Ji-Huan He

List of Publications by Year
in descending order

515 papers	39,888 citations	5268 83 h-index	3323 184 g-index
538 all docs	538 docs citations	538 times ranked	7747 citing authors

#	Article	IF	Citations
1	Homotopy perturbation technique. Computer Methods in Applied Mechanics and Engineering, 1999, 178, 257-262.	6.6	2,547
2	Variational iteration method â€“ a kind of non-linear analytical technique: some examples. International Journal of Non-Linear Mechanics, 1999, 34, 699-708.	2.6	1,876
3	SOME ASYMPTOTIC METHODS FOR STRONGLY NONLINEAR EQUATIONS. International Journal of Modern Physics B, 2006, 20, 1141-1199.	2.0	1,745
4	Exp-function method for nonlinear wave equations. Chaos, Solitons and Fractals, 2006, 30, 700-708.	5.1	1,519
5	A coupling method of a homotopy technique and a perturbation technique for non-linear problems. International Journal of Non-Linear Mechanics, 2000, 35, 37-43.	2.6	1,396
6	Homotopy perturbation method: a new nonlinear analytical technique. Applied Mathematics and Computation, 2003, 135, 73-79.	2.2	1,218
7	Approximate analytical solution for seepage flow with fractional derivatives in porous media. Computer Methods in Applied Mechanics and Engineering, 1998, 167, 57-68.	6.6	1,017
8	Application of homotopy perturbation method to nonlinear wave equations. Chaos, Solitons and Fractals, 2005, 26, 695-700.	5.1	968
9	Homotopy perturbation method for solving boundary value problems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 87-88.	2.1	869
10	Variational iteration method for autonomous ordinary differential systems. Applied Mathematics and Computation, 2000, 114, 115-123.	2.2	826
11	Variational iteration methodâ€"Some recent results and new interpretations. Journal of Computational and Applied Mathematics, 2007, 207, 3-17.	2.0	679
12	The homotopy perturbation method for nonlinear oscillators with discontinuities. Applied Mathematics and Computation, 2004, 151, 287-292.	2.2	675
13	Construction of solitary solution and compacton-like solution by variational iteration method. Chaos, Solitons and Fractals, 2006, 29, 108-113.	5.1	556
14	Variational principles for some nonlinear partial differential equations with variable coefficients. Chaos, Solitons and Fractals, 2004, 19, 847-851.	5.1	537
15	Homotopy Perturbation Method for Bifurcation of Nonlinear Problems. International Journal of Nonlinear Sciences and Numerical Simulation, 2005, 6, .	1.0	536
16	Variational iteration method: New development and applications. Computers and Mathematics With Applications, 2007, 54, 881-894.	2.7	536
17	ADDENDUM: NEW INTERPRETATION OF HOMOTOPY PERTURBATION METHOD. International Journal of Modern Physics B, 2006, 20, 2561-2568.	2.0	506
18	A new approach to nonlinear partial differential equations. Communications in Nonlinear Science and Numerical Simulation, 1997, 2, 230-235.	3.3	471

#	Article	IF	Citations
19	Comparison of homotopy perturbation method and homotopy analysis method. Applied Mathematics and Computation, 2004, 156, 527-539.	2.2	443
20	New periodic solutions for nonlinear evolution equations using Exp-function method. Chaos, Solitons and Fractals, 2007, 34, 1421-1429.	5.1	391
21	AN ELEMENTARY INTRODUCTION TO RECENTLY DEVELOPED ASYMPTOTIC METHODS AND NANOMECHANICS IN TEXTILE ENGINEERING. International Journal of Modern Physics B, 2008, 22, 3487-3578.	2.0	389
22	A Tutorial Review on Fractal Spacetime and Fractional Calculus. International Journal of Theoretical Physics, 2014, 53, 3698-3718.	1.2	369
23	Fractal calculus and its geometrical explanation. Results in Physics, 2018, 10, 272-276.	4.1	365
24	Approximate solution of nonlinear differential equations with convolution product nonlinearities. Computer Methods in Applied Mechanics and Engineering, 1998, 167, 69-73.	6.6	358
25	Variational approach for nonlinear oscillators. Chaos, Solitons and Fractals, 2007, 34, 1430-1439.	5.1	319
26	Variational iteration method for delay differential equations. Communications in Nonlinear Science and Numerical Simulation, 1997, 2, 235-236.	3.3	293
27	Modified Lindstedtâ€“Poincare methods for some strongly non-linear oscillations. International Journal of Non-Linear Mechanics, 2002, 37, 309-314.	2.6	287
28	Geometrical explanation of the fractional complex transform and derivative chain rule for fractional calculus. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 257-259.	2.1	286
29	Limit cycle and bifurcation of nonlinear problems. Chaos, Solitons and Fractals, 2005, 26, 827-833.	5.1	257
30	Preliminary report on the energy balance for nonlinear oscillations. Mechanics Research Communications, 2002, 29, 107-111.	1.8	255
31	Two-scale mathematics and fractional calculus for thermodynamics. Thermal Science, 2019, 23, 2131-2133.	1.1	233
32	New promises and future challenges of fractal calculus: From two-scale thermodynamics to fractal variational principle. Thermal Science, 2020, 24, 659-681.	1.1	217
33	Solitary solutions, periodic solutions and compacton-like solutions using the Exp-function method. Computers and Mathematics With Applications, 2007, 54, 966-986.	2.7	206
34	Asymptotology by homotopy perturbation method. Applied Mathematics and Computation, 2004, 156, 591-596.	2.2	184
35	Hamiltonian approach to nonlinear oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2312-2314.	2.1	182
36	On two-scale dimension and its applications. Thermal Science, 2019, 23, 1707-1712.	1.1	177

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37	A simple perturbation approach to Blasius equation. Applied Mathematics and Computation, 2003, 140, 217-222.	2.2	176
38	Semi-Inverse Method of Establishing Generalized Variational Principles for Fluid Mechanics With Emphasis on Turbomachinery Aerodynamics. International Journal of Turbo and Jet Engines, 1997, 14, .	0.7	173
39	EXP-function method and its application to nonlinear equations. Chaos, Solitons and Fractals, 2008, 38, 903-910.	5.1	172
40	Controlling numbers and sizes of beads in electrospun nanofibers. Polymer International, 2008, 57, 632-636.	3.1	168
41	Laplace transform: Making the variational iteration method easier. Applied Mathematics Letters, 2019, 92, 134-138.	2.7	160
42	Fractional Complex Transform for Fractional Differential Equations. Mathematical and Computational Applications, 2010, 15, 970-973.	1.3	157
43	Modified Lindstedtâ€"Poincare methods for some strongly non-linear oscillations. International Journal of Non-Linear Mechanics, 2002, 37, 315-320.	2.6	155
44	Asymptotic Methods for Solitary Solutions and Compactons. Abstract and Applied Analysis, 2012, 2012, 1-130.	0.7	154
45	Lattice Boltzmann modeling of the effective thermal conductivity for fibrous materials. International Journal of Thermal Sciences, 2007, 46, 848-855.	4.9	153
46	The simplest approach to nonlinear oscillators. Results in Physics, 2019, 15, 102546.	4.1	148
47	Generalized solitary solution and compacton-like solution of the Jaulentâ€"Miodek equations using the Exp-function method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1044-1047.	2.1	142
48	An approximate solution technique depending on an artificial parameter: A special example. Communications in Nonlinear Science and Numerical Simulation, 1998, 3, 92-97.	3.3	140
49	Nano-effects, quantum-like properties in electrospun nanofibers. Chaos, Solitons and Fractals, 2007, 33, 26-37.	5.1	139
50	Bubble-electrospinning for fabricating nanofibers. Polymer, 2009, 50, 5846-5850.	3.8	139
51	Review on fiber morphology obtained by bubble electrospinning and blown bubble spinning. Thermal Science, 2012, 16, 1263-1279.	1.1	138
52	Cantor-type cylindrical-coordinate method for differential equations with local fractional derivatives. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1696-1700.	2.1	134
53	An elementary introduction to the homotopy perturbation method. Computers and Mathematics With Applications, 2009, 57, 410-412.	2.7	133
54	Silkâ€Based Biomaterials in Biomedical Textiles and Fiberâ€Based Implants. Advanced Healthcare Materials, 2015, 4, 1134-1151.	7.6	130

#	Article	IF	Citations
55	TAYLOR SERIES SOLUTION FOR FRACTAL BRATU-TYPE EQUATION ARISING IN ELECTROSPINNING PROCESS. Fractals, 2020, 28, 2050011.	3.7	129
56	The simpler, the better: Analytical methods for nonlinear oscillators and fractional oscillators. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1252-1260.	2.9	127
57	Variational iteration method for solving integro-differential equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 367, 188-191.	2.1	121
58	Periodic solutions and bifurcations of delay-differential equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 228-230.	2.1	120
59	Lagrange crisis and generalized variational principle for 3D unsteady flow. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 1189-1196.	2.8	120
60	A variational principle for a thin film equation. Journal of Mathematical Chemistry, 2019, 57, 2075-2081.	1.5	119
61	Nonlinear oscillator with discontinuity by parameter-expansion method. Chaos, Solitons and Fractals, 2008, 35, 688-691.	5.1	116
62	A FRACTAL VARIATIONAL THEORY FOR ONE-DIMENSIONAL COMPRESSIBLE FLOW IN A MICROGRAVITY SPACE. Fractals, 2020, 28, 2050024.	3.7	116
63	Taylor series solution for Laneâ€“Emden equation. Journal of Mathematical Chemistry, 2019, 57, 1932-1934.	1.5	114
64	A new fractal derivation. Thermal Science, 2011, 15, 145-147.	1.1	113
65	Homotopy perturbation method for nonlinear oscillators with coordinate-dependent mass. Results in Physics, 2018, 10, 270-271.	4.1	113
66	Homotopy perturbation method for Fangzhu oscillator. Journal of Mathematical Chemistry, 2020, 58, 2245-2253.	1.5	113
67	Î˜ Review on Some New Recently Developed Nonlinear Analytical Techniques. International Journal of Nonlinear Sciences and Numerical Simulation, 2000, 1, .	1.0	112
68	Critical length of straight jet in electrospinning. Polymer, 2005, 46, 12637-12640.	3.8	110
69	Variational principle and periodic solution of the Kunduâ€“Mukherjeeâ€“Naskar equation. Results in Physics, 2020, 17, 103031.	4.1	108
70	A short remark on fractional variational iteration method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3362-3364.	2.1	107
71	Homotopy perturbation method with two expanding parameters. Indian Journal of Physics, 2014, 88, 193-196.	1.8	103
72	Effect of LiCl on electrospinning of PAN polymer solution: theoretical analysis and experimental verification. Polymer, 2004, 45, 6409-6413.	3.8	102

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73	Variational approach to -dimensional dispersive long water equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 335, 182-184.	2.1	101
74	Homotopy Perturbation Method for the Fractal Toda Oscillator. Fractal and Fractional, 2021, 5, 93.	3.3	100
75	Solitary waves travelling along an unsmooth boundary. Results in Physics, 2021, 24, 104104.	4.1	98
76	BioMimic fabrication of electrospun nanofibers with high-throughput. Chaos, Solitons and Fractals, 2008, 37, 643-651.	5.1	97
77	A simple approach to one-dimensional convection-diffusion equation and its fractional modification for E reaction arising in rotating disk electrodes. Journal of Electroanalytical Chemistry, 2019, 854, 113565.	3.8	96
78	FRACTAL CALCULUS AND ITS APPLICATION TO EXPLANATION OF BIOMECHANISM OF POLAR BEAR HAIRS. Fractals, 2018, 26, 1850086.	3.7	92
79	Variational approach to the Laneâ€"Emden equation. Applied Mathematics and Computation, 2003, 143, 539-541.	2.2	91
80	Ultrafine and polar ZrO2-inlaid porous nitrogen-doped carbon nanofiber as efficient polysulfide absorbent for high-performance lithium-sulfur batteries with long lifespan. Chemical Engineering Journal, 2018, 349, 376-387.	12.7	91
81	Iteration Perturbation Method for Strongly Nonlinear Oscillations. JVC/Journal of Vibration and Control, 2001, 7, 631-642.	2.6	89
82	Effect of concentration on electrospun polyacrylonitrile (PAN) nanofibers. Fibers and Polymers, 2008, 9, 140-142.	2.1	88
83	Homotopy perturbation method with an auxiliary parameter for nonlinear oscillators. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1540-1554.	2.9	88
84	Determination of Limit Cycles for Strongly Nonlinear Oscillators. Physical Review Letters, 2003, 90, 174301.	7.8	86
85	Exp-function Method for Fractional Differential Equations. International Journal of Nonlinear Sciences and Numerical Simulation, 2013, 14, 363-366.	1.0	84
86	Glass fiber separatorÂcoated by porous carbon nanofiber derived fromÂimmiscible PAN/PMMA forÂhigh-performance lithium-sulfur batteries. Journal of Membrane Science, 2018, 552, 31-42.	8.2	83
87	Converting fractional differential equations into partial differential equations. Thermal Science, 2012, 16, 331-334.	1.1	82
88	Nanoscale adhesion and attachment oscillation under the geometric potential. Part 1: The formation mechanism of nanofiber membrane in the electrospinning. Results in Physics, 2019, 12, 1405-1410.	4.1	82
89	LI-HEâ€™S MODIFIED HOMOTOPY PERTURBATION METHOD FOR DOUBLY-CLAMPED ELECTRICALLY ACTUATED MICROBEAMS-BASED MICROELECTROMECHANICAL SYSTEM. Facta Universitatis, Series: Mechanical Engineering, 2021, 19, 601.	4.6	80
90	THE ENHANCED HOMOTOPY PERTURBATION METHOD FOR AXIAL VIBRATION OF STRINGS. Facta Universitatis, Series: Mechanical Engineering, 2021, 19, 735.	4.6	80

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91	A short review on analytical methods for a fully fourth-order nonlinear integral boundary value problem with fractal derivatives. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4933-4943.	2.8	79
92	The variational iteration method for eighth-order initial-boundary value problems. Physica Scripta, 2007, 76, 680-682.	2.5	78
93	A general numerical algorithm for nonlinear differential equations by the variational iteration method. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 4797-4810.	2.8	78
94	Bookkeeping Parameter in Perturbation Methods. International Journal of Nonlinear Sciences and Numerical Simulation, 2001, 2, .	1.0	76
95	Three-dimensional effect on the effective thermal conductivity of porous media. Journal Physics D: Applied Physics, 2007, 40, 260-265.	2.8	75
96	A fractal Boussinesq equation for nonlinear transverse vibration of a nanofiber-reinforced concrete pillar. Applied Mathematical Modelling, 2020, 82, 437-448.	4.2	74
97	The reducing rank method to solve thirdâ€order Duffing equation with the homotopy perturbation. Numerical Methods for Partial Differential Equations, 2021, 37, 1800-1808.	3.6	74
98	LOW FREQUENCY PROPERTY OF A FRACTAL VIBRATION MODEL FOR A CONCRETE BEAM. Fractals, 2021, 29, 2150117.	3.7	74
99	Scaling law in electrospinning: relationship between electric current and solution flow rate. Polymer, 2005, 46, 2799-2801.	3.8	73
100	Comment on â€˜He's frequency formulation for nonlinear oscillatorsâ€™. European Journal of Physics, 2008, 29, L19-L22.	0.6	73
101	Homotopy perturbation method with three expansions. Journal of Mathematical Chemistry, 2021, 59, 1139-1150.	1.5	72
102	Approximate analytical solution of Blasius' equation. Communications in Nonlinear Science and Numerical Simulation, 1998, 3, 260-263.	3.3	71
103	A new iteration method for solving algebraic equations. Applied Mathematics and Computation, 2003, 135, 81-84.	2.2	71
104	An iteration formulation for normalized diode characteristics. International Journal of Circuit Theory and Applications, 2004, 32, 629-632.	2.0	71
105	Homotopy Perturbation Method with an Auxiliary Term. Abstract and Applied Analysis, 2012, 2012, 1-7.	0.7	70
106	FRACTAL OSCILLATION AND ITS FREQUENCY-AMPLITUDE PROPERTY. Fractals, 2021, 29, 2150105.	3.7	70
107	TWO-SCALE FRACTAL THEORY FOR THE POPULATION DYNAMICS. Fractals, 2021, 29, .	3.7	70
108	Geometric potential: An explanation of nanofiberâ€™s wettability. Thermal Science, 2018, 22, 33-38.	1.1	70

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109	Mathematical models for continuous electrospun nanofibers and electrospun nanoporous microspheres. Polymer International, 2007, 56, 1323-1329.	3.1	69
110	Hybridization of homotopy perturbation method and Laplace transformation for the partial differential equations. Thermal Science, 2017, 21, 1843-1846.	1.1	69
111	Amplitude-Frequency Relationship for Conservative Nonlinear Oscillators with Odd Nonlinearities. International Journal of Applied and Computational Mathematics, 2017, 3, 1557-1560.	1.6	68
112	A fractal modification of the surface coverage model for an electrochemical arsenic sensor. Electrochimica Acta, 2019, 296, 491-493.	5.2	68
113	Periodic property of the time-fractional Kunduâ€"Mukherjeeâ€"Naskar equation. Results in Physics, 2020, 19, 103345.	4.1	68
114	VARIATIONAL APPROACH TO FRACTAL SOLITARY WAVES. Fractals, 2021, 29, .	3.7	68
115	The fastest insight into the large amplitude vibration of a string. Reports in Mechanical Engineering, 2021, 2, 1-5.	7.7	67
116	A TUTORIAL INTRODUCTION TO THE TWO-SCALE FRACTAL CALCULUS AND ITS APPLICATION TO THE FRACTAL ZHIBERâ€"SHABAT OSCILLATOR. Fractals, 2021, 29, .	3.7	66
117	Variational iteration method for Bratu-like equation arising in electrospinning. Carbohydrate Polymers, 2014, 105, 229-230.	10.2	65
118	HAMILTONIAN-BASED FREQUENCY-AMPLITUDE FORMULATION FOR NONLINEAR OSCILLATORS. Facta Universitatis, Series: Mechanical Engineering, 2021, 19, 199.	4.6	65
119	On fractal space-time and fractional calculus. Thermal Science, 2016, 20, 773-777.	1.1	65
120	Fractional calculus for nanoscale flow and heat transfer. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 1227-1250.	2.8	64
121	A Simple Frequency Formulation for the Tangent Oscillator. Axioms, 2021, 10, 320.	1.9	61
122	Some new approaches to Duffing equation with strongly and high order nonlinearity (II) parametrized perturbation technique. Communications in Nonlinear Science and Numerical Simulation, 1999, 4, 81-83.	3.3	60
123	Solution of nonlinear equations by an ancient Chinese algorithm. Applied Mathematics and Computation, 2004, 151, 293-297.	2.2	60
124	Controlling stability of the electrospun fiber by magnetic field. Chaos, Solitons and Fractals, 2007, 32, 5-7.	5.1	59
125	Periodic Property and Instability of a Rotating Pendulum System. Axioms, 2021, 10, 191.	1.9	59
126	Coupled variational principles of piezoelectricity. International Journal of Engineering Science, 2001, 39, 323-341.	5.0	58

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127	Effect on temperature on surface tension of a bubble and hierarchical ruptured bubbles for nanofiber fabrication. Thermal Science, 2012, 16, 327-330.	1.1	58
128	A lotus effect-inspired flexible and breathable membrane with hierarchical electrospinning micro/nanofibers and ZnO nanowires. Materials and Design, 2019, 162, 246-248.	7.0	58
129	A modified Li-Heâ€™s variational principle for plasma. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 1369-1372.	2.8	58
130	Allometric scaling for voltage and current in electrospinning. Polymer, 2004, 45, 6731-6734.	3.8	57
131	Exact solutions of time-fractional heat conduction equation by the fractional complex transform. Thermal Science, 2012, 16, 335-338.	1.1	57
132	On a strong minimum condition of a fractal variational principle. Applied Mathematics Letters, 2021, 119, 107199.	2.7	57
133	Nonâ€ionic surfactants for enhancing electrospinability and for the preparation of electrospun nanofibers. Polymer International, 2008, 57, 1079-1082.	3.1	56
134	Seeing with a single scale is always unbelieving from magic to two-scale fractal. Thermal Science, 2021, 25, 1217-1219.	1.1	56
135	Beyond Adomian method: The variational iteration method for solving heat-like and wave-like equations with variable coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 233-237.	2.1	55
136	THE FRACTIONAL COMPLEX TRANSFORM: A NOVEL APPROACH TO THE TIME-FRACTIONAL SCHRÃ–DINGER EQUATION. Fractals, 2020, 28, 2050141.	3.7	55
137	Heâ€“Laplace variational iteration method for solving the nonlinear equations arising in chemical kinetics and population dynamics. Journal of Mathematical Chemistry, 2021, 59, 1234-1245.	1.5	55
138	Self-assembly of macromolecules in a long and narrow tube. Thermal Science, 2018, 22, 1659-1664.	1.1	55
139	On the Kubelkaâ€“Munk absorption coefficient. Dyes and Pigments, 2016, 127, 187-188.	3.7	54
140	Snail-based nanofibers. Materials Letters, 2018, 220, 5-7.	2.6	54
141	Nonlinear instability of two streaming-superposed magnetic Reiner-Rivlin Fluids by He-Laplace method. Journal of Electroanalytical Chemistry, 2021, 895, 115388.	3.8	54
142	Newton-like iteration method for solving algebraic equations. Communications in Nonlinear Science and Numerical Simulation, 1998, 3, 106-109.	3.3	53
143	Micro sphere with nanoporosity by electrospinning. Chaos, Solitons and Fractals, 2007, 32, 1096-1100.	5.1	53
144	Apparatus for preparing electrospun nanofibres: A comparative review. Materials Science and Technology, 2010, 26, 1275-1287.	1.6	53

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145	Allometric Scaling and Instability in Electrospinning. International Journal of Nonlinear Sciences and Numerical Simulation, 2004, 5, .	1.0	52
146	Homotopy perturbation method for N/MEMS oscillators. Mathematical Methods in the Applied Sciences, 0, , .	2.3	52
147	Application of Vibration Technology to Polymer Electrospinning. International Journal of Nonlinear Sciences and Numerical Simulation, 2004, 5, .	1.0	51
148	A generalized variational principle in micromorphic thermoelasticity. Mechanics Research Communications, 2005, 32, 93-98.	1.8	51
149	Hamiltonâ€™s principle for dynamical elasticity. Applied Mathematics Letters, 2017, 72, 65-69.	2.7	51
150	A new fractional derivative and its application to explanation of polar bear hairs. Journal of King Saud University - Science, 2016, 28, 190-192.	3.5	50
151	Taylor series solution for a third order boundary value problem arising in Architectural Engineering. Ain Shams Engineering Journal, 2020, 11, 1411-1414.	6.1	50
152	Carbon nanotubeâ€reinforced polyacrylonitrile nanofibers by vibrationâ€electrospinning. Polymer International, 2007, 56, 1367-1370.	3.1	49
153	Generalized variational principles for buckling analysis of circular cylinders. Acta Mechanica, 2020, 231, 899-906.	2.1	48
154	Air permeability of nanofiber membrane with hierarchical structure. Thermal Science, 2018, 22, 1637-1643.	1.1	48
155	THE PRINCIPLE OF BUBBLE ELECTROSPINNING AND ITS EXPERIMENTAL VERIFICATION. Journal of Polymer Engineering, 2008, 28, .	1.4	47
156	Analysis of nonlinear vibration of nano/microelectromechanical system switch induced by electromagnetic force under zero initial conditions. AEJ - Alexandria Engineering Journal, 2020, 59, 4343-4352.	6.4	46
157	What factors affect lotus effect?. Thermal Science, 2018, 22, 1737-1743.	1.1	45
158	Active generation of multiple jets for producing nanofibres with high quality and high throughput. Materials and Design, 2016, 94, 496-501.	7.0	44
159	Vibrorheological effect on electrospun polyacrylonitrile (PAN) nanofibers. Materials Letters, 2006, 60, 3296-3300.	2.6	43
160	Needle-disk electrospinning inspired by natural point discharge. Journal of Materials Science, 2017, 52, 1823-1830.	3.7	43
161	Sudden solvent evaporation in bubble electrospinning for fabrication of unsmooth nanofibers. Thermal Science, 2017, 21, 1827-1832.	1.1	43
162	The homotopy perturbation method for fractional differential equations: part 1 Mohand transform. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 3490-3504.	2.8	43

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163	Hamilton Principle and Generalized Variational Principles of Linear Thermopiezoelectricity. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 666-667.	2.2	43
164	Nonlinear Dynamics and the Nobel Prize in Physics. International Journal of Nonlinear Sciences and Numerical Simulation, 2007, 8, 1-4.	1.0	42
165	Generalized equilibrium equations for shell derived from a generalized variational principle. Applied Mathematics Letters, 2017, 64, 94-100.	2.7	42
166	Electrospun Jets Number and Nanofiber Morphology Effected by Voltage Value: Numerical Simulation and Experimental Verification. Nanoscale Research Letters, 2019, 14, 310.	5.7	42
167	Application of E-infinity theory to biology. Chaos, Solitons and Fractals, 2006, 28, 285-289.	5.1	41
168	Strength of bubble walls and the Hallâ€“Petch effect in bubble-spinning. Textile Reseach Journal, 2019, 89, 1340-1344.	2.2	41
169	Polydopamine-Inspired Design and Synthesis of Visible-Light-Driven Ag NPs@C@elongated TiO₂ NTs Coreâ€“Shell Nanocomposites for Sustainable Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2019, 7, 558-568.	6.7	41
170	A fractal modification of Chenâ€“Leeâ€“Liu equation and its fractal variational principle. International Journal of Modern Physics B, 2021, 35, 2150214.	2.0	41
171	Allometric scaling law in conductive polymer. Polymer, 2004, 45, 9067-9070.	3.8	40
172	A Nonlinear Dynamic Model for Two-Strand Yarn Spinning. Textile Reseach Journal, 2005, 75, 181-184.	2.2	40
173	Tunable surface morphology of electrospun PMMA fiber using binary solvent. Applied Surface Science, 2016, 364, 516-521.	6.1	40
174	HALLâ€“PETCH EFFECT AND INVERSE HALLâ€“PETCH EFFECT: A FRACTAL UNIFICATION. Fractals, 2018, 26, 1850083.	3.7	40
175	Heâ€™s multiple scales method for nonlinear vibrations. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1708-1712.	2.9	40
176	<i>Fangzhu</i> (æ–¹è¯¸): An ancient Chinese nanotechnology for water collection from air: History, mathematical insight, promises, and challenges. Mathematical Methods in the Applied Sciences, 0, , .	2.3	40
177	Chaotic Fractals at the Root of Relativistic Quantum Physics and Cosmology. International Journal of Modern Nonlinear Theory and Application, 2013, 02, 78-88.	0.4	40
178	Variational Principle for Nano Thin Film Lubrication. International Journal of Nonlinear Sciences and Numerical Simulation, 2003, 4, .	1.0	39
179	He Chengtian's inequality and its applications. Applied Mathematics and Computation, 2004, 151, 887-891.	2.2	39
180	Biomimic design of multi-scale fabric with efficient heat transfer property. Thermal Science, 2012, 16, 1349-1352.	1.1	38

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181	Fractional model for heat conduction in polar bear hairs. Thermal Science, 2012, 16, 339-342.	1.1	38
182	Solvent evaporation in a binary solvent system for controllable fabrication of porous fibers by electrospinning. Thermal Science, 2017, 21, 1821-1825.	1.1	38
183	Variational approach to the sixth-order boundary value problems. Applied Mathematics and Computation, 2003, 143, 537-538.	2.2	37
184	On the semi-inverse method and variational principle. Thermal Science, 2013, 17, 1565-1568.	1.1	37
185	Silkworm-based silk fibers by electrospinning. Results in Physics, 2019, 15, 102646.	4.1	37
186	Linearized perturbation technique and its applications to strongly nonlinear oscillators. Computers and Mathematics With Applications, 2003, 45, 1-8.	2.7	36
187	Twenty-six dimensional polytope and high energy spacetime physics. Chaos, Solitons and Fractals, 2007, 33, 5-13.	5.1	36
188	Macromolecular electrospinning: Basic concept & preliminary experiment. Results in Physics, 2018, 11, 740-742.	4.1	36
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