

Shohreh Fatemi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83 papers	1,414 citations	22 h-index	34 g-index
86 ext. papers	1,630 ext. citations	4.5 avg, IF	5.2 L-index

#	Paper	IF	Citations
83	Kinetic modeling and optimization of the operating conditions of benzene alkylation with ethane on PtH-ZSM-5 catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2022 , 135, 669	1.6	0
82	Catalytic evaluation of metal azolate framework-6 in pristine and metal doped modes in upgrading heavy residual fuel oil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021 , 156, 105093	6	1
81	Nickel supported ZIF-8.PEG modified catalyst: A designed active catalyst with high H ₂ productivity in steam reforming of ethanol at moderate temperature. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105531	6.8	4
80	Methane capture and nitrogen purification from a nitrogen rich reservoir by pressure swing adsorption; experimental and simulation study. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106210	6.8	0
79	Intensified Transformation of Low-Value Residual Fuel Oil to Light Fuels with TPABr:EG as Deep Eutectic Solvent with Dual Functionality at Moderate Temperatures. <i>Energy & Fuels</i> , 2020 , 34, 5497-5510	4.1	4
78	Extraction of highly pure nickel hydroxide from spent NiO/Al ₂ O ₃ catalyst: Statistical study on leaching by sulfuric acid lixiviant and selective precipitation. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103660	6.8	5
77	The role of cerium intercalation in the efficient dry exfoliation of graphene layers at a low temperature. <i>Diamond and Related Materials</i> , 2020 , 101, 107615	3.5	3
76	Influence of water vapor condensation inside nano-porous 4A adsorbent in adsorption-desorption cyclic process of natural gas dehydration. <i>Separation Science and Technology</i> , 2020 , 55, 1286-1302	2.5	2
75	Magnetic property and structural study of nickel supported on reduced graphene oxide prepared by chemical vapor deposition. <i>Surface and Interface Analysis</i> , 2020 , 52, 547-552	1.5	3
74	Highly selective hydrogen production from propane by Ru@Ni core-shell nanocatalyst deposited on reduced graphene oxide by sequential chemical vapor deposition. <i>International Journal of Energy Research</i> , 2020 , 44, 8000-8013	4.5	2
73	Impact of butanol and ammonium fluoride on synthesizing and optical properties of N-doped-carbon dots. <i>Solid State Sciences</i> , 2019 , 97, 105988	3.4	0
72	EPD method of seeding nano ZnO followed by CVD of organo-linker; a step by step method for synthesis of ZIF-8 thin layer on tubular alumina. <i>Materials Chemistry and Physics</i> , 2019 , 235, 121764	4.4	5
71	Bimetallic NiCo-based metal-organic framework: An open metal site adsorbent for enhancing CO ₂ capture. <i>Applied Organometallic Chemistry</i> , 2019 , 33, e5004	3.1	10
70	Activated carbon surface modification by catalytic chemical vapor deposition of natural gas for enhancing adsorption of greenhouse gases. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103085	6.8	6
69	A comparative study on ZIF-8 synthesis in aqueous and methanolic solutions: Effect of temperature and ligand content. <i>Solid State Sciences</i> , 2019 , 91, 108-112	3.4	14
68	Design of a Hybrid Controller for Pressure Swing Adsorption Processes. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1878-1892	4.8	1
67	The synergistic effect between supercritical water and redox properties of iron oxide nanoparticles during in-situ catalytic upgrading of heavy oil with formic acid. Isotopic study. <i>Applied Catalysis B: Environmental</i> , 2018 , 230, 91-101	21.8	33

66	The effect of precursor on the optical properties of carbon quantum dots synthesized by hydrothermal/solvothermal method 2018 ,		5
65	Isotope tracing study on hydrogen donating capability of supercritical water assisted by formic acid to upgrade heavy oil: Computer simulation vs. experiment. <i>Fuel</i> , 2018 , 225, 161-173	7.1	10
64	An efficient photo-catalytic VOC removal process by one-pot synthesized N-F/TiO ₂ nanoparticles in fluidized-spouted bed reactor. <i>Particulate Science and Technology</i> , 2018 , 36, 162-171	2	4
63	Synthesis and stability evaluation of hierarchical silicoaluminophosphates with different structural frameworks in the methanol to olefins process. <i>Particuology</i> , 2018 , 37, 43-53	2.8	12
62	Maximal safe set computation for pressure swing adsorption processes. <i>Computers and Chemical Engineering</i> , 2018 , 109, 179-190	4	2
61	Purification of helium from a cryogenic natural gas nitrogen rejection unit by pressure swing adsorption. <i>Separation and Purification Technology</i> , 2018 , 193, 91-102	8.3	17
60	Effective Design of a Vacuum Pressure Swing Adsorption Process To Recover Dilute Helium from a Natural Gas Source in a Methane-Rich Mixture with Nitrogen. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 12895-12908	3.9	6
59	Synthesis of a nitrogen-doped titanium dioxide/reduced graphene oxide nanocomposite for photocatalysis under visible light irradiation. <i>Particuology</i> , 2018 , 41, 48-57	2.8	10
58	High photocatalytic efficiency of spouting reactor compared with fluidized bed with top irradiation source. <i>Particuology</i> , 2017 , 33, 123-128	2.8	5
57	Dynamical Hybrid Observer for Pressure Swing Adsorption Processes. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10196-10201	6.7	10
56	Kinetic Modelling of Propane Dehydrogenation over a PtSn/hierarchical SAPO-34 Zeolite Catalyst, Including Catalyst Deactivation. <i>Progress in Reaction Kinetics and Mechanism</i> , 2017 , 42, 344-360	0.5	3
55	Kinetic modeling of the methanol to olefins process in the presence of hierarchical SAPO-34 catalyst: parameter estimation, effect of reaction conditions and lifetime prediction. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 122, 1245-1264	1.6	7
54	Design of a dynamical hybrid observer for pressure swing adsorption processes. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21027-21039	6.7	8
53	Titania-reduced graphene oxide nanocomposite as a promising visible light-active photocatalyst for continuous degradation of VVOC in air purification process. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 2089-2098	4.3	11
52	Investigating PSA, VSA, and TSA methods in SMR unit of refineries for hydrogen production with fuel cell specification. <i>Separation and Purification Technology</i> , 2017 , 176, 73-91	8.3	53
51	A hybrid controller for purity control of a pressure swing adsorption process 2017 ,		1
50	Deuterium tracing study of unsaturated aliphatics hydrogenation by supercritical water in upgrading heavy oil. Part I: Non-catalytic cracking. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 278-285	4.2	31
49	Comparative simulation study of PSA, VSA, and TSA processes for purification of methane from CO ₂ via SAPO-34 core-shell adsorbent. <i>Separation Science and Technology</i> , 2016 , 51, 2326-2338	2.5	19

48	A switching decentralized and distributed extended Kalman filter for pressure swing adsorption processes. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 23042-23056	6.7	9
47	Spouted bed reactor for VOC removal by modified nano-TiO ₂ photocatalytic particles. <i>Chemical Engineering Research and Design</i> , 2016 , 115, 241-250	5.5	24
46	CO ₂ Capture from the Tail Gas of Hydrogen Purification Unit by Vacuum Swing Adsorption Process, Using SAPO-34. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 334-350	3.9	16
45	Deuterium tracing study of unsaturated aliphatics hydrogenation by supercritical water in upgrading heavy oil. Part II: Hydrogen donating capacity of water in the presence of iron(III) oxide nanocatalyst. <i>Journal of Supercritical Fluids</i> , 2016 , 110, 75-82	4.2	30
44	One pot microwave synthesis of MCM-41/Cu based MOF composite with improved CO ₂ adsorption and selectivity. <i>Microporous and Mesoporous Materials</i> , 2016 , 231, 154-162	5.3	43
43	Hierarchical SAPO-34 catalytic support for superior selectivity toward propylene in propane dehydrogenation process. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 1289-1296	2.8	5
42	Successive co-operation of supercritical water and silica-supported iron oxide nanoparticles in upgrading of heavy petroleum residue: Suppression of coke deposition over catalyst. <i>Journal of Supercritical Fluids</i> , 2015 , 100, 70-78	4.2	42
41	CH ₄ , C ₂ H ₆ , and C ₂ H ₄ Phase Equilibria on SAPO-34 Using the Vacancy Solution Theory. <i>Separation Science and Technology</i> , 2015 , 50, 1629-1640	2.5	
40	Catalytic cracking of petroleum vacuum residue in supercritical water media: Impact of Fe ₂ O ₃ in the form of free nanoparticles and silica-supported granules. <i>Fuel</i> , 2015 , 159, 538-549	7.1	58
39	Kinetic study of acetaldehyde conversion to ethanol by free and CNT-immobilized baker's yeast in a gas-phase packed bed reactor. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 30, 160-166	6.3	7
38	Mercaptan removal from natural gas by the efficient cyclic adsorption process; a simulation study. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 758-769	4.6	13
37	Kinetic modelling of a commercial sulfur recovery unit based on Claus straight through process: Comparison with equilibrium model. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 30, 50-63	6.3	33
36	Mathematical Modeling and Optimization of Combined Steam and Dry Reforming of Methane Process in Catalytic Fluidized Bed Membrane Reactor. <i>Chemical Engineering Communications</i> , 2015 , 202, 774-786	2.2	15
35	Synthesis and application of ZSM-5/SAPO-34 and SAPO-34/ZSM-5 composite systems for propylene yield enhancement in propane dehydrogenation process. <i>Microporous and Mesoporous Materials</i> , 2015 , 201, 176-189	5.3	33
34	Modeling and simulation pressure-temperature swing adsorption process to remove mercaptan from humid natural gas; a commercial case study. <i>Separation and Purification Technology</i> , 2015 , 139, 88-103	8.3	29
33	Facile and fast, one pot microwave synthesis of metal organic framework copper terephthalate and study CO ₂ and CH ₄ adsorption on it. <i>Journal of Porous Materials</i> , 2015 , 22, 1161-1169	2.4	19
32	Fast carbon nanofiber growth on the surface of activated carbon by microwave irradiation: A modified nano-adsorbent for deep desulfurization of liquid fuels. <i>Chemical Engineering Journal</i> , 2015 , 269, 306-315	14.7	22
31	Seed-assisted OSDA-free synthesis of ZSM-5 zeolite and its application in dehydrogenation of propane. <i>Materials Research Bulletin</i> , 2015 , 65, 253-259	5.1	15

30	Thermodynamic adsorption data of CH ₄ , C ₂ H ₆ , C ₂ H ₄ as the OCM process hydrocarbons on SAPO-34 molecular sieve. <i>Journal of Industrial and Engineering Chemistry</i> , 2014 , 20, 4045-4053	6.3	9
29	Modification of nano-TiO ₂ by doping with nitrogen and fluorine and study acetaldehyde removal under visible light irradiation. <i>Clean Technologies and Environmental Policy</i> , 2014 , 16, 629-636	4.3	21
28	Fabrication of SAPO-34 with Tuned Mesopore Structure. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 1855-1859	1.3	13
27	A Comparative Study of CO ₂ and CH ₄ Adsorption on Silicalite-1 Fabricated by Sonication and Conventional Method. <i>Adsorption Science and Technology</i> , 2014 , 32, 73-87	3.6	13
26	Binary Equilibrium Adsorption Data and Comparison of Zeolites with Activated Carbon for Selective Adsorption of CO ₂ from CH ₄ . <i>Adsorption Science and Technology</i> , 2014 , 32, 707-716	3.6	20
25	Developed Mathematical Model for SAPO-34 Core-Shell Adsorbents in the Adsorption Process of CO ₂ from Natural Gas. <i>Separation Science and Technology</i> , 2014 , 49, 55-67	2.5	4
24	MODELING AND APPLICATION OF RESPONSE SURFACE METHODOLOGY IN OPTIMIZATION OF A COMMERCIAL CONTINUOUS CATALYTIC REFORMING PROCESS. <i>Chemical Engineering Communications</i> , 2014 , 201, 171-190	2.2	2
23	Fabrication of X Zeolite Based Modified Nano TiO ₂ Photocatalytic Paper for Removal of VOC Pollutants under Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 10961-10968	3.9	39
22	Improvement of SAPO-34 fine layer formation on ceramic and steel supports by applying uniform-size synthesized seed particles. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013 , 8, 301-310	1.3	3
21	Synthesis and modification of nano-sized TiO ₂ for photo-degradation process under visible light irradiation; a PlacketBurman experimental design. <i>Materials Research Bulletin</i> , 2013 , 48, 3196-3203	5.1	9
20	Investigation of Influential Parameters in Deep Oxidative Desulfurization of Dibenzothiophene with Hydrogen Peroxide and Formic Acid. <i>International Journal of Chemical Engineering</i> , 2013 , 2013, 1-10	2.2	24
19	Loading hydrophilic drug in solid lipid media as nanoparticles: statistical modeling of entrapment efficiency and particle size. <i>International Journal of Pharmaceutics</i> , 2012 , 424, 128-37	6.5	95
18	Kinetic modeling and optimization of the operating condition of MTO process on SAPO-34 catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 29-37	6.3	65
17	Development of T type zeolite for separation of CO ₂ from CH ₄ in adsorption processes. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 1687-1695	5.5	37
16	Modeling of a PSA-TSA Process for Separation of CH ₄ from C ₂ Products of OCM Reaction. <i>Separation Science and Technology</i> , 2012 , 47, 1199-1212	2.5	5
15	TiO ₂ nanoparticle layer formation on ceramic support, a statistical approach to control influential synthesis parameters. <i>Powder Technology</i> , 2012 , 229, 51-60	5.2	11
14	Process variables in the formation of nanoparticles of megestrol acetate through rapid expansion of supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2012 , 70, 1-7	4.2	20
13	ECONOMIC OPTIMIZATION OF THE CUMENE PRODUCTION PROCESS USING RESPONSE SURFACE METHODOLOGY. <i>Chemical Engineering Communications</i> , 2012 , 199, 1375-1393	2.2	4

12	CO ₂ /CH ₄ phase equilibria on modified multi-walled carbon nanotubes using Gibbs excess energy models based on vacancy solution theory. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 769-776	2.3	6
11	Application of Artificial Neural Network in Simulation of Supercritical Extraction of Valerenic Acid from <i>Valeriana officinalis</i> L.. <i>ISRN Chemical Engineering</i> , 2012 , 2012, 1-7		2
10	Improvement of light olefins selectivity and catalyst lifetime in MTO reaction; using Ni and Mg-modified SAPO-34 synthesized by combination of two templates. <i>Journal of Industrial and Engineering Chemistry</i> , 2011 , 17, 755-761	6.3	112
9	Improving CO ₂ /CH ₄ adsorptive selectivity of carbon nanotubes by functionalization with nitrogen-containing groups. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 1669-1675	5.5	37
8	Preparation of Core-Shell SAPO-34 Adsorbent on Ceramic Particles; Improvement of CO ₂ Separation from Natural Gas. <i>Separation Science and Technology</i> , 2011 , 46, 1138-1143	2.5	12
7	Statistical medium optimization and biodegradative capacity of <i>Ralstonia eutropha</i> toward p-nitrophenol. <i>Biodegradation</i> , 2010 , 21, 645-57	4.1	12
6	A statistical approach of heat transfer coefficient analysis in the slurry bubble column. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 508-516	5.5	7
5	Essential oil composition of <i>Valeriana officinalis</i> L. roots cultivated in Iran. Comparative analysis between supercritical CO ₂ extraction and hydrodistillation. <i>Journal of Chromatography A</i> , 2008 , 1180, 159-64	4.5	24
4	Experimental study on the performance of mechanical cooling tower with two types of film packing. <i>Energy Conversion and Management</i> , 2007 , 48, 277-280	10.6	53
3	Optimization of the water-based road-marking paint by experimental design, mixture method. <i>Progress in Organic Coatings</i> , 2006 , 55, 337-344	4.8	40
2	Reaction rate hysteresis in the hydrotreating of thiophene in wide- and narrow-pore catalysts during temperature cycling. <i>Canadian Journal of Chemical Engineering</i> , 2002 , 80, 231-238	2.3	3
1	Modeling Based Investigation of Ultrafine SAPO-34 Core-shell Adsorbent in Cyclic Adsorption Process for Purification of Natural Gas from CO ₂ . <i>International Journal of Theoretical and Applied Nanotechnology</i> ,		2