

Hooman Fatoorehchi

List of Publications by Year in descending order

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Version: 2024-02-01

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	Numerical and semi-numerical solutions of a modified ThÃ©venin model for calculating terminal voltage of battery cells. <i>Journal of Energy Storage</i> , 2022, 45, 103746.	8.1	14
2	An accurate numerical method for inversion of Laplace transforms with applications in process dynamics and control. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 1374-1389.	1.7	6
3	Preparation of pH-sensitive chitosan/polyvinylpyrrolidone/Î±-Fe ₂ O ₃ nanocomposite for drug delivery application: Emphasis on ameliorating restrictions. <i>International Journal of Biological Macromolecules</i> , 2021, 173, 409-420.	7.5	84
4	Synthesis and characterization of chitosan/polyvinylpyrrolidone coated nanoporous Î³-Alumina as a pH-sensitive carrier for controlled release of quercetin. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 600-613.	7.5	60
5	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]). <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 3520-3530.	1.9	1
6	A method for inverting the Laplace transforms of two classes of rational transfer functions in control engineering. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4879-4887.	6.4	14
7	Erratum to "Performance assessment of Tao's Mason equation of state: Results for vapor-liquid equilibrium properties [J. Ind. Eng. Chem. 17 (4) (2011) 667-674]". <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 85, 308-309.	5.8	1
8	Theoretical and Experimental Investigation of Thermal Dynamics of Steinhart-Hart Negative Temperature Coefficient Thermistors. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	45
9	Modeling solubility of refrigerants in ionic liquids using Peng Robinson-Two State equation of state. <i>Fluid Phase Equilibria</i> , 2019, 486, 80-90.	2.5	13
10	Batch removal of Pb (II) ions from aqueous medium using gamma-Al ₂ O ₃ nanoparticles/ethyl cellulose adsorbent fabricated via electrospinning method: An equilibrium isotherm and characterization study. <i>Polish Journal of Chemical Technology</i> , 2018, 20, 32-39.	0.5	7
11	A Practical Method for Computation of Laplace Inverses by Post-Widder's Formula. <i>The National Academy of Sciences, India</i> , 2017, 40, 197-198.	1.3	2
12	Explicit Frost-Kalkwarf type equations for calculation of vapour pressure of liquids from triple to critical point by the Adomian decomposition method. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 2199-2208.	1.7	25
13	The extended Laplace transform method for mathematical analysis of the Thomas-Fermi equation. <i>Chinese Journal of Physics</i> , 2017, 55, 2548-2558.	3.9	18
14	Oxygen diffusion in a spherical cell subject to nonlinear Michaelis-Menten kinetics: Mathematical analysis by two exact methods. <i>International Journal of Biomathematics</i> , 2017, 10, 1750025.	2.9	2
15	Effect of dispersed hydrophilic silicon dioxide nanoparticles on batch adsorption of benzoic acid from aqueous solution using modified natural vermiculite: An equilibrium study. <i>Journal of Applied Research and Technology</i> , 2016, 14, 325-337.	0.9	10
16	Series solution of nonlinear differential equations by a novel extension of the Laplace transform method. <i>International Journal of Computer Mathematics</i> , 2016, 93, 1299-1319.	1.8	33
17	Feedback control strategies for a cerium-catalyzed Belousov-Zhabotinsky chemical reaction system. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1212-1221.	1.7	23
18	The Differential Transform Method as a New Computational Tool for Laplace Transforms. <i>The National Academy of Sciences, India</i> , 2015, 38, 157-160.	1.3	12

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19	Analytical approximate solutions for a general nonlinear resistor–nonlinear capacitor circuit model. <i>Applied Mathematical Modelling</i> , 2015, 39, 6021-6031.	4.2	47
20	A combined technique for computation of energy-effect of cycles in conjugated molecules. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 1113-1125.	1.5	15
21	Batch adsorptive removal of benzoic acid from aqueous solution onto modified natural vermiculite: Kinetic, isotherm and thermodynamic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 199-215.	5.8	44
22	Chaos control in the cerium-catalyzed Belousov–Zhabotinsky reaction using recurrence quantification analysis measures. <i>Chaos, Solitons and Fractals</i> , 2015, 76, 121-129.	5.1	24
23	A novel and computationally efficient algorithm for stability analysis of multi input-multi output process control systems. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1733-1743.	2.7	6
24	A new parametric algorithm for isothermal flash calculations by the Adomian decomposition of Michaelis–Menten type nonlinearities. <i>Fluid Phase Equilibria</i> , 2015, 395, 44-50.	2.5	34
25	The Variational Iteration Method for Theoretical Investigation of Falling Film Absorbers. <i>The National Academy of Sciences, India</i> , 2015, 38, 67-70.	1.3	11
26	An Efficient Numerical Scheme to Solve a Quintic Equation of State for Supercritical Fluids. <i>Chemical Engineering Communications</i> , 2015, 202, 402-407.	2.6	21
27	An Efficient Measure for Quantification of Nonlinearity in Chemical Engineering Processes Based on I/O Steady-State Loci. <i>Chemical Engineering Communications</i> , 2015, 202, 1557-1563.	2.6	2
28	Adsorption Characteristics of Congo Red from Aqueous Solution onto Tea Waste. <i>Chemical Engineering Communications</i> , 2015, 202, 181-193.	2.6	118
29	An Explicit Analytic Solution to the Thomas-Fermi Equation by the Improved Differential Transform Method. <i>Acta Physica Polonica A</i> , 2014, 125, 1083-1087.	0.5	23
30	Finding all real roots of a polynomial by matrix algebra and the Adomian decomposition method. <i>Journal of the Egyptian Mathematical Society</i> , 2014, 22, 524-528.	1.2	26
31	On computation of real eigenvalues of matrices via the Adomian decomposition. <i>Journal of the Egyptian Mathematical Society</i> , 2014, 22, 6-10.	1.2	20
32	An accurate explicit form of the Hankinson–Thomas–Phillips correlation for prediction of the natural gas compressibility factor. <i>Journal of Petroleum Science and Engineering</i> , 2014, 117, 46-53.	4.2	44
33	Approximating the minimum reflux ratio of multicomponent distillation columns based on the Adomian decomposition method. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 880-886.	5.3	41
34	An improved algorithm for calculation of the natural gas compressibility factor via the Hall–Yarborough equation of state. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 2211-2217.	1.7	28
35	Computing graph energy: An alternative approach. <i>Kragujevac Journal of Science</i> , 2014, , 69-78.	0.4	2
36	A more realistic approach toward the differential equation governing the glass transition phenomenon. <i>Intermetallics</i> , 2013, 32, 35-38.	3.9	23

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37	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
38	Computation of analytical Laplace transforms by the differential transform method. Mathematical and Computer Modelling, 2012, 56, 145-151.	2.0	15
39	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