Tan Jianyu

List of Publications by Year
in descending order

40 papers	2,143 citations	377584 21 h-index	340414 39 g-index
40 all docs	40 docs citations	40 times ranked	1587 citing authors

#	Article	IF	Citations
1	Pore-Scale Prediction of the oxygen effective diffusivity in porous battery electrodes using the random walk theory. International Journal of Heat and Mass Transfer, 2022, 183, 122085.	2.5	8
2	Effects of Porous Structure on Oxygen Mass Transfer in Air Cathodes of Nonaqueous Metalâ€“Air Batteries: A Mini-review. ACS Applied Energy Materials, 2022, 5, 5473-5483.	2.5	10
3	Numerical investigation on boiling mechanism under periodic wave pulse heating by lattice Boltzmann. Case Studies in Thermal Engineering, 2022, 35, 102102.	2.8	2
4	A Modeling Study of Discharging Li-O2 Batteries With Various Electrolyte Concentrations. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	3
5	Multi-spectral bidirectional reflectance characteristics of crude oils. Infrared Physics and Technology, 2020, 109, 103420.	1.3	5
6	Investigating the infrared spectral radiative properties of self-ordered anodic aluminum oxide for passive radiative heat dissipation. Infrared Physics and Technology, 2020, 109, 103438.	1.3	7
7	Spectral Radiative Properties of a Liquid n-Octane Droplet in the Midinfrared Region. Journal of Spectroscopy, 2020, 2020, 1-9.	0.6	1
8	The complex refractive index of crude oils determined by the combined Brewsterâ€“transmission method. Infrared Physics and Technology, 2020, 111, 103515.	1.3	5
9	Review and Recent Advances in Mass Transfer in Positive Electrodes of Aprotic Liâ€“O₂ Batteries. ACS Applied Energy Materials, 2020, 3, 2258-2270.	2.5	26
10	BRDF characteristics of different textured fabrics in visible and near-infrared band. Optics Express, 2020, 28, 3561.	1.7	10
11	Investigation on Optical Properties and Solar Energy Conversion Efficiency of Spectral Splitting PV/T system. Energy Procedia, 2019, 158, 15-20.	1.8	14
12	Experimental investigation on spectral splitting of photovoltaic/thermal hybrid system with two-axis sun tracking based on SiO2/TiO2 interference thin film. Energy Conversion and Management, 2019, 188, 230-240.	4.4	59
13	Optical properties and transmittances of ZnO-containing nanofluids in spectral splitting photovoltaic/thermal systems. International Journal of Heat and Mass Transfer, 2019, 128, 668-678.	2.5	84
14	Combination of thermodynamic analysis and regression analysis for steam and dry methane reforming. International Journal of Hydrogen Energy, 2019, 44, 15795-15810.	3.8	16
15	Radiative, conductive and laminar convective coupled heat transfer analysis of molten salts based on finite element method. Applied Thermal Engineering, 2018, 131, 19-29.	3.0	23
16	Photon-absorption-based explanation of ultrasonic-assisted solar photochemical splitting of water to improve hydrogen production. International Journal of Hydrogen Energy, 2018, 43, 14439-14450.	3.8	18
17	Heat transfer enhancement analysis of tube receiver for parabolic trough solar collector with pin fin arrays inserting. Solar Energy, 2017, 144, 185-202.	2.9	180
18	Radiative heat transfer in solar thermochemical particle reactor: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 73, 935-949.	8.2	56

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19	Analyzing the effects of reaction temperature on photo-thermo chemical synergetic catalytic water splitting under full-spectrum solar irradiation: An experimental and thermodynamic investigation. International Journal of Hydrogen Energy, 2017, 42, 12133-12142.	3.8	36
20	Optical constant measurements of solar thermochemical reaction catalysts and optical window. Optik, 2017, 131, 323-334.	1.4	6
21	Progress in concentrated solar power technology with parabolic trough collector system: A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 79, 1314-1328.	8.2	395
22	Investigation of optical properties and radiative transfer of sea water-based nanofluids for photocatalysis with different salt concentrations. International Journal of Hydrogen Energy, 2017, 42, 26626-26638.	3.8	16
23	Investigation of optical properties and radiative transfer of TiO2 nanofluids with the consideration of scattering effects. International Journal of Heat and Mass Transfer, 2017, 115, 1103-1112.	2.5	43
24	Energy storage efficiency analyses of CO2 reforming of methane in metal foam solar thermochemical reactor. Applied Thermal Engineering, 2017, 111, 1091-1100.	3.0	54
25	The influence of bubble populations generated under windy conditionsÂon the blueâ€“green light transmission in the upper ocean: An exploratory approach. Modern Physics Letters B, 2016, 30, 1650420.	1.0	5
26	Transient thermal performance response characteristics of porous-medium receiver heated by multi-dish concentrator. International Communications in Heat and Mass Transfer, 2016, 75, 36-41.	2.9	28
27	Heat transfer performance enhancement and thermal strain restrain of tube receiver for parabolic trough solar collector by using asymmetric outward convex corrugated tube. Energy, 2016, 114, 275-292.	4.5	166
28	Parabolic trough receiver with corrugated tube for improving heat transfer and thermal deformation characteristics. Applied Energy, 2016, 164, 411-424.	5.1	175
29	Unsteady state thermochemical performance analyses of solar driven steam methane reforming in porous medium reactor. Solar Energy, 2015, 122, 1180-1192.	2.9	18
30	Optical Properties of Sodium Chloride Solution within the Spectral Range from 300 to 2500 nm at Room Temperature. Applied Spectroscopy, 2015, 69, 635-640.	1.2	72
31	Effects of key factors on solar aided methane steam reforming in porous medium thermochemical reactor. Energy Conversion and Management, 2015, 103, 419-430.	4.4	41
32	Monte Carlo simulation of spectral reflectance and BRDF of the bubble layer in the upper ocean. Optics Express, 2015, 23, 24274.	1.7	48
33	Thermochemical performance analysis of solar driven CO2 methane reforming. Energy, 2015, 91, 645-654.	4.5	70
34	Effects of glass cover on heat flux distribution for tube receiver with parabolic trough collector system. Energy Conversion and Management, 2015, 90, 47-52.	4.4	102
35	Thermal performance analysis of porous medium solar receiver with quartz window to minimize heat flux gradient. Solar Energy, 2014, 108, 348-359.	2.9	55
36	Thermal performance analyses of porous media solar receiver with different irradiative transfer models. International Journal of Heat and Mass Transfer, 2014, 78, 7-16.	2.5	85

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37	Numerical analysis of hydrogen production via methane steam reforming in porous media solar thermochemical reactor using concentrated solar irradiation as heat source. Energy Conversion and Management, 2014, 87, 956-964.	4.4	79
38	Heat transfer analysis of porous media receiver with different transport and thermophysical models using mixture as feeding gas. Energy Conversion and Management, 2014, 83, 159-166.	4.4	98
39	Recent progress in computational thermal radiative transfer. Science Bulletin, 2009, 54, 4135-4147.	1.7	23
40	Development of a finite element radiation model applied to two-dimensional participating media. Heat Transfer - Asian Research, 2005, 34, 386-395.	2.8	1