

# Hossein Abolghasemi

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

1,640  
citations

279798

23  
h-index

302126

39  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive batch and continuous methyl orange removal studies using surfactant modified chitosan-clinoptilolite composite. <i>Separation and Purification Technology</i> , 2021, 267, 118601.	7.9	31
2	Response Surface Optimization of Dysprosium Extraction Using an Emulsion Liquid Membrane Integrated with Multi-Walled Carbon Nanotubes. <i>Chemical Engineering and Technology</i> , 2018, 41, 1857-1870.	1.5	19
3	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
4	Pertraction of dysprosium from nitrate medium by emulsion liquid membrane containing mixed surfactant system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 120, 184-194.	3.6	21
5	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
6	Facilitated transport of Europium through supported liquid membrane using Cyanex272 as carrier and mass transfer modelling. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 524-534.	1.7	7
7	Theoretical and experimental study of cephalexin batch adsorption dynamics using walnut shell-based activated carbon. <i>Desalination and Water Treatment</i> , 2016, 57, 27339-27348.	1.0	5
8	Production and characterization of <sup>166</sup> Ho polylactic acid microspheres. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2016, 59, 24-29.	1.0	7
9	Tetracycline adsorption by H <sub>3</sub> PO <sub>4</sub> -activated carbon produced from apricot nut shells: A batch study. <i>Chemical Engineering Research and Design</i> , 2016, 102, 700-709.	5.6	159
10	Aqueous phase adsorption of cephalexin by walnut shell-based activated carbon: A fixed-bed column study. <i>Applied Surface Science</i> , 2016, 375, 144-153.	6.1	142
11	Batch adsorption of cephalexin antibiotic from aqueous solution by walnut shell-based activated carbon. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 58, 357-365.	5.3	119
12	Continuous adsorption study of congo red using tea waste in a fixed-bed column. <i>Desalination and Water Treatment</i> , 2016, 57, 8437-8446.	1.0	26
13	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
14	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
15	Dysprosium pertraction through facilitated supported liquid membrane using D2EHPA as carrier. <i>Chemical Papers</i> , 2015, 69, .	2.2	18
16	Intensification of Europium extraction through a supported liquid membrane using mixture of D2EHPA and Cyanex272 as carrier. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 92, 18-24.	3.6	41
17	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
18	Analytical approximate solutions for a general nonlinear resistor-nonlinear capacitor circuit model. <i>Applied Mathematical Modelling</i> , 2015, 39, 6021-6031.	4.2	47

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19	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
20	Chaos control in the cerium-catalyzed Belousovâ€Žhabotinsky reaction using recurrence quantification analysis measures. <i>Chaos, Solitons and Fractals</i> , 2015, 76, 121-129.	5.1	24
21	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
22	Solvent extraction of rubidium from gold waste using conventional SX and new CFE methods. <i>Rare Metals</i> , 2015, 34, 818-828.	7.1	3
23	Experimental study on the adsorptive behavior of Congo red in cationic surfactant-modified tea waste. <i>Chemical Engineering Research and Design</i> , 2015, 95, 226-236.	5.6	86
24	Synergistic extraction and separation of Dysprosium and Europium by supported liquid membrane. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1642-1648.	2.7	18
25	A new parametric algorithm for isothermal flash calculations by the Adomian decomposition of Michaelisâ€ŽMenten type nonlinearities. <i>Fluid Phase Equilibria</i> , 2015, 395, 44-50.	2.5	34
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	Theoretical and experimental studies of benzoic acid batch adsorption dynamics using vermiculite-based adsorbent. <i>Chemical Engineering Research and Design</i> , 2015, 93, 800-811.	5.6	24
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 Hankinsonâ€ŽThomasâ€ŽPhillips 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	Effective diffusivity in a structured packed column: Experimental and Sherwood number correlating study. <i>Chemical Engineering Research and Design</i> , 2014, 92, 43-53.	5.6	7
35	Mean drops size in the presence of cetyl trimethyl ammonium bromide in horizontal mixer settler. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 93-104.	1.5	3
36	An improved algorithm for calculation of the natural gas compressibility factor via the Hallâ€ŽYarborough equation of state. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 2211-2217.	1.7	28

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37	Effect of silica nanoparticles on the phase inversion of liquid-liquid dispersions. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 733-738.	2.7	12
38	Spray and packed liquid-liquid extraction columns: drop size and dispersed phase mass transfer. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 940-949.	1.5	9
39	A more realistic approach toward the differential equation governing the glass transition phenomenon. <i>Intermetallics</i> , 2013, 32, 35-38.	3.9	23
40	Improving the differential transform method: A novel technique to obtain the differential transforms of nonlinearities by the Adomian polynomials. <i>Applied Mathematical Modelling</i> , 2013, 37, 6008-6017.	4.2	65
41	Computation of analytical Laplace transforms by the differential transform method. <i>Mathematical and Computer Modelling</i> , 2012, 56, 145-151.	2.0	15
42	Axial mixing and mass transfer investigation in a pulsed packed liquid-liquid extraction column using plug flow and axial dispersion models. <i>Chemical Engineering Research and Design</i> , 2012, 90, 193-200.	5.6	31
43	Fractional factorial design for the optimization of supercritical carbon dioxide extraction of La <sup>3+</sup> , Ce <sup>3+</sup> and Sm <sup>3+</sup> ions from a solid matrix using bis(2,4,4-trimethylpentyl)dithiophosphinic acid+tributylphosphate. <i>Chemical Engineering Research and Design</i> , 2011, 89, 827-835.	5.6	30
44	The effect of sodium dodecyl sulfate on mean drop size in a horizontal mixer-settler extractor. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 101-108.	1.7	6
45	The effects of impeller speed and holdup on mean drop size in a mixer settler with spiral-type impeller. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 329-334.	1.7	21
46	A new model for estimation of the thermal conductivity of polymer/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1042-1050.	2.6	3
47	Prediction of solute solubility in supercritical carbon dioxide: A novel semi-empirical model. <i>Chemical Engineering Research and Design</i> , 2010, 88, 893-898.	5.6	66
48	Fractional factorial design for the optimization of hydrothermal synthesis of lanthanum oxide nanoparticles under supercritical water condition. <i>Journal of Supercritical Fluids</i> , 2010, 52, 292-297.	3.2	52
49	The comparison of the behaviors of polymer/clay nanocomposites based on high density polyethylene and polypropylene in exposure of electron irradiation. <i>Polymer Composites</i> , 2010, 31, 128-135.	4.6	5
50	The effects of a surfactant on mean drop size in a mixer-settler extractor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1105-1111.	3.6	32
51	Thermal stability, mechanical and adsorption resistant properties of HDPE/PEG/Clay nanocomposites on exposure to electron beam. <i>E-Polymers</i> , 2008, 8, .	3.0	2
52	Influence of Electron Beam Irradiation on PP/Clay Nanocomposites Prepared by Melt Blending. <i>E-Polymers</i> , 2007, 7, .	3.0	3
53	An Integration-Free Method for Inversion of Laplace Transforms: A Useful Tool for Process Control Analysis and Design. <i>Chemical Engineering Communications</i> , 0, , .	2.6	2