

Amornchai Arponwichanop

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2040403/publications.pdf>

Version: 2024-02-01

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	Performance analysis and optimization of a trigeneration process consisting of a proton-conducting solid oxide fuel cell and a LiBr absorption chiller. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6837-6854.	7.1	5
2	Power management strategy of PV-PEMFC-PEMEC hybrid systems integrated with a vanadium redox flow battery. , 2022, , 155-188.		1
3	Pyrolysis and gasification integrated process of empty fruit bunch for multi-biofuels production: Technical and economic analyses. <i>Energy Conversion and Management</i> , 2022, 258, 115465.	9.2	19
4	Comparative techno-economic assessment of bio-methanol and bio-DME production from oil palm residue. <i>Energy Conversion and Management</i> , 2022, 258, 115511.	9.2	16
5	Study on the effect of electrode configuration on the performance of a hydrogen/vanadium redox flow battery. <i>Renewable Energy</i> , 2022, 190, 658-663.	8.9	4
6	Exergy and exergoeconomic assessment of sustainable light olefins production from an integrated methanol synthesis and methanol-to-olefins system. <i>Journal of Cleaner Production</i> , 2022, 347, 131209.	9.3	8
7	Performance assessment of a 10Â ³ kW pressurized solid oxide fuel cell integrated with glycerol supercritical water reforming. <i>International Journal of Energy Research</i> , 2022, 46, 13613-13626.	4.5	2
8	A novel design for humidifying an open-cathode proton exchange membrane fuel cell using anode purge. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27680-27689.	7.1	4
9	Hydrogen and power generation via integrated bio-oil sorption-enhanced steam reforming and solid oxide fuel cell systems: Economic feasibility analysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11482-11493.	7.1	12
10	Thermodynamic analysis of a proton conducting SOFC integrated system fuelled by different renewable fuels. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11445-11457.	7.1	18
11	Locating Shunt Currents in a Multistack System of All-Vanadium Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4648-4659.	6.7	7
12	Mathematical Model to Study Vanadium Ion Crossover in an All-Vanadium Redox Flow Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5377-5387.	6.7	21
13	Deposition of Li/Al layered double hydroxides on the graphite felts for the performance improvement of an all-vanadium redox flow battery. <i>Materials Today Communications</i> , 2021, 27, 102280.	1.9	4
14	Process intensification approach for design and optimization of biodiesel production from palm fatty acid distillate. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00622.	4.4	7
15	Characteristics of Graphite Felt Electrodes Treated by Atmospheric Pressure Plasma Jets for an All-Vanadium Redox Flow Battery. <i>Materials</i> , 2021, 14, 3847.	2.9	4
16	Exergy and exergoeconomic analyses of sustainable furfural production via reactive distillation. <i>Energy</i> , 2021, 226, 120339.	8.8	12
17	Sustainable Hydrogen Production from Waste Wood and CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12362-12376.	3.7	8
18	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. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34883-34895.	7.1	19

#	ARTICLE	IF	CITATIONS
19	Assessment and analysis of multi-biomass fuels for sustainable electricity generation. Renewable Energy, 2021, 180, 1405-1418.	8.9	11
20	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
21	Operational Analysis of a Proton-Conducting Solid Oxide Electrolysis Cell for Synthetic Fuel Production. Computer Aided Chemical Engineering, 2021, 50, 215-220.	0.5	0
22	Process and sustainability analyses of the integrated biomass pyrolysis, gasification, and methanol synthesis process for methanol production. Energy, 2020, 193, 116788.	8.8	38
23	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
24	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
25	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
26	Comparative exergoeconomic analysis of indirect and direct bio-dimethyl ether syntheses based on air-steam biomass gasification with CO ₂ utilization. Energy, 2020, 209, 118332.	8.8	17
27	Bio-methanol production from oil palm residues: A thermodynamic analysis. Energy Conversion and Management, 2020, 226, 113493.	9.2	24
28	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
29	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
30	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
31	Optimal operational strategy for a vanadium redox flow battery. Computers and Chemical Engineering, 2020, 136, 106805.	3.8	24
32	Gasification of plastic waste for synthesis gas production. Energy Reports, 2020, 6, 202-207.	5.1	107
33	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
34	A Review on the Technical and Economic Prospects of Biofuel Production from Integrated Biomass Gasification and Fischer-Tropsch Processes. , 2020, , 283-315.		2
35	Linear parameter-varying model for a refuellable zinc-air battery. Royal Society Open Science, 2020, 7, 201107.	2.4	10
36	Optimization of hydrogen production from three reforming approaches of glycerol via using supercritical water with in situ CO ₂ separation. International Journal of Hydrogen Energy, 2019, 44, 2128-2140.	7.1	24

#	ARTICLE	IF	CITATIONS
37	A review on the electrolyte imbalance in vanadium redox flow batteries. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24485-24509.	7.1	80
38	Generation and selection of Pareto-optimal solution for the sorption enhanced steam biomass gasification system with solid oxide fuel cell. <i>Energy Conversion and Management</i> , 2019, 196, 1420-1432.	9.2	12
39	Discharge performance and dynamic behavior of refuellable zinc-air battery. <i>Scientific Data</i> , 2019, 6, 168.	5.3	31
40	Assessment of heat-to-power ratio in a bio-oil sorption enhanced steam reforming and solid oxide fuel cell system. <i>Energy Conversion and Management</i> , 2019, 184, 48-59.	9.2	11
41	Model-Based Analysis of an Integrated Zinc-Air Flow Battery/Zinc Electrolyzer System. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	46
42	Process simulation of bio-dimethyl ether synthesis from tri-reforming of biogas: CO2 utilization. <i>Energy</i> , 2019, 175, 36-45.	8.8	23
43	Design and Implementation of the Off-Line Robust Model Predictive Control for Solid Oxide Fuel Cells. <i>Processes</i> , 2019, 7, 918.	2.8	8
44	Comparative analysis of biomass and coal based co-gasification processes with and without CO2 capture for HT-PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2216-2229.	7.1	12
45	Multi-objective optimization of sorption enhanced steam biomass gasification with solid oxide fuel cell. <i>Energy Conversion and Management</i> , 2019, 182, 412-429.	9.2	42
46	Thermodynamic analysis of the novel chemical looping process for two-grade hydrogen production with CO2 capture. <i>Energy Conversion and Management</i> , 2019, 180, 325-337.	9.2	33
47	Technical and economic assessment of the pyrolysis and gasification integrated process for biomass conversion. <i>Energy</i> , 2018, 153, 592-603.	8.8	28
48	Performance and environmental study of a biogas-fuelled solid oxide fuel cell with different reforming approaches. <i>Energy</i> , 2018, 146, 131-140.	8.8	37
49	Flowsheet-based model and exergy analysis of solid oxide electrolysis cells for clean hydrogen production. <i>Journal of Cleaner Production</i> , 2018, 170, 1-13.	9.3	42
50	Analysis of a solid oxide fuel cell and a molten carbonate fuel cell integrated system with different configurations. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 932-942.	7.1	14
51	Electrochemical performance assessment of low-temperature solid oxide fuel cell with YSZ-based and SDC-based electrolytes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 921-931.	7.1	57
52	Discharge Performance of Zinc-Air Flow Batteries Under the Effects of Sodium Dodecyl Sulfate and Pluronic F-127. <i>Scientific Reports</i> , 2018, 8, 14909.	3.3	85
53	Yttrium (III) Recovery with D2EHPA in Pseudo-Emulsion Hollow Fiber Strip Dispersion System. <i>Scientific Reports</i> , 2018, 8, 7627.	3.3	22
54	Conceptual design and life cycle assessment of decentralized power generation by HT-PEMFC system with sorption enhanced water gas shift loop. <i>Energy Conversion and Management</i> , 2018, 171, 20-30.	9.2	21

#	ARTICLE	IF	CITATIONS
55	Biomass gasification integrated with CO ₂ capture processes for high-purity hydrogen production: Process performance and energy analysis. <i>Energy Conversion and Management</i> , 2018, 171, 1560-1572.	9.2	62
56	Copper conductive patterns through spray-pyrolysis of copper-diethanolamine complex solution. <i>PLoS ONE</i> , 2018, 13, e0200084.	2.5	2
57	Hydrogen and power generation from supercritical water reforming of glycerol and pressurized SOFC integrated system: Use of different CO ₂ adsorption process. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17821-17834.	7.1	13
58	Ethanol as an electrolyte additive for alkaline zinc-air flow batteries. <i>Scientific Reports</i> , 2018, 8, 11273.	3.3	73
59	Electronic and Ionic Conductivities Enhancement of Zinc Anode for Flexible Printed Zinc-Air Battery. <i>Engineering Journal</i> , 2018, 22, 47-57.	1.0	12
60	Suppression of zinc anode corrosion for printed flexible zinc-air battery. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600442.	1.5	49
61	Analysis of the Ca-looping sorption-enhanced steam reforming and solid oxide fuel cell integrated process using bio-oil. <i>Energy Conversion and Management</i> , 2017, 134, 156-166.	9.2	19
62	Optimal design of different reforming processes of the actual composition of bio-oil for high-temperature PEMFC systems. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1977-1988.	7.1	19
63	Control structure design and robust model predictive control for controlling a proton exchange membrane fuel cell. <i>Journal of Cleaner Production</i> , 2017, 148, 934-947.	9.3	52
64	Exergoeconomics of hydrogen production from biomass air-steam gasification with methane co-feeding. <i>Energy Conversion and Management</i> , 2017, 140, 228-239.	9.2	74
65	Cycle analysis of solid oxide fuel cell-gas turbine hybrid systems integrated ethanol steam reformer: Energy management. <i>Energy</i> , 2017, 127, 743-755.	8.8	39
66	Economic Evaluation of Biodiesel Production from Palm Fatty Acid Distillate Using a Reactive Distillation. <i>Energy Procedia</i> , 2017, 105, 237-243.	1.8	8
67	Efficient heat allocation in the two-step ethanol steam reforming and solid oxide fuel cell integrated process. <i>Energy</i> , 2017, 133, 545-556.	8.8	8
68	Design and optimization of dimethyl ether production from crude glycerol in a reactive distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 117, 80-88.	3.6	11
69	Design of an integrated biomass gasification and proton exchange membrane fuel cell system under self-sustainable conditions: Process modification and heat-exchanger network synthesis. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 448-458.	7.1	4
70	Design of SOFC based oxyfuel combustion systems with anode recycling and steam recycling options. <i>Energy Conversion and Management</i> , 2017, 151, 723-736.	9.2	26
71	Control structure design of a solid oxide fuel cell and a molten carbonate fuel cell integrated system: Top-down analysis. <i>Energy Conversion and Management</i> , 2017, 152, 88-98.	9.2	8
72	Techno-economic assessment of extractive distillation for tert-butyl alcohol recovery in fuel additive production. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 161-171.	3.6	8

#	ARTICLE	IF	CITATIONS
73	Separation of platinum(IV) across hollow fiber supported liquid membrane using non-toxic diluents: Mass transfer and thermodynamics. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 54, 278-289.	5.8	12
74	Exergy analysis of the biogas sorption-enhanced chemical looping reforming process integrated with a high-temperature proton exchange membrane fuel cell. <i>Energy Conversion and Management</i> , 2017, 149, 485-494.	9.2	27
75	Investigation of integrated biomass pyrolysis and gasification process for green fuel production. <i>Energy Procedia</i> , 2017, 142, 204-209.	1.8	6
76	Two-Dimensional Modeling of the Oxidative Coupling of Methane in a Fixed Bed Reactor: A Comparison among Different Catalysts. <i>Engineering Journal</i> , 2017, 21, 77-99.	1.0	2
77	Effects of salt on the LLE and tie-line data for furfuryl alcohol + n-butanol + water at T = 298.15 K. <i>Journal of Molecular Liquids</i> , 2016, 218, 50-58.	4.9	21
78	Investigating the performance of a solid oxide fuel cell and a molten carbonate fuel cell combined system. <i>Energy</i> , 2016, 107, 843-853.	8.8	10
79	Analysis of thermally coupling steam and tri-reforming processes for the production of hydrogen from bio-oil. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18370-18379.	7.1	22
80	Mass transfer resistance and response surface methodology for separation of platinum (IV) across hollow fiber supported liquid membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 42, 23-35.	5.8	22
81	Modeling and optimization of proton-conducting solid oxide electrolysis cell: Conversion of CO ₂ into value-added products. <i>Journal of Power Sources</i> , 2016, 331, 515-526.	7.8	14
82	Using glycerol for hydrogen production via sorption-enhanced chemical looping reforming: Thermodynamic analysis. <i>Energy Conversion and Management</i> , 2016, 124, 325-332.	9.2	35
83	Optimal design and performance analyses of the glycerol ether production process using a reactive distillation column. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 43, 93-105.	5.8	13
84	Enhanced performance of solid oxide electrolysis cells by integration with a partial oxidation reactor: Energy and exergy analyses. <i>Energy Conversion and Management</i> , 2016, 129, 189-199.	9.2	21
85	Techno-environmental analysis of the biomass gasification and Fischer-Tropsch integrated process for the co-production of bio-fuel and power. <i>Energy</i> , 2016, 112, 121-132.	8.8	18
86	Performance evaluation of sorption enhanced chemical-looping reforming for hydrogen production from biomass with modification of catalyst and sorbent regeneration. <i>Chemical Engineering Journal</i> , 2016, 303, 338-347.	12.7	50
87	Performance comparison of solid oxide steam electrolysis cells with/without the addition of methane. <i>Energy Conversion and Management</i> , 2016, 120, 274-286.	9.2	21
88	Performance and economic assessments of a solid oxide fuel cell system with a two-step ethanol-steam-reforming process using CaO sorbent. <i>Journal of Power Sources</i> , 2016, 306, 124-134.	7.8	12
89	Techno-economic analysis of the biomass gasification and Fischer-Tropsch integrated process with off-gas recirculation. <i>Energy</i> , 2016, 94, 483-496.	8.8	48
90	Analysis of synthesis gas production with a flexible H ₂ /CO ratio from rice straw gasification. <i>Fuel</i> , 2016, 164, 361-373.	6.4	49

#	ARTICLE	IF	CITATIONS
91	Effect of anode-cathode exhaust gas recirculation on energy recuperation in a solid oxide fuel cell-gas turbine hybrid power system. <i>Energy</i> , 2016, 94, 218-232.	8.8	48
92	Two-Dimensional Mathematical Modeling of the Oxidative Coupling of Methane in a Membrane Reactor. <i>Engineering Journal</i> , 2016, 20, 17-33.	1.0	4
93	Robust Model Predictive Control Strategy for LTV and LPV Systems of the Internal Reforming Solid Oxide Fuel Cell. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 1733-1738.	0.5	1
94	Control structure design and dynamic modeling for a solid oxide fuel cell with direct internal reforming of methane. <i>Chemical Engineering Research and Design</i> , 2015, 98, 202-211.	5.6	28
95	Analysis and measurement of the electrolyte imbalance in a vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015, 282, 534-543.	7.8	36
96	Parametric analysis of a circulating fluidized bed biomass gasifier for hydrogen production. <i>Energy</i> , 2015, 82, 406-413.	8.8	23
97	Energy and exergy analyses of an ethanol-fueled solid oxide fuel cell for a trigeneration system. <i>Energy</i> , 2015, 87, 228-239.	8.8	46
98	Performance Analysis and Optimization of the Biomass Gasification and Fischer-Tropsch Integrated Process for Green Fuel Productions. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 275-280.	0.5	7
99	A review of the development of high temperature proton exchange membrane fuel cells. <i>Chinese Journal of Catalysis</i> , 2015, 36, 473-483.	14.0	111
100	Thermodynamic analysis of solid oxide fuel cell system using different ethanol reforming processes. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6950-6958.	7.1	26
101	Effects of SOFC Exhaust Gas Recirculation on Performance of Solid Oxide Fuel Cell-Gas Turbine Hybrid System Utilizing Renewable Fuels. <i>ECS Transactions</i> , 2015, 68, 301-313.	0.5	2
102	Measuring the state of charge of the electrolyte solution in a vanadium redox flow battery using a four-pole cell device. <i>Journal of Power Sources</i> , 2015, 298, 150-157.	7.8	39
103	Investigating the air oxidation of V(II) ions in a vanadium redox flow battery. <i>Journal of Power Sources</i> , 2015, 295, 292-298.	7.8	24
104	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. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12144-12153.	7.1	23
105	Biomass-fuelled PEMFC systems: Evaluation of two conversion paths relevant for different raw materials. <i>Energy Conversion and Management</i> , 2015, 106, 1183-1191.	9.2	13
106	Evaluation of an integrated methane autothermal reforming and high-temperature proton exchange membrane fuel cell system. <i>Energy</i> , 2015, 80, 331-339.	8.8	24
107	Study on Mechanism and Kinetic of Air Oxidation of V(II) in Electrolyte Reservoir of a Vanadium Redox Flow Battery. <i>Energy Procedia</i> , 2014, 61, 1642-1645.	1.8	7
108	Thermodynamic Analysis of Hydrogen Production from the Adsorption-enhanced Steam Reforming of Biogas. <i>Energy Procedia</i> , 2014, 61, 2254-2257.	1.8	13

#	ARTICLE	IF	CITATIONS
109	Integration of Ethanol Processor and CO ₂ Absorption to Produce Hydrogen for Fuel Cell. Energy Procedia, 2014, 61, 2215-2218.	1.8	0
110	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
111	Effect of different fuel options on performance of high-temperature PEMFC (proton exchange) Tj ETQq1 1 0.784314 rgBT /Overlock 1	8.8	32
112	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
113	Catalytic reforming of glycerol in supercritical water with nickel-based catalysts. International Journal of Hydrogen Energy, 2014, 39, 14739-14750.	7.1	36
114	Energy and exergy analysis of an ethanol reforming process for solid oxide fuel cell applications. Bioresource Technology, 2014, 157, 231-239.	9.6	37
115	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
116	Effect of Water Transport on the Electrical Performance of PEM Fuel Cell. Energy Procedia, 2014, 61, 1553-1556.	1.8	6
117	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
118	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
119	Analysis of a pressurized solid oxide fuel cell-gas turbine hybrid power system with cathode gas recirculation. International Journal of Hydrogen Energy, 2013, 38, 4748-4759.	7.1	32
120	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
121	Performance analysis of an integrated biomass gasification and PEMFC (proton exchange membrane) Tj ETQq1 1 0.784314 rgBT /Overlock 1	8.8	32
122	Design methodology for bio-based processing: Biodiesel and fatty alcohol production. Computers and Chemical Engineering, 2013, 57, 48-62.	3.8	12
123	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
124	Reactive distillation for synthesis of glycerol carbonate via glycerolysis of urea. Chemical Engineering and Processing: Process Intensification, 2013, 70, 103-109.	3.6	26
125	Investigation of a proton-conducting SOFC with internal autothermal reforming of methane. Chemical Engineering Research and Design, 2013, 91, 1508-1516.	5.6	18
126	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

#	ARTICLE	IF	CITATIONS
127	Hydrogen Production from Sorption Enhanced Biogas Steam Reforming Using Nickel-Based Catalysts. Engineering Journal, 2013, 17, 19-34.	1.0	7
128	Theoretical analysis of a multi-stage membrane reactor for oxidative coupling of methane. Computer Aided Chemical Engineering, 2012, , 445-449.	0.5	0
129	Design methodology for bio-based processing. Computer Aided Chemical Engineering, 2012, , 855-859.	0.5	1
130	Heat-integrated reactive distillation for biodiesel production from Jatropha oil. Computer Aided Chemical Engineering, 2012, 31, 250-254.	0.5	6
131	ENERGY EFFICIENCY EVALUATION FOR A "GREEN" POWER GENERATION PROCESS WITH MINIMUM EFFORT ON CARBON DIOXIDE CAPTURE AND STORAGE. Chemical Engineering Communications, 2012, 199, 1642-1651.	2.6	3
132	Optimal Design of Biodiesel Production Process from Waste Cooking Palm Oil. Procedia Engineering, 2012, 42, 1292-1301.	1.2	19
133	Use of reactive distillation for triacetin production from crude glycerol. Computer Aided Chemical Engineering, 2012, 31, 165-169.	0.5	2
134	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
135	Investigation of a proton-conducting SOFC with internal autothermal reforming of methane. Computer Aided Chemical Engineering, 2012, , 307-311.	0.5	3
136	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
137	Thermodynamic analysis of hydrogen production from glycerol at energy self-sufficient conditions. Canadian Journal of Chemical Engineering, 2012, 90, 1112-1119.	1.7	4
138	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
139	Maximizing the efficiency of a HT-PEMFC system integrated with glycerol reformer. International Journal of Hydrogen Energy, 2012, 37, 6808-6817.	7.1	40
140	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
141	Neural network-based optimal control of a batch crystallizer. Neurocomputing, 2012, 83, 158-164.	5.9	15
142	Fuel Processing Technologies for Hydrogen Production from Methane. Engineering Journal, 2012, 16, 1-4.	1.0	4
143	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
144	Adsorption-membrane hybrid system for ethanol steam reforming: Thermodynamic analysis. International Journal of Hydrogen Energy, 2011, 36, 14428-14434.	7.1	9

#	ARTICLE	IF	CITATIONS
145	Reactive distillation for biodiesel production from soybean oil. Korean Journal of Chemical Engineering, 2011, 28, 649-655.	2.7	35
146	Hydrogen production from glycerol steam reforming for low- and high-temperature PEMFCs. International Journal of Hydrogen Energy, 2011, 36, 267-275.	7.1	42
147	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
148	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
149	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
150	Performance of Membrane-Assisted Solid Oxide Fuel Cell System Fuelled By Bioethanol. Engineering Journal, 2011, 15, 53-66.	1.0	2
151	Analysis of a proton-conducting SOFC with direct internal reforming. Chemical Engineering Science, 2010, 65, 581-589.	3.8	45
152	Analysis of planar solid oxide fuel cells based on proton-conducting electrolyte. Solid State Ionics, 2010, 181, 1568-1576.	2.7	40
153	Performance evaluation of combined solid oxide fuel cells with different electrolytes. International Journal of Hydrogen Energy, 2010, 35, 4301-4310.	7.1	31
154	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
155	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
156	Performance Assessment of SOFC Systems Integrated with Bio-Ethanol Production and Purification Processes. Engineering Journal, 2010, 14, 1-14.	1.0	2
157	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
158	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
159	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
160	Performance Analysis of a Smelting Reactor for Copper Production Process. Industrial & Engineering Chemistry Research, 2009, 48, 1120-1125.	3.7	10
161	Model predictive control of an industrial pyrolysis gasoline hydrogenation reactor. Journal of Industrial and Engineering Chemistry, 2008, 14, 175-181.	5.8	3
162	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

#	ARTICLE	IF	CITATIONS
163	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
164	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
165	Optimization and nonlinear control of a batch crystallization process. Journal of the Taiwan Institute of Chemical Engineers, 2008, 39, 249-256.	1.4	31
166	Electrochemical study of a planar solid oxide fuel cell: Role of support structures. Journal of Power Sources, 2008, 177, 254-261.	7.8	115
167	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
168	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
169	Batch-to-batch Optimization of Batch Crystallization Processes. Chinese Journal of Chemical Engineering, 2008, 16, 26-29.	3.5	12
170	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
171	Studies on optimal control approach in a fed-batch fermentation. Korean Journal of Chemical Engineering, 2007, 24, 11-15.	2.7	16
172	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
173	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
174	Simulation studies on reactive distillation for synthesis of tert-amyl ethyl ether. Korean Journal of Chemical Engineering, 2005, 22, 387-392.	2.7	12
175	Production of ethyl tert-butyl ether from tert-butyl alcohol and ethanol catalyzed by γ -zeolite in reactive distillation. Korean Journal of Chemical Engineering, 2004, 21, 1139-1146.	2.7	17
176	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
177	Optimal operation and control scheme design of pervaporative membrane reactor. Computer Aided Chemical Engineering, 2003, 15, 888-893.	0.5	0
178	Model-based control strategies for a chemical batch reactor with exothermic reactions. Korean Journal of Chemical Engineering, 2002, 19, 221-226.	2.7	20