

Hongsheng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,155
citations

304743

22
h-index

414414

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. | 8.6 | 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. | 9.2 | 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. | 5.0 | 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. | 6.0 | 64 |
| 5 | Full-spectrum solar energy utilization integrating spectral splitting, photovoltaics and methane reforming. <i>Energy Conversion and Management</i> , 2018, 173, 602-612. | 9.2 | 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. | 4.5 | 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. | 9.2 | 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. | 7.1 | 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. | 7.1 | 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. | 9.2 | 38 |
| 11 | A solar thermochemical fuel production system integrated with fossil fuel heat recuperation. <i>Applied Thermal Engineering</i> , 2016, 108, 958-966. | 6.0 | 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. | 9.2 | 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. | 9.9 | 28 |
| 14 | Efficient and low-carbon heat and power cogeneration with photovoltaics and thermochemical storage. <i>Applied Energy</i> , 2017, 206, 1523-1531. | 10.1 | 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. | 6.7 | 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. | 9.2 | 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. | 30.8 | 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. | 2.6 | 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. | 3.3 | 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. | 5.2 | 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. | 8.3 | 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. | 7.3 | 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. | 3.4 | 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. | 9.2 | 23 |
| 25 | Innovative non-oxidative methane dehydroaromatization via solar membrane reactor. <i>Energy</i> , 2021, 216, 119265. | 8.8 | 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. | 9.0 | 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. | 2.9 | 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. | 6.0 | 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. | 7.5 | 13 |
| 31 | Thermodynamic Analysis of Methylcyclohexane Dehydrogenation and Solar Energy Storage via Solar-Driven Hydrogen Permeation Membrane Reactor. <i>Membranes</i> , 2020, 10, 374. | 3.0 | 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. | 6.0 | 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. | 1.9 | 10 |
| 34 | System integration of multi-grade exploitation of biogas chemical energy driven by solar energy. <i>Energy</i> , 2022, 241, 122857. | 8.8 | 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. | 10.3 | 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. | 8.9 | 10 |

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|----|---|-----|-----------|
| 37 | Perspective of CIGS-BIPV's Product Competitiveness in China. International Journal of Photoenergy, 2020, 2020, 1-10. | 2.5 | 9 |
| 38 | Green Electrospun Silk Fibroin Nanofibers Loaded with Cationic Ethosomes for Transdermal Drug Delivery. Chemical Research in Chinese Universities, 2021, 37, 488-495. | 2.6 | 7 |
| 39 | Techno-economic analysis of a solar thermochemical cycle-based direct coal liquefaction system for low-carbon oil production. Energy, 2022, 239, 122167. | 8.8 | 7 |
| 40 | Environmental and economic multi-objective optimization of comprehensive energy industry: A case study. Energy, 2021, 237, 121534. | 8.8 | 7 |
| 41 | Cirsium Japonicum DC ingredients-loaded silk fibroin nanofibrous matrices with excellent hemostatic activity. Biomedical Physics and Engineering Express, 2018, 4, 025035. | 1.2 | 5 |
| 42 | Nanofiber Configuration of Electrospun Scaffolds Dictating Cell Behaviors and Cell-scaffold Interactions. Chemical Research in Chinese Universities, 2021, 37, 456-463. | 2.6 | 4 |
| 43 | Feasibility of solar thermochemical natural gas desulphurization and hydrogen generation with a membrane reactor. Journal of Cleaner Production, 2021, 312, 127835. | 9.3 | 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. | 3.8 | 4 |
| 45 | Solar Thermochemical Fuel Generation. , 0, , . | | 2 |
| 46 | Open loop heat pipes for high-efficiency desalination plant. Applied Thermal Engineering, 2021, 193, 117027. | 6.0 | 2 |
| 47 | Thermodynamic Assessment of a Solar-Driven Integrated Membrane Reactor for Ethanol Steam Reforming. Molecules, 2021, 26, 6921. | 3.8 | 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. | 1.6 | 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. | 1.6 | 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. | 3.8 | 0 |