Shohreh Fatemi

List of Publications by Citations

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	Improvement of light olefins selectivity and catalyst lifetime in MTO reaction; using Ni and Mg-modified SAPO-34 synthesized by combination of two templates. *Journal of Industrial and Engineering Chemistry*, **2011**, 17, 755-761	6.3	112
82	Loading hydrophilic drug in solid lipid media as nanoparticles: statistical modeling of entrapment efficiency and particle size. *International Journal of Pharmaceutics*, **2012**, 424, 128-37	6.5	95
81	Kinetic modeling and optimization of the operating condition of MTO process on SAPO-34 catalyst. *Journal of Industrial and Engineering Chemistry*, **2012**, 18, 29-37	6.3	65
80	Catalytic cracking of petroleum vacuum residue in supercritical water media: Impact of □Fe2O3 in the form of free nanoparticles and silica-supported granules. *Fuel*, **2015**, 159, 538-549	7.1	58
79	Investigating PSA, VSA, and TSA methods in SMR unit of refineries for hydrogen production with fuel cell specification. *Separation and Purification Technology*, **2017**, 176, 73-91	8.3	53
78	Experimental study on the performance of mechanical cooling tower with two types of film packing. *Energy Conversion and Management*, **2007**, 48, 277-280	10.6	53
77	One pot microwave synthesis of MCM-41/Cu based MOF composite with improved CO 2 adsorption and selectivity. *Microporous and Mesoporous Materials*, **2016**, 231, 154-162	5.3	43
76	Successive co-operation of supercritical water and silica-supported iron oxide nanoparticles in upgrading of heavy petroleum residue: Suppression of coke deposition over catalyst. *Journal of Supercritical Fluids*, **2015**, 100, 70-78	4.2	42
75	Optimization of the water-based road-marking paint by experimental design, mixture method. *Progress in Organic Coatings*, **2006**, 55, 337-344	4.8	40
74	Fabrication of X Zeolite Based Modified Nano TiO2 Photocatalytic Paper for Removal of VOC Pollutants under Visible Light. *Industrial & Engineering Chemistry Research*, **2013**, 52, 10961-10968	3.9	39
73	Development of T type zeolite for separation of CO2 from CH4 in adsorption processes. *Chemical Engineering Research and Design*, **2012**, 90, 1687-1695	5.5	37
72	Improving CO2/CH4 adsorptive selectivity of carbon nanotubes by functionalization with nitrogen-containing groups. *Chemical Engineering Research and Design*, **2011**, 89, 1669-1675	5.5	37
71	Kinetic modelling of a commercial sulfur recovery unit based on Claus straight through process: Comparison with equilibrium model. *Journal of Industrial and Engineering Chemistry*, **2015**, 30, 50-63	6.3	33
70	Synthesis and application of ZSM-5/SAPO-34 and SAPO-34/ZSM-5 composite systems for propylene yield enhancement in propane dehydrogenation process. *Microporous and Mesoporous Materials*, **2015**, 201, 176-189	5.3	33
69	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. *Applied Catalysis B: Environmental*, **2018**, 230, 91-101	21.8	33
68	Deuterium tracing study of unsaturated aliphatics hydrogenation by supercritical water in upgrading heavy oil. Part I: Non-catalytic cracking. *Journal of Supercritical Fluids*, **2016**, 107, 278-285	4.2	31
67	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. *Journal of Supercritical Fluids*, **2016**, 110, 75-82	4.2	30

66	Modeling and simulation pressure-temperature swing adsorption process to remove mercaptan from humid natural gas; a commercial case study. *Separation and Purification Technology*, **2015**, 139, 88-103	8.3	29
65	Spouted bed reactor for VOC removal by modified nano-TiO2 photocatalytic particles. *Chemical Engineering Research and Design*, **2016**, 115, 241-250	5.5	24
64	Investigation of Influential Parameters in Deep Oxidative Desulfurization of Dibenzothiophene with Hydrogen Peroxide and Formic Acid. *International Journal of Chemical Engineering*, **2013**, 2013, 1-10	2.2	24
63	Essential oil composition of Valeriana officinalis L. roots cultivated in Iran. Comparative analysis between supercritical CO2 extraction and hydrodistillation. *Journal of Chromatography A*, **2008**, 1180, 159-64	4.5	24
62	Fast carbon nanofiber growth on the surface of activated carbon by microwave irradiation: A modified nano-adsorbent for deep desulfurization of liquid fuels. *Chemical Engineering Journal*, **2015**, 269, 306-315	14.7	22
61	Modification of nano-TiO2 by doping with nitrogen and fluorine and study acetaldehyde removal under visible light irradiation. *Clean Technologies and Environmental Policy*, **2014**, 16, 629-636	4.3	21
60	Binary Equilibrium Adsorption Data and Comparison of Zeolites with Activated Carbon for Selective Adsorption of CO2 from CH4. *Adsorption Science and Technology*, **2014**, 32, 707-716	3.6	20
59	Process variables in the formation of nanoparticles of megestrol acetate through rapid expansion of supercritical CO2. *Journal of Supercritical Fluids*, **2012**, 70, 1-7	4.2	20
58	Comparative simulation study of PSA, VSA, and TSA processes for purification of methane from CO2 via SAPO-34 core-shell adsorbent. *Separation Science and Technology*, **2016**, 51, 2326-2338	2.5	19
57	Facile and fast, one pot microwave synthesis of metal organic framework copper terephthalate and study CO2 and CH4 adsorption on it. *Journal of Porous Materials*, **2015**, 22, 1161-1169	2.4	19
56	Purification of helium from a cryogenic natural gas nitrogen rejection unit by pressure swing adsorption. *Separation and Purification Technology*, **2018**, 193, 91-102	8.3	17
55	CO2 Capture from the Tail Gas of Hydrogen Purification Unit by Vacuum Swing Adsorption Process, Using SAPO-34. *Industrial & Engineering Chemistry Research*, **2016**, 55, 334-350	3.9	16
54	Mathematical Modeling and Optimization of Combined Steam and Dry Reforming of Methane Process in Catalytic Fluidized Bed Membrane Reactor. *Chemical Engineering Communications*, **2015**, 202, 774-786	2.2	15
53	Seed-assisted OSDA-free synthesis of ZSM-5 zeolite and its application in dehydrogenation of propane. *Materials Research Bulletin*, **2015**, 65, 253-259	5.1	15
52	A comparative study on ZIF-8 synthesis in aqueous and methanolic solutions: Effect of temperature and ligand content. *Solid State Sciences*, **2019**, 91, 108-112	3.4	14
51	Mercaptan removal from natural gas by the efficient cyclic adsorption process; a simulation study. *Journal of Natural Gas Science and Engineering*, **2015**, 26, 758-769	4.6	13
50	Fabrication of SAPO-34 with Tuned Mesopore Structure. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 1855-1859	1.3	13
49	A Comparative Study of CO2 and CH4 Adsorption on Silicalite-1 Fabricated by Sonication and Conventional Method. *Adsorption Science and Technology*, **2014**, 32, 73-87	3.6	13

48	Synthesis and stability evaluation of hierarchical silicoaluminophosphates with different structural frameworks in the methanol to olefins process. *Particuology*, **2018**, 37, 43-53	2.8	12
47	Preparation of Core-Shell SAPO-34 Adsorbent on Ceramic Particles; Improvement of CO2 Separation from Natural Gas. *Separation Science and Technology*, **2011**, 46, 1138-1143	2.5	12
46	Statistical medium optimization and biodegradative capacity of Ralstonia eutropha toward p-nitrophenol. *Biodegradation*, **2010**, 21, 645-57	4.1	12
45	Titania-reduced graphene oxide nanocomposite as a promising visible light-active photocatalyst for continuous degradation of VVOC in air purification process. *Clean Technologies and Environmental Policy*, **2017**, 19, 2089-2098	4.3	11
44	TiO2 nanoparticle layer formation on ceramic support, a statistical approach to control influential synthesis parameters. *Powder Technology*, **2012**, 229, 51-60	5.2	11
43	Bimetallic Ni□Co-based metal□organic framework: An open metal site adsorbent for enhancing CO2 capture. *Applied Organometallic Chemistry*, **2019**, 33, e5004	3.1	10
42	Isotope tracing study on hydrogen donating capability of supercritical water assisted by formic acid to upgrade heavy oil: Computer simulation vs. experiment. *Fuel*, **2018**, 225, 161-173	7.1	10
41	Synthesis of a nitrogen-doped titanium dioxide□reduced graphene oxide nanocomposite for photocatalysis under visible light irradiation. *Particuology*, **2018**, 41, 48-57	2.8	10
40	A switching decentralized and distributed extended Kalman filter for pressure swing adsorption processes. *International Journal of Hydrogen Energy*, **2016**, 41, 23042-23056	6.7	9
39	Thermodynamic adsorption data of CH4, C2H6, C2H4 as the OCM process hydrocarbons on SAPO-34 molecular sieve. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 4045-4053	6.3	9
38	Synthesis and modification of nano-sized TiO2 for photo-degradation process under visible light irradiation; a Placket□Burman experimental design. *Materials Research Bulletin*, **2013**, 48, 3196-3203	5.1	9
37	Design of a dynamical hybrid observer for pressure swing adsorption processes. *International Journal of Hydrogen Energy*, **2017**, 42, 21027-21039	6.7	8
36	Kinetic study of acetaldehyde conversion to ethanol by free and CNT-immobilized baker's yeast in a gas-phase packed bed reactor. *Journal of Industrial and Engineering Chemistry*, **2015**, 30, 160-166	6.3	7
35	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. *Reaction Kinetics, Mechanisms and Catalysis*, **2017**, 122, 1245-1264	1.6	7
34	A statistical approach of heat transfer coefficient analysis in the slurry bubble column. *Chemical Engineering Research and Design*, **2008**, 86, 508-516	5.5	7
33	Activated carbon surface modification by catalytic chemical vapor deposition of natural gas for enhancing adsorption of greenhouse gases. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103085	6.8	6
32	CO2□CH4 phase equilibria on modified multi-walled carbon nanotubes using Gibbs excess energy models based on vacancy solution theory. *Canadian Journal of Chemical Engineering*, **2012**, 90, 769-776	2.3	6
31	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. *Industrial & Engineering Chemistry Research*, **2018**, 57, 12895-12908	3.9	6

30	High photocatalytic efficiency of spouting reactor compared with fluidized bed with top irradiation source. *Particuology*, **2017**, 33, 123-128	2.8	5
29	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. *Materials Chemistry and Physics*, **2019**, 235, 121764	4.4	5
28	Hierarchical SAPO-34 catalytic support for superior selectivity toward propylene in propane dehydrogenation process. *Korean Journal of Chemical Engineering*, **2015**, 32, 1289-1296	2.8	5
27	The effect of precursor on the optical properties of carbon quantum dots synthesized by hydrothermal/solvothermal method **2018**,		5
26	Modeling of a PSA-TSA Process for Separation of CH4 from C2 Products of OCM Reaction. *Separation Science and Technology*, **2012**, 47, 1199-1212	2.5	5
25	Extraction of highly pure nickel hydroxide from spent NiO/Al2O3 catalyst: Statistical study on leaching by sulfuric acid lixiviant and selective precipitation. *Journal of Environmental Chemical Engineering*, **2020**, 8, 103660	6.8	5
24	Intensified Transformation of Low-Value Residual Fuel Oil to Light Fuels with TPABr:EG as Deep Eutectic Solvent with Dual Functionality at Moderate Temperatures. *Energy & Fuels*, **2020**, 34, 5497-5510	4.1	4
23	An efficient photo-catalytic VOC removal process by one-pot synthesized N-F/TiO2 nanoparticles in fluidized-spouted bed reactor. *Particulate Science and Technology*, **2018**, 36, 162-171	2	4
22	Developed Mathematical Model for SAPO-34 Core-Shell Adsorbents in the Adsorption Process of CO2 from Natural Gas. *Separation Science and Technology*, **2014**, 49, 55-67	2.5	4
21	ECONOMIC OPTIMIZATION OF THE CUMENE PRODUCTION PROCESS USING RESPONSE SURFACE METHODOLOGY. *Chemical Engineering Communications*, **2012**, 199, 1375-1393	2.2	4
20	Nickel supported ZIF-8.PEG modified catalyst: A designed active catalyst with high H2 productivity in steam reforming of ethanol at moderate temperature. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105531	6.8	4
19	Kinetic Modelling of Propane Dehydrogenation over a Pt□n/hierarchical SAPO-34 Zeolite Catalyst, Including Catalyst Deactivation. *Progress in Reaction Kinetics and Mechanism*, **2017**, 42, 344-360	0.5	3
18	Improvement of SAPO-34 fine layer formation on ceramic and steel supports by applying uniform-size synthesized seed particles. *Asia-Pacific Journal of Chemical Engineering*, **2013**, 8, 301-310	1.3	3
17	Reaction rate hysteresis in the hydrotreating of thiophene in wide- and narrow-pore catalysts during temperature cycling. *Canadian Journal of Chemical Engineering*, **2002**, 80, 231-238	2.3	3
16	The role of cerium intercalation in the efficient dry exfoliation of graphene layers at a low temperature. *Diamond and Related Materials*, **2020**, 101, 107615	3.5	3
15	Magnetic property and structural study of nickel supported on reduced graphene oxide prepared by chemical vapor deposition. *Surface and Interface Analysis*, **2020**, 52, 547-552	1.5	3
14	MODELING AND APPLICATION OF RESPONSE SURFACE METHODOLOGY IN OPTIMIZATION OF A COMMERCIAL CONTINUOUS CATALYTIC REFORMING PROCESS. *Chemical Engineering Communications*, **2014**, 201, 171-190	2.2	2
13	Modeling Based Investigation of Ultrafine SAPO-34 Core-shell Adsorbent in Cyclic Adsorption Process for Purification of Natural Gas from CO2. *International Journal of Theoretical and Applied Nanotechnology*,		2

12	Application of Artificial Neural Network in Simulation of Supercritical Extraction of Valerenic Acid from Valeriana officinalis L.. *ISRN Chemical Engineering*, **2012**, 2012, 1-7		2
11	Influence of water vapor condensation inside nano-porous 4A adsorbent in adsorption-desorption cyclic process of natural gas dehydration. *Separation Science and Technology*, **2020**, 55, 1286-1302	2.5	2
10	Maximal safe set computation for pressure swing adsorption processes. *Computers and Chemical Engineering*, **2018**, 109, 179-190	4	2
9	Highly selective hydrogen production from propane by Ru□Ni core□shell nanocatalyst deposited on reduced graphene oxide by sequential chemical vapor deposition. *International Journal of Energy Research*, **2020**, 44, 8000-8013	4.5	2
8	Design of a Hybrid Controller for Pressure Swing Adsorption Processes. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 1878-1892	4.8	1
7	A hybrid controller for purity control of a pressure swing adsorption process **2017**,		1
6	Catalytic evaluation of metal azolate framework-6 in pristine and metal doped modes in upgrading heavy residual fuel oil. *Journal of Analytical and Applied Pyrolysis*, **2021**, 156, 105093	6	1
5	Dynamical Hybrid Observer for Pressure Swing Adsorption Processes. *IFAC-PapersOnLine*, **2017**, 50, 10196-10201	6.7	1
4	Impact of butanol and ammonium fluoride on synthesizing and optical properties of N-doped-carbon dots. *Solid State Sciences*, **2019**, 97, 105988	3.4	0
3	Methane capture and nitrogen purification from a nitrogen rich reservoir by pressure swing adsorption; experimental and simulation study. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106210	6.8	0
2	Kinetic modeling and optimization of the□operating conditions of benzene alkylation with ethane on PtH-ZSM-5 catalyst. *Reaction Kinetics, Mechanisms and Catalysis*, **2022**, 135, 669	1.6	0
1	CH4, C2H6, and C2H4 Phase Equilibria on SAPO-34 Using the Vacancy Solution Theory. *Separation Science and Technology*, **2015**, 50, 1629-1640	2.5	