Hooman Fatoorehchi

List of Publications by Year
in descending order

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39 papers	981 citations	394421 19 h-index	434195 31 g-index
40 all docs	40 docs citations	40 times ranked	680 citing authors

#	Article	IF	Citations
1	Adsorption Characteristics of Congo Red from Aqueous Solution onto Tea Waste. Chemical Engineering Communications, 2015, 202, 181-193.	2.6	118
2	Preparation of pH-sensitive chitosan/polyvinylpyrrolidone/Î±-Fe2O3 nanocomposite for drug delivery application: Emphasis on ameliorating restrictions. International Journal of Biological Macromolecules, 2021, 173, 409-420.	7.5	84
3	Improving the differential transform method: A novel technique to obtain the differential transforms of nonlinearities by the Adomian polynomials. Applied Mathematical Modelling, 2013, 37, 6008-6017.	4.2	65
4	Synthesis and characterization of chitosan/polyvinylpyrrolidone coated nanoporous Î³-Alumina as a pH-sensitive carrier for controlled release of quercetin. International Journal of Biological Macromolecules, 2021, 183, 600-613.	7.5	60
5	Analytical approximate solutions for a general nonlinear resistorâ€“nonlinear capacitor circuit model. Applied Mathematical Modelling, 2015, 39, 6021-6031.	4.2	47
6	Theoretical and Experimental Investigation of Thermal Dynamics of Steinhartâ€“Hart Negative Temperature Coefficient Thermistors. Journal of Heat Transfer, 2019, 141, .	2.1	45
7	An accurate explicit form of the Hankinsonâ€“Thomasâ€“Phillips correlation for prediction of the natural gas compressibility factor. Journal of Petroleum Science and Engineering, 2014, 117, 46-53.	4.2	44
8	Batch adsorptive removal of benzoic acid from aqueous solution onto modified natural vermiculite: Kinetic, isotherm and thermodynamic studies. Journal of Industrial and Engineering Chemistry, 2015, 31, 199-215.	5.8	44
9	Approximating the minimum reflux ratio of multicomponent distillation columns based on the Adomian decomposition method. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 880-886.	5.3	41
10	A new parametric algorithm for isothermal flash calculations by the Adomian decomposition of Michaelisâ€“Menten type nonlinearities. Fluid Phase Equilibria, 2015, 395, 44-50.	2.5	34
11	Series solution of nonlinear differential equations by a novel extension of the Laplace transform method. International Journal of Computer Mathematics, 2016, 93, 1299-1319.	1.8	33
12	An improved algorithm for calculation of the natural gas compressibility factor via the Hallâ€“Yarborough equation of state. Canadian Journal of Chemical Engineering, 2014, 92, 2211-2217.	1.7	28
13	Finding all real roots of a polynomial by matrix algebra and the Adomian decomposition method. Journal of the Egyptian Mathematical Society, 2014, 22, 524-528.	1.2	26
14	Explicit Frostâ€“Kalkwarf type equations for calculation of vapour pressure of liquids from triple to critical point by the Adomian decomposition method. Canadian Journal of Chemical Engineering, 2017, 95, 2199-2208.	1.7	25
15	Chaos control in the cerium-catalyzed Belousovâ€“Zhabotinsky reaction using recurrence quantification analysis measures. Chaos, Solitons and Fractals, 2015, 76, 121-129.	5.1	24
16	A more realistic approach toward the differential equation governing the glass transition phenomenon. Intermetallics, 2013, 32, 35-38.	3.9	23
17	An Explicit Analytic Solution to the Thomas-Fermi Equation by the Improved Differential Transform Method. Acta Physica Polonica A, 2014, 125, 1083-1087.	0.5	23
18	Feedback control strategies for a ceriumâ€catalyzed Belousovâ€“Zhabotinsky chemical reaction system. Canadian Journal of Chemical Engineering, 2015, 93, 1212-1221.	1.7	23

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19	An Efficient Numerical Scheme to Solve a Quintic Equation of State for Supercritical Fluids. Chemical Engineering Communications, 2015, 202, 402-407.	2.6	21
20	On computation of real eigenvalues of matrices via the Adomian decomposition. Journal of the Egyptian Mathematical Society, 2014, 22, 6-10.	1.2	20
21	The extended Laplace transform method for mathematical analysis of the Thomasâ€“Fermi equation. Chinese Journal of Physics, 2017, 55, 2548-2558.	3.9	18
22	Computation of analytical Laplace transforms by the differential transform method. Mathematical and Computer Modelling, 2012, 56, 145-151.	2.0	15
23	A combined technique for computation of energy-effect of cycles in conjugated molecules. Journal of Mathematical Chemistry, 2015, 53, 1113-1125.	1.5	15
24	A method for inverting the Laplace transforms of two classes of rational transfer functions in control engineering. AEJ - Alexandria Engineering Journal, 2020, 59, 4879-4887.	6.4	14
25	Numerical and semi-numerical solutions of a modified ThÃ©venin model for calculating terminal voltage of battery cells. Journal of Energy Storage, 2022, 45, 103746.	8.1	14
26	Modeling solubility of refrigerants in ionic liquids using Peng Robinson-Two State equation of state. Fluid Phase Equilibria, 2019, 486, 80-90.	2.5	13
27	The Differential Transform Method as a New Computational Tool for Laplace Transforms. The National Academy of Sciences, India, 2015, 38, 157-160.	1.3	12
28	The Variational Iteration Method for Theoretical Investigation of Falling Film Absorbers. The National Academy of Sciences, India, 2015, 38, 67-70.	1.3	11
29	Effect of dispersed hydrophilic silicon dioxide nanoparticles on batch adsorption of benzoic acid from aqueous solution using modified natural vermiculite: An equilibrium study. Journal of Applied Research and Technology, 2016, 14, 325-337.	0.9	10
30	Batch removal of Pb (Î™Î™) ions from aqueous medium using gamma-Al₂O₃ nanoparticles/ethyl cellulose adsorbent fabricated via electrospinning method: An equilibrium isotherm and characterization study. Polish Journal of Chemical Technology, 2018, 20, 32-39.	0.5	7
31	A novel and computationally efficient algorithm for stability analysis of multi input-multi output process control systems. Korean Journal of Chemical Engineering, 2015, 32, 1733-1743.	2.7	6
32	An accurate numerical method for inversion of Laplace transforms with applications in process dynamics and control. Canadian Journal of Chemical Engineering, 2021, 99, 1374-1389.	1.7	6
33	An Integration-Free Method for Inversion of Laplace Transforms: A Useful Tool for Process Control Analysis and Design. Chemical Engineering Communications, 0, , .	2.6	2
34	An Efficient Measure for Quantification of Nonlinearity in Chemical Engineering Processes Based on I/O Steady-State Loci. Chemical Engineering Communications, 2015, 202, 1557-1563.	2.6	2
35	A Practical Method for Computation of Laplace Inverses by Postâ€“Widderâ€™s Formula. The National Academy of Sciences, India, 2017, 40, 197-198.	1.3	2
36	Oxygen diffusion in a spherical cell subject to nonlinear Michaelisâ€“Menten kinetics: Mathematical analysis by two exact methods. International Journal of Biomathematics, 2017, 10, 1750025.	2.9	2

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37	Computing graph energy: An alternative approach. Kragujevac Journal of Science, 2014, , 69-78.	0.4	2
38	Erratum to â€œPerformance assessment of Taoâ€“Mason equation of state: Results for vaporâ€“liquid equilibrium properties [J. Ind. Eng. Chem. 17 (4) (2011) 667â€“674]â€. Journal of Industrial and Engineering Chemistry, 2020, 85, 308-309.	5.8	1
39	Density, Viscosity, and Refractive Index Measurements for Binary Mixtures of N-Methyldiethanolamine (MDEA), Diethanolamine (DEA), and 2-Amino-2-methyl-1-propanol (AMP) with 1-Ethyl-3-methylimidazolium Acetate ([Emim][Ac]). Journal of Chemical & Engineering Data, 2021, 66, 3520-3530.	1.9	1