

Nader Mahinpey

List of Publications by Year in descending order

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134
papers

4,431
citations

117571

34
h-index

128225

60
g-index

135
all docs

135
docs citations

135
times ranked

4086
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of biomass gasification in fluidized bed reactor using ASPEN PLUS. Biomass and Bioenergy, 2008, 32, 1245-1254.	2.9	432
2	Investigating the Application of Enzyme Carbonic Anhydrase for CO ₂ Sequestration Purposes. Industrial & Engineering Chemistry Research, 2007, 46, 921-926.	1.8	256
3	Review of gasification fundamentals and new findings: Reactors, feedstock, and kinetic studies. Chemical Engineering Science, 2016, 148, 14-31.	1.9	193
4	Pyrolysis of wheat straw in a thermogravimetric analyzer: Effect of particle size and heating rate on devolatilization and estimation of global kinetics. Chemical Engineering Research and Design, 2010, 88, 952-958.	2.7	166
5	Analysis of Bio-Oil, Biogas, and Biochar from Pressurized Pyrolysis of Wheat Straw Using a Tubular Reactor. Energy & Fuels, 2009, 23, 2736-2742.	2.5	154
6	Characterization, thermochemical conversion studies, and heating value modeling of municipal solid waste. Waste Management, 2016, 48, 34-47.	3.7	121
7	Reaction kinetics and mass transfer studies of biomass char gasification with CO ₂ . Chemical Engineering Science, 2011, 66, 36-41.	1.9	118
8	Thermogravimetric Studies on Pyrolysis and Combustion Behavior of a Heavy Oil and Its Asphaltenes. Energy & Fuels, 2006, 20, 560-565.	2.5	105
9	IN SITU COMBUSTION IN ENHANCED OIL RECOVERY (EOR): A REVIEW. Chemical Engineering Communications, 2007, 194, 995-1021.	1.5	95
10	CFD simulation of gas-liquid solid bubbling fluidized bed: A new method for adjusting drag law. Canadian Journal of Chemical Engineering, 2009, 87, 19-30.	0.9	93
11	Experimental study on adsorption of a new surfactant onto carbonate reservoir samples—application to EOR. Canadian Journal of Chemical Engineering, 2013, 91, 1439-1449.	0.9	86
12	Adjustment of drag coefficient correlations in three dimensional CFD simulation of gas-liquid solid bubbling fluidized bed. Advances in Engineering Software, 2011, 42, 375-386.	1.8	77
13	Determination of Distributed Activation Energy Model Kinetic Parameters Using Simulated Annealing Optimization Method for Nonisothermal Pyrolysis of Lignin. Industrial & Engineering Chemistry Research, 2009, 48, 1464-1467.	1.8	75
14	Enhanced Cyclic Solvent Process (ECSP) for Heavy Oil and Bitumen Recovery in Thin Reservoirs. Energy & Fuels, 2012, 26, 2865-2874.	2.5	73
15	Pyrolysis and combustion kinetics of Fosterton oil using thermogravimetric analysis. Fuel, 2009, 88, 1708-1713.	3.4	71
16	A new reaction model for low temperature oxidation of heavy oil: Experiments and numerical modeling. Energy, 2014, 64, 419-428.	4.5	68
17	Simulation of air-steam gasification of woody biomass in a bubbling fluidized bed using Aspen Plus: A comprehensive model including pyrolysis, hydrodynamics and tar production. Biomass and Bioenergy, 2016, 95, 157-166.	2.9	68
18	Effect of low-temperature oxidation on the pyrolysis and combustion of whole oil. Energy, 2010, 35, 2317-2322.	4.5	58

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19	Synthesis and study of metal-based oxygen carriers (Cu, Co, Fe, Ni) and their interaction with supported metal oxides (Al ₂ O ₃ , CeO ₂ , TiO ₂ , ZrO ₂) in a chemical looping combustion system. <i>Energy</i> , 2017, 138, 873-882.	4.5	56
20	Post-combustion CO ₂ capture using solid K ₂ CO ₃ : Discovering the carbonation reaction mechanism. <i>Applied Energy</i> , 2016, 179, 531-543.	5.1	53
21	A Facile fabrication of mesoporous core-shell CaO-Based pellets with enhanced reactive stability and resistance to attrition in cyclic CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16577-16588.	5.2	51
22	Kinetic study of coal steam and CO ₂ gasification: A new method to reduce interparticle diffusion. <i>Fuel</i> , 2015, 148, 160-167.	3.4	50
23	Highly Active CaO-Based Sorbents for CO ₂ Capture Using the Precipitation Method: Preparation and Characterization of the Sorbent Powder. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4567-4572.	1.8	47
24	A comprehensive experimental procedure for CO ₂ coal gasification: Is there really a maximum reaction rate?. <i>Applied Energy</i> , 2014, 124, 73-81.	5.1	47
25	Novel synthetic sol-gel CaO based pellets using porous mesostructured silica in cyclic CO ₂ capture process. <i>Fuel</i> , 2014, 127, 101-108.	3.4	44
26	Catalytic pyrolysis of straw biomasses (wheat, flax, oat and barley) and the comparison of their product yields. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 201-208.	2.6	44
27	Methanol production from water electrolysis and tri-reforming: Process design and technical-economic analysis. <i>Journal of CO₂ Utilization</i> , 2020, 38, 241-251.	3.3	43
28	Economic assessment of integrated coal gasification combined cycle with sorbent CO ₂ capture. <i>Applied Energy</i> , 2016, 169, 341-352.	5.1	42
29	Solution combustion synthesis of zirconia-stabilized calcium oxide sorbents for CO ₂ capture. <i>Fuel</i> , 2020, 269, 117432.	3.4	41
30	Thermal cracking and combustion kinetics of asphaltenes derived from Fosterton oil. <i>Fuel Processing Technology</i> , 2009, 90, 1286-1291.	3.7	40
31	Development of oil-spill sorbent from straw biomass waste: Experiments and modeling studies. <i>Journal of Environmental Management</i> , 2016, 171, 166-176.	3.8	40
32	A new method to calculate kinetic parameters independent of the kinetic model: Insights on CO ₂ and steam gasification. <i>Chemical Engineering Research and Design</i> , 2015, 95, 346-357.	2.7	38
33	Detailed Study of Low-Temperature Oxidation of an Alaska Heavy Oil. <i>Energy & Fuels</i> , 2012, 26, 1592-1597.	2.5	37
34	High-purity hydrogen production from ash-free coal by catalytic steam gasification integrated with dry-sorption CO ₂ capture. <i>Fuel</i> , 2016, 178, 272-282.	3.4	37
35	Pelletizing and Coating of Synthetic Zirconia Stabilized Calcium-Based Sorbents for Application in Calcium Looping CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 5395-5402.	1.8	36
36	Catalytic Hydrodeoxygenation of Guaiacol as Lignin Model Component Using Ni-Mo/TiO ₂ and Ni-V/TiO ₂ Catalysts. <i>Catalysis Letters</i> , 2015, 145, 1351-1363.	1.4	32

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37	Kinetic study of the effects of pH on the photocatalytic hydrogen production from alcohols. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 32030-32041.	3.8	32
38	CO ₂ adsorption using amino acid ionic liquid-impregnated mesoporous silica sorbents with different textural properties. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 378-386.	2.2	32
39	Kinetic Studies of a Novel CO ₂ Gasification Method Using Coal from Deep Unmineable Seams. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 14787-14797.	1.8	30
40	Thermodynamic and Kinetic Study of CO ₂ Capture with Calcium Based Sorbents: Experiments and Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4725-4733.	1.8	30
41	Process design and simulation study: CO ₂ utilization through mixed reforming of methane for methanol synthesis. <i>Chemical Engineering Science</i> , 2021, 233, 116364.	1.9	30
42	Pyrolysis of Oat Straw and the Comparison of the Product Yield to Wheat and Flax Straw Pyrolysis. <i>Energy & Fuels</i> , 2011, 25, 2803-2807.	2.5	29
43	The low temperature oxidation of Fosterton asphaltenes and its combustion kinetics. <i>Fuel Processing Technology</i> , 2011, 92, 1056-1061.	3.7	29
44	Sorbent enhanced hydrogen production from steam gasification of coal integrated with CO ₂ capture. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17001-17008.	3.8	29
45	A Modified Grain Model in Studying the CO ₂ Capture Process with a Calcium-Based Sorbent: A Semianalytical Approach. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 869-877.	1.8	29
46	Kinetic Model for the Combustion of Coke Derived at Different Coking Temperatures. <i>Energy & Fuels</i> , 2007, 21, 82-87.	2.5	27
47	Investigation of the Kinetics of Carbonation Reaction with Cao-Based Sorbents Using Experiments and Aspen Plus Simulation. <i>Chemical Engineering Communications</i> , 2015, 202, 746-755.	1.5	27
48	Oxygen transport capacity and kinetic study of ilmenite ores for methane chemical-looping combustion. <i>Energy</i> , 2019, 169, 329-337.	4.5	27
49	Performance Evaluation of a Cu-Based Oxygen Carrier Impregnated onto ZrO ₂ for Chemical-Looping Combustion (CLC). <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7255-7266.	1.8	27
50	Pyrolysis kinetics of Athabasca bitumen using a TGA under the influence of reservoir sand. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 315-319.	0.9	25
51	Investigation of the effect of alumina-aerogel support on the CO ₂ capture performance of K ₂ CO ₃ . <i>Fuel</i> , 2019, 242, 124-132.	3.4	24
52	Core-shell structured CaO-based pellets protected by mesoporous ceramics shells for high-temperature CO ₂ capture. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 2038-2044.	0.9	23
53	Hydrogen peroxide-assisted photocatalysis under solar light irradiation: Interpretation of interaction effects between an active photocatalyst and H ₂ O ₂ . <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2009-2014.	0.9	23
54	A new model to estimate CO ₂ coal gasification kinetics based only on parent coal characterization properties. <i>Applied Energy</i> , 2015, 137, 126-133.	5.1	22

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55	Individual and interaction effects of operating parameters on the photocatalytic degradation under visible light illumination: Response surface methodological approach. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1228-1235.	0.9	22
56	Roles of Cation and Anion of Amino Acid Anion-Functionalized Ionic Liquids Immobilized into a Porous Support for CO ₂ Capture. <i>Energy & Fuels</i> , 2018, 32, 5345-5354.	2.5	22
57	Tri-reforming of methane for syngas production using Ni catalysts: Current status and future outlook. <i>Catalysis Today</i> , 2023, 407, 107-124.	2.2	22
58	Comparative Kinetics and Thermal Behavior: The Study of Crude Oils Derived from Fosterton and Neilburg Fields of Saskatchewan. <i>Energy & Fuels</i> , 2010, 24, 1640-1645.	2.5	21
59	A novel development of mixed catalyst sorbent pellets for steam gasification of coal chars with in situ CO ₂ capture. <i>Catalysis Today</i> , 2014, 237, 111-117.	2.2	21
60	CO ₂ Capture Performance of Core/Shell CaO-Based Sorbent Using Mesostructured Silica and Titania in a Multicycle CO ₂ Capture Process. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4532-4538.	1.8	21
61	Nutrient media optimization for simultaneous enhancement of the laccase and peroxidases production by coculture of <i>Dichomitus squalens</i> and <i>Ceriporiopsis subvermispora</i> . <i>Biotechnology and Applied Biochemistry</i> , 2015, 62, 173-185.	1.4	20
62	Techno-economic Analysis of a Bioethanol to Hydrogen Centralized Plant. <i>Energy & Fuels</i> , 2017, 31, 12988-12996.	2.5	20
63	Effect of Water Vapor on CO ₂ Sorption/Desorption Behaviors of Supported Amino Acid Ionic Liquid Sorbents on Porous Microspheres. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14316-14323.	1.8	20
64	Preparation of Novel Oxygen Carriers Supported by Ti, Zr-Shelled γ -Alumina for Chemical Looping Combustion of Methane. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3221-3228.	1.8	20
65	Effects of second metal oxides on zirconia-stabilized Ca-based sorbent for sorption/catalyst integrated gasification. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1281-1288.	3.3	19
66	Determination of redox pathways of supported bimetallic oxygen carriers in a methane fuelled chemical looping combustion system. <i>Fuel</i> , 2018, 233, 133-145.	3.4	18
67	Study of Al ₂ O ₃ addition to synthetic Ca-based sorbents for CO ₂ sorption capacity and stability in cyclic operations. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 102-110.	0.9	17
68	Experimental Verification of the Reaction Mechanism of Solid K ₂ CO ₃ during Postcombustion CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11022-11028.	1.8	17
69	Kinetic Behavior of Solid K ₂ CO ₃ under Postcombustion CO ₂ Capture Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 853-863.	1.8	17
70	Study of sawdust pyrolysis and its devolatilisation kinetics. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 1451-1457.	0.9	16
71	Evaluation of supported multi-functionalized amino acid ionic liquid-based sorbents for low temperature CO ₂ capture. <i>Fuel</i> , 2022, 310, 122284.	3.4	16
72	Calcium looping carbon capture: Progress and prospects. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2140-2171.	0.9	16

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73	Enhancement of <i>Dichomitus squalens</i> tolerance to copper and copper-associated laccase activity by carbon and nitrogen sources. <i>Biochemical Engineering Journal</i> , 2012, 67, 140-147.	1.8	15
74	Modified equilibrium modelling of coal gasification with in situ CO ₂ capture using sorbent CaO: Assessment of approach temperature. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1361-1369.	2.7	15
75	The effects of refractory zirconium-based ceramic dopants on the stability performance of synthetic Ca-based sorbents prepared by co-precipitation method in cyclic CO ₂ capture operations. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 1056-1061.	2.1	15
76	Process simulation and thermodynamic analysis of a chemical looping combustion system using methane as fuel and NiO as the oxygen carrier in a moving-bed reactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 144, 107636.	1.8	15
77	Application of Core-Shell-Structured K ₂ CO ₃ -Based Sorbents in Postcombustion CO ₂ Capture: Statistical Analysis and Optimization Using Response Surface Methodology. <i>Energy & Fuels</i> , 2020, 34, 3429-3439.	2.5	15
78	Bitumen and asphaltene derived nanoporous carbon and nickel oxide/carbon composites for supercapacitor electrodes. <i>Scientific Reports</i> , 2022, 12, 4095.	1.6	15
79	Post-combustion CO ₂ capture using supported K ₂ CO ₃ : Comparing physical mixing and incipient wetness impregnation preparation methods. <i>Chemical Engineering Research and Design</i> , 2018, 137, 319-328.	2.7	14
80	Modified Overlapping Grain Size Distributed Model for the Kinetic Study of CO ₂ Capture by a Synthetic Calcium-Based Sorbent: Structural Changes from the Chemical Reaction and Sintering. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 14000-14007.	1.8	14
81	Amino acid ionic liquid-modified mesoporous silica sorbents with remaining surfactant for CO ₂ capture. <i>Adsorption</i> , 2019, 25, 703-716.	1.4	14
82	Study on the efficiency of multiple amino groups in ionic liquids on their sorbents performance for low-temperature CO ₂ capture. <i>Chemical Engineering Research and Design</i> , 2021, 167, 198-206.	2.7	14
83	Methanol production via integrated methane reforming and chemical looping combustion: Process simulation and techno-economic assessment. <i>Chemical Engineering Research and Design</i> , 2021, 148, 1346-1356.	2.7	14
84	Recent progress in the development of synthetic oxygen carriers for chemical looping combustion applications. <i>Catalysis Today</i> , 2023, 407, 21-51.	2.2	14
85	Simulation of high-temperature steam-only gasification of woody biomass with dry-sorption CO ₂ capture. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1648-1656.	0.9	13
86	Synthesis, characterization, and kinetic study of nanostructured copper-based oxygen carrier supported on silica and zirconia aerogels in the cyclic chemical looping combustion process. <i>Chemical Engineering Journal</i> , 2022, 448, 137756.	6.6	13
87	Biological sequestration of carbon dioxide in geological formations. <i>Chemical Engineering Research and Design</i> , 2011, 89, 1873-1878.	2.7	12
88	The effect of sawdust on the calcination and the intrinsic rate of the carbonation reaction using a thermogravimetric analyzer (TGA). <i>Fuel Processing Technology</i> , 2013, 106, 533-538.	3.7	12
89	Preparation and Application of Faujasite-Type Y Zeolite-based Catalysts for Coal Pyrolysis using Sodium Silicate Solution and Colloidal Silica as Silicon Source. <i>Chemical Engineering Communications</i> , 2016, 203, 300-317.	1.5	12
90	First-principles investigations into the effect of oxygen vacancies on the enhanced reactivity of NiO via Bader charge and density of states analysis. <i>Catalysis Today</i> , 2023, 407, 172-181.	2.2	12

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91	Analysis of Gaseous and Liquid Products from Pressurized Pyrolysis of Flax Straw in a Fixed Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4627-4632.	1.8	11
92	The synthesis of novel zeolite Y nanoparticles using mesoporous silica with a temperature controlling method. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 671-675.	0.9	11
93	Reduction and oxidation kinetics of solid fuel chemical looping combustion over a core-shell structured nickel-based oxygen carrier: Application of a developed grain size distribution model. <i>Fuel</i> , 2020, 274, 117838.	3.4	11
94	Preparation of Aerogel-Supported Copper Oxide for the Methane Chemical Looping Combustion (CLC) Process. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8227-8235.	1.8	10
95	CuO/ZrO ₂ modified by WO ₃ oxygen carriers for chemical looping with oxygen uncoupling. <i>Fuel</i> , 2022, 310, 122288.	3.4	10
96	Kinetic Models for Low Temperature Oxidation Subranges based on Reaction Products. , 2013, , .		9
97	Application of Novel Zeolite Y Nanoparticles in Catalytic Cracking Reactions. <i>Chemical Engineering Communications</i> , 2016, 203, 251-257.	1.5	9
98	Density, Viscosity, Refractive Index, and Electrical Conductivity of Degraded Monoethanolamine Solutions at Standard Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1969-1976.	1.0	9
99	Photocatalytic conversion of alcohols to hydrogen and carbon-containing products: A cleaner alcohol valorization approach. <i>Journal of Cleaner Production</i> , 2021, 318, 128546.	4.6	9
100	Catalytic Pyrolysis of Low Rank Canadian Boundary Dam Coal over ZSM-5 and LTL Zeolites. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1651-1656.	0.9	8
101	Utilization of Alumina Aerogel as High Surface Area Support for the Fabrication of Oxygen Carriers in the Chemical Looping Combustion Process. <i>Energy & Fuels</i> , 2019, 33, 5408-5414.	2.5	8
102	A modified grain size distributed model for kinetic study of non-catalytic gas-solid reactions in presence of solid structural changes. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1537-1544.	0.9	8
103	The effects of WO ₃ addition to NiO/ZrO ₂ oxygen carriers for chemical looping combustion of methane. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106945.	3.3	8
104	CaO-Based Nanomaterials Promoted with CaZrO ₃ for High-Temperature Carbon Capture. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5514-5526.	1.8	8
105	Enhanced Delignification of Wheat Straw by the Combined Effect of Hydrothermal and Fungal Treatments. <i>Chemical Engineering Communications</i> , 2017, 204, 803-812.	1.5	7
106	Effects of support and oxygen vacancies on the energetics of NiO reduction with H ₂ for the chemical looping combustion (CLC) reaction; a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12795-12806.	1.3	7
107	Novel synthesis of high-surface-area alumina using toluene-dimethylformamide as synthetic media. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107204.	3.3	7
108	An extensive simulation of coal gasification in bubbling fluidized bed: Integration of hydrodynamics into reaction modelling. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 1714-1724.	0.9	6

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109	X-ray diffraction and TGA kinetic analyses for chemical looping combustion applications. Data in Brief, 2018, 17, 200-209.	0.5	6
110	Investigation of catalytic hydrodeoxygenation of anisole as bio-oil model compound over Ni-Mo/TiO_2 and Ni-V/TiO_2 catalysts: Synthesis, kinetic, and reaction pathways studies. Canadian Journal of Chemical Engineering, 2021, 99, 1094-1106.	0.9	6
111	Utilization of mesoporous alumina-based supports synthesized by a surfactant-assisted technique for post-combustion CO ₂ capture. Journal of Environmental Chemical Engineering, 2021, 9, 105661.	3.3	6
112	The preparation of zirconia-stabilized calcium oxide nanoparticles using supercritical drying technique for calcium looping process. Catalysis Today, 2022, 404, 237-243.	2.2	6
113	NON-ISOTHERMAL KINETICS OF THE PYROLYSIS OF WHOLE OIL AND ITS ASPHALTENE DERIVED FROM FOSTERTON OIL. Chemical Engineering Communications, 2012, 199, 865-873.	1.5	5
114	Induction and suppression of <i>Dichomitus squalens</i> and <i>Ceriporiopsis subvermispora</i> peroxidase activity by manganese sulphate in response to carbon and nitrogen sources. Canadian Journal of Chemical Engineering, 2014, 92, 779-786.	0.9	5
115	A theoretical model to estimate steam and CO ₂ gasification rates based on feedstock characterization properties. Fuel Processing Technology, 2016, 149, 187-194.	3.7	5
116	Development of a facile reclaiming process for degraded alkanolamine and glycol solvents used for CO ₂ capture systems. International Journal of Greenhouse Gas Control, 2018, 74, 174-181.	2.3	5
117	Experimental Study on Local Mass Transfer in a Simplified Bifurcation Model: Potential Role in Atherosclerosis. Annals of Biomedical Engineering, 2004, 32, 1504-1518.	1.3	4
118	Flax straw char- CO_2 gasification kinetics and its inhibition studies with CO. Canadian Journal of Chemical Engineering, 2013, 91, 882-888.	0.9	4
119	Degradation of textile dyes under subcritical water conditions in the presence of hydrogen peroxide. Canadian Journal of Chemical Engineering, 2014, 92, 615-622.	0.9	4
120	Viscosity and rheological behavior of microbubbles in capillary tubes. AIChE Journal, 2014, 60, 2660-2669.	1.8	4
121	Potassium-catalyzed steam gasification of ash-free lignite coal with CO_2 capture. Canadian Journal of Chemical Engineering, 2018, 96, 250-258.	0.9	4
122	Isothermal redox cycling of A- and B-site substituted manganese-based perovskites for CO_2 conversion. Canadian Journal of Chemical Engineering, 2021, 99, .	0.9	4
123	Performance assessment of thermochemical CO ₂ /H ₂ O splitting in moving bed and fluidized bed reactors. International Journal of Hydrogen Energy, 2021, 46, 29774-29794.	3.8	4
124	Characterization, kinetics and stability studies of NiO and CuO supported by Al ₂ O ₃ , ZrO ₂ , CeO ₂ and their combinations in chemical looping combustion. Catalysis Today, 2022, 397-399, 206-219.	2.2	4
125	Reclaiming degraded mixed monoethanolamine and N-methyldiethanolamine solvent in carbon dioxide capture process. Journal of Natural Gas Science and Engineering, 2021, 95, 104214.	2.1	4
126	Stability of CaO-based Sorbents under Realistic Calcination Conditions: Effect of Metal Oxide Supports. ACS Sustainable Chemistry and Engineering, 2022, 10, 9760-9769.	3.2	4

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127	CFD simulation of flow regime maps in a slotâ€rectangular spouted bed. Canadian Journal of Chemical Engineering, 2013, 91, 1856-1864.	0.9	3
128	Structure and phase evolution of CaMnO ₃ perovskite during isothermal redox cycles. Canadian Journal of Chemical Engineering, 2019, 97, 2131-2136.	0.9	3
129	Insight into MgO-supported NiO reactivity from atomic-scale electronegativity for oxygen carrier design and catalyst production applications. Catalysis Today, 2022, 404, 244-252.	2.2	3
130	Dopant-Induced Tailoring of Isothermal Redox Properties of CaMnO ₃ Perovskites. Industrial & Engineering Chemistry Research, 2020, 59, 19406-19414.	1.8	2
131	Corrugated Screen Packing (CSP) for Improved Gas Liquid Absorption in Cocurrent Downflow Packed Columns Operating in a Pulse Flow Regime. Industrial & Engineering Chemistry Research, 2020, 59, 11767-11776.	1.8	2
132	The Effects of Mass Transfer Parameters on the Modeling of A PEM Fuel Cell. , 2006, , .		1
133	65th Canadian Chemical Engineering Conference: Preface. Canadian Journal of Chemical Engineering, 2016, 94, 2037-2037.	0.9	1
134	The fabrication of Ce promoted Ni/Mg/Al mixed oxides hydrotalcite washcoated alloy, monolith catalyst for catalytic steam cracking of vacuum gas oil. Catalysis Today, 2022, 397-399, 497-510.	2.2	1