Amornchai Arponwichanop

List of Publications by Year
in descending order

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178 papers	4,133 citations	101543 36 h-index	189892 50 g-index
183 all docs	183 docs citations	183 times ranked	3890 citing authors

#	Article	IF	Citations
1	Electrochemical study of a planar solid oxide fuel cell: Role of support structures. Journal of Power Sources, 2008, 177, 254-261.	7.8	115
2	A review of the development of high temperature proton exchange membrane fuel cells. Chinese Journal of Catalysis, 2015, 36, 473-483.	14.0	111
3	Gasification of plastic waste for synthesis gas production. Energy Reports, 2020, 6, 202-207.	5.1	107
4	Hydrogen Production via Sorption Enhanced Steam Methane Reforming Process Using Ni/CaO Multifunctional Catalyst. Industrial & Engineering Chemistry Research, 2011, 50, 13662-13671.	3.7	98
5	Discharge Performance of Zinc-Air Flow Batteries Under the Effects of Sodium Dodecyl Sulfate and Pluronic F-127. Scientific Reports, 2018, 8, 14909.	3.3	85
6	A review on the electrolyte imbalance in vanadium redox flow batteries. International Journal of Hydrogen Energy, 2019, 44, 24485-24509.	7.1	80
7	On-line dynamic optimization and control strategy for improving the performance of batch reactors. Chemical Engineering and Processing: Process Intensification, 2005, 44, 101-114.	3.6	76
8	Thermodynamic study of hydrogen production from crude glycerol autothermal reforming for fuel cell applications. International Journal of Hydrogen Energy, 2010, 35, 6617-6623.	7.1	76
9	Exergoeconomics of hydrogen production from biomass air-steam gasification with methane co-feeding. Energy Conversion and Management, 2017, 140, 228-239.	9.2	74
10	Ethanol as an electrolyte additive for alkaline zinc-air flow batteries. Scientific Reports, 2018, 8, 11273.	3.3	73
11	Comparison of high-temperature and low-temperature polymer electrolyte membrane fuel cell systems with glycerol reforming process for stationary applications. Applied Energy, 2013, 109, 192-201.	10.1	64
12	Biomass gasification integrated with CO2 capture processes for high-purity hydrogen production: Process performance and energy analysis. Energy Conversion and Management, 2018, 171, 1560-1572.	9.2	62
13	Electrochemical performance assessment of low-temperature solid oxide fuel cell with YSZ-based and SDC-based electrolytes. International Journal of Hydrogen Energy, 2018, 43, 921-931.	7.1	57
14	Control structure design and robust model predictive control for controlling a proton exchange membrane fuel cell. Journal of Cleaner Production, 2017, 148, 934-947.	9.3	52
15	Hydrogen production from catalytic supercritical water reforming of glycerol with cobalt-based catalysts. International Journal of Hydrogen Energy, 2013, 38, 4368-4379.	7.1	51
16	Performance evaluation of sorption enhanced chemical-looping reforming for hydrogen production from biomass with modification of catalyst and sorbent regeneration. Chemical Engineering Journal, 2016, 303, 338-347.	12.7	50
17	Analysis of synthesis gas production with a flexible H 2 /CO ratio from rice straw gasification. Fuel, 2016, 164, 361-373.	6.4	49
18	Suppression of zinc anode corrosion for printed flexible zincâ€air battery. Physica Status Solidi (B): Basic Research, 2017, 254, 1600442.	1.5	49

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19	Techno-economic analysis of the biomass gasification and Fischerâ€“Tropsch integrated process with off-gas recirculation. Energy, 2016, 94, 483-496.	8.8	48
20	Effect of anodeâ€“cathode exhaust gas recirculation on energy recuperation in a solid oxide fuel cell-gas turbine hybrid power system. Energy, 2016, 94, 218-232.	8.8	48
21	Energy and exergy analyses of an ethanol-fueled solid oxide fuel cell for a trigeneration system. Energy, 2015, 87, 228-239.	8.8	46
22	Model-Based Analysis of an Integrated Zinc-Air Flow Battery/Zinc Electrolyzer System. Frontiers in Energy Research, 2019, 7, .	2.3	46
23	Analysis of a proton-conducting SOFC with direct internal reforming. Chemical Engineering Science, 2010, 65, 581-589.	3.8	45
24	Analysis of an ethanol-fuelled solid oxide fuel cell system using partial anode exhaust gas recirculation. Journal of Power Sources, 2012, 208, 120-130.	7.8	45
25	Hydrogen production from glycerol steam reforming for low- and high-temperature PEMFCs. International Journal of Hydrogen Energy, 2011, 36, 267-275.	7.1	42
26	Performance analysis of an integrated biomass gasification and PEMFC (proton exchange membrane) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	8.8	42
27	Flowsheet-based model and exergy analysis of solid oxide electrolysis cells for clean hydrogen production. Journal of Cleaner Production, 2018, 170, 1-13.	9.3	42
28	Multi-objective optimization of sorption enhanced steam biomass gasification with solid oxide fuel cell. Energy Conversion and Management, 2019, 182, 412-429.	9.2	42
29	Analysis of planar solid oxide fuel cells based on proton-conducting electrolyte. Solid State Ionics, 2010, 181, 1568-1576.	2.7	40
30	Maximizing the efficiency of a HT-PEMFC system integrated with glycerol reformer. International Journal of Hydrogen Energy, 2012, 37, 6808-6817.	7.1	40
31	Neural network inverse model-based controller for the control of a steel pickling process. Computers and Chemical Engineering, 2005, 29, 2110-2119.	3.8	39
32	Measuring the state of charge of the electrolyte solution in a vanadium redox flow battery using a four-pole cell device. Journal of Power Sources, 2015, 298, 150-157.	7.8	39
33	Cycle analysis of solid oxide fuel cell-gas turbine hybrid systems integrated ethanol steam reformer: Energy management. Energy, 2017, 127, 743-755.	8.8	39
34	Process and sustainability analyses of the integrated biomass pyrolysis, gasification, and methanol synthesis process for methanol production. Energy, 2020, 193, 116788.	8.8	38
35	Performance of an anode-supported solid oxide fuel cell with direct-internal reforming of ethanol. International Journal of Hydrogen Energy, 2009, 34, 7780-7788.	7.1	37
36	Energy and exergy analysis of an ethanol reforming process for solid oxide fuel cell applications. Bioresource Technology, 2014, 157, 231-239.	9.6	37

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37	Performance and environmental study of a biogas-fuelled solid oxide fuel cell with different reforming approaches. Energy, 2018, 146, 131-140.	8.8	37
38	Analysis of the Imbert downdraft gasifier using a species-transport CFD model including tar-cracking reactions. Energy Conversion and Management, 2020, 213, 112808.	9.2	37
39	Catalytic reforming of glycerol in supercritical water with nickel-based catalysts. International Journal of Hydrogen Energy, 2014, 39, 14739-14750.	7.1	36
40	Analysis and measurement of the electrolyte imbalance in a vanadium redox flow battery. Journal of Power Sources, 2015, 282, 534-543.	7.8	36
41	Reactive distillation for biodiesel production from soybean oil. Korean Journal of Chemical Engineering, 2011, 28, 649-655.	2.7	35
42	Using glycerol for hydrogen production via sorption-enhanced chemical looping reforming: Thermodynamic analysis. Energy Conversion and Management, 2016, 124, 325-332.	9.2	35
43	Thermodynamic analysis of the novel chemical looping process for two-grade hydrogen production with CO2 capture. Energy Conversion and Management, 2019, 180, 325-337.	9.2	33
44	Analysis of a pressurized solid oxide fuel cellâ€“gas turbine hybrid power system with cathode gas recirculation. International Journal of Hydrogen Energy, 2013, 38, 4748-4759.	7.1	32
45	Theoretical analysis of a glycerol reforming and high-temperature PEMFC integrated system: Hydrogen production and system efficiency. Fuel, 2013, 105, 345-352.	6.4	32
46	Effect of different fuel options on performance of high-temperature PEMFC (proton exchange) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	8.8	32
47	Optimization and nonlinear control of a batch crystallization process. Journal of the Taiwan Institute of Chemical Engineers, 2008, 39, 249-256.	1.4	31
48	Performance evaluation of combined solid oxide fuel cells with different electrolytes. International Journal of Hydrogen Energy, 2010, 35, 4301-4310.	7.1	31
49	Discharge performance and dynamic behavior of refuellable zinc-air battery. Scientific Data, 2019, 6, 168.	5.3	31
50	Neural network hybrid model of a direct internal reforming solid oxide fuel cell. International Journal of Hydrogen Energy, 2012, 37, 2498-2508.	7.1	29
51	Analysis of the sorption-enhanced chemical looping biomass gasification process: Performance assessment and optimization through design of experiment approach. Energy, 2020, 207, 118190.	8.8	29
52	Control structure design and dynamic modeling for a solid oxide fuel cell with direct internal reforming of methane. Chemical Engineering Research and Design, 2015, 98, 202-211.	5.6	28
53	Technical and economic assessment of the pyrolysis and gasification integrated process for biomass conversion. Energy, 2018, 153, 592-603.	8.8	28
54	Hybrid reactive distillation systems for n-butyl acetate production from dilute acetic acid. Journal of Industrial and Engineering Chemistry, 2008, 14, 796-803.	5.8	27

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55	Use of different renewable fuels in a steam reformer integrated into a solid oxide fuel cell: Theoretical analysis and performance comparison. Energy, 2013, 51, 305-313.	8.8	27
56	Exergy analysis of the biogas sorption-enhanced chemical looping reforming process integrated with a high-temperature proton exchange membrane fuel cell. Energy Conversion and Management, 2017, 149, 485-494.	9.2	27
57	Reactive distillation for synthesis of glycerol carbonate via glycerolysis of urea. Chemical Engineering and Processing: Process Intensification, 2013, 70, 103-109.	3.6	26
58	Thermodynamic analysis of solid oxide fuel cell system using different ethanol reforming processes. International Journal of Hydrogen Energy, 2015, 40, 6950-6958.	7.1	26
59	Design of SOFC based oxyfuel combustion systems with anode recycling and steam recycling options. Energy Conversion and Management, 2017, 151, 723-736.	9.2	26
60	Product quality improvement of batch crystallizers by a batch-to-batch optimization and nonlinear control approach. Chemical Engineering Journal, 2008, 139, 344-350.	12.7	24
61	Investigating the air oxidation of V(II) ions in a vanadium redox flow battery. Journal of Power Sources, 2015, 295, 292-298.	7.8	24
62	Evaluation of an integrated methane autothermal reforming and high-temperature proton exchange membrane fuel cell system. Energy, 2015, 80, 331-339.	8.8	24
63	Optimization of hydrogen production from three reforming approaches of glycerol via using supercritical water with in situ CO2 separation. International Journal of Hydrogen Energy, 2019, 44, 2128-2140.	7.1	24
64	Bio-methanol production from oil palm residues: A thermodynamic analysis. Energy Conversion and Management, 2020, 226, 113493.	9.2	24
65	Optimal operational strategy for a vanadium redox flow battery. Computers and Chemical Engineering, 2020, 136, 106805.	3.8	24
66	Parametric analysis of a circulating fluidized bed biomass gasifier for hydrogen production. Energy, 2015, 82, 406-413.	8.8	23
67	Enhancement of dilute bio-ethanol steam reforming for a proton exchange membrane fuel cell system by using methane as co-reactant: Performance and life cycle assessment. International Journal of Hydrogen Energy, 2015, 40, 12144-12153.	7.1	23
68	Process simulation of bio-dimethyl ether synthesis from tri-reforming of biogas: CO2 utilization. Energy, 2019, 175, 36-45.	8.8	23
69	Analysis of thermally coupling steam and tri-reforming processes for the production of hydrogen from bio-oil. International Journal of Hydrogen Energy, 2016, 41, 18370-18379.	7.1	22
70	Mass transfer resistance and response surface methodology for separation of platinum (IV) across hollow fiber supported liquid membrane. Journal of Industrial and Engineering Chemistry, 2016, 42, 23-35.	5.8	22
71	Yttrium (III) Recovery with D2EHPA in Pseudo-Emulsion Hollow Fiber Strip Dispersion System. Scientific Reports, 2018, 8, 7627.	3.3	22
72	Theoretical analysis of a biogas-fed PEMFC system with different hydrogen purifications: Conventional and membrane-based water gas shift processes. Energy Conversion and Management, 2014, 86, 60-69.	9.2	21

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73	Effects of salt on the LLE and tie-line data for furfuryl alcohol â€" n-butanolâ€"water at T = 298.15 K. Journal of Molecular Liquids, 2016, 218, 50-58.	4.9	21
74	Enhanced performance of solid oxide electrolysis cells by integration with a partial oxidation reactor: Energy and exergy analyses. Energy Conversion and Management, 2016, 129, 189-199.	9.2	21
75	Performance comparison of solid oxide steam electrolysis cells with/without the addition of methane. Energy Conversion and Management, 2016, 120, 274-286.	9.2	21
76	Conceptual design and life cycle assessment of decentralized power generation by HT-PEMFC system with sorption enhanced water gas shift loop. Energy Conversion and Management, 2018, 171, 20-30.	9.2	21
77	Improving the Performance of an All-Vanadium Redox Flow Battery under Imbalance Conditions: Online Dynamic Optimization Approach. ACS Sustainable Chemistry and Engineering, 2020, 8, 13610-13622.	6.7	21
78	Mathematical Model to Study Vanadium Ion Crossover in an All-Vanadium Redox Flow Battery. ACS Sustainable Chemistry and Engineering, 2021, 9, 5377-5387.	6.7	21
79	Model-based control strategies for a chemical batch reactor with exothermic reactions. Korean Journal of Chemical Engineering, 2002, 19, 221-226.	2.7	20
80	Control of fed-batch bioreactors by a hybrid on-line optimal control strategy and neural network estimator. Neurocomputing, 2009, 72, 2297-2302.	5.9	20
81	Optimal Design of Biodiesel Production Process from Waste Cooking Palm Oil. Procedia Engineering, 2012, 42, 1292-1301.	1.2	19
82	Analysis of the Ca-looping sorption-enhanced steam reforming and solid oxide fuel cell integrated process using bio-oil. Energy Conversion and Management, 2017, 134, 156-166.	9.2	19
83	Optimal design of different reforming processes of the actual composition of bio-oil for high-temperature PEMFC systems. International Journal of Hydrogen Energy, 2017, 42, 1977-1988.	7.1	19
84	Performance assessment of a hybrid solid oxide and molten carbonate fuel cell system with compressed air energy storage under different power demands. International Journal of Hydrogen Energy, 2020, 45, 835-848.	7.1	19
85	Energy and exergy analyses of a hybrid system containing solid oxide and molten carbonate fuel cells, a gas turbine, and a compressed air energy storage unit. International Journal of Hydrogen Energy, 2021, 46, 34883-34895.	7.1	19
86	Pyrolysis and gasification integrated process of empty fruit bunch for multi-biofuels production: Technical and economic analyses. Energy Conversion and Management, 2022, 258, 115465.	9.2	19
87	Investigation of a proton-conducting SOFC with internal autothermal reforming of methane. Chemical Engineering Research and Design, 2013, 91, 1508-1516.	5.6	18
88	Techno-environmental analysis of the biomass gasification and Fischer-Tropsch integrated process for the co-production of bio-fuel and power. Energy, 2016, 112, 121-132.	8.8	18
89	Thermodynamic analysis of a proton conducting SOFC integrated system fuelled by different renewable fuels. International Journal of Hydrogen Energy, 2021, 46, 11445-11457.	7.1	18
90	Production of ethyltert-butyl ether fromtert-butyl alcohol and ethanol catalyzed byÎ²-zeolite in reactive distillation. Korean Journal of Chemical Engineering, 2004, 21, 1139-1146.	2.7	17

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91	Analysis of hydrogen production from methane autothermal reformer with a dual catalyst-bed configuration. Theoretical Foundations of Chemical Engineering, 2012, 46, 658-665.	0.7	17
92	Comparative exergoeconomic analysis of indirect and direct bio-dimethyl ether syntheses based on air-steam biomass gasification with CO2 utilization. Energy, 2020, 209, 118332.	8.8	17
93	Studies on optimal control approach in a fed-batch fermentation. Korean Journal of Chemical Engineering, 2007, 24, 11-15.	2.7	16
94	Modeling of an industrial fixed bed reactor based on lumped kinetic models for hydrogenation of pyrolysis gasoline. Journal of Industrial and Engineering Chemistry, 2008, 14, 771-778.	5.8	16
95	Improvement of batch crystallization control under uncertain kinetic parameters by model predictive control. Journal of Industrial and Engineering Chemistry, 2011, 17, 430-438.	5.8	16
96	Comparative techno-economic assessment of bio-methanol and bio-DME production from oil palm residue. Energy Conversion and Management, 2022, 258, 115511.	9.2	16
97	Production of n-butyl acetate from dilute acetic acid and n-butanol using different reactive distillation systems: Economic analysis. Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 21-28.	5.3	15
98	Neural network-based optimal control of a batch crystallizer. Neurocomputing, 2012, 83, 158-164.	5.9	15
99	Modeling and optimization of proton-conducting solid oxide electrolysis cell: Conversion of CO2 into value-added products. Journal of Power Sources, 2016, 331, 515-526.	7.8	14
100	Analysis of a solid oxide fuel cell and a molten carbonate fuel cell integrated system with different configurations. International Journal of Hydrogen Energy, 2018, 43, 932-942.	7.1	14
101	Thermodynamic Analysis of Hydrogen Production from the Adsorption-enhanced Steam Reforming of Biogas. Energy Procedia, 2014, 61, 2254-2257.	1.8	13
102	Biomass-fuelled PEMFC systems: Evaluation of two conversion paths relevant for different raw materials. Energy Conversion and Management, 2015, 106, 1183-1191.	9.2	13
103	Optimal design and performance analyses of the glycerol ether production process using a reactive distillation column. Journal of Industrial and Engineering Chemistry, 2016, 43, 93-105.	5.8	13
104	Hydrogen and power generation from supercritical water reforming of glycerol and pressurized SOFC integrated system: Use of different CO2 adsorption process. International Journal of Hydrogen Energy, 2018, 43, 17821-17834.	7.1	13
105	Simulation studies on reactive distillation for synthesis oftert-amyl ethyl ether. Korean Journal of Chemical Engineering, 2005, 22, 387-392.	2.7	12
106	Batch-to-batch Optimization of Batch Crystallization Processes. Chinese Journal of Chemical Engineering, 2008, 16, 26-29.	3.5	12
107	Design methodology for bio-based processing: Biodiesel and fatty alcohol production. Computers and Chemical Engineering, 2013, 57, 48-62.	3.8	12
108	Performance and economic assessments of a solid oxide fuel cell system with a two-step ethanol-steam-reforming process using CaO sorbent. Journal of Power Sources, 2016, 306, 124-134.	7.8	12

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109	Separation of platinum(IV) across hollow fiber supported liquid membrane using non-toxic diluents: Mass transfer and thermodynamics. Journal of Industrial and Engineering Chemistry, 2017, 54, 278-289.	5.8	12
110	Generation and selection of Pareto-optimal solution for the sorption enhanced steam biomass gasification system with solid oxide fuel cell. Energy Conversion and Management, 2019, 196, 1420-1432.	9.2	12
111	Comparative analysis of biomass and coal based co-gasification processes with and without CO2 capture for HT-PEMFCs. International Journal of Hydrogen Energy, 2019, 44, 2216-2229.	7.1	12
112	Hydrogen and power generation via integrated bio-oil sorption-enhanced steam reforming and solid oxide fuel cell systems: Economic feasibility analysis. International Journal of Hydrogen Energy, 2021, 46, 11482-11493.	7.1	12
113	Exergy and exergoeconomic analyses of sustainable furfural production via reactive distillation. Energy, 2021, 226, 120339.	8.8	12
114	Electronic and Ionic Conductivities Enhancement of Zinc Anode for Flexible Printed Zinc-Air Battery. Engineering Journal, 2018, 22, 47-57.	1.0	12
115	On-line dynamic optimization integrated with generic model control of a batch crystallizer. Journal of Industrial and Engineering Chemistry, 2008, 14, 442-448.	5.8	11
116	Effect of mode of operation on hydrogen production from glycerol at thermal neutral conditions: Thermodynamic analysis. International Journal of Hydrogen Energy, 2010, 35, 10257-10270.	7.1	11
117	Design and optimization of dimethyl ether production from crude glycerol in a reactive distillation. Chemical Engineering and Processing: Process Intensification, 2017, 117, 80-88.	3.6	11
118	Assessment of heat-to-power ratio in a bio-oil sorption enhanced steam reforming and solid oxide fuel cell system. Energy Conversion and Management, 2019, 184, 48-59.	9.2	11
119	Assessment and analysis of multi-biomass fuels for sustainable electricity generation. Renewable Energy, 2021, 180, 1405-1418.	8.9	11
120	Performance Analysis of a Smelting Reactor for Copper Production Process. Industrial & Engineering Chemistry Research, 2009, 48, 1120-1125.	3.7	10
121	Investigating the performance of a solid oxide fuel cell and a molten carbonate fuel cell combined system. Energy, 2016, 107, 843-853.	8.8	10
122	Modifying the Catalyst Layer Using Polyvinyl Alcohol for the Performance Improvement of Proton Exchange Membrane Fuel Cells under Low Humidity Operations. Polymers, 2020, 12, 1865.	4.5	10
123	Linear parameter-varying model for a refuellable zincâ€“air battery. Royal Society Open Science, 2020, 7, 201107.	2.4	10
124	Hybrid Process of Reactive Distillation and Pervaporation for the Production of Tert-amyl Ethyl Ether. Chinese Journal of Chemical Engineering, 2008, 16, 100-103.	3.5	9
125	Adsorption-membrane hybrid system for ethanol steam reforming: Thermodynamic analysis. International Journal of Hydrogen Energy, 2011, 36, 14428-14434.	7.1	9
126	A systematic model-based analysis of a downer regenerator in fluid catalytic cracking processes. Computers and Chemical Engineering, 2013, 49, 136-145.	3.8	9

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127	Economic Evaluation of Biodiesel Production from Palm Fatty Acid Distillate Using a Reactive Distillation. Energy Procedia, 2017, 105, 237-243.	1.8	8
128	Efficient heat allocation in the two-step ethanol steam reforming and solid oxide fuel cell integrated process. Energy, 2017, 133, 545-556.	8.8	8
129	Control structure design of a solid oxide fuel cell and a molten carbonate fuel cell integrated system: Top-down analysis. Energy Conversion and Management, 2017, 152, 88-98.	9.2	8
130	Techno-economic assessment of extractive distillation for tert-butyl alcohol recovery in fuel additive production. Chemical Engineering and Processing: Process Intensification, 2017, 122, 161-171.	3.6	8
131	Design and Implementation of the Off-Line Robust Model Predictive Control for Solid Oxide Fuel Cells. Processes, 2019, 7, 918.	2.8	8
132	Performance analysis and temperature gradient of solid oxide fuel cell stacks operated with bio-oil sorption-enhanced steam reforming. International Journal of Hydrogen Energy, 2020, 45, 12108-12120.	7.1	8
133	Sustainable Hydrogen Production from Waste Wood and CO₂. Industrial & Engineering Chemistry Research, 2021, 60, 12362-12376.	3.7	8
134	Exergy and exergoeconomic assessment of sustainable light olefins production from an integrated methanol synthesis andÂmethanol-to-olefins system. Journal of Cleaner Production, 2022, 347, 131209.	9.3	8
135	Selection of appropriate primary fuel for hydrogen production for different fuel cell types: Comparison between decomposition and steam reforming. International Journal of Hydrogen Energy, 2011, 36, 7696-7706.	7.1	7
136	Study on Mechanism and Kinetic of Air Oxidation of V(II) in Electrolyte Reservoir of a Vanadium Redox Flow Battery. Energy Procedia, 2014, 61, 1642-1645.	1.8	7
137	Using a membrane reactor for the oxidative coupling of methane: simulation and optimization. Clean Technologies and Environmental Policy, 2014, 16, 1295-1306.	4.1	7
138	Performance Analysis and Optimization of the Biomass Gasification and Fischer-Tropsch Integrated Process for Green Fuel Productions. Computer Aided Chemical Engineering, 2015, 37, 275-280.	0.5	7
139	Locating Shunt Currents in a Multistack System of All-Vanadium Redox Flow Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 4648-4659.	6.7	7
140	Process intensification approach for design and optimization of biodiesel production from palm fatty acid distillate. Biotechnology Reports (Amsterdam, Netherlands), 2021, 30, e00622.	4.4	7
141	Detailed kinetic mechanism of devolatilization stage and CFD modeling of downdraft gasifiers using pelletized palm oil empty fruit bunches. Renewable Energy, 2021, 179, 2267-2276.	8.9	7
142	Hydrogen Production from Sorption Enhanced Biogas Steam Reforming Using Nickel-Based Catalysts. Engineering Journal, 2013, 17, 19-34.	1.0	7
143	Performance improvement of bioethanol-fuelled solid oxide fuel cell system by using pervaporation. International Journal of Hydrogen Energy, 2011, 36, 5067-5075.	7.1	6
144	Heat-integrated reactive distillation for biodiesel production from Jatropha oil. Computer Aided Chemical Engineering, 2012, 31, 250-254.	0.5	6

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145	Effect of Water Transport on the Electrical Performance of PEM Fuel Cell. Energy Procedia, 2014, 61, 1553-1556.	1.8	6
146	Investigation of integrated biomass pyrolysis and gasification process for green fuel production. Energy Procedia, 2017, 142, 204-209.	1.8	6
147	The use of dilute acetic acid for butyl acetate production in a reactive distillation: Simulation and control studies. Korean Journal of Chemical Engineering, 2008, 25, 1252-1266.	2.7	5
148	Performance Analysis of a Biomass Supercritical Water Gasification Process under Energy Self-sufficient Condition. Computer Aided Chemical Engineering, 2014, 33, 1699-1704.	0.5	5
149	Control structure design of a solid oxide fuel cell and molten carbonate fuel cell integrated system: Bottom-up analysis. Energy Conversion and Management, 2020, 220, 113021.	9.2	5
150	Performance analysis and optimization of a trigeneration process consisting of a proton-conducting solid oxide fuel cell and a LiBr absorption chiller. International Journal of Hydrogen Energy, 2023, 48, 6837-6854.	7.1	5
151	Thermodynamic analysis of hydrogen production from glycerol at energy selfâ€sufficient conditions. Canadian Journal of Chemical Engineering, 2012, 90, 1112-1119.	1.7	4
152	Design of an integrated biomass gasification and proton exchange membrane fuel cell system under self-sustainable conditions: Process modification and heat-exchanger network synthesis. International Journal of Hydrogen Energy, 2017, 42, 448-458.	7.1	4
153	Deposition of Li/Al layered double hydroxides on the graphite felts for the performance improvement of an all-vanadium redox flow battery. Materials Today Communications, 2021, 27, 102280.	1.9	4
154	Characteristics of Graphite Felt Electrodes Treated by Atmospheric Pressure Plasma Jets for an All-Vanadium Redox Flow Battery. Materials, 2021, 14, 3847.	2.9	4
155	Dual Mode NMPC for Regulating the Concentration of Exothermic Reactor under Parametric Uncertainties. Journal of Chemical Engineering of Japan, 2004, 37, 698-710.	0.6	4
156	Fuel Processing Technologies for Hydrogen Production from Methane. Engineering Journal, 2012, 16, 1-4.	1.0	4
157	Two-Dimensional Mathematical Modeling of the Oxidative Coupling of Methane in a Membrane Reactor. Engineering Journal, 2016, 20, 17-33.	1.0	4
158	Study on the effect of electrode configuration on the performance of a hydrogen/vanadium redox flow battery. Renewable Energy, 2022, 190, 658-663.	8.9	4
159	A novel design for humidifying an open-cathode proton exchange membrane fuel cell using anode purge. International Journal of Hydrogen Energy, 2022, 47, 27680-27689.	7.1	4
160	Model predictive control of an industrial pyrolysis gasoline hydrogenation reactor. Journal of Industrial and Engineering Chemistry, 2008, 14, 175-181.	5.8	3
161	ENERGY EFFICIENCY EVALUATION FOR A â€œGREENâ€•POWER GENERATION PROCESS WITH MINIMUM EFFORT ON CARBON DIOXIDE CAPTURE AND STORAGE. Chemical Engineering Communications, 2012, 199, 1642-1651.	2.6	3
162	Investigation of a proton-conducting SOFC with internal autothermal reforming of methane. Computer Aided Chemical Engineering, 2012, , 307-311.	0.5	3

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163	Design and Thermal Analysis of a Solid Oxide Fuel Cell System Integrated with Ethanol Steam Reforming. Computer Aided Chemical Engineering, 2012, 30, 287-291.	0.5	3
164	Use of reactive distillation for triacetin production from crude glycerol. Computer Aided Chemical Engineering, 2012, 31, 165-169.	0.5	2
165	Effects of SOFC Exhaust Gas Recirculation on Performance of Solid Oxide Fuel Cell-Gas Turbine Hybrid System Utilizing Renewable Fuels. ECS Transactions, 2015, 68, 301-313.	0.5	2
166	Copper conductive patterns through spray-pyrolysis of copper-diethanolamine complex solution. PLoS ONE, 2018, 13, e0200084.	2.5	2
167	A Review on the Technical and Economic Prospects of Biofuel Production from Integrated Biomass Gasification and Fischer-Tropsch Processes. , 2020, , 283-315.		2
168	Performance Assessment of SOFC Systems Integrated with Bio-Ethanol Production and Purification Processes. Engineering Journal, 2010, 14, 1-14.	1.0	2
169	Performance of Membrane-Assisted Solid Oxide Fuel Cell System Fuelled By Bioethanol. Engineering Journal, 2011, 15, 53-66.	1.0	2
170	Two-Dimensional Modeling of the Oxidative Coupling of Methane in a Fixed Bed Reactor: A Comparison among Different Catalysts. Engineering Journal, 2017, 21, 77-99.	1.0	2
171	Performance assessment of a 10Â <scp>kW</scp> pressurized solid oxide fuel cell integrated with glycerol supercritical water reforming. International Journal of Energy Research, 2022, 46, 13613-13626.	4.5	2
172	Design methodology for bio-based processing. Computer Aided Chemical Engineering, 2012, , 855-859.	0.5	1
173	Robust Model Predictive Control Strategy for LTV and LPV Systems of the Internal Reforming Solid Oxide Fuel Cell. Computer Aided Chemical Engineering, 2015, 37, 1733-1738.	0.5	1
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