Shao-Wen Yao

List of Publications by Year
in descending order

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		361413	434195
72	1,252	20	31
papers	citations	h-index	g-index

72	72	72	651
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Soliton solutions to the Boussinesq equation through sine-Gordon method and Kudryashov method. Results in Physics, 2021, 25, 104228.	4.1	117
2	Nonlinear dispersion in parabolic law medium and its optical solitons. Results in Physics, 2021, 26, 104411.	4.1	92
3	Analysing time-fractional exotic options via efficient local meshless method. Results in Physics, 2020, 19, 103385.	4.1	61
4	Construction of Different Types Analytic Solutions for the Zhiber-Shabat Equation. Mathematics, 2020, 8, 908.	2.2	54
5	Application of local meshless method for the solution of two term time fractional-order multi-dimensional PDE arising in heat and mass transfer. Thermal Science, 2020, 24, 95-105.	1.1	51
6	A fractal derivative model for snowâ€™s thermal insulation property. Thermal Science, 2019, 23, 2351-2354.	1.1	48
7	A POWERFUL ITERATIVE APPROACH FOR QUINTIC COMPLEX GINZBURGâ€“LANDAU EQUATION WITHIN THE FRAME OF FRACTIONAL OPERATOR. Fractals, 2021, 29, 2140023.	3.7	44
8	Heâ€™s multiple scales method for nonlinear vibrations. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1708-1712.	2.9	40
9	Functionally Graded Piezoelectric Medium Exposed to a Movable Heat Flow Based on a Heat Equation with a Memory-Dependent Derivative. Materials, 2020, 13, 3953.	2.9	39
10	New Oscillation Criteria for Advanced Differential Equations of Fourth Order. Mathematics, 2020, 8, 728.	2.2	38
11	A FRACTAL VARIATIONAL PRINCIPLE FOR THE TELEGRAPH EQUATION WITH FRACTAL DERIVATIVES. Fractals, 2020, 28, 2050058.	3.7	38
12	Silkworm-based silk fibers by electrospinning. Results in Physics, 2019, 15, 102646.	4.1	37
13	The Comparative Study for Solving Fractional-Order Fornbergâ€“Whitham Equation via Ï•Laplace Transform. Symmetry, 2021, 13, 784.	2.2	33
14	An efficient approach for the numerical solution of fifth-order KdV equations. Open Mathematics, 2020, 18, 738-748.	1.0	33
15	Numerical method for fractional Zakharov-Kuznetsov equations with Heâ€™s fractional derivative. Thermal Science, 2019, 23, 2163-2170.	1.1	31
16	Analysis of a functionally graded thermopiezoelectric finite rod excited by a moving heat source. Results in Physics, 2020, 19, 103389.	4.1	29
17	A fractal rate model for adsorption kinetics at solid/solution interface. Thermal Science, 2019, 23, 2477-2480.	1.1	29
18	Exact soliton solutions to the Cahnâ€“Allen equation and Predatorâ€“Prey model with truncated M-fractional derivative. Results in Physics, 2022, 37, 105455.	4.1	24

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19	Invariance Analysis, Exact Solution and Conservation Laws of (2 + 1) Dim Fractional Kadomtsev-Petviashvili (KP) System. Symmetry, 2021, 13, 477.	2.2	22
20	Analysis of novel fractional COVID-19 model with real-life data application. Results in Physics, 2021, 23, 103968.	4.1	21
21	New wave surfaces and bifurcation of nonlinear periodic waves for Gilson-Pickering equation. Results in Physics, 2021, 24, 104192.	4.1	21
22	Existence of Solutions for a Singular Fractional q-Differential Equations under Riemannâ€“Liouville Integral Boundary Condition. Symmetry, 2021, 13, 1235.	2.2	20
23	A novel mathematical model for COVID-19 with remedial strategies. Results in Physics, 2021, 27, 104248.	4.1	18
24	He's fractional derivative for the evolution equation. Thermal Science, 2020, 24, 2507-2513.	1.1	16
25	Augmentation of performance of system with dispersion of nanoparticles inside PCM. Journal of Molecular Liquids, 2021, 333, 115921.	4.9	14
26	Bistability and Turing pattern induced by cross fraction diffusion in a predatorâ€“prey model. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 982-988.	2.6	13
27	Pattern formation of a diffusive predatorâ€“prey model with strong Allee effect and nonconstant death rate. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121350.	2.6	13
28	Second-Order Differential Equation with Multiple Delays: Oscillation Theorems and Applications. Complexity, 2020, 2020, 1-6.	1.6	13
29	New Oscillation Theorems for Second-Order Differential Equations with Canonical and Non-Canonical Operator via Riccati Transformation. Mathematics, 2021, 9, 1111.	2.2	13
30	Analytical solutions of nonlinear time fractional evaluation equations via unified method with different derivatives and their comparison. Results in Physics, 2021, 26, 104357.	4.1	13
31	A complement to period/frequency estimation of a nonlinear oscillator. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 992-995.	2.9	11
32	Lie Symmetry Analysis, Conservation Laws, Power Series Solutions, and Convergence Analysis of Time Fractional Generalized Drinfeld-Sokolov Systems. Symmetry, 2021, 13, 874.	2.2	11
33	FRACTAL HADAMARDâ€“MERCER-TYPE INEQUALITIES WITH APPLICATIONS. Fractals, 2022, 30, .	3.7	11
34	Second-Order Impulsive Delay Differential Systems: Necessary and Sufficient Conditions for Oscillatory or Asymptotic Behavior. Symmetry, 2021, 13, 722.	2.2	10
35	Numerical solution of second order PainlevÃ© differential equation. Journal of Mathematics and Computer Science, 0, , 150-157.	1.0	10
36	Thermo-viscoelastic orthotropic constraint cylindrical cavity with variable thermal properties heated by laser pulse via the MGT thermoelasticity model. Open Physics, 2021, 19, 504-518.	1.7	10

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37	Release oscillation in a hollow fiber â€“ Part 1: Mathematical model and fast estimation of its frequency. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1703-1707.	2.9	9
38	Computational fluid dynamic simulations and heat transfer characteristic comparisons of various arc-baffled channels. Open Physics, 2021, 19, 51-60.	1.7	9
39	Pharmacological and engineering biomedical applications of peristaltically induced flow in a curved channel. AEJ - Alexandria Engineering Journal, 2021, 60, 4995-5008.	6.4	9
40	Silver ion release from Ag/PET hollow fibers: Mathematical model and its application to food packing. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502093544.	1.0	8
41	Investigation of Cuâ€“water nano-fluid of natural convection hydro-magnetic heat transport in a Darcian porous regime with diffusion-thermo. Applied Nanoscience (Switzerland), 2023, 13, 283-293.	3.1	8
42	Thermoâ€viscoelastic behavior in an infinitely thin orthotropic hollow cylinder with variable properties under the nonâ€Fourier MGT thermoelastic model. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, e202000344.	1.6	8
43	Homotopic fractional analysis of thin film flow of Oldroyd 6-Constant fluid. AEJ - Alexandria Engineering Journal, 2021, 60, 5311-5322.	6.4	8
44	Numerical investigation of ohmically dissipated mixed convective flow. Case Studies in Thermal Engineering, 2022, 31, 101809.	5.7	8
45	Variational principle for non-linear fractional wave equation in a fractal space. Thermal Science, 2021, 25, 1243-1247.	1.1	7
46	A detailed study on a solvable system related to the linear fractional difference equation. Mathematical Biosciences and Engineering, 2021, 18, 5392-5408.	1.9	7
47	New Aspects for Oscillation of Differential Systems with Mixed Delays and Impulses. Symmetry, 2021, 13, 780.	2.2	7
48	Hybrid nanomaterial transportation and Lorentz effects in a permeable sinusoidal duct. Journal of Molecular Liquids, 2021, 332, 115796.	4.9	7
49	On Behavioral Response of Microstructural Slip on the Development of Magnetohydrodynamic Micropolar Boundary Layer Flow. Complexity, 2020, 2020, 1-12.	1.6	6
50	A variational principle for the photocatalytic NOx abatement. Thermal Science, 2020, 24, 2515-2518.	1.1	6
51	Fractal diffusion of silver ions in hollow cylinders with unsmooth inner surface. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501989564.	1.0	5
52	Experimental verification of the fractional model for silver ion release from hollow fibers. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1041-1044.	2.9	5
53	ANALYSIS OF FRACTIONAL ORDER DIARRHEA MODEL USING FRACTAL FRACTIONAL OPERATOR. Fractals, 2022, 30, .	3.7	5
54	Arithmetic Means for a Class of Functions and the Modified Bessel Functions of the First Kind. Mathematics, 2019, 7, 60.	2.2	4

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55	The solitary wave solutions to the Kleinâ€“Gordonâ€“Zakharov equations by extended rational methods. AIP Advances, 2021, 11, 065218.	1.3	4
56	Series solution to fractional contact problem using Caputoâ€™s derivative. Open Physics, 2021, 19, 402-412.	1.7	3
57	A Novel Numerical Method for Computing Subdivision Depth of Quaternary Schemes. Mathematics, 2021, 9, 809.	2.2	3
58	A new approximate analytical method for a system of fractional differential equations. Thermal Science, 2019, 23, 853-858.	1.1	3
59	Effect of air-flow parameters on the morphology of nanofibrous yarns by blown bubble-spinning. Thermal Science, 2020, 24, 2637-2643.	1.1	3
60	Application of local meshless method for the solution of two term time fractional-order multi-dimensional PDE arising in heat and mass transfer. Thermal Science, 2020, 24, 95-105.	1.1	3
61	A free-standing PAN/PMMA/rGO carbon paper as an effective interlayer for high performance lithium-sulfur batteries. Thermal Science, 2020, 24, 2485-2490.	1.1	3
62	Double-Diffusive of a Nanofluid in a Rectangle-Shape Mounted on a Cavity Saturated by Heterogeneous Porous Media. Journal of Mathematics, 2021, 2021, 1-14.	1.0	2
63	Some Novel Generalized Strong Coupled Fixed Point Findings in Cone Metric Spaces with Application to Integral Equations. Journal of Function Spaces, 2021, 2021, 1-9.	0.9	1
64	A RIGID PENDULUM IN A MICROGRAVITY: SOME SPECIAL PROPERTIES AND A TWO-SCALE FRACTAL MODEL. Fractals, 2021, 29, 2150127.	3.7	1
65	Oscillation behavior for neutral delay differential equations of second-order. Mathematical Biosciences and Engineering, 2021, 18, 4390-4401.	1.9	1
66	Analytical solution for non-linear local fractional Bratu-type equation in a fractal space. Thermal Science, 2020, 24, 3941-3947.	1.1	1
67	Thermal behavior of hybrid nanomaterial within a permeable chamber considering Lorentz impact. Applied Nanoscience (Switzerland), 2020, , 1.	3.1	0
68	Fractal approach to explanation of silkworm cocoonâ€™s biomechanism. Thermal Science, 2021, 25, 1501-1507.	1.1	0
69	Convective transportation of ferrofluid through a chamber. Applied Nanoscience (Switzerland), 0, , 1.	3.1	0
70	Convergence Results for Total Asymptotically Nonexpansive Monotone Mappings in Modular Function Spaces. Journal of Function Spaces, 2021, 2021, 1-7.	0.9	0
71	Magnetic charged particles of optical spherical antiferromagnetic model with fractional system. Open Physics, 2021, 19, 590-601.	1.7	0
72	VARIATIONAL PERSPECTIVE FOR THE FRACTAL THIN FILM EQUATION ARISING IN ELECTROANALYTICAL CHEMISTRY. Fractals, 0, , .	3.7	0