

Yong Shuai

List of Publications by Year in descending order

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206
papers

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87401

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#	ARTICLE	IF	CITATIONS
1	Numerical study on the thermal performance analysis of packed-bed latent heat thermal storage system with biomimetic vein hierarchical structure. <i>International Journal of Green Energy</i> , 2022, 19, 592-602.	2.1	8
2	Experimental and numerical study on flow characteristic and thermal performance of macro-capsules phase change material with biomimetic oval structure. <i>Energy</i> , 2022, 238, 121830.	4.5	49
3	New integration mechanism of solar energy into 300MW coal-fired power plant: Performance and techno-economic analysis. <i>Energy</i> , 2022, 238, 122005.	4.5	22
4	Study of thermophysical properties of chloride salts doped with CuO nanoparticles for solar thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2022, 234, 111432.	3.0	27
5	Effects of foam structure on thermochemical characteristics of porous-filled solar reactor. <i>Energy</i> , 2022, 239, 122219.	4.5	26
6	Effect of steady-state and unstable-state inlet boundary on the thermal performance of packed-bed latent heat storage system integrated with concentrating solar collectors. <i>Renewable Energy</i> , 2022, 183, 251-266.	4.3	20
7	Experimental study on thermal performance of a novel medium-high temperature packed-bed latent heat storage system containing binary nitrate. <i>Applied Energy</i> , 2022, 309, 118433.	5.1	31
8	Multi-objective optimal design of NACA airfoil fin PCHE recuperator for micro-gas turbine systems. <i>Applied Thermal Engineering</i> , 2022, 204, 117864.	3.0	32
9	Radiative property investigation of dispersed particulate medium with the consideration of non-uniform particle size distribution and dependent scattering effects. <i>International Journal of Heat and Mass Transfer</i> , 2022, 186, 122488.	2.5	4
10	High efficiency solar steam generator comprising sodium alginate-polydopamine hydrogel for photothermal water sanitation. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101998.	1.7	4
11	Growth of wafer-scale graphene-hexagonal boron nitride vertical heterostructures with clear interfaces for obtaining atomically thin electrical analogs. <i>Nanoscale</i> , 2022, 14, 4204-4215.	2.8	6
12	Performance Analysis of the 50 MW Concentrating Solar Power Plant under Various Operation Conditions. <i>Energies</i> , 2022, 15, 1367.	1.6	2
13	Ultrathin and super-tough membrane for anti-dendrite separator in aqueous zinc-ion batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100824.	2.8	59
14	Progress in radiative transfer in porous medium: A review from macro scale to pore scale with experimental test. <i>Applied Thermal Engineering</i> , 2022, 210, 118331.	3.0	14
15	Enhanced photoelectric responsivity of bilayer graphene/GaAs photodetector using plasmon resonance grating structures. <i>Optik</i> , 2022, 259, 169031.	1.4	6
16	A review on numerical simulation, optimization design and applications of packed-bed latent thermal energy storage system with spherical capsules. <i>Journal of Energy Storage</i> , 2022, 51, 104555.	3.9	40
17	Preparation and performance improvement of chlorides/MgO ceramics shape-stabilized phase change materials with expanded graphite for thermal energy storage system. <i>Applied Energy</i> , 2022, 316, 119116.	5.1	23
18	Highly-selective CO ₂ conversion through single oxide CuO enhanced NiFe ₂ O ₄ thermal catalytic activity. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00441.	1.7	4

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19	Design and optimization of mid-infrared hot electron detector based on Al/GaAs fishnet nanostructure for CO ₂ sensing. Applied Optics, 2022, 61, 4270.	0.9	1
20	Effects of flame temperature and radiation properties on infrared light field imaging. Case Studies in Thermal Engineering, 2022, 36, 102215.	2.8	2
21	Meshed axisymmetric flame simulation and temperature reconstruction using light field camera. Optics and Lasers in Engineering, 2022, 158, 107159.	2.0	6
22	Selective CO ₂ Electromethanation on Surface-Modified Cu Catalyst by Local Microenvironment Modulation. ACS Catalysis, 2022, 12, 8252-8258.	5.5	27
23	Density functional theory and ab initio molecular dynamics calculations on the optoelectronic, spintronic, and energies of pure and TiO_x doped monatomic I^3C graphyne. International Journal of Energy Research, 2022, 46, 17654-17667.	2.2	1
24	Optimization of operating parameters for methane steam reforming thermochemical process using Response Surface Methodology. International Journal of Hydrogen Energy, 2022, 47, 28313-28321.	3.8	12
25	Heat transfer analysis of solar-driven high-temperature thermochemical reactor using NiFe-Aluminate RPCs. International Journal of Hydrogen Energy, 2021, 46, 10104-10118.	3.8	19
26	Optical properties and cooling performance analyses of single-layer radiative cooling coating with mixture of TiO ₂ particles and SiO ₂ particles. Science China Technological Sciences, 2021, 64, 1017-1029.	2.0	39
27	Comparative Performance Assessment of 300-MW Solar-Coal Hybrid Power Generation System Under Different Integration Mechanisms. Energy Technology, 2021, 9, .	1.8	4
28	Performance analysis of 200-MW solar coal hybrid power generation system for transitioning to a low carbon energy future. Applied Thermal Engineering, 2021, 183, 116140.	3.0	19
29	Fault Ride-Through Behaviors Correction-Based Single-Unit Equivalent Method for Large Photovoltaic Power Plants. IEEE Transactions on Sustainable Energy, 2021, 12, 715-726.	5.9	6
30	Influences of atmospheric water vapor on spectral effective emissivity of a single-layer radiative cooling coating. AIMS Energy, 2021, 9, 96-116.	1.1	13
31	Recent progresses in the mechanism, performance, and fabrication methods of metal-derived nanomaterials for efficient electrochemical CO ₂ reduction. Journal of Materials Chemistry A, 2021, 9, 4558-4588.	5.2	8
32	Tailoring spintronic and opto-electronic characteristics of bilayer AlN through MnOx clusters intercalation; an ab initio study. RSC Advances, 2021, 11, 15167-15176.	1.7	0
33	Thermochemical analysis of dry methane reforming hydrogen production in biomimetic venous hierarchical porous structure solar reactor for improving energy storage. International Journal of Hydrogen Energy, 2021, 46, 7733-7744.	3.8	41
34	Thermal performance analysis of free-falling solar particle receiver and heat transfer modelling of multiple particles. Applied Thermal Engineering, 2021, 187, 116567.	3.0	26
35	Enhanced heat transfer performance for multi-tube heat exchangers with various tube arrangements. International Journal of Heat and Mass Transfer, 2021, 168, 120905.	2.5	28
36	Solar-driven thermochemical redox cycles of ZrO ₂ supported NiFe ₂ O ₄ for CO ₂ reduction into chemical energy. Energy, 2021, 223, 120073.	4.5	24

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37	Progress in full spectrum solar energy utilization by spectral beam splitting hybrid PV/T system. Renewable and Sustainable Energy Reviews, 2021, 141, 110785.	8.2	115
38	Mechanism and prediction of multi-mode magnetic polaritons by MCLC circuit model in complex micro/nanostructures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 269, 107700.	1.1	4
39	An Analytical Two-Machine Equivalent Method of DFIG-Based Wind Power Plants Considering Complete FRT Processes. IEEE Transactions on Power Systems, 2021, 36, 3657-3667.	4.6	13
40	Thermal performance analysis of packed-bed thermal energy storage with radial gradient arrangement for phase change materials. Renewable Energy, 2021, 173, 768-780.	4.3	25
41	Thermal Performance Analysis of PCM Capsules Packed-Bed System with Biomimetic Leaf Hierarchical Porous Structure. Journal of Thermal Science, 2021, 30, 1559-1571.	0.9	21
42	Efficient radiative cooling coating with biomimetic human skin wrinkle structure. Nano Energy, 2021, 89, 106377.	8.2	170
43	Progress and perspective of electrochemical CO ₂ reduction on Pd-based nanomaterials. Chemical Engineering Science, 2021, 245, 116869.	1.9	19
44	Study on similarity criteria for aerodynamic/thermal coupling analysis of the aircraft. International Communications in Heat and Mass Transfer, 2021, 129, 105705.	2.9	4
45	Ultralow Power Optical Synapses Based on MoS ₂ Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes. Advanced Materials, 2021, 33, e2104960.	11.1	53
46	Ultralow Power Optical Synapses Based on MoS ₂ Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes (Adv. Mater. 52/2021). Advanced Materials, 2021, 33, .	11.1	4
47	Experimental investigation of cost-effective ZnO nanofluid based spectral splitting CPV/T system. Energy, 2020, 194, 116913.	4.5	109
48	Experimental investigation of thermal performance enhancement of cavity receiver with bottom surface interior convex. Applied Thermal Engineering, 2020, 168, 114847.	3.0	13
49	Effects of ordered hierarchically porous structure on methane reforming performance in solar foam reactor. Journal of CO ₂ Utilization, 2020, 37, 147-157.	3.3	30
50	Tailoring radiative properties with magnetic polaritons in deep gratings and slit arrays based on structural transformation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106788.	1.1	11
51	Reducing toxicity and enhancing broadband solar energy harvesting of ultra-thin perovskite solar cell via SiO ₂ nanophotonic structure. Optik, 2020, 223, 165624.	1.4	14
52	Analysis of high-flux solar irradiation distribution characteristic for solar thermochemical energy storage application. Applied Thermal Engineering, 2020, 181, 115900.	3.0	6
53	Thermal-chemical reaction characteristics of Ni/Al ₂ O ₃ catalytic porous material filled solar reactor for dry reforming of methane process. Applied Thermal Engineering, 2020, 180, 115901.	3.0	19
54	Theoretical insights into the factors affecting the electrochemical reduction of CO ₂ . Sustainable Energy and Fuels, 2020, 4, 4352-4369.	2.5	14

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55	Thermal driven wavelength-selective optical switch based on magnetic polaritons coupling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 255, 107230.	1.1	18
56	Thermal characteristics and thermal stress analysis of solar thermochemical reactor under high-flux concentrated solar irradiation. <i>Science China Technological Sciences</i> , 2020, 63, 1776-1786.	2.0	8
57	Analysis of heat flow diagram of small-scale power generation system: Innovative approaches for improving techno-economic and ecological indices. <i>Science China Technological Sciences</i> , 2020, 63, 2256-2274.	2.0	8
58	Effects of image positions on temperature reconstruction using light field camera. <i>Results in Physics</i> , 2020, 17, 103146.	2.0	2
59	Verification of deterministic solar forecasts. <i>Solar Energy</i> , 2020, 210, 20-37.	2.9	142
60	Performance study on optical splitting film-based spectral splitting concentrated photovoltaic/thermal applications under concentrated solar irradiation. <i>Solar Energy</i> , 2020, 206, 84-91.	2.9	33
61	DFT study on tailoring the structural, electronic and optical properties of bilayer graphene through metalloids intercalation. <i>Chemical Physics</i> , 2020, 536, 110828.	0.9	4
62	Analysis of infrared spectra with narrow band absorption by a graphene/square-ring structure. <i>Science China Technological Sciences</i> , 2020, 63, 648-654.	2.0	4
63	Performance analysis and techno-economic evaluation of 300MW solar-assisted power generation system in the whole operation conditions. <i>Applied Energy</i> , 2020, 264, 114744.	5.1	34
64	Analysis of infrared spectroscopy absorption characteristics of graphene transferred to grating structures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107185.	1.1	4
65	A comprehensive review on dynamic equivalent modeling of large photovoltaic power plants. <i>Solar Energy</i> , 2020, 210, 87-100.	2.9	9
66	Ab-initio investigations on the energetic, opto-electronic and magnetic characteristics of alkali metal (AM) atom substituted monatomic AlN layer. <i>Chemical Physics</i> , 2020, 536, 110829.	0.9	1
67	Thermal properties characterization of chloride salts/nanoparticles composite phase change material for high-temperature thermal energy storage. <i>Applied Energy</i> , 2020, 264, 114674.	5.1	88
68	Thermochemical CO ₂ reduction over NiFe ₂ O ₄ @alumina filled reactor heated by high-flux solar simulator. <i>Energy</i> , 2020, 197, 117267.	4.5	36
69	Current technology development for CO ₂ utilization into solar fuels and chemicals: A review. <i>Journal of Energy Chemistry</i> , 2020, 49, 96-123.	7.1	208
70	Numerical and experimental analysis of reactor optimum design and solar thermal-chemical energy conversion for multidisciplinary applications. <i>Energy Conversion and Management</i> , 2020, 213, 112870.	4.4	26
71	Process analysis of solar steam reforming of methane for producing low-carbon hydrogen. <i>RSC Advances</i> , 2020, 10, 12582-12597.	1.7	41
72	Effects of multilayer porous ceramics on thermochemical energy conversion and storage efficiency in solar dry reforming of methane reactor. <i>Applied Energy</i> , 2020, 265, 114799.	5.1	37

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73	Predicting Multi-Order Magnetic Polaritons Resonance in SiC Slit Arrays by Mutual Inductorâ€“Inductorâ€“Capacitor Circuit Model. Journal of Heat Transfer, 2020, 142, .	1.2	5
74	Absorption characteristics of a metal-insulator-metal nanodisk for solar thermal applications. Optics Express, 2020, 28, 15731.	1.7	34
75	Full-Spectrum Solar Energy Utilization and Enhanced Solar Energy Harvesting via Photon Anti-Reflection and Scattering Performance Using Nanophotonic Structure. ES Energy & Environments, 2020, , .	0.5	9
76	Analysis of Twoâ€“Step Solar Thermochemical Looping Reforming of Fe₃O₄ Redox Cycles for Synthesis Gas Production. Energy Technology, 2019, 7, 1800588.	1.8	10
77	Noncontact Near-Field Photon Transfer Control Using Metamaterial. Journal of Thermophysics and Heat Transfer, 2019, 33, 163-169.	0.9	0
78	Numerical Investigation of Carbon Deposition Behavior in Ni/Al₂O₃-Based Catalyst Porous-Filled Solar Thermochemical Reactor for the Dry Reforming of Methane Process. Industrial & Engineering Chemistry Research, 2019, 58, 15701-15711.	1.8	16
79	Joint method for reconstructing three-dimensional temperature of flame using Lucy-Richardson and nearest neighbor filtering using light-field imaging. Science China Technological Sciences, 2019, 62, 1232-1243.	2.0	12
80	Coreâ€“shell structures with noble-metal nanoparticles for surface-enhanced Raman spectroscopy. Journal of Optics (India), 2019, 48, 549-556.	0.8	2
81	Experimental verification of three-dimensional temperature field reconstruction method based on Lucy-Richardson and nearest neighbor filtering joint deconvolution algorithm for flame light field imaging. Applied Thermal Engineering, 2019, 162, 114235.	3.0	21
82	Special issue on the Third International Workshop on Nano-micro Thermal Radiation (NanoRadâ€™17). Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 237, 106592.	1.1	1
83	Ab-initio investigations on titanium (Ti) atom-doped divacancy monolayer h-BN system for hydrogen storage systems. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 109, 169-178.	1.3	29
84	Investigations on experimental performance and system behavior of 10â€“kW organic Rankine cycle using scroll-type expander for low-grade heat source. Energy, 2019, 177, 94-105.	4.5	21
85	Effect of nonuniform radiation properties on flame temperature reconstruction based on light field imaging. International Communications in Heat and Mass Transfer, 2019, 104, 136-146.	2.9	12
86	Tailoring electronic and optical parameters of bilayer graphene through boron and nitrogen atom co-substitution; an ab-initio study. Applied Surface Science, 2019, 480, 463-471.	3.1	30
87	Exergy analysis of hydrogen production from steam gasification of biomass: A review. International Journal of Hydrogen Energy, 2019, 44, 14290-14302.	3.8	109
88	Hydrogen production through biomass gasification in supercritical water: A review from exergy aspect. International Journal of Hydrogen Energy, 2019, 44, 15727-15736.	3.8	91
89	Theoretical investigations on transition metal trioxide (TMO3) cluster incorporated monolayer aluminum nitride (AlN) using DFT technique. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 110, 24-31.	1.3	4
90	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

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91	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
92	Heat Transfer Modeling of a High-Temperature Porous-Medium Filled Solar Thermochemical Reactor for Hydrogen and Synthesis Gas Production. Journal of Heat Transfer, 2019, 141, .	1.2	6
93	Radiative transfer analysis of semitransparent medium with particles having non-uniform size distribution by differential-integration method. International Journal of Heat and Mass Transfer, 2019, 130, 342-355.	2.5	17
94	Measurement of Directional Spectral Emissivity at High Temperatures. International Journal of Thermophysics, 2019, 40, 1.	1.0	32
95	Analysis of CO ₂ utilization into synthesis gas based on solar thermochemical CH ₄ -reforming. Journal of Energy Chemistry, 2019, 28, 61-72.	7.1	26
96	Theoretical Analysis of a Hyperbolic Metamaterial for Harvesting Visible and Infrared Light. Heat Transfer Engineering, 2019, 40, 410-417.	1.2	6
97	Mechanism of polaritons coupling from perspective of equivalent MLC circuits model in slit arrays. Optics Express, 2019, 27, 21173.	1.7	20
98	Ab-initio investigations on physisorption of alkaline earth metal atoms on monolayer hexagonal boron nitride (h-BN). Journal of Physics and Chemistry of Solids, 2018, 118, 114-125.	1.9	24
99	Simulation of calibration process in flame measurement by plenoptic camera. Applied Thermal Engineering, 2018, 135, 179-187.	3.0	19
100	Manipulation of inherent characteristics of graphene through N and Mg atom co-doping; a DFT study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1108-1119.	0.9	26
101	Analysis of H ₂ and CO production via solar thermochemical reacting system of NiFe ₂ O ₄ redox cycles combined with CH ₄ partial oxidation. International Journal of Hydrogen Energy, 2018, 43, 5996-6010.	3.8	18
102	Enhancement radiative cooling performance of nanoparticle crystal via oxidation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 207, 23-31.	1.1	14
103	Optical Bifacial Transmission by Asymmetric Charge-Oscillation-Induced Light Transmission Through a Plasmonic Structure. Plasmonics, 2018, 13, 825-833.	1.8	0
104	First-principles study on silicon atom doped monolayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 95, 94-101.	1.3	33
105	2-Dimensional Microlens Based on Uniformed Plasmonic Pyramid Arrays. Plasmonics, 2018, 13, 1483-1490.	1.8	1
106	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
107	Regulation of Thermal Radiation Characteristics in Isotope Batteries Based on Fishnet Metamaterials. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2018, 3, 193-197.	1.4	1
108	Radiative heat transfer and thermal characteristics of Fe-based oxides coated SiC and Alumina RPC structures as integrated solar thermochemical reactor. Science China Technological Sciences, 2018, 61, 1788-1801.	2.0	19

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109	Flame temperature estimation from light field image processing. <i>Applied Optics</i> , 2018, 57, 7259.	0.9	8
110	Photon-absorption-based explanation of ultrasonic-assisted solar photochemical splitting of water to improve hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14439-14450.	3.8	18
111	Influence analysis of radiative properties and flame temperature reconstruction based on optical tomography. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 342-352.	2.5	16
112	First-principles investigations of manganese oxide (MnO _x) complex-sandwiched bilayer graphene systems. <i>RSC Advances</i> , 2018, 8, 23688-23697.	1.7	15
113	Tunable absorption as multi-wavelength at infrared on graphene/hBN/Al grating structure. <i>Optics Express</i> , 2018, 26, 18230.	1.7	12
114	Heat transfer and fluid flow analysis of porous medium solar thermochemical reactor with quartz glass cover. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 61-74.	2.5	48
115	Ab-initio investigations on the physical properties of 3d and 5d transition metal atom substituted divacancy monolayer h-BN. <i>Applied Surface Science</i> , 2018, 458, 145-156.	3.1	33
116	Analysis of thermal transport and fluid flow in high-temperature porous media solar thermochemical reactor. <i>Solar Energy</i> , 2018, 173, 814-824.	2.9	26
117	Simple and fast approach to exploit the spectral reflection properties of liquid media. <i>Applied Optics</i> , 2018, 57, 9046.	0.9	3
118	Energy distribution characteristics of solar-thermal dissociation of NiFe ₂ O ₄ in a solar reactor. <i>Energy</i> , 2017, 123, 131-138.	4.5	5
119	Solar thermochemical hydrogen production using metallic oxides. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 257-263.	1.2	6
120	Infrared Absorption Characteristics Analysis for Annulus Nanostructure of Aluminum Substrate. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	1
121	Radiative heat transfer in solar thermochemical particle reactor: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 935-949.	8.2	56
122	Theoretical perspective on structural, electronic and magnetic properties of 3d metal tetraoxide clusters embedded into single and di-vacancy graphene. <i>Applied Surface Science</i> , 2017, 408, 21-33.	3.1	37
123	Production mechanism analysis of H ₂ and CO via solar thermochemical cycles based on iron oxide (Fe ₃ O ₄). <i>Journal of Energy Conversion</i> , 2017, 38, 107-117.	2.9	17
124	Performance optimization analysis of solar thermophotovoltaic energy conversion systems. <i>Solar Energy</i> , 2017, 149, 44-53.	2.9	13
125	Thermal performance analysis of solar thermochemical reactor for syngas production. <i>International Journal of Heat and Mass Transfer</i> , 2017, 111, 410-418.	2.5	23
126	Structural, electronic and optical properties of CO adsorbed on the defective anatase TiO ₂ (101) surface; a DFT study. <i>Journal of Molecular Structure</i> , 2017, 1142, 11-17.	1.8	8

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127	Analyzing the effects of reaction temperature on photo-thermo chemical synergetic catalytic water splitting under full-spectrum solar irradiation: An experimental and thermodynamic investigation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 12133-12142.	3.8	36
128	Heat transfer analysis of thermal disassociation of ZnO for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18223-18231.	3.8	4
129	Optical constant measurements of solar thermochemical reaction catalysts and optical window. <i>Optik</i> , 2017, 131, 323-334.	1.4	6
130	Progress in concentrated solar power technology with parabolic trough collector system: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1314-1328.	8.2	395
131	First-principles study of electronic and optical properties of boron and nitrogen doped graphene. <i>AIP Conference Proceedings</i> , 2017, . .	0.3	3
132	Ab initio calculations for structural, electronic and magnetic behaviors of nitrogenized monolayer graphene decorated with 5d transition metal atoms. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 26-38.	1.3	12
133	Structural, electronic, and magnetic behaviors of 5d transition metal atom substituted divacancy graphene: A first-principles study. <i>Chinese Physics B</i> , 2017, 26, 056301.	0.7	6
134	Manipulating intrinsic behaviors of graphene by substituting alkaline earth metal atoms in its structure. <i>RSC Advances</i> , 2017, 7, 16360-16370.	1.7	49
135	First-principles study on hydrogen adsorption on nitrogen doped graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 88, 115-124.	1.3	67
136	Radiative flux control via graphene-based spectrum tailoring. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 729-735.	2.5	4
137	Structural, electronic and magnetic properties of 3d metal trioxide clusters-doped monolayer graphene: A first-principles study. <i>Applied Surface Science</i> , 2017, 399, 20-31.	3.1	30
138	Investigation of optical properties and radiative transfer of sea water-based nanofluids for photocatalysis with different salt concentrations. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26626-26638.	3.8	16
139	A first-principles study on alkaline earth metal atom substituted monolayer boron nitride (BN). <i>Journal of Materials Chemistry C</i> , 2017, 5, 8112-8127.	2.7	56
140	Asymmetric radiation transfer based on linear light-matter interaction. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 21-30.	1.1	2
141	Mediating surface mode for intensive quasi-monochromatic evanescent wave tunneling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 202, 58-63.	1.1	2
142	Analysis of radiation heat transfer and temperature distributions of solar thermochemical reactor for syngas production. <i>Frontiers in Energy</i> , 2017, 11, 480-492.	1.2	18
143	Energy storage efficiency analyses of CO ₂ reforming of methane in metal foam solar thermochemical reactor. <i>Applied Thermal Engineering</i> , 2017, 111, 1091-1100.	3.0	54
144	Multi-focused microlens array optimization and light field imaging study based on Monte Carlo method. <i>Optics Express</i> , 2017, 25, 8274.	1.7	30

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145	Nanoparticle-crystal towards an absorbing meta-coating. Optics Express, 2017, 25, A375.	1.7	4
146	Responses transition in a monolayer Al-Al ₂ O ₃ nanoparticle-crystal due to oxidation. Optics Express, 2017, 25, A722.	1.7	3
147	Graphene plasmonics for surface enhancement near-infrared absorptivity. Optics Express, 2017, 25, 16400.	1.7	33
148	Direct wavefront manipulating for a transverse electric wave microlens. Optics Letters, 2016, 41, 5632.	1.7	3
149	Estimating stellar effective temperatures and detected angular parameters using stochastic particle swarm optimization. Research in Astronomy and Astrophysics, 2016, 16, 008.	0.7	6
150	Graphical aerosol classification method using aerosol relative optical depth. Atmospheric Environment, 2016, 135, 84-91.	1.9	31
151	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
152	Syngas production by simultaneous splitting of H ₂ O and CO ₂ via iron oxide (Fe ₃ O ₄) redox reactions under high-pressure. International Journal of Hydrogen Energy, 2016, 41, 19936-19946.	3.8	20
153	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
154	A new multi-function global particle swarm optimization. Applied Soft Computing Journal, 2016, 49, 279-291.	4.1	20
155	Graphene-Based Tunable Metamaterial Filter in Infrared Region. Smart Science, 2016, 4, 127-133.	1.9	9
156	Three-dimensional imaging simulation of active laser detection based on DLOS method. Infrared Physics and Technology, 2016, 77, 73-81.	1.3	2
157	Double Directions Nanoscale Range Finding Using Fano Resonance in Coupled Gratings. Plasmonics, 2016, 11, 1331-1336.	1.8	4
158	Determination of optical properties and thickness of optical thin film using stochastic particle swarm optimization. Solar Energy, 2016, 127, 147-158.	2.9	36
159	Parabolic trough receiver with corrugated tube for improving heat transfer and thermal deformation characteristics. Applied Energy, 2016, 164, 411-424.	5.1	175
160	Simulation of light-field camera imaging based on ray splitting Monte Carlo method. Optics Communications, 2015, 355, 15-26.	1.0	32
161	An experimental investigation on sunlight absorption characteristics of silver nanofluids. Solar Energy, 2015, 115, 85-94.	2.9	137
162	Optical coherent thermal emission by excitation of magnetic polariton in multilayer nanoshell trimer. Optics Express, 2015, 23, A1096.	1.7	14

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163	Thermochemical performance analysis of solar driven CO ₂ methane reforming. Energy, 2015, 91, 645-654.	4.5	70
164	Heat transfer analysis of solar-thermal dissociation of NiFe ₂ O ₄ by coupling MCRTM and FVM method. Energy Conversion and Management, 2015, 106, 676-686.	4.4	23
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