

Mohammad Reza Rahimpour

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.

452
papers

10,552
citations

47
h-index

74
g-index

469
ext. papers

12,171
ext. citations

5.4
avg, IF

7.03
L-index

#	Paper	IF	Citations
452	Fundamentals of membrane technology 2022 , 1-23		
451	Polarity-changing solvents for CO2 capture 2022 , 21-37		0
450	CO2 utilization in methane reforming using La-doped SBA-16 catalysts prepared via pH adjustment method. <i>Fuel</i> , 2022 , 322, 124248	7.1	1
449	Modeling and optimization of ammonia process: Effect of hydrogen unit performance on the ammonia yield. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 39011-39011	6.7	1
448	Converting Cyclohexanone to Liquid Fuel-Grade Products: A Characterization and Comparison Study of Hydrotreating Molybdenum Catalysts. <i>Catalysis Letters</i> , 2021 , 151, 3343-3360	2.8	4
447	Potential and Challenges of Carbon Sequestration in Soils 2021 , 1-21		2
446	Simultaneous production of ethylene and hydrogen through carbon-dioxide-assisted conversion of ethane over cobalt-molybdenum catalysts. <i>Journal of CO2 Utilization</i> , 2021 , 47, 101499	7.6	4
445	Theoretical and experimental assessment of UV resistance of high-density polyethylene: Screening and optimization of hindered amine light stabilizers. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51262-9	2.9	0
444	Applying ultrasonic fields to separate water contained in medium-gravity crude oil emulsions and determining crude oil adhesion coefficients. <i>Ultrasonics Sonochemistry</i> , 2021 , 70, 105303	8.9	19
443	CFD simulation of CO2 removal from hydrogen rich stream in a microchannel. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19749-19757	6.7	7
442	Conversion of ethane to ethylene and hydrogen by utilizing carbon dioxide: Screening catalysts. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 19717-19730	6.7	8
441	Carbon nanotube supported nickel catalysts for anisole and cyclohexanone conversion in the presence of hydrogen and synthesis gas: Effect of plasma, acid, and thermal functionalization. <i>Fuel</i> , 2021 , 288, 119698	7.1	9
440	Simulation and multi-objective optimization of a radial flow gas-cooled membrane reactor, considering reduction of CO2 emissions in methanol synthesis. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104910	6.8	3
439	Thermochemical routes for hydrogen production from biomass 2021 , 193-208		3
438	Polyurethane foam: A novel support for metal oxide packing used in the non-thermal plasma decomposition of CO2. <i>Journal of CO2 Utilization</i> , 2021 , 44, 101398	7.6	7
437	CFD Simulation of CO2 Capture in a Microchannel by Aqueous Mixtures of MEA and [Bmim]BF4 Modified with TiO2 Nanoparticles. <i>International Journal of Thermophysics</i> , 2021 , 42, 1	2.1	7
436	Low energy phase change CO2 absorption using water-lean mixtures of glycine amino acid: Effect of co-solvent. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116286	6	5

435	Rotating liquid sheet contactor: A new gas-liquid contactor system in CO ₂ absorption by nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 165, 108447	3.7	4
434	Cleaner production of liquid fuels and chemicals by synthesis-gas-assisted hydroprocessing of lignin compounds as biomass-derivates. <i>Journal of Cleaner Production</i> , 2021 , 316, 128331	10.3	1
433	Investigation of anti-condensation strategies in the methanol synthesis reactor using computational fluid dynamics. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 2020-2033	2.8	1
432	Dehydration of bio-alcohols in an enhanced membrane-assisted reactor: A rigorous sensitivity analysis and multi-objective optimization. <i>Renewable Energy</i> , 2021 , 177, 519-543	8.1	5
431	Biofuel production from microalgae and process enhancement by metabolic engineering and ultrasound 2021 , 209-230		5
430	Two-dimensional modeling investigation of the modern methanol plate reactors. <i>Chemical Engineering Research and Design</i> , 2020 , 162, 212-227	5.5	3
429	Construction of hierarchical nanoporous bimetallic copper-cobalt selenide hollow spheres for hybrid supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 871, 114295	4.1	23
428	Aqueous Na-Air Batteries 2020 , 441-464		
427	Pb Acid Batteries 2020 , 17-39		2
426	Basics and Developments of Zinc-Air Batteries 2020 , 151-166		
425	Cathode Materials for Zinc-Air Batteries 2020 , 85-101		
424	Electrolytes for Zinc-Air Batteries 2020 , 187-213		
423	Membrane technology for brewery wastewater treatment 2020 , 289-303		5
422	CO ₂ emission and air pollution (volatile organic compounds, etc.) related problems causing climate change 2020 , 1-30		12
421	The utilization of synthesis gas for the deoxygenation of cyclohexanone over alumina-supported catalysts: Screening catalysts. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2020 , 15, e2425	1.3	7
420	Upgrading of cyclohexanone to hydrocarbons by hydrodeoxygenation over nickel-molybdenum catalysts. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 11062-11076	6.7	16
419	Hydrogen production via catalytic pulsed plasma conversion of methane: Effect of Ni ₂ O/Al ₂ O ₃ loading, applied voltage, and argon flow rate. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 13899-13910 ³	6.7	10 ³
418	Newborn Electrodes for K-Ion Batteries 2020 , 373-409		

417	Phosphorous-Based Materials for K-Ion Batteries 2020 , 1-18		
416	Industrial Applications of Green Solvents for Sustainable Development of Technologies in Organic Synthesis. <i>Nanotechnology in the Life Sciences</i> , 2020 , 435-455	1.1	2
415	Development of a green process for DME production based on the methane tri-reforming. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 106, 9-19	5.3	15
414	Methane solubility in ionic liquids: Comparison of cubic-plus-association and modified Sanchez-Lacombe equation of states. <i>Chemical Physics Letters</i> , 2020 , 738, 136903	2.5	1
413	Carbon dioxide absorption into aqueous potassium salt solutions of glutamine amino acid. <i>Journal of Molecular Liquids</i> , 2020 , 301, 111743	6	12
412	Effect of cracking feedstock on carburization mechanism of cracking furnace tubes. <i>Engineering Failure Analysis</i> , 2020 , 107, 104216	3.2	5
411	Membrane Reactors 2020 , 307-324		9
410	Cobalt-molybdenum catalysts for the hydrodeoxygenation of cyclohexanone. <i>Renewable Energy</i> , 2020 , 150, 443-455	8.1	17
409	Energy and exergy analysis and optimization of biomass gasification process for hydrogen production (based on air, steam and air/steam gasifying agents). <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33185-33197	6.7	19
408	Simultaneous methanol production and separation in the methanol synthesis reactor to increase methanol production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 158, 108176	3.7	9
407	Synthesis and application of nanoporous triple-shelled CuAl ₂ O ₄ hollow sphere catalyst for atmospheric chemical fixation of carbon dioxide. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 114, 81-90	5.3	8
406	Low-Temperature CO ₂ Splitting in a Noncatalytic Dielectric-Barrier Discharge Plasma: Effect of Operational Parameters with a New Strategy of Experimentation. <i>Energy & Fuels</i> , 2020 , 34, 14321-14332	4.1	4
405	Impact assessment of exhaust gas emissions from cogeneration PEMFC systems 2020 , 49-64		1
404	CO ₂ separation with ionic liquid membranes 2020 , 291-309		1
403	Biofuel reforming in membrane reactors 2020 , 351-366		2
402	Solar reformers coupled with PEMFCs for residential cogeneration and trigeneration applications 2020 , 241-258		2
401	Novel gas-liquid contactors for CO ₂ capture: Mini- and micro-channels, and rotating packed beds 2020 , 151-170		3
400	Experimental investigation of improved graphene oxide as an efficient catalyst for the sustainable chemical fixation of CO ₂ with epoxides. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104568	6.8	6

399	A membrane-assisted hydrogen and carbon oxides separation from flare gas and recovery to a commercial methanol reactor. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7386-7400	6.7	14
398	Supporting the propane dehydrogenation reactors by hydrogen permselective membrane modules to produce ultra-pure hydrogen and increasing propane conversion: Process modeling and optimization. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 7364-7373	6.7	11
397	Improving the CO ₂ solubility in aqueous mixture of MDEA and different polyamine promoters: The effects of primary and secondary functional groups. <i>Journal of Molecular Liquids</i> , 2020 , 297, 111803	6	19
396	MOF assistance synthesis of nanoporous double-shelled CuCoO hollow spheres for hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 83-91	9.3	55
395	Isothermal vapor-liquid equilibrium of binary and ternary systems of anisole, hexane, and toluene and ternary system of methyl tert-butyl ether, hexane, and toluene. <i>Thermochimica Acta</i> , 2019 , 682, 178413	2.9	1
394	Modeling and assessment of novel configurations to enhance methanol production in industrial mega-methanol synthesis plant. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 104, 40-53	5.3	11
393	Water and Wastewater Treatment Systems by Novel Integrated Membrane Distillation (MD). <i>ChemEngineering</i> , 2019 , 3, 8	2.6	37
392	Post-discharge DBD plasma treatment for degradation of organic dye in water: A comparison with different plasma operation methods. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103220	6.8	13
391	Introducing a novel process to enhance the syngas conversion to methanol over Cu/ZnO/Al ₂ O ₃ catalyst. <i>Fuel Processing Technology</i> , 2019 , 193, 159-179	7.2	10
390	Experimental investigation of improved calcium-based CO ₂ sorbent and Co ₃ O ₄ /SiO ₂ oxygen carrier for clean production of hydrogen in sorption-enhanced chemical looping reforming. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17863-17877	6.7	22
389	Degradation of crystal violet in water solution using post discharge DBD plasma treatment: Factorial design experiment and modeling. <i>Chemosphere</i> , 2019 , 232, 213-223	8.4	16
388	Experimental investigation of an active thermosyphon solar still with enhanced condenser. <i>Renewable Energy</i> , 2019 , 143, 328-334	8.1	27
387	Modeling and optimization of an industrial hydrogen unit in a crude oil refinery. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 10415-10426	6.7	13
386	An Experimental Approach on Industrial Pd-Ag Supported γ -Al ₂ O ₃ Catalyst Used in Acetylene Hydrogenation Process: Mechanism, Kinetic and Catalyst Decay. <i>Processes</i> , 2019 , 7, 136	2.9	6
385	Modification of a tri-reforming reactor based on the feeding policy to couple with methanol and GTL units. <i>Chemical Engineering Research and Design</i> , 2019 , 144, 107-114	5.5	15
384	Dehydration of crude oil by cellulose-based demulsifiers: statistical modeling, sensitivity analysis and optimization. <i>Petroleum Science and Technology</i> , 2019 , 37, 2134-2141	1.4	2
383	A Theoretical and Experimental Study for Screening Inhibitors for Styrene Polymerization. <i>Processes</i> , 2019 , 7, 677	2.9	3
382	Ionic Liquids for Carbon Dioxide Capture. <i>Sustainable Agriculture Reviews</i> , 2019 , 193-219	1.3	

381	Methods for the Recovery of CO ₂ from Chemical Solvents. <i>Sustainable Agriculture Reviews</i> , 2019 , 221-249	3	3
380	Cryogenic CO ₂ Capture. <i>Sustainable Agriculture Reviews</i> , 2019 , 251-277	1.3	2
379	Dynamic optimization of methanol synthesis section in the dual type configuration to increase methanol production. <i>Oil and Gas Science and Technology</i> , 2019 , 74, 90	1.9	2
378	Ethanol for Air Transportation 2019 , 425-448		
377	Three-Phase Reactor Model for Simulation of Methylacetylene and Propadiene Selective Hydrogenation Process. <i>Chemical Product and Process Modeling</i> , 2019 , 14,	1.1	1
376	Catalytic hydrodeoxygenation of bio-oil using in situ generated hydrogen in plasma reactor: Effects of alumina supported catalysts and plasma parameters. <i>Chemical Engineering Research and Design</i> , 2019 , 121, 221-228	5.5	14
375	Green Methanol Production Process from Indirect CO ₂ Conversion: RWGS Reactor versus RWGS Membrane Reactor. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102813	6.8	22
374	Hydrogen Production Through Pyrolysis 2019 , 947-973		4
373	Water Treatment by Renewable Energy-Driven Membrane Distillation 2019 , 179-211		4
372	Integrating Pressure-Retarded Osmosis and Membrane Distillation 2019 , 385-402		1
371	Prediction of the solubility of carbon dioxide in imidazolium based ionic liquids using the modified scaled particle theory. <i>Journal of Molecular Liquids</i> , 2018 , 255, 135-147	6	6
370	Syngas production in chemical looping reforming process over ZrO ₂ promoted Mn-based catalyst. <i>Journal of CO₂ Utilization</i> , 2018 , 23, 105-116	7.6	30
369	A sensitivity analysis and multi-objective optimization to enhance ethylene production by oxidative dehydrogenation of ethane in a membrane-assisted reactor. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 1879-1895	3.2	7
368	Application of a novel magnetic nanoparticle as demulsifier for dewatering in crude oil emulsion. <i>Separation Science and Technology</i> , 2018 , 53, 551-558	2.5	19
367	Application of the response surface methodology for modeling demulsification of crude oil emulsion using a demulsifier. <i>Journal of Dispersion Science and Technology</i> , 2018 , 39, 700-710	1.5	18
366	Simulation and Dynamic Optimization of an Industrial Naphtha Thermal Cracking Furnace Based on Time Variant Feeding Policy. <i>Chemical Product and Process Modeling</i> , 2018 , 13,	1.1	3
365	A numerical investigation on the heat and fluid flow of various nanofluids on a stretching sheet. <i>Heat Transfer - Asian Research</i> , 2018 , 47, 347-365	2.8	6
364	A CFD modeling to investigate the impact of flow mal-distribution on the performance of industrial methanol synthesis reactor. <i>Applied Thermal Engineering</i> , 2018 , 128, 64-78	5.8	20

363	Modeling and optimal control of conversion section of styrene plant to overcome effect of catalyst deactivation on production capacity. <i>Chemical Engineering Research and Design</i> , 2018 , 137, 350-359	5.5	2
362	Synthesis and Application of Cerium-Incorporated SBA-16 Supported Ni-Based Oxygen Carrier in Cyclic Chemical Looping Steam Methane Reforming. <i>Catalysts</i> , 2018 , 8, 18	4	20
361	Inhibiting FeAl Spinel Formation on a Narrowed Mesopore-Sized MgAl ₂ O ₄ Support as a Novel Catalyst for H ₂ Production in Chemical Looping Technology. <i>Catalysts</i> , 2018 , 8, 27	4	11
360	Development of Two Novel Processes for Hydrogenation of CO ₂ to Methanol over Cu/ZnO/Al ₂ O ₃ Catalyst to Improve the Performance of Conventional Dual Type Methanol Synthesis Reactor. <i>Catalysts</i> , 2018 , 8, 255	4	2
359	The Biodiesel of Microalgae as a Solution for Diesel Demand in Iran. <i>Energies</i> , 2018 , 11, 950	3.1	14
358	Inhibition effect of CeO ₂ promoted SiO ₂ coating on coke growth during steam cracking of ethane. <i>Chemical Engineering Research and Design</i> , 2018 , 136, 271-281	5.5	9
357	Simultaneous Increase of H ₂ and Gasoline Production by Optimizing Thermally Coupled Methanol Steam Reforming with Fischer-Tropsch Synthesis. <i>Chemical Product and Process Modeling</i> , 2018 , 13,	1.1	2
356	Physico-chemical characterization of shaped mesoporous silica prepared by pseudomorphic transformation as catalyst support in methane steam reforming. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018 , 124, 229-245	1.6	4
355	Multi Objective Optimization of a Methane Steam Reforming Reaction in a Membrane Reactor: Considering the Potential Catalyst Deactivation due to the Hydrogen Removal. <i>International Journal of Chemical Reactor Engineering</i> , 2018 , 16,	1.2	1
354	Hydrogen Production through Thermal Decomposition of Hydrogen Sulfide: Modification of the Sulfur Recovery Unit To Produce Ultrapure Hydrogen. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14114-14123	3.9	3
353	Determination of SO ₂ solubility in ionic liquids: COSMO-RS and modified Sanchez-Lacombe EOS. <i>Journal of Molecular Liquids</i> , 2018 , 272, 878-884	6	8
352	Green methanol synthesis process from carbon dioxide via reverse water gas shift reaction in a membrane reactor. <i>Chemical Engineering Research and Design</i> , 2018 , 140, 44-67	5.5	29
351	Phase stability analysis on green methanol synthesis process from CO ₂ hydrogenation in water cooled, gas cooled and double cooled tubular reactors. <i>Fuel Processing Technology</i> , 2018 , 181, 375-387	7.2	11
350	CO ₂ Capture From Coal-Fired Power Plants 2018 , 309-328		
349	Tetracycline antibiotic removal from aqueous solutions by MOF-5: Adsorption isotherm, kinetic and thermodynamic studies. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6118-6130	6.8	77
348	On improving the hydrogen and methanol production using an auto-thermal double-membrane reactor: Model prediction and optimisation. <i>Computers and Chemical Engineering</i> , 2018 , 119, 258-269	4	8
347	Experimental and theoretical study of crude oil pretreatment using low-frequency ultrasonic waves. <i>Ultrasonics Sonochemistry</i> , 2018 , 48, 383-395	8.9	33
346	Synthesis, characterization and application of Ni-based oxygen carrier supported on novel yttrium-incorporated SBA-16 for efficient hydrogen production via chemical looping steam methane reforming. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 89, 129-139	5.3	27

345	Plasma upgrading of guaiacol as lignin pyrolytic-oil model compound through a combination of hydrogen production and hydrodeoxygenation reaction. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 135, 422-430	6	10
344	Enhanced BTX Production in Refineries with Sulfur Dioxide Oxidation by Thermal Integrated Model. <i>Chemical Engineering and Technology</i> , 2018 , 41, 1746-1758	2	7
343	Diazinon removal from aqueous media by mesoporous MIL-101(Cr) in a continuous fixed-bed system. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4653-4664	6.8	36
342	Estimation of the saturation pressure of pure ionic liquids using MLP artificial neural networks and the revised isofugacity criterion. <i>Journal of Molecular Liquids</i> , 2017 , 230, 85-95	6	12
341	An environmentally friendly configuration for reduction of toxic products in a thermally coupled reactor of styrene and tri-reformer of methane. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1048-1059	6.8	3
340	Characterization and catalytic properties of molybdenum supported on nano gamma Al ₂ O ₃ for upgrading of anisole model compound. <i>Chemical Engineering Journal</i> , 2017 , 319, 143-154	14.7	24
339	Mutual diffusion in concentrated liquid solutions: A new model based on cluster theory. <i>Journal of Molecular Liquids</i> , 2017 , 232, 516-521	6	7
338	Performance of biodegradable cellulose based agents for demulsification of crude oil: Dehydration capacity and rate. <i>Separation and Purification Technology</i> , 2017 , 179, 291-296	8.3	37
337	Synthesis of supported nanocatalysts via novel non-thermal plasma methods and its application in catalytic processes. <i>Plasma Processes and Polymers</i> , 2017 , 14, 1600204	3.4	19
336	Experimental investigation of upgrading of lignin-derived bio-oil component anisole catalyzed by carbon nanotube-supported molybdenum. <i>RSC Advances</i> , 2017 , 7, 10545-10556	3.7	27
335	Synthesis and characterization of cerium promoted Ni/SBA-16 oxygen carrier in cyclic chemical looping steam methane reforming. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 76, 73-82	5.3	28
334	Modeling and optimization of an industrial Claus process: Thermal and catalytic section. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 76, 1-9	5.3	16
333	Application of response surface methodology for optimization of purge gas recycling to an industrial reactor for conversion of CO ₂ to methanol. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 676-687	3.2	5
332	Catalytic hydrodeoxygenation of anisole over nickel supported on plasma treated alumina-silica mixed oxides. <i>RSC Advances</i> , 2017 , 7, 30990-30998	3.7	25
331	Process intensification and environmental consideration of sodium bicarbonate production in an industrial soda ash bubble column reactor by CO ₂ recycling. <i>Journal of CO₂ Utilization</i> , 2017 , 20, 318-327	7.6	5
330	Application of Differential Evolution in Chemical Reaction Engineering. <i>Advances in Process Systems Engineering</i> , 2017 , 70-90		1
329	Simultaneous production of xylenes and hydrogen in an optimized membrane-assisted thermally coupled reactor using an elaborate reaction network. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 119, 113-130	3.7	3
328	Enhancement of synthesis gas and methanol production by flare gas recovery utilizing a membrane based separation process. <i>Fuel Processing Technology</i> , 2017 , 166, 186-201	7.2	35

327	Plasma upgrading of 4methylanisole: A novel approach for hydrodeoxygenation of bio oil without using a hydrogen source. <i>Chemical Engineering Research and Design</i> , 2017 , 121, 113-124	5.5	26
326	Development of a rigorous two-dimensional mathematical model for a novel thermally coupled reactor for simultaneous production of xylenes, hydrogen, and toluene. <i>Chemical Engineering Research and Design</i> , 2017 , 127, 126-145	5.5	1
325	The impact of monovalent and divalent ions on wettability alteration in oil/low salinity brine/limestone systems. <i>Journal of Molecular Liquids</i> , 2017 , 248, 1003-1013	6	27
324	Development of an Efficient Methanol Production Process for Direct CO ₂ Hydrogenation over a Cu/ZnO/Al ₂ O ₃ Catalyst. <i>Catalysts</i> , 2017 , 7, 332	4	23
323	Hydrogen Production from Cyclic Chemical Looping Steam Methane Reforming over Yttrium Promoted Ni/SBA-16 Oxygen Carrier. <i>Catalysts</i> , 2017 , 7, 286	4	29
322	Production of hydrogen-rich syngas using Zr modified Ca-Co bifunctional catalyst-sorbent in chemical looping steam methane reforming. <i>Applied Energy</i> , 2017 , 206, 51-62	10.7	40
321	Investigation of using different thermodynamic models on prediction ability of mutual diffusion coefficient model. <i>Journal of Molecular Liquids</i> , 2017 , 243, 781-789	6	3
320	An investigation on simultaneous effects of several parameters on the demulsification efficiency of various crude oils. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017 , 12, 1012-1022	1.3	6
319	Palladium membranes applications in reaction systems for hydrogen separation and purification: A review. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 121, 24-49	3.7	115
318	Investigation of propane addition to the feed stream of a commercial ethane thermal cracker as supplementary feedstock. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 81, 1-13	5.3	9
317	Optimal dynamic trajectory of feed temperature and steam injection rate in ethylbenzene dehydrogenation process during process run time. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 81, 77-86	5.3	3
316	Simulation study of an auto-thermal double-membrane reactor for the simultaneous production of hydrogen and methanol: comparison of two different hydrogen redistribution strategies along the reactor. <i>Polish Journal of Chemical Technology</i> , 2017 , 19, 115-124	1	0
315	Light olefins/bio-gasoline production from biomass 2017 , 87-148		6
314	Integration of microalgae into an existing biofuel industry 2017 , 481-519		7
313	Introduction: Inorganic Membranes Roles in the Industrial Applications 2017 , xvii-xxix		1
312	Fine-Tuning Synthesis and Characterization of Mono-Sized H-Beta Zeolite-Supported Palladium-Iridium Nanoparticles and Application in the Selective Hydrogenation of Acetylene. <i>Catalysts</i> , 2017 , 7, 343	4	2
311	Promotion of Ca-Co Bifunctional Catalyst/Sorbent with Yttrium for Hydrogen Production in Modified Chemical Looping Steam Methane Reforming Process. <i>Catalysts</i> , 2017 , 7, 270	4	12
310	Modeling electrostatic separation for dehydration and desalination of crude oil in an industrial two-stage desalting plant. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 58, 141-147	5.3	19

309	High pressure viscosity modeling of pure alcohols based on classical and advanced equations of state. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 58, 57-70	5.3	14
308	Experimental Investigation on Upgrading of Lignin-Derived Bio-Oils: Kinetic Analysis of Anisole Conversion on Sulfided CoMo/Al ₂ O ₃ Catalyst. <i>International Journal of Chemical Kinetics</i> , 2016 , 48, 702-713	1.4	28
307	Optimization of regeneration protocol for Pd/Ag/Al ₂ O ₃ catalyst of the acetylene hydrogenation process using response surface methodology. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 34, 1382-1391	4.6	5
306	Demulsification of water in oil emulsion using ionic liquids: Statistical modeling and optimization. <i>Fuel</i> , 2016 , 184, 325-333	7.1	57
305	Investigation and recovery of purge gas streams to enhance synthesis gas production in a mega methanol complex. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 157-168	7.6	15
304	Optimization of crude oil dehydration in an industrial spiral-type gravitational coalescer. <i>Separation Science and Technology</i> , 2016 , 51, 2297-2306	2.5	0
303	Upgrading of anisole using in situ generated hydrogen in pin to plate pulsed corona discharge. <i>RSC Advances</i> , 2016 , 6, 98369-98380	3.7	12
302	Hydroprocessing of 4-methylanisole as a representative of lignin-derived bio-oils catalyzed by sulphided CoMo/Al ₂ O ₃ : A semi-quantitative reaction network. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1524-1532	2.3	23
301	Removal of carbon dioxide by aqueous amino acid salts using hollow fiber membrane contactors. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 42-49	7.6	26
300	A new configuration in the tail-end acetylene hydrogenation reactor to enhance catalyst lifetime and performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 65, 8-21	5.3	5
299	Heat exchanger application for environmental problem-reducing in flare systems of an oil refinery and a petrochemical plant: Two case studies. <i>Applied Thermal Engineering</i> , 2016 , 106, 796-810	5.8	2
298	Hydrogen production via chemical looping steam methane reforming process: Effect of cerium and calcium promoters on the performance of Fe ₂ O ₃ /Al ₂ O ₃ oxygen carrier. <i>Applied Energy</i> , 2016 , 165, 685-694	10.7	108
297	Performance Study of a Thermally Double Coupled Multi-Tubular Reactor by Considering the Effect of Flow Type Patterns. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 63-78	1.2	1
296	Optimal conditions in converting methanol to dimethyl ether, methyl formate, and hydrogen utilizing a double membrane heat exchanger reactor. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 28, 31-45	4.6	19
295	Hydrogen production by chemical looping steam reforming of methane over Mg promoted iron oxygen carrier: Optimization using design of experiments. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 62, 140-149	5.3	51
294	Reduction of gas emission via optimization of purified purge gas recycle ratio for conversion of CO ₂ to methanol. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1348-1358	6.8	5
293	Decomposition of methane to hydrogen using nanosecond pulsed plasma reactor with different active volumes, voltages and frequencies. <i>Applied Energy</i> , 2016 , 169, 585-596	10.7	50
292	Extra pure hydrogen production through methane decomposition using nanosecond pulsed plasma and PtRe catalyst. <i>Chemical Engineering Journal</i> , 2016 , 294, 132-145	14.7	36

291	Modeling and operability analysis of water separation from crude oil in an industrial gravitational coalescer. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 60, 76-82	5.3	19
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3	Synthesis and Application of Double-Shelled CuCo ₂ O ₄ Hollow Sphere Catalyst for Chemical Fixation of CO ₂ . <i>Topics in Catalysis</i> ,1	2.3	1
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