

Ramakanta Meher

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

325
citations

1051969

10
h-index

1181555

14
g-index

48
all docs

48
docs citations

48
times ranked

99
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust fuzzy-fractional approach for the atmospheric internal wave model. Journal of Ocean Engineering and Science, 2023, 8, 308-322.	1.7	10
2	A robust computational approach for Zakharov-Kuznetsov equations of ion-acoustic waves in a magnetized plasma via the Shehu transform. Journal of Ocean Engineering and Science, 2023, 8, 79-90.	1.7	10
3	EFFECT OF WETTABILITY ON FORCED IMBIBITION PHENOMENA IN A TWO-PHASE FLOW PROCESS THROUGH FRACTURED POROUS MEDIA. Journal of Porous Media, 2022, 25, 41-82.	1.0	3
4	Analytical study of atmospheric internal waves model with fractional approach. Journal of Ocean Engineering and Science, 2022, , .	1.7	4
5	Effect of heat transfer on Jefferyâ€™s Hamel Cu/Agâ€™ water nanofluid flow with uncertain volume fraction using the double parametric fuzzy homotopy analysis method. European Physical Journal Plus, 2022, 137, 1.	1.2	17
6	Solution for generalized fuzzy time-fractional Fisherâ€™s equation using a robust fuzzy analytical approach. Journal of Ocean Engineering and Science, 2022, , .	1.7	12
7	The generalized time-fractional Fornbergâ€™s Whitham equation: An analytic approach. Partial Differential Equations in Applied Mathematics, 2022, 5, 100350.	1.3	11
8	Approximation properties by some modified Szasz-Mirakjan-Kantorovich operators. Siberian Journal of Numerical Mathematics, 2022, 25, 209-225.	0.8	0
9	Approximation Properties of Some Modified Szász-Mirakjan-Kantorovich Operators. Numerical Analysis and Applications, 2022, 15, 170-185.	0.2	0
10	A robust analytical approach to the generalized Burgersâ€™ Fisher equation with fractional derivatives including singular and non-singular kernels. Journal of Ocean Engineering and Science, 2022, , .	1.7	10
11	MODELING OF AN IMBIBITION PHENOMENON IN A HETEROGENEOUS CRACKED POROUS MEDIUM ON SMALL INCLINATION. Special Topics and Reviews in Porous Media, 2021, 12, 27-52.	0.6	7
12	Analytical study of time-fractional porous medium equation using homotopy analysis method. AIP Conference Proceedings, 2021, , .	0.3	3
13	Numerical study of forced imbibition phenomenon in fluid flow through a water-wet porous media. International Journal of Computational Materials Science and Engineering, 2021, 10, .	0.5	2
14	Approximation by associated GBS operators of Szász-Mirakjan type operators. Filomat, 2021, 35, 4789-4809.	0.2	0
15	Numerical study of magnetohydrodynamics Jefferyâ€™s Hamel flow with cu-water nanofluid between two rectangular smooth walls with transverse magnetic field. International Journal of Computational Materials Science and Engineering, 2020, 09, 2050010.	0.5	3
16	Computational study of time-fractional porous medium equation arising in fluid flow through a water-wet porous media. International Journal of Computational Materials Science and Engineering, 2020, 09, 2050007.	0.5	2
17	Mathematical modelling of fingering phenomenon using Homotopy analysis method. AIP Conference Proceedings, 2020, , .	0.3	4
18	Modelling of counter current imbibition phenomenon in two-phase fluid flows through fractured heterogeneous porous media under the effect of magnetic field. International Journal of Computational Materials Science and Engineering, 2020, 09, 2050006.	0.5	0

#	ARTICLE	IF	CITATIONS
19	EFFECT OF HETROGENEITY ON IMBIBITION PHENOMENON IN FLUID FLOW THROUGH POROUS MEDIA WITH DIFFERENT POROUS MATERIALS WITH MAGNETIC FLUIDS. <i>Journal of Porous Media</i> , 2020, 23, 219-234.	1.0	3
20	Further Approximations on Durrmeyer Modification of Szasz-Mirakjan Operators. <i>European Journal of Pure and Applied Mathematics</i> , 2020, 13, 1306-1324.	0.1	2
21	A Study on Convective-Radial Fins with Temperature-dependent Thermal Conductivity and Internal Heat Generation. <i>Nonlinear Engineering</i> , 2019, 8, 145-156.	1.4	7
22	Effect of Heterogeneity on Imbibition Phenomena in Fluid Flow through Porous Media with Different Porous Materials. <i>Nonlinear Engineering</i> , 2019, 8, 46-55.	1.4	9
23	Effect of Viscous Fluid on the Counter-Current Imbibition Phenomenon in Two-Phase Fluid Flow Through Heterogeneous Porous Media with Magnetic Field. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2019, 43, 1799-1810.	0.7	14
24	Quantitative estimations of bivariate summationâ€integralâ€type operators. <i>Mathematical Methods in the Applied Sciences</i> , 2019, 42, 7172-7191.	1.2	1
25	Analytical Investigation of MHD Jefferyâ€Hamel flow problem with heat transfer by differential transform method. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	13
26	Effect of magnetic field on imbibition phenomenon in fluid flow through fractured porous media with different porous material. <i>Nonlinear Engineering</i> , 2019, 8, 368-379.	1.4	6
27	ANALYTICAL STUDY OF TIME FRACTIONAL FRACTURED POROUS MEDIUM EQUATION UNDER THE EFFECT OF MAGNETIC FIELD. <i>Special Topics and Reviews in Porous Media</i> , 2019, 10, 99-113.	0.6	8
28	A study on magneto hydrodynamics Jeffery-Hamel flow with heat transfer problem in Eyring-Powell fluid using Differential Transform Method. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2019, 18, 57-68.	0.3	10
29	Analytical Investigation of Jefferyâ€Hamel Flow by Modified Adomian Decomposition Method. <i>Ain Shams Engineering Journal</i> , 2018, 9, 599-606.	3.5	24
30	Simulation of counter-current imbibition phenomenon in a double phase flow through fracture porous medium with capillary pressure. <i>Ain Shams Engineering Journal</i> , 2018, 9, 2163-2169.	3.5	11
31	Investigation of a Jeffery-Hamel flow between two rectangular inclined smooth walls using the Differential Transform Method. <i>Journal of Applied Mathematics and Computational Mechanics</i> , 2018, 17, 47-57.	0.3	0
32	Simulation of Counter-Current Imbibition Phenomenon with Coreyâ€™s Model in Double Phase Flow Through Heterogeneous Porous Medium with Capillary Pressure. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 3817-3830.	0.9	5
33	Modelling of imbibition phenomena in two-phase fluid flow through fractured porous media. <i>Nonlinear Engineering</i> , 2017, 6, .	1.4	3
34	Thermal Analysis of porous fin with uniform magnetic field using Adomian decomposition Sumudu transform method. <i>Nonlinear Engineering</i> , 2017, 6, .	1.4	22
35	Modelling of Imbibition Phenomena in Fluid Flow through Heterogeneous Inclined Porous Media with different porous materials. <i>Nonlinear Engineering</i> , 2017, 6, .	1.4	7
36	Adomian Decomposition Sumudu Transform Method for Convective Fin with Temperature-Dependent Internal Heat Generation and Thermal Conductivity of Fractional Order Energy Balance Equation. <i>International Journal of Applied and Computational Mathematics</i> , 2017, 3, 1879-1895.	0.9	12

#	ARTICLE	IF	CITATIONS
37	Simulation of Imbibition Phenomena in Fluid Flow through Fractured Heterogeneous Porous Media with Different Porous Materials. Journal of Applied Fluid Mechanics, 2017, 10, 1451-1460.	0.4	9
38	Adomian decomposition sumudu transform method for solving a solid and porous fin with temperature dependent internal heat generation. SpringerPlus, 2016, 5, 489.	1.2	11
39	A Study on Recovery Rate for Counter - Current Imbibition Phenomenon with Corey's Model Arising during Oil Recovery Process. Applied Mathematics and Information Sciences, 2016, 10, 1877-1884.	0.7	6
40	Analytical Treatment and Convergence of Adomian decomposition Method for Fingero-Imbibition Phenomena Arising during Oil Recovery Process. Mathematical Sciences Letters, 2016, 5, 303-308.	0.7	0
41	A Study on Temperature Distribution, Efficiency and Effectiveness of Longitudinal Porous Fins by Using Adomian Decomposition Sumudu Transform Method. Procedia Engineering, 2015, 127, 751-758.	1.2	26
42	Modified Adomian Decomposition Method for Solving Eleventh-order Initial and Boundary Value Problems. British Journal of Mathematics & Computer Science, 2015, 8, 134-146.	0.3	5
43	A Solution of Infiltration Problem Arising in Farmland Drainage Using Adomian Decomposition Method. British Journal of Applied Science & Technology, 2015, 6, 477-485.	0.2	1
44	Analytical Treatment and Convergence of the Adomian Decomposition Method for Instability Phenomena Arising during Oil Recovery Process. International Journal of Engineering Mathematics, 2013, 2013, 1-6.	0.2	8
45	A new approach to Bäcklund transformations for longitudinal dispersion of miscible fluid flow through porous media in oil reservoir during secondary recovery process. Theoretical and Applied Mechanics, 2011, 38, 1-16.	0.1	4