Praveen Kumar Gupta

List of Publications by Year
in descending order

34	926	471371	454834
papers	citations	17	30
		h-index	g-index

35	35	35	702
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	A mathematical model on fractional Lotkaâ€"Volterra equations. Journal of Theoretical Biology, 2011, 277, 1-6.	0.8	129
2	Homotopy perturbation method for fractional Fornbergâ€"Whitham equation. Computers and Mathematics With Applications, 2011, 61, 250-254.	1.4	97
3	Numerical simulation for heat transfer in tissues during thermal therapy. Journal of Thermal Biology, 2010, 35, 295-301.	1.1	91
4	Approximate analytical solutions of fractional Benneyâ€"Lin equation by reduced differential transform method and the homotopy perturbation method. Computers and Mathematics With Applications, 2011, 61, 2829-2842.	1.4	66
5	Solution of fractional bioheat equations by finite difference method and HPM. Mathematical and Computer Modelling, 2011, 54, 2316-2325.	2.0	52
6	Solution of the heat transfer problem in tissues during hyperthermia by finite differenceâ€"decomposition method. Applied Mathematics and Computation, 2013, 219, 6882-6892.	1.4	51
7	DTM Simulation of Peristaltic Viscoelastic Biofluid Flow in Asymmetric Porous Media: A Digestive Transport Model. Journal of Bionic Engineering, 2015, 12, 643-655.	2.7	49
8	An approximate analytical solution of time-fractional telegraph equation. Applied Mathematics and Computation, 2011, 217, 7405-7411.	1.4	48
9	A numerical study on heat transfer in tissues during hyperthermia. Mathematical and Computer Modelling, 2013, 57, 1018-1037.	2.0	43
10	An Approximate Analytical Solution of the Fractional Diffusion Equation with Absorbent Term and External Force by Homotopy Perturbation Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 182-190.	0.7	33
11	Homotopy analysis method for solving fractional hyperbolic partial differential equations. International Journal of Computer Mathematics, 2011, 88, 578-588.	1.0	29
12	Homotopy perturbation method to spaceâ€"time fractional solidification in a finite slab. Applied Mathematical Modelling, 2011, 35, 1937-1945.	2.2	29
13	An approximate solution of nonlinear fractional reactionâ€"diffusion equation. Applied Mathematical Modelling, 2011, 35, 4071-4076.	2.2	28
14	Solution of the nonlinear fractional diffusion equation with absorbent term and external force. Applied Mathematical Modelling, 2011, 35, 3970-3979.	2.2	25
15	Influence of slip condition on peristaltic transport of a viscoelastic fluid with fractional Burgerâ€™s model. Thermal Science, 2011, 15, 501-515.	0.5	23
16	A mathematical model for transmission dynamics of HIV/AIDS with effect of weak CD4+ T cells. Chinese Journal of Physics, 2018, 56, 1045-1056.	2.0	23
17	Application of He's homotopy perturbation method for multiâ€dimensional fractional Helmholtz equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2012, 22, 424-435.	1.6	19
18	Application of homotopy perturbation method and homotopy analysis method to fractional vibration equation. International Journal of Computer Mathematics, 2011, 88, 430-441.	1.0	17

#	Article	IF	Citations
19	A mathematical model on HIV/AIDS with fusion effect: Analysis and homotopy solution. European Physical Journal Plus, 2019, 134, 1.	1.2	16
20	Solution of a dynamical memory effect COVID-19 infection system with leaky vaccination efficacy by non-singular kernel fractional derivatives. Mathematical Biosciences and Engineering, 2022, 19, 4341-4367.	1.0	11
21	Dynamical behaviour of fractional order tumor-immune model with targeted chemotherapy treatment. International Journal of Engineering and Technology(UAE), 2018, 7, 6.	0.2	8
22	Homotopy Perturbation Method for Time-Fractional Shock Wave Equation. Advances in Applied Mathematics and Mechanics, 2011, 3, 774-783.	0.7	6
23	A numerical approach of tumorâ€immune model with B cells and monoclonal antibody drug by multiâ€step differential transformation method. Mathematical Methods in the Applied Sciences, 2021, 44, 4058-4070.	1.2	6
24	Analytical Approximate Solution of Space-Time Fractional Diffusion Equation with a Moving Boundary Condition. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2011, 66, 281-288.	0.7	5
25	Numerical solution with analysis of HIV/AIDS dynamics model with effect of fusion and cure rate. Numerical Algebra, Control and Optimization, 2019, 9, 393-399.	1.0	5
26	Analysis of Fractional-Order Deterministic HIV/AIDS Model During Drug Therapy Treatment. Advances in Intelligent Systems and Computing, 2020, , 1-8.	0.5	3
27	Mathematical Analysis on the Behaviour of Tumor Cells in the Presence ofÂMonoclonal Antibodies Drug. Smart Innovation, Systems and Technologies, 2021, , 311-321.	0.5	2
28	Numerical Solution of Tumor-Immune Model with Targeted Chemotherapy by Multi Step Differential Transformation Method. Learning and Analytics in Intelligent Systems, 2020, , 404-411.	0.5	2
29	Stability analysis of HIV/AIDS dynamics: Modelling the tested and untested populations. Pramana - Journal of Physics, 2022, 96, 1.	0.9	2
30	Application of Heâ€™s Homotopy Perturbation Method to Fractional Diffusion Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 53-58.	0.7	1
31	The Homotopy Analysis Method for Fractional Cauchy Reaction-Diffusion Problems. International Journal of Chemical Reactor Engineering, 2011, 9, .	0.6	1
32	A Numerical Study of the Nonlinear Reaction-Diffusion Equation with Different Type of Absorbent Term by Homotopy Analysis Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 621-627.	0.7	1
33	Dynamical behaviour of a tumour-immune model focusing on the dosage of targeted chemotherapeutic drug. International Journal of Computer Mathematics, 2022, 99, 2568-2582.	1.0	1
34	A Mathematical Study of Hepatitis CÂVirus Model During Drug Therapy Treatment. Advances in Intelligent Systems and Computing, 2022, , 187-200.	0.5	0