell discretization of $O(kh^2 + h^4)$ for the estimates of for the two-space dimensional quasi-linear parabolic equation. Numerical Methods for Partial Differential Equations, 2001, 17, 250-261.	2.0	3
71	A Novel Numerical Method of for Three-Dimensional Non-Linear Triharmonic Equations. Communications in Computational Physics, 2012, 12, 1417-1433.	0.7	3
72	A new three-level implicit cubic spline method for the solution of 1D quasi-linear hyperbolic equations. Computational Mathematics and Modeling, 2013, 24, 452-470.	0.2	3

#	ARTICLE	IF	CITATIONS
73	Optimum Runge-Kutta Fehlberg Methods for First Order Differential Equations. IMA Journal of Applied Mathematics, 1971, 8, 386-396.	0.8	2
74	Single-cell discretization of $O(kh^2 + h^4)$ for $u/n$ for three-space dimensional mildly quasi-linear parabolic equation. Numerical Methods for Partial Differential Equations, 2003, 19, 327-342.	2.0	2
75	Impact of Denial-of-Service in security protocols. , 2011, , .		2
76	Analysis of Flexible Pavement Serviceability Using ANN for Urban Roads. , 2013, , .		2
77	Hydromagnetic Laminar Flow through Conducting Parallel Porous Walls. Journal of the Physical Society of Japan, 1967, 22, 1255-1266.	0.7	1
78	Optimum Runge-Kutta-Fehlberg Methods for Second-order Differential Equations. IMA Journal of Applied Mathematics, 1972, 10, 202-210.	0.8	1
79	Higher Order Difference Formulae for the Numerical Solution of the Heat Conduction Equation. IMA Journal of Applied Mathematics, 1974, 13, 147-151.	0.8	1
80	Multilevel difference schemes for the heat conduction equation and its application to the dirichlet problem in two and three dimensions. Calcolo, 1979, 16, 157-180.	0.6	0
81	Power Supply Efficiency Aware Server Allocation in Data Centers. , 2013, , .		0
82	ISA customization for application specific instruction set processors. , 2015, , .		0
83	Identification of Research Gaps in an Efficient Designing of Application Specific Instruction Set Processor (ASIP) for Neural Prosthetics. SSRN Electronic Journal, 0, , .	0.4	0