# Mohammad Reaza Rahimpour

# List of Publications by Citations

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#	Paper	IF	Citations
452	Upgrading of lignin-derived bio-oils by catalytic hydrodeoxygenation. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 103-129	35.4	627
451	Hydrogenation of CO2 to value-added products A review and potential future developments. <i>Journal of CO2 Utilization</i> , <b>2014</b> , 5, 66-81	7.6	551
45°	Dimethyl ether: A review of technologies and production challenges. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2014</b> , 82, 150-172	3.7	296
449	Progress in catalytic naphtha reforming process: A review. <i>Applied Energy</i> , <b>2013</b> , 109, 79-93	10.7	128
448	Palladium membranes applications in reaction systems for hydrogen separation and purification: A review. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2017</b> , 121, 24-49	3.7	115
447	Hydrogen production via chemical looping steam methane reforming process: Effect of cerium and calcium promoters on the performance of Fe2O3/Al2O3 oxygen carrier. <i>Applied Energy</i> , <b>2016</b> , 165, 685	-6 <sup>19</sup> 4 <sup>7</sup>	108
446	A comparison of homogeneous and heterogeneous dynamic models for industrial methanol reactors in the presence of catalyst deactivation. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2005</b> , 44, 911-921	3.7	102
445	Assessment and comparison of different catalytic coupling exothermic and endothermic reactions: A review. <i>Applied Energy</i> , <b>2012</b> , 99, 496-512	10.7	92
444	Expert representation chemical looping reforming: A comparative study of Fe, Mn, Co and Cu as oxygen carriers supported on Al 2 O 3. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 21, 900-91	1 <sup>6.3</sup>	86
443	Efficient demulsification of water-in-oil emulsion by a novel nano-titania modified chemical demulsifier. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 94, 164-172	5.5	82
442	Optimization of methanol synthesis and cyclohexane dehydrogenation in a thermally coupled reactor using differential evolution (DE) method. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 6930-6944	6.7	78
441	Tetracycline antibiotic removal from aqueous solutions by MOF-5: Adsorption isotherm, kinetic and thermodynamic studies. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 6118-6130	6.8	77
440	Synthesis of fluorinated nano-silica and its application in wettability alteration near-wellbore region in gas condensate reservoirs. <i>Applied Surface Science</i> , <b>2013</b> , 273, 205-214	6.7	74
439	Direct dimethyl ether (DME) synthesis through a thermally coupled heat exchanger reactor. <i>Applied Energy</i> , <b>2011</b> , 88, 1211-1223	10.7	73
438	Differential evolution (DE) strategy for optimization of hydrogen production, cyclohexane dehydrogenation and methanol synthesis in a hydrogen-permselective membrane thermally coupled reactor. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 1936-1950	6.7	72
437	Enhancing biosurfactant production from an indigenous strain of Bacillus mycoides by optimizing the growth conditions using a response surface methodology. <i>Chemical Engineering Journal</i> , <b>2010</b> , 163, 188-194	14.7	72
436	Theoretical Investigation of a Pd-membrane Reactor for Methanol Synthesis. <i>Chemical Engineering and Technology</i> , <b>2003</b> , 26, 902-907	2	72

435	Optimization of tri-reformer reactor to produce synthesis gas for methanol production using differential evolution (DE) method. <i>Applied Energy</i> , <b>2011</b> , 88, 2691-2701	10.7	70
434	Experimental investigation of a multi-effect active solar still: The effect of the number of stages. <i>Applied Energy</i> , <b>2015</b> , 137, 46-55	10.7	69
433	A novel configuration for hydrogen production from coupling of methanol and benzene synthesis in a hydrogen-permselective membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 509	16 <del>.</del> 710	7 <sup>69</sup>
432	A two-stage catalyst bed concept for conversion of carbon dioxide into methanol. <i>Fuel Processing Technology</i> , <b>2008</b> , 89, 556-566	7.2	69
431	A comparative study of combination of Fischer Tropsch synthesis reactors with hydrogen-permselective membrane in GTL technology. <i>Fuel Processing Technology</i> , <b>2009</b> , 90, 747-761	7.2	67
430	Naphtha cracking through a pulsed DBD plasma reactor: Effect of applied voltage, pulse repetition frequency and electrode material. <i>Chemical Engineering Journal</i> , <b>2012</b> , 191, 416-425	14.7	66
429	Hydrogen production through plasma cracking of hydrocarbons: Effect of carrier gas and hydrocarbon type. <i>Chemical Engineering Journal</i> , <b>2013</b> , 226, 384-392	14.7	66
428	Comparison the capability of artificial neural network (ANN) and EOS for prediction of solid solubilities in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , <b>2011</b> , 308, 35-43	2.5	65
427	High purity hydrogen production via sorption enhanced chemical looping reforming: Application of 22Fe2O3/MgAl2O4 and 22Fe2O3/Al2O3 as oxygen carriers and cerium promoted CaO as CO2 sorbent. <i>Applied Energy</i> , <b>2016</b> , 169, 629-641	10.7	65
426	A comparative study of three different methods for flare gas recovery of Asalooye Gas Refinery.  Journal of Natural Gas Science and Engineering, 2012, 4, 17-28	4.6	64
425	Investigation of ethylene production in naphtha thermal cracking plant in presence of steam and carbon dioxide. <i>Chemical Engineering Journal</i> , <b>2013</b> , 228, 1158-1167	14.7	60
424	Effect of a Different Formulation of Demulsifiers on the Efficiency of Chemical Demulsification of Heavy Crude Oil. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 2936-2945	2.8	60
423	Demulsification of water in oil emulsion using ionic liquids: Statistical modeling and optimization. <i>Fuel</i> , <b>2016</b> , 184, 325-333	7.1	57
422	MOF assistance synthesis of nanoporous double-shelled CuCoO hollow spheres for hybrid supercapacitors. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 556, 83-91	9.3	55
421	Enhancement of gasoline production in a novel hydrogen-permselective membrane reactor in Fischer Tropsch synthesis of GTL technology. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3965-39	977	54
420	Investigation of Low-Salinity Waterflooding in Secondary and Tertiary Enhanced Oil Recovery in Limestone Reservoirs. <i>Energy &amp; Energy &amp; 2015</i> , 29, 7781-7792	4.1	53
419	A novel water perm-selective membrane dual-type reactor concept for Fischer Tropsch synthesis of GTL (gas to liquid) technology. <i>Energy</i> , <b>2011</b> , 36, 1223-1235	7.9	53
418	Enhanced carbon dioxide removal by promoted hot potassium carbonate in a split-flow absorber. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2004</b> , 43, 857-865	3.7	53

417	Enhancement of CO conversion in a novel PdAg membrane reactor for methanol synthesis. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2004</b> , 43, 1181-1188	3.7	53
416	Kinetics of magnesium hydroxide precipitation from sea bittern. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2008</b> , 47, 215-221	3.7	52
415	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> , <b>2016</b> , 62, 140-149	5.3	51
414	Calcium promoted Fe/Al2O3 oxygen carrier for hydrogen production via cyclic chemical looping steam methane reforming process. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 16159-16168	6.7	51
413	Experimental investigation of hydrogen production through heavy naphtha cracking in pulsed DBD reactor. <i>Applied Energy</i> , <b>2012</b> , 98, 3-10	10.7	51
412	Decomposition of methane to hydrogen using nanosecond pulsed plasma reactor with different active volumes, voltages and frequencies. <i>Applied Energy</i> , <b>2016</b> , 169, 585-596	10.7	50
411	Interactive optimization of biosurfactant production by Paenibacillus alvei ARN63 isolated from an Iranian oil well. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 82, 33-9	6	50
410	Syngas production in a novel methane dry reformer by utilizing of tri-reforming process for energy supplying: Modeling and simulation. <i>Journal of Natural Gas Science and Engineering</i> , <b>2014</b> , 20, 132-146	4.6	49
409	Recent advances in reactors for low-temperature Fischer-Tropsch synthesis: process intensification perspective. <i>Reviews in Chemical Engineering</i> , <b>2015</b> , 31,	5	49
408	Methane Steam Reforming Thermally Coupled with Fuel Combustion: Application of Chemical Looping Concept as a Novel Technology. <i>Energy &amp; Energy &amp; E</i>	4.1	49
407	Feasibility of flare gas reformation to practical energy in Farashband gas refinery: no gas flaring. Journal of Hazardous Materials, <b>2012</b> , 209-210, 204-17	12.8	48
406	Wettability alteration of gas condensate reservoir rocks to gas wetness by solgel process using fluoroalkylsilane. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 4077-4085	2.9	48
405	The ability of artificial neural network in prediction of the acid gases solubility in different ionic liquids. <i>Journal of CO2 Utilization</i> , <b>2015</b> , 9, 39-47	7.6	47
404	Enhancement of hydrogen production in a novel fluidized-bed membrane reactor for naphtha reforming. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2235-2251	6.7	47
403	Enhancement of methanol production in a novel cascading fluidized-bed hydrogen permselective membrane methanol reactor. <i>Chemical Engineering Journal</i> , <b>2010</b> , 157, 520-529	14.7	47
402	Modeling and simulation of ammonia removal from purge gases of ammonia plants using a catalytic Pd-Ag membrane reactor. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 557-65	12.8	47
401	Combination of non-thermal plasma and heterogeneous catalysis for methane and hexadecane co-cracking: Effect of voltage and catalyst configuration. <i>Chemical Engineering Journal</i> , <b>2013</b> , 219, 245-2	2 <del>53</del> .7	46
400	Dynamic modeling and optimization of a novel methanol synthesis loop with hydrogen-permselective membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3717-3	7 <del>3</del> 3	46

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399	Production of hydrogen from purge gases of ammonia plants in a catalytic hydrogen-permselective membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 5795-5802	6.7	46	
398	The major sources of gas flaring and air contamination in the natural gas processing plants: A case study. <i>Journal of Natural Gas Science and Engineering</i> , <b>2013</b> , 13, 7-19	4.6	44	
397	Enhancement of Methanol Production in a Membrane Dual-Type Reactor. <i>Chemical Engineering and Technology</i> , <b>2007</b> , 30, 1062-1076	2	44	
396	Experimental Study of Chemical-Looping Reforming in a Fixed-Bed Reactor: Performance Investigation of Different Oxygen Carriers on Al2O3 and TiO2 Support. <i>Energy &amp; Description</i> 28, 2811-2820	4.1	43	
395	Application of hydrogen-permselective Pd-based membrane in an industrial single-type methanol reactor in the presence of catalyst deactivation. <i>Fuel Processing Technology</i> , <b>2008</b> , 89, 1396-1408	7.2	43	
394	Enhancement of carbon dioxide removal in a hydrogen-permselective methanol synthesis reactor. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 1349-1362	6.7	42	
393	A comparison of co-current and counter-current modes of operation for a dual-type industrial methanol reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2008</b> , 47, 1819-1830	3.7	42	
392	DME synthesis and cyclohexane dehydrogenation reaction in an optimized thermally coupled reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2011</b> , 50, 113-123	3.7	41	
391	A membrane catalytic bed concept for naphtha reforming in the presence of catalyst deactivation. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2009</b> , 48, 683-694	3.7	41	
390	Enhancement of simultaneous hydrogen production and methanol synthesis in thermally coupled double-membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 284-298	6.7	41	
389	Production of hydrogen-rich syngas using Zr modified Ca-Co bifunctional catalyst-sorbent in chemical looping steam methane reforming. <i>Applied Energy</i> , <b>2017</b> , 206, 51-62	10.7	40	
388	Optimization of a novel combination of fixed and fluidized-bed hydrogen-permselective membrane reactors for Fischer Tropsch synthesis in GTL technology. <i>Chemical Engineering Journal</i> , <b>2009</b> , 152, 543-5	5 <del>54</del> .7	40	
387	A novel integrated thermally coupled configuration for methane-steam reforming and hydrogenation of nitrobenzene to aniline. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 2960-296	8 <sup>6.7</sup>	40	
386	A comparison of conventional and optimized thermally coupled reactors for Fischer Tropsch synthesis in GTL technology. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 6206-6214	4.4	40	
385	A Review of Carbon Capture and Sequestration in Iran: Microalgal Biofixation Potential in Iran. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 35, 73-100	16.2	39	
384	Dynamic optimization of a novel radial-flow, spherical-bed methanol synthesis reactor in the presence of catalyst deactivation using Differential Evolution (DE) algorithm. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 6221-6230	6.7	38	
383	Vaporlliquid Equilibria of Water + Triethylene Glycol (TEG) and Water + TEG + Toluene at 85 kPa. Journal of Chemical & Data, 2009, 54, 876-881	2.8	38	
382	Selective kinetic deactivation model for methanol synthesis from simultaneous reaction of CO2 and CO with H2 on a commercial copper/zinc oxide catalyst. <i>Canadian Journal of Chemical Engineering</i> , <b>1998</b> , 76, 753-761	2.3	38	

381	A non-ideal rate-based model for industrial urea thermal hydrolyser. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2004</b> , 43, 1299-1307	3.7	38
380	Performance of biodegradable cellulose based agents for demulsification of crude oil: Dehydration capacity and rate. <i>Separation and Purification Technology</i> , <b>2017</b> , 179, 291-296	8.3	37
379	Water and Wastewater Treatment Systems by Novel Integrated Membrane Distillation (MD). <i>ChemEngineering</i> , <b>2019</b> , 3, 8	2.6	37
378	Wettability alteration in gas-condensate carbonate reservoir using anionic fluorinated treatment. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 93, 554-564	5.5	37
377	Extra pure hydrogen production through methane decomposition using nanosecond pulsed plasma and PtRe catalyst. <i>Chemical Engineering Journal</i> , <b>2016</b> , 294, 132-145	14.7	36
376	Modeling and optimization of Fischer Tropsch synthesis in the presence of Co (III)/Al2O3 catalyst using artificial neural networks and genetic algorithm. <i>Journal of Natural Gas Science and Engineering</i> , <b>2013</b> , 10, 14-24	4.6	36
375	A novel dynamic radial-flow, spherical-bed reactor concept for naphtha reforming in the presence of catalyst deactivation. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6261-6275	6.7	36
374	Diazinon removal from aqueous media by mesoporous MIL-101(Cr) in a continuous fixed-bed system. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 4653-4664	6.8	36
373	Enhancement of synthesis gas and methanol production by flare gas recovery utilizing a membrane based separation process. <i>Fuel Processing Technology</i> , <b>2017</b> , 166, 186-201	7.2	35
372	Synthesis gas production in a novel hydrogen and oxygen perm-selective membranes tri-reformer for methanol production. <i>Journal of Natural Gas Science and Engineering</i> , <b>2012</b> , 9, 149-159	4.6	35
371	Dynamic optimization of a multi-stage spherical, radial flow reactor for the naphtha reforming process in the presence of catalyst deactivation using differential evolution (DE) method. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7498-7511	6.7	35
370	Kinetics of Upgrading of Anisole with Hydrogen Catalyzed by Platinum Supported on Alumina. <i>Energy &amp; Damp; Fuels</i> , <b>2015</b> , 29, 4990-4997	4.1	34
369	Simulation, optimization, and sensitivity analysis of a natural gas dehydration unit. <i>Journal of Natural Gas Science and Engineering</i> , <b>2014</b> , 21, 159-169	4.6	34
368	Simulation and optimization of a six-effect evaporator in a desalination process. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2009</b> , 48, 339-347	3.7	34
367	Mathematical modeling of a multi-stage naphtha reforming process using novel thermally coupled recuperative reactors to enhance aromatic production. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10984-10993	6.7	34
366	Operability of an Industrial Methanol Synthesis Reactor with Mixtures of Fresh and Partially Deactivated Catalyst. <i>Chemical Engineering and Technology</i> , <b>2005</b> , 28, 226-234	2	34
365	Modeling of naphtha reforming unit applying detailed description of kinetic in continuous catalytic regeneration process. <i>Chemical Engineering Research and Design</i> , <b>2014</b> , 92, 1704-1727	5.5	33
364	Upgrading of Anisole in a Dielectric Barrier Discharge Plasma Reactor. <i>Energy &amp; Dielectric Barrier Discharge Plasma Reactor</i> . <i>Energy &amp; Diele</i>	54 <del>5.4</del> 55	333

# (2013-2008)

363	Co-current and Countercurrent Configurations for a Membrane Dual Type Methanol Reactor. <i>Chemical Engineering and Technology</i> , <b>2008</b> , 31, 38-57	2	33
362	Experimental and theoretical study of crude oil pretreatment using low-frequency ultrasonic waves. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 48, 383-395	8.9	33
361	Modeling of ethane pyrolysis process: A study on effects of steam and carbon dioxide on ethylene and hydrogen productions. <i>Chemical Engineering Journal</i> , <b>2013</b> , 215-216, 550-560	14.7	32
360	Upgrading of Lignin-Derived Bio-oil Components Catalyzed by Pt/EAl2O3: Kinetics and Reaction Pathways Characterizing Conversion of Cyclohexanone with H2. <i>Energy &amp; Description</i> 2015, 29, 191-199	4.1	32
359	Enhancement of methanol production in a novel fluidized-bed hydrogen-permselective membrane reactor in the presence of catalyst deactivation. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 220	8 <sup>-</sup> 2223	32
358	Dynamic simulation of a cascade fluidized-bed membrane reactor in the presence of long-term catalyst deactivation for methanol synthesis. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 4239-4249	4.4	32
357	Application of zirconium modified Cu-based oxygen carrier in chemical looping reforming. <i>Journal of CO2 Utilization</i> , <b>2016</b> , 14, 112-121	7.6	32
356	Noncatalytic Upgrading of Anisole in an Atmospheric DBD Plasma Reactor: Effect of Carrier Gas Type, Voltage, and Frequency. <i>Energy &amp; Damp; Fuels</i> , <b>2014</b> , 28, 2535-2543	4.1	31
355	A novel configuration for Pd/Ag/\(\text{H}\)Al2O3 catalyst regeneration in the acetylene hydrogenation reactor of a multi feed cracker. Chemical Engineering Journal, 2012, 198-199, 491-502	14.7	31
354	Optimization of hydrogen production via coupling of the Fischer Tropsch synthesis reaction and dehydrogenation of cyclohexane in GTL technology. <i>Applied Energy</i> , <b>2011</b> , 88, 2027-2036	10.7	31
353	Syngas production in chemical looping reforming process over ZrO2 promoted Mn-based catalyst. Journal of CO2 Utilization, <b>2018</b> , 23, 105-116	7.6	30
352	Application of solid oxide fuel cell for flare gas recovery as a new approach; a case study for Asalouyeh gas processing plant, Iran. <i>Journal of Natural Gas Science and Engineering</i> , <b>2014</b> , 17, 13-25	4.6	30
351	A novel slurry bubble column membrane reactor concept for Fischer Tropsch synthesis in GTL technology. <i>Chemical Engineering Research and Design</i> , <b>2012</b> , 90, 383-396	5.5	30
350	Utilizing differential evolution (DE) technique to optimize operating conditions of an integrated thermally coupled direct DME synthesis reactor. <i>Chemical Engineering Journal</i> , <b>2011</b> , 168, 321-332	14.7	30
349	Differential evolution (DE) strategy for optimization of hydrogen production and utilization in a thermally coupled membrane reactor for decalin dehydrogenation and Fischer Tropsch synthesis in GTL technology. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 4917-4933	6.7	30
348	Simultaneous utilization of two different membranes for intensification of ultrapure hydrogen production from recuperative coupling autothermal multitubular reactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7310-7325	6.7	30
347	Hydrogen Production from Cyclic Chemical Looping Steam Methane Reforming over Yttrium Promoted Ni/SBA-16 Oxygen Carrier. <i>Catalysts</i> , <b>2017</b> , 7, 286	4	29
346	Enhancement of Hydrogen Production and Carbon Dioxide Capturing in a Novel Methane Steam Reformer Coupled with Chemical Looping Combustion and Assisted by Hydrogen Perm-Selective Membranes. <i>Energy &amp; Discourse Membranes</i> .	4.1	29

345	Upgrading Process of 4-Methylanisole as a Lignin-Derived Bio-Oil Catalyzed by Pt/EAl2O3: Kinetic Investigation and Reaction Network Development. <i>Energy &amp; Development</i> , 2015, 29, 3335-3344	4.1	29
344	Production of ultrapure hydrogen via utilizing fluidization concept from coupling of methanol and benzene synthesis in a hydrogen-permselective membrane reactor. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 6616-6627	6.7	29
343	Hydrogen production from urea wastewater using a combination of urea thermal hydrolyserdesorber loop and a hydrogen-permselective membrane reactor. <i>Fuel Processing Technology</i> , <b>2010</b> , 91, 600-612	7.2	29
342	Modeling of an axial flow, spherical packed-bed reactor for naphtha reforming process in the presence of the catalyst deactivation. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12784-12799	6.7	29
341	Incorporation of Flexibility in the Design of a Methanol Synthesis Loop in the Presence of Catalyst Deactivation. <i>Chemical Engineering and Technology</i> , <b>2003</b> , 26, 672-678	2	29
340	Green methanol synthesis process from carbon dioxide via reverse water gas shift reaction in a membrane reactor. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 140, 44-67	5.5	29
339	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> , <b>2017</b> , 76, 73-87	2 <sup>5.3</sup>	28
338	Experimental Investigation on Upgrading of Lignin-Derived Bio-Oils: Kinetic Analysis of Anisole Conversion on Sulfided CoMo/Al2O3 Catalyst. <i>International Journal of Chemical Kinetics</i> , <b>2016</b> , 48, 702-7	7 <del>131</del>	28
337	Experimental investigation of upgrading of lignin-derived bio-oil component anisole catalyzed by carbon nanotube-supported molybdenum. <i>RSC Advances</i> , <b>2017</b> , 7, 10545-10556	3.7	27
336	The impact of monovalent and divalent ions on wettability alteration in oil/low salinity brine/limestone systems. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 248, 1003-1013	6	27
335	Experimental investigation of an active thermosyphon solar still with enhanced condenser. <i>Renewable Energy</i> , <b>2019</b> , 143, 328-334	8.1	27
334	Membrane/sorption-enhanced methanol synthesis process: Dynamic simulation and optimization. Journal of Industrial and Engineering Chemistry, <b>2014</b> , 20, 3256-3269	6.3	27
333	Progress in Reactors for High-Temperature Fischer Tropsch Process: Determination Place of Intensifier Reactor Perspective. <i>International Journal of Chemical Reactor Engineering</i> , <b>2014</b> , 12, 639-664	1 <sup>1.2</sup>	27
332	Dynamic optimization of membrane dual-type methanol reactor in the presence of catalyst deactivation using genetic algorithm. <i>Fuel Processing Technology</i> , <b>2009</b> , 90, 279-291	7.2	27
331	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> , <b>2018</b> , 89, 129-139	5.3	27
330	Plasma upgrading of 4methylanisole: A novel approach for hydrodeoxygenation of bio oil without using a hydrogen source. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 121, 113-124	5.5	26
329	Removal of carbon dioxide by aqueous amino acid salts using hollow fiber membrane contactors. Journal of CO2 Utilization, <b>2016</b> , 16, 42-49	7.6	26
328	Improving thermal efficiency and increasing production rate in the double moving beds thermally coupled reactors by using differential evolution (DE) technique. <i>Applied Thermal Engineering</i> , <b>2016</b> , 94–543-558	5.8	26

# (2015-2011)

327	A comparative study between a fluidized-bed and a fixed-bed water perm-selective membrane reactor with in situ H2O removal for Fischer ropsch synthesis of GTL technology. <i>Journal of Natural Gas Science and Engineering</i> , <b>2011</b> , 3, 484-495	4.6	26	
326	A comparison of hydrogen and methanol production in a thermally coupled membrane reactor for co-current and counter-current flows. <i>International Journal of Energy Research</i> , <b>2011</b> , 35, 863-882	4.5	26	
325	Comparison of two different flow types on CO removal along a two-stage hydrogen permselective membrane reactor for methanol synthesis. <i>Applied Energy</i> , <b>2011</b> , 88, 41-51	10.7	26	
324	Catalytic hydrodeoxygenation of anisole over nickel supported on plasma treated aluminaBilica mixed oxides. <i>RSC Advances</i> , <b>2017</b> , 7, 30990-30998	3.7	25	
323	Modeling of synthesis gas and hydrogen production in a thermally coupling of steam and tri-reforming of methane with membranes. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 1779-1792	6.3	25	
322	The optimal operating conditions of a thermally double coupled, dual membrane reactor for simultaneous methanol synthesis, methanol dehydration and methyl cyclohexane dehydrogenation. <i>Journal of Natural Gas Science and Engineering</i> , <b>2014</b> , 19, 175-189	4.6	25	
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	Simultaneous methanol production and separation in the methanol synthesis reactor to increase	3.7 7.1	
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155 154 153	Simultaneous methanol production and separation in the methanol synthesis reactor to increase methanol production. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2020</b> , 158, 108176  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> , <b>2021</b> , 288, 119698  Membrane reactors for biodiesel production and processing <b>2015</b> , 289-312  Optimal conditions of isobutane dehydrogenation in radial flow moving bed hydrogen-permselective membrane reactors to enhance isobutene and hydrogen production.	7.1	9 9 8
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155 154 153 152	Simultaneous methanol production and separation in the methanol synthesis reactor to increase methanol production. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2020</b> , 158, 108176  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> , <b>2021</b> , 288, 119698  Membrane reactors for biodiesel production and processing <b>2015</b> , 289-312  Optimal conditions of isobutane dehydrogenation in radial flow moving bed hydrogen-permselective membrane reactors to enhance isobutene and hydrogen production. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2014</b> , 75, 126-133  Simultaneous production of methanol, DME and hydrogen in a thermally double coupled reactor with different endothermic reactions: Application of cyclohexane, methylcyclohexane and decalin dehydrogenation reactions. <i>Journal of Natural Gas Science and Engineering</i> , <b>2014</b> , 19, 324-336  Simultaneous production of two types of synthesis gas by steam and tri-reforming of methane using an integrated thermally coupled reactor: mathematical modeling. <i>International Journal of</i>	7.1 3.7 4.6	9 9 8 8 8

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84	Water Treatment by Renewable Energy-Driven Membrane Distillation <b>2019</b> , 179-211  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> , <b>2018</b> , 124, 229-245	1.6	4
	Physico-chemical characterization of shaped mesoporous silica prepared by pseudomorphic transformation as catalyst support in methane steam reforming. <i>Reaction Kinetics, Mechanisms and</i>	1.6 3·7	
83	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> , <b>2018</b> , 124, 229-245  Rotating liquid sheet contactor: A new gas-liquid contactor system in CO2 absorption by		
83	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> , <b>2018</b> , 124, 229-245  Rotating liquid sheet contactor: A new gas-liquid contactor system in CO2 absorption by nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 165, 108447  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> ,	3.7	4
8 <sub>3</sub> 8 <sub>2</sub> 8 <sub>1</sub>	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> , <b>2018</b> , 124, 229-245  Rotating liquid sheet contactor: A new gas-liquid contactor system in CO2 absorption by nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 165, 108447  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> , <b>2017</b> , 5, 1048-1059  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</i>	3·7 6.8 3·7	4 4 3
83 82 81	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> , <b>2018</b> , 124, 229-245  Rotating liquid sheet contactor: A new gas-liquid contactor system in CO2 absorption by nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 165, 108447  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> , <b>2017</b> , 5, 1048-1059  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> , <b>2017</b> , 119, 113-130  A Feasibility Study for Synthesis Gas Production by Considering Carbon Dioxide Capturing in an	3·7 6.8 3·7	4 4 3 3 3
83 82 81 80	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> , <b>2018</b> , 124, 229-245  Rotating liquid sheet contactor: A new gas-liquid contactor system in CO2 absorption by nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2021</b> , 165, 108447  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> , <b>2017</b> , 5, 1048-1059  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> , <b>2017</b> , 119, 113-130  A Feasibility Study for Synthesis Gas Production by Considering Carbon Dioxide Capturing in an Industrial-Scale Methanol Synthesis Plant. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 1255-1	3.7 6.8 3.7	4 4 3 3 3

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