

Hongsheng Wang

List of Publications by Year in descending order

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50
papers

1,155
citations

304368

22
h-index

414034

32
g-index

50
all docs

50
docs citations

50
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Carbon-Supported Nonprecious Metals as Energy-Related Electrocatalysts. <i>Small Methods</i> , 2020, 4, 2000621.	4.6	76
2	Thermodynamic analysis and optimization of photovoltaic/thermal hybrid hydrogen generation system based on complementary combination of photovoltaic cells and proton exchange membrane electrolyzer. <i>Energy Conversion and Management</i> , 2019, 183, 97-108.	4.4	71
3	Green electrospun grape seed extract-loaded silk fibroin nanofibrous mats with excellent cytocompatibility and antioxidant effect. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 156-163.	2.5	66
4	Thermodynamic analysis on mid/low temperature solar methane steam reforming with hydrogen permeation membrane reactors. <i>Applied Thermal Engineering</i> , 2019, 152, 925-936.	3.0	64
5	Full-spectrum solar energy utilization integrating spectral splitting, photovoltaics and methane reforming. <i>Energy Conversion and Management</i> , 2018, 173, 602-612.	4.4	58
6	Thermodynamic study on solar thermochemical fuel production with oxygen permeation membrane reactors. <i>International Journal of Energy Research</i> , 2015, 39, 1790-1799.	2.2	54
7	Feasibility of high efficient solar hydrogen generation system integrating photovoltaic cell/photon-enhanced thermionic emission and high-temperature electrolysis cell. <i>Energy Conversion and Management</i> , 2020, 210, 112699.	4.4	49
8	Kinetic and thermodynamic analyses of mid/low-temperature ammonia decomposition in solar-driven hydrogen permeation membrane reactor. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26874-26887.	3.8	43
9	A strategy for optimizing efficiencies of solar thermochemical fuel production based on nonstoichiometric oxides. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19585-19594.	3.8	38
10	Bioinspired sweating with temperature sensitive hydrogel to passively dissipate heat from high-end wearable electronics. <i>Energy Conversion and Management</i> , 2019, 180, 747-756.	4.4	38
11	A solar thermochemical fuel production system integrated with fossil fuel heat recuperation. <i>Applied Thermal Engineering</i> , 2016, 108, 958-966.	3.0	37
12	Mid/low-temperature solar hydrogen generation via dry reforming of methane enhanced in a membrane reactor. <i>Energy Conversion and Management</i> , 2021, 240, 114254.	4.4	31
13	Galactosylated chitosan-modified ethosomes combined with silk fibroin nanofibers is useful in transcutaneous immunization. <i>Journal of Controlled Release</i> , 2020, 327, 88-99.	4.8	28
14	Efficient and low-carbon heat and power cogeneration with photovoltaics and thermochemical storage. <i>Applied Energy</i> , 2017, 206, 1523-1531.	5.1	27
15	Macroporous nanofibrous vascular scaffold with improved biodegradability and smooth muscle cells infiltration prepared by dual phase separation technique. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7003-7018.	3.3	27
16	Techno-economic analysis and optimization of a novel hybrid solar-wind-bioethanol hydrogen production system via membrane reactor. <i>Energy Conversion and Management</i> , 2022, 252, 115088.	4.4	27
17	Sequential separation-driven solar methane reforming for H ₂ derivation under mild conditions. <i>Energy and Environmental Science</i> , 2022, 15, 1861-1871.	15.6	27
18	Synthesis of resol-layered silicate nanocomposites by reaction exfoliation with acid-modified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2004, 92, 791-797.	1.3	26

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19	Polyethylenimine and sodium cholate-modified ethosomes complex as multidrug carriers for the treatment of melanoma through transdermal delivery. <i>Nanomedicine</i> , 2019, 14, 2395-2408.	1.7	26
20	Versatile Nanocarrier Based on Functionalized Mesoporous Silica Nanoparticles to Co-deliver Osteogenic Gene and Drug for Enhanced Osteodifferentiation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 710-723.	2.6	25
21	Transcutaneous tumor vaccination combined with anti-programmed death-1 monoclonal antibody treatment produces a synergistic antitumor effect. <i>Acta Biomaterialia</i> , 2022, 140, 247-260.	4.1	25
22	Incorporation of magnesium oxide nanoparticles into electrospun membranes improves pro-angiogenic activity and promotes diabetic wound healing. <i>Materials Science and Engineering C</i> , 2022, 133, 112609.	3.8	25
23	Harnessing electrospun nanofibers to recapitulate hierarchical fibrous structures of meniscus. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 201-213.	1.6	23
24	Using photovoltaic thermal technology to enhance biomethane generation via biogas upgrading in anaerobic digestion. <i>Energy Conversion and Management</i> , 2021, 235, 113965.	4.4	23
25	Innovative non-oxidative methane dehydroaromatization via solar membrane reactor. <i>Energy</i> , 2021, 216, 119265.	4.5	21
26	A PVTC system integrating photon-enhanced thermionic emission and methane reforming for efficient solar power generation. <i>Science Bulletin</i> , 2017, 62, 1380-1387.	4.3	20
27	Polyvinyl Alcohol/Hydroxyethylcellulose Containing Ethosomes as a Scaffold for Transdermal Drug Delivery Applications. <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 1624-1637.	1.4	18
28	Thermodynamic Study of Solar Thermochemical Methane Steam Reforming with Alternating H ₂ and CO ₂ Permeation Membranes Reactors. <i>Energy Procedia</i> , 2017, 105, 1980-1985.	1.8	17
29	Thermodynamic performance of solar-driven methanol steam reforming system for carbon capture and high-purity hydrogen production. <i>Applied Thermal Engineering</i> , 2022, 209, 118280.	3.0	15
30	Diethyldithiocarbamate/silk fibroin/polyethylene oxide nanofibrous for cancer therapy: Fabrication, characterization and in vitro evaluation. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 293-299.	3.6	13
31	Thermodynamic Analysis of Methylcyclohexane Dehydrogenation and Solar Energy Storage via Solar-Driven Hydrogen Permeation Membrane Reactor. <i>Membranes</i> , 2020, 10, 374.	1.4	11
32	A mid/low-temperature solar-driven integrated membrane reactor for the dehydrogenation of propane – A thermodynamic assessment. <i>Applied Thermal Engineering</i> , 2021, 193, 116952.	3.0	11
33	Cyclohexane Dehydrogenation in Solar-Driven Hydrogen Permeation Membrane Reactor for Efficient Solar Energy Conversion and Storage. <i>Journal of Thermal Science</i> , 2021, 30, 1548-1558.	0.9	10
34	System integration of multi-grade exploitation of biogas chemical energy driven by solar energy. <i>Energy</i> , 2022, 241, 122857.	4.5	10
35	Synthesis of size-controlled boehmite sols: application in high-performance hydrogen-selective ceramic membranes. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12869-12881.	5.2	10
36	Cascade and hybrid processes for co-generating solar-based fuels and electricity via combining spectral splitting technology and membrane reactor. <i>Renewable Energy</i> , 2022, 196, 782-799.	4.3	10

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37	Perspective of CIGS-BIPV's Product Competitiveness in China. International Journal of Photoenergy, 2020, 2020, 1-10.	1.4	9
38	Green Electrospun Silk Fibroin Nanofibers Loaded with Cationic Ethosomes for Transdermal Drug Delivery. Chemical Research in Chinese Universities, 2021, 37, 488-495.	1.3	7
39	Techno-economic analysis of a solar thermochemical cycle-based direct coal liquefaction system for low-carbon oil production. Energy, 2022, 239, 122167.	4.5	7
40	Environmental and economic multi-objective optimization of comprehensive energy industry: A case study. Energy, 2021, 237, 121534.	4.5	7
41	Cirsium Japonicum DC ingredients-loaded silk fibroin nanofibrous matrices with excellent hemostatic activity. Biomedical Physics and Engineering Express, 2018, 4, 025035.	0.6	5
42	Nanofiber Configuration of Electrospun Scaffolds Dictating Cell Behaviors and Cell-scaffold Interactions. Chemical Research in Chinese Universities, 2021, 37, 456-463.	1.3	4
43	Feasibility of solar thermochemical natural gas desulphurization and hydrogen generation with a membrane reactor. Journal of Cleaner Production, 2021, 312, 127835.	4.6	4
44	Theoretical Thermodynamic Efficiency Limit of Isothermal Solar Fuel Generation from H ₂ O/CO ₂ Splitting in Membrane Reactors. Molecules, 2021, 26, 7047.	1.7	4
45	Solar Thermochemical Fuel Generation. , 0, , .		2
46	Open loop heat pipes for high-efficiency desalination plant. Applied Thermal Engineering, 2021, 193, 117027.	3.0	2
47	Thermodynamic Assessment of a Solar-Driven Integrated Membrane Reactor for Ethanol Steam Reforming. Molecules, 2021, 26, 6921.	1.7	2
48	Simulation of transverse field sweeping system and thermal analysis of an undepressed collector for a gyrotron. Journal of Electromagnetic Waves and Applications, 2017, 31, 1376-1385.	1.0	1
49	Analysis of Non-Fourier Heat Conduction Problem with Suddenly Applied Surface Heat Flux. Journal of Thermophysics and Heat Transfer, 2020, 34, 287-295.	0.9	1
50	Design and energy analysis of solid oxide fuel cell and gas turbine hybrid systems with membrane reactor. International Journal of Green Energy, 0, , 1-13.	2.1	0