

Yong Shuai

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2098004/yong-shuai-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

198
papers

4,229
citations

33
h-index

57
g-index

206
ext. papers

5,372
ext. citations

5.3
avg, IF

6.2
L-index

#	Paper	IF	Citations
198	High efficiency solar steam generator comprising sodium alginate-polydopamine hydrogel for photothermal water sanitation. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 51, 101998	4.7	0
197	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	8.1	4
196	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	10.7	3
195	Multi-objective optimal design of NACA airfoil fin PCHE recuperator for micro-gas turbine systems. <i>Applied Thermal Engineering</i> , 2022 , 204, 117864	5.8	3
194	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	4.9	2
193	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	6.4	5
192	Effects of foam structure on thermochemical characteristics of porous-filled solar reactor. <i>Energy</i> , 2022 , 239, 122219	7.9	2
191	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	7.9	12
190	New integration mechanism of solar energy into 300MW coal-fired power plant: Performance and techno-economic analysis. <i>Energy</i> , 2022 , 238, 122005	7.9	7
189	Performance Analysis of the 50 MW Concentrating Solar Power Plant under Various Operation Conditions. <i>Energies</i> , 2022 , 15, 1367	3.1	1
188	Ultrathin and super-tough membrane for anti-dendrite separator in aqueous zinc-ion batteries. <i>Cell Reports Physical Science</i> , 2022 , 100824	6.1	8
187	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	5.8	2
186	Enhanced photoelectric responsivity of bilayer graphene/GaAs photodetector using plasmon resonance grating structures. <i>Optik</i> , 2022 , 259, 169031	2.5	0
185	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	7.8	1
184	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	10.7	0
183	Highly-selective CO ₂ conversion through single oxide CuO enhanced NiFe ₂ O ₄ thermal catalytic activity. <i>Sustainable Materials and Technologies</i> , 2022 , e00441	5.3	0
182	Design and optimization of mid-infrared hot electron detector based on Al/GaAs fishnet nanostructure for CO ₂ sensing. <i>Applied Optics</i> , 2022 , 61, 4270	1.7	

181	Ultralow Power Optical Synapses Based on MoS Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes. <i>Advanced Materials</i> , 2021 , 33, e2104960	24	10
180	Study on similarity criteria for aerodynamic/thermal coupling analysis of the aircraft. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 129, 105705	5.8	0
179	Thermal performance analysis of free-falling solar particle receiver and heat transfer modelling of multiple particles. <i>Applied Thermal Engineering</i> , 2021 , 187, 116567	5.8	10
178	Enhanced heat transfer performance for multi-tube heat exchangers with various tube arrangements. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 168, 120905	4.9	12
177	Solar-driven thermochemical redox cycles of ZrO ₂ supported NiFe ₂ O ₄ for CO ₂ reduction into chemical energy. <i>Energy</i> , 2021 , 223, 120073	7.9	8
176	Progress in full spectrum solar energy utilization by spectral beam splitting hybrid PV/T system. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110785	16.2	41
175	Mechanism and prediction of multi-mode magnetic polaritons by MCLC circuit model in complex micro/nanostructures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 269, 107700	2.1	2
174	Heat transfer analysis of solar-driven high-temperature thermochemical reactor using NiFe-Aluminate RPCs. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 10104-10118	6.7	9
173	Optical properties and cooling performance analyses of single-layer radiative cooling coating with mixture of TiO ₂ particles and SiO ₂ particles. <i>Science China Technological Sciences</i> , 2021 , 64, 1017-1029	3.5	13
172	Comparative Performance Assessment of 300 MW Solar-Coal Hybrid Power Generation System Under Different Integration Mechanisms. <i>Energy Technology</i> , 2021 , 9, 2000628	3.5	2
171	Performance analysis of 200 MW solar coal hybrid power generation system for transitioning to a low carbon energy future. <i>Applied Thermal Engineering</i> , 2021 , 183, 116140	5.8	9
170	Fault Ride-Through Behaviors Correction-Based Single-Unit Equivalent Method for Large Photovoltaic Power Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 715-726	8.2	1
169	Influences of atmospheric water vapor on spectral effective emissivity of a single-layer radiative cooling coating. <i>AIMS Energy</i> , 2021 , 9, 96-116	1.8	2
168	Recent progresses in the mechanism, performance, and fabrication methods of metal-derived nanomaterials for efficient electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4558-4588	13	2
167	Tailoring spintronic and opto-electronic characteristics of bilayer AlN through MnO clusters intercalation; an study.. <i>RSC Advances</i> , 2021 , 11, 15167-15176	3.7	
166	Thermochemical analysis of dry methane reforming hydrogen production in biomimetic venous hierarchical porous structure solar reactor for improving energy storage. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 7733-7744	6.7	16
165	. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3657-3667	7	5
164	Thermal performance analysis of packed-bed thermal energy storage with radial gradient arrangement for phase change materials. <i>Renewable Energy</i> , 2021 , 173, 768-780	8.1	7

163	Thermal Performance Analysis of PCM Capsules Packed-Bed System with Biomimetic Leaf Hierarchical Porous Structure. <i>Journal of Thermal Science</i> , 2021 , 30, 1559-1571	1.9	6
162	Efficient radiative cooling coating with biomimetic human skin wrinkle structure. <i>Nano Energy</i> , 2021 , 89, 106377	17.1	33
161	Progress and perspective of electrochemical CO ₂ reduction on Pd-based nanomaterials. <i>Chemical Engineering Science</i> , 2021 , 245, 116869	4.4	6
160	Ultralow Power Optical Synapses Based on MoS ₂ Layers by Indium-Induced Surface Charge Doping for Biomimetic Eyes (Adv. Mater. 52/2021). <i>Advanced Materials</i> , 2021 , 33, 2170409	24	2
159	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	3.5	5
158	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	3.5	8
157	Effects of image positions on temperature reconstruction using light field camera. <i>Results in Physics</i> , 2020 , 17, 103146	3.7	
156	Verification of deterministic solar forecasts. <i>Solar Energy</i> , 2020 , 210, 20-37	6.8	63
155	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	6.8	17
154	DFT study on tailoring the structural, electronic and optical properties of bilayer graphene through metalloids intercalation. <i>Chemical Physics</i> , 2020 , 536, 110828	2.3	2
153	Analysis of infrared spectra with narrow band absorption by a graphene/square-ring structure. <i>Science China Technological Sciences</i> , 2020 , 63, 648-654	3.5	1
152	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	10.7	23
151	Analysis of infrared spectroscopy absorption characteristics of graphene transferred to grating structures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 254, 107185	2.1	3
150	A comprehensive review on dynamic equivalent modeling of large photovoltaic power plants. <i>Solar Energy</i> , 2020 , 210, 87-100	6.8	3
149	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	2.3	1
148	Thermal properties characterization of chloride salts/nanoparticles composite phase change material for high-temperature thermal energy storage. <i>Applied Energy</i> , 2020 , 264, 114674	10.7	40
147	Thermochemical CO ₂ reduction over NiFe ₂ O ₄ @alumina filled reactor heated by high-flux solar simulator. <i>Energy</i> , 2020 , 197, 117267	7.9	20
146	Current technology development for CO ₂ utilization into solar fuels and chemicals: A review. <i>Journal of Energy Chemistry</i> , 2020 , 49, 96-123	12	86

145	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	10.6	17
144	Process analysis of solar steam reforming of methane for producing low-carbon hydrogen.. <i>RSC Advances</i> , 2020 , 10, 12582-12597	3.7	18
143	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	10.7	15
142	Predicting Multi-Order Magnetic Polaritons Resonance in SiC Slit Arrays by Mutual InductorInductorCapacitor Circuit Model. <i>Journal of Heat Transfer</i> , 2020 , 142,	1.8	4
141	Absorption characteristics of a metal-insulator-metal nanodisk for solar thermal applications. <i>Optics Express</i> , 2020 , 28, 15731-15743	3.3	18
140	Full-Spectrum Solar Energy Utilization and Enhanced Solar Energy Harvesting via Photon Anti-Reflection and Scattering Performance Using Nanophotonic Structure. <i>ES Energy & Environments</i> , 2020 ,	2.9	8
139	Experimental investigation of cost-effective ZnO nanofluid based spectral splitting CPV/T system. <i>Energy</i> , 2020 , 194, 116913	7.9	51
138	Experimental investigation of thermal performance enhancement of cavity receiver with bottom surface interior convex. <i>Applied Thermal Engineering</i> , 2020 , 168, 114847	5.8	6
137	Effects of ordered hierarchically porous structure on methane reforming performance in solar foam reactor. <i>Journal of CO2 Utilization</i> , 2020 , 37, 147-157	7.6	18
136	Tailoring radiative properties with magnetic polaritons in deep gratings and slit arrays based on structural transformation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 242, 106788 ^{2.1}	2.1	8
135	Reducing toxicity and enhancing broadband solar energy harvesting of ultra-thin perovskite solar cell via SiO2 nanophotonic structure. <i>Optik</i> , 2020 , 223, 165624	2.5	9
134	Analysis of high-flux solar irradiation distribution characteristic for solar thermochemical energy storage application. <i>Applied Thermal Engineering</i> , 2020 , 181, 115900	5.8	2
133	Thermal-chemical reaction characteristics of Ni/Al2O3 catalytic porous material filled solar reactor for dry reforming of methane process. <i>Applied Thermal Engineering</i> , 2020 , 180, 115901	5.8	9
132	Theoretical insights into the factors affecting the electrochemical reduction of CO2. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4352-4369	5.8	7
131	Thermal driven wavelength-selective optical switch based on magnetic polaritons coupling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 255, 107230	2.1	10
130	Core-shell structures with noble-metal nanoparticles for surface-enhanced Raman spectroscopy. <i>Journal of Optics (India)</i> , 2019 , 48, 549-556	1.3	2
129	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. <i>Applied Thermal Engineering</i> , 2019 , 162, 114235	5.8	9
128	Ab-initio investigations on titanium (Ti) atom-doped divacancy monolayer h-BN system for hydrogen storage systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 109, 169-178	3	15

127	Investigations on experimental performance and system behavior of 10 kW organic Rankine cycle using scroll-type expander for low-grade heat source. <i>Energy</i> , 2019 , 177, 94-105	7.9	14
126	Effect of nonuniform radiation properties on flame temperature reconstruction based on light field imaging. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 104, 136-146	5.8	2
125	Tailoring electronic and optical parameters of bilayer graphene through boron and nitrogen atom co-substitution; an ab-initio study. <i>Applied Surface Science</i> , 2019 , 480, 463-471	6.7	20
124	Exergy analysis of hydrogen production from steam gasification of biomass: A review. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 14290-14302	6.7	58
123	Analysis of Two-Step Solar Thermochemical Looping Reforming of Fe ₃ O ₄ Redox Cycles for Synthesis Gas Production. <i>Energy Technology</i> , 2019 , 7, 1800588	3.5	8
122	Noncontact Near-Field Photon Transfer Control Using Metamaterial. <i>Journal of Thermophysics and Heat Transfer</i> , 2019 , 33, 163-169	1.3	
121	Numerical Investigation of Carbon Deposition Behavior in Ni/Al ₂ O ₃ -Based Catalyst Porous-Filled Solar Thermochemical Reactor for the Dry Reforming of Methane Process. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15701-15711	3.9	11
120	Joint method for reconstructing three-dimensional temperature of flame using Lucy-Richardson and nearest neighbor filtering using light-field imaging. <i>Science China Technological Sciences</i> , 2019 , 62, 1232-1243	3.5	8
119	Mechanism of polaritons coupling from perspective of equivalent MLC circuits model in slit arrays. <i>Optics Express</i> , 2019 , 27, 21173-21184	3.3	18
118	Hydrogen production through biomass gasification in supercritical water: A review from exergy aspect. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15727-15736	6.7	52
117	Theoretical investigations on transition metal trioxide (TMO ₃) cluster incorporated monolayer aluminum nitride (AlN) using DFT technique. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 110, 24-31	3	2
116	Optical properties and transmittances of ZnO-containing nanofluids in spectral splitting photovoltaic/thermal systems. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 128, 668-678	4.9	51
115	Combination of thermodynamic analysis and regression analysis for steam and dry methane reforming. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15795-15810	6.7	10
114	Heat Transfer Modeling of a High-Temperature Porous-Medium Filled Solar Thermochemical Reactor for Hydrogen and Synthesis Gas Production. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	4
113	Radiative transfer analysis of semitransparent medium with particles having non-uniform size distribution by differential-integration method. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 130, 342-355	4.9	10
112	Measurement of Directional Spectral Emissivity at High Temperatures. <i>International Journal of Thermophysics</i> , 2019 , 40, 1	2.1	16
111	Analysis of CO ₂ utilization into synthesis gas based on solar thermochemical CH ₄ -reforming. <i>Journal of Energy Chemistry</i> , 2019 , 28, 61-72	12	19
110	Theoretical Analysis of a Hyperbolic Metamaterial for Harvesting Visible and Infrared Light. <i>Heat Transfer Engineering</i> , 2019 , 40, 410-417	1.7	3

109	Ab-initio investigations on physisorption of alkaline earth metal atoms on monolayer hexagonal boron nitride (h-BN). <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 118, 114-125	3.9	16
108	Simulation of calibration process in flame measurement by plenoptic camera. <i>Applied Thermal Engineering</i> , 2018 , 135, 179-187	5.8	13
107	Manipulation of inherent characteristics of graphene through N and Mg atom co-doping; a DFT study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 1108-1119	2.3	17
106	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. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 5996-6017	6.7	17
105	Enhancement radiative cooling performance of nanoparticle crystal via oxidation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 207, 23-31	2.1	10
104	Optical Bifacial Transmission by Asymmetric Charge-Oscillation-Induced Light Transmission Through a Plasmonic Structure. <i>Plasmonics</i> , 2018 , 13, 825-833	2.4	
103	First-principles study on silicon atom doped monolayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 95, 94-101	3	19
102	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	4.9	13
101	First-principles investigations of manganese oxide (MnO) complex-sandwiched bilayer graphene systems.. <i>RSC Advances</i> , 2018 , 8, 23688-23697	3.7	14
100	Tunable absorption as multi-wavelength at infrared on graphene/hBN/Al grating structure. <i>Optics Express</i> , 2018 , 26, 18230-18237	3.3	5
99	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	4.9	30
98	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	6.7	21
97	Analysis of thermal transport and fluid flow in high-temperature porous media solar thermochemical reactor. <i>Solar Energy</i> , 2018 , 173, 814-824	6.8	19
96	Simple and fast approach to exploit the spectral reflection properties of liquid media. <i>Applied Optics</i> , 2018 , 57, 9046-9052	1.7	3
95	2-Dimensional Microlens Based on Uniformed Plasmonic Pyramid Arrays. <i>Plasmonics</i> , 2018 , 13, 1483-1490.	2.4	
94	Radiative, conductive and laminar convective coupled heat transfer analysis of molten salts based on finite element method. <i>Applied Thermal Engineering</i> , 2018 , 131, 19-29	5.8	16
93	Germanium Atom Substitution in Monolayer Graphene:A First-principles Study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 422, 012010	0.4	1
92	Regulation of Thermal Radiation Characteristics in Isotope Batteries Based on Fishnet Metamaterials. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2018 , 3, 193-197	1.5	1

91	Radiative heat transfer and thermal characteristics of Fe-based oxides coated SiC and Alumina RPC structures as integrated solar thermochemical reactor. <i>Science China Technological Sciences</i> , 2018 , 61, 1788-1801	3.5	15
90	Flame temperature estimation from light field image processing. <i>Applied Optics</i> , 2018 , 57, 7259-7265	1.7	5
89	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	6.7	13
88	Exergy distribution characteristics of solar-thermal dissociation of NiFe ₂ O ₄ in a solar reactor. <i>Energy</i> , 2017 , 123, 131-138	7.9	5
87	Solar thermochemical hydrogen production using metallic oxides. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017 , 39, 257-263	1.6	4
86	Infrared Absorption Characteristics Analysis for Annulus Nanostructure of Aluminum Substrate. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	1
85	Radiative heat transfer in solar thermochemical particle reactor: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 935-949	16.2	43
84	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	6.7	31
83	Production mechanism analysis of H ₂ and CO via solar thermochemical cycles based on iron oxide (Fe ₃ O ₄) at high temperature. <i>Solar Energy</i> , 2017 , 148, 117-127	6.8	14
82	Performance optimization analysis of solar thermophotovoltaic energy conversion systems. <i>Solar Energy</i> , 2017 , 149, 44-53	6.8	11
81	Thermal performance analysis of solar thermochemical reactor for syngas production. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 410-418	4.9	20
80	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	3.4	4
79	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	6.7	22
78	Heat transfer analysis of thermal disassociation of ZnO for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 18223-18231	6.7	3
77	Optical constant measurements of solar thermochemical reaction catalysts and optical window. <i>Optik</i> , 2017 , 131, 323-334	2.5	6
76	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	16.2	291
75	First-principles study of electronic and optical properties of boron and nitrogen doped graphene 2017 ,		2
74	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	3	10

73	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	1.2	3
72	Manipulating intrinsic behaviors of graphene by substituting alkaline earth metal atoms in its structure. <i>RSC Advances</i> , 2017 , 7, 16360-16370	3-7	33
71	First-principles study on hydrogen adsorption on nitrogen doped graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 88, 115-124	3	52
70	Radiative flux control via graphene-based spectrum tailoring. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 107, 729-735	4-9	4
69	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	6-7	25
68	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	6-7	13
67	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	7-1	37
66	Asymmetric radiation transfer based on linear light-matter interaction. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 202, 21-30	2-1	2
65	Mediating surface mode for intensive quasi-monochromatic evanescent wave tunneling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 202, 58-63	2-1	2
64	Analysis of radiation heat transfer and temperature distributions of solar thermochemical reactor for syngas production. <i>Frontiers in Energy</i> , 2017 , 11, 480-492	2-6	14
63	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	5-8	45
62	Multi-focused microlens array optimization and light field imaging study based on Monte Carlo method. <i>Optics Express</i> , 2017 , 25, 8274-8287	3-3	23
61	Nanoparticle-crystal towards an absorbing meta-coating. <i>Optics Express</i> , 2017 , 25, A375-A390	3-3	4
60	Responses transition in a monolayer Al-AlO nanoparticle-crystal due to oxidation. <i>Optics Express</i> , 2017 , 25, A722-A741	3-3	3
59	Graphene plasmonics for surface enhancement near-infrared absorptivity. <i>Optics Express</i> , 2017 , 25, 16400-16408	3-3	16
58	A new multi-function global particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2016 , 49, 279-291	7-5	16
57	Graphene-Based Tunable Metamaterial Filter in Infrared Region. <i>Smart Science</i> , 2016 , 4, 127-133	1-5	8
56	Three-dimensional imaging simulation of active laser detection based on DLOS method. <i>Infrared Physics and Technology</i> , 2016 , 77, 73-81	2-7	2

55	Double Directions Nanoscale Range Finding Using Fano Resonance in Coupled Gratings. <i>Plasmonics</i> , 2016 , 11, 1331-1336	2.4	4
54	Determination of optical properties and thickness of optical thin film using stochastic particle swarm optimization. <i>Solar Energy</i> , 2016 , 127, 147-158	6.8	29
53	Parabolic trough receiver with corrugated tube for improving heat transfer and thermal deformation characteristics. <i>Applied Energy</i> , 2016 , 164, 411-424	10.7	141
52	Direct wavefront manipulating for a transverse electric wave microlens. <i>Optics Letters</i> , 2016 , 41, 5632-5635		3
51	Estimating stellar effective temperatures and detected angular parameters using stochastic particle swarm optimization. <i>Research in Astronomy and Astrophysics</i> , 2016 , 16, 008	1.5	3
50	Graphical aerosol classification method using aerosol relative optical depth. <i>Atmospheric Environment</i> , 2016 , 135, 84-91	5.3	23
49	Transient thermal performance response characteristics of porous-medium receiver heated by multi-dish concentrator. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 75, 36-41	5.8	21
48	Syngas production by simultaneous splitting of H ₂ O and CO ₂ via iron oxide (Fe ₃ O ₄) redox reactions under high-pressure. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 19936-19946	6.7	17
47	Heat transfer performance enhancement and thermal strain restrain of tube receiver for parabolic trough solar collector by using asymmetric outward convex corrugated tube. <i>Energy</i> , 2016 , 114, 275-292	7.9	125
46	An experimental investigation on sunlight absorption characteristics of silver nanofluids. <i>Solar Energy</i> , 2015 , 115, 85-94	6.8	112
45	Optical coherent thermal emission by excitation of magnetic polariton in multilayer nanoshell trimer. <i>Optics Express</i> , 2015 , 23, A1096-110	3.3	12
44	Thermochemical performance analysis of solar driven CO ₂ methane reforming. <i>Energy</i> , 2015 , 91, 645-654	4.9	58
43	Heat transfer analysis of solar-thermal dissociation of NiFe ₂ O ₄ by coupling MCRTM and FVM method. <i>Energy Conversion and Management</i> , 2015 , 106, 676-686	10.6	20
42	Effects of glass cover on heat flux distribution for tube receiver with parabolic trough collector system. <i>Energy Conversion and Management</i> , 2015 , 90, 47-52	10.6	80
41	Simulation of light-field camera imaging based on ray splitting Monte Carlo method. <i>Optics Communications</i> , 2015 , 355, 15-26	2	25
40	PROPOSAL OF THE SHAPE LAYOUT OF TRAPEZOIDAL CAVITY RECEIVER TO IMPROVE THE OPTICAL EFFICIENCY. <i>Heat Transfer Research</i> , 2015 , 46, 429-446	3.9	3
39	A bibliographic analysis of recent solar energy literatures: The expansion and evolution of a research field. <i>Renewable Energy</i> , 2014 , 66, 696-706	8.1	74
38	Study on radiation flux of the receiver with a parabolic solar concentrator system. <i>Energy Conversion and Management</i> , 2014 , 84, 1-6	10.6	66

37	Thermal and chemical reaction performance analyses of steam methane reforming in porous media solar thermochemical reactor. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 718-730	6.7	58
36	Development of a multi-layer and multi-dish model for the multi-dish solar energy concentrator system. <i>Solar Energy</i> , 2014 , 107, 617-627	6.8	11
35	Using a new aerosol relative optical thickness concept to identify aerosol particle species. <i>Atmospheric Research</i> , 2014 , 150, 1-11	5.4	21
34	Thermal performance analysis of porous medium solar receiver with quartz window to minimize heat flux gradient. <i>Solar Energy</i> , 2014 , 108, 348-359	6.8	45
33	Thermal performance analyses of porous media solar receiver with different irradiative transfer models. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 7-16	4.9	66
32	Numerical analysis of hydrogen production via methane steam reforming in porous media solar thermochemical reactor using concentrated solar irradiation as heat source. <i>Energy Conversion and Management</i> , 2014 , 87, 956-964	10.6	62
31	Study on solar photo-thermal conversion efficiency of a solar parabolic dish system. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, n/a-n/a	2.5	1
30	Polariton-enhanced emittance of metallic dielectric multilayer structures for selective thermal emitters. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014 , 135, 50-57	2.1	14
29	Effects of atmospheric aerosol on the direct normal irradiance on the earth's surface. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6364-6370	6.7	21
28	Study on the Influence of Aerosol Radiation Balance in One-Dimensional Atmospheric Medium Using Pn-Approximation Method. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-9	1.1	4
27	One-Dimensional Multilayer Microstructure Emitter for Thermophotovoltaic Applications. <i>International Journal of Energy Information and Communications</i> , 2014 , 5, 9-20	2	2
26	Experimental investigation of the potentials modified by radio frequency sheaths during ion cyclotron range of frequency on EAST. <i>Plasma Physics and Controlled Fusion</i> , 2013 , 55, 015004	2	13
25	Thermophotovoltaic emitters based on a two-dimensional grating/thin-film nanostructure. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 637-645	4.9	144
24	Heat transfer analyses of porous media receiver with multi-dish collector by coupling MCRT and FVM method. <i>Solar Energy</i> , 2013 , 93, 158-168	6.8	65
23	Design of a one Dimensional Si/SiO ₂ photonic crystals filter for thermophotovoltaic application 2013 ,		2
22	Optical efficiency analysis of cylindrical cavity receiver with bottom surface convex. <i>Solar Energy</i> , 2013 , 90, 195-204	6.8	57
21	Researches on a new type of solar surface cladding reactor with concentration quartz window. <i>Solar Energy</i> , 2013 , 94, 177-181	6.8	22
20	Thermal performance analysis of porous media receiver with concentrated solar irradiation. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 247-254	4.9	147

19	Effects of material selection on the thermal stresses of tube receiver under concentrated solar irradiation. <i>Materials & Design</i> , 2012 , 33, 284-291		69
18	Experimental and numerical investigation on solar concentrating characteristics of a sixteen-dish concentrator. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18694-18703	6.7	29
17	Radiative properties of a solar cavity receiver/reactor with quartz window. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12148-12158	6.7	49
16	Inverse problem for aerosol particle size distribution using SPSO associated with multi-lognormal distribution model. <i>Atmospheric Environment</i> , 2011 , 45, 4892-4897	5.3	30
15	The Numerical Investigation on Optical Efficiency and Heat Flux Distribution of Conical Cavity Receiver. <i>Advanced Materials Research</i> , 2011 , 347-353, 1530-1536	0.5	2
14	Investigation on Temperature Field and Thermal Stress of Dish Solar Concentrator's Focal Region. <i>Applied Mechanics and Materials</i> , 2011 , 148-149, 20-23	0.3	
13	Numerical simulation and experiment research of radiation performance in a dish solar collector system. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 488-495		17
12	Inverse problem for particle size distributions of atmospheric aerosols using stochastic particle swarm optimization. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 2106-2114	2.1	36
11	Thermal stress analysis of eccentric tube receiver using concentrated solar radiation. <i>Solar Energy</i> , 2010 , 84, 1809-1815	6.8	85
10	Compressing infrared spectrum of exhaust plume by wavelets. <i>Heat Transfer - Asian Research</i> , 2009 , 39, 103-115	2.8	
9	Numerical Study of Radiation Characteristics in a Dish Solar Collector System. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2008 , 130,	2.3	15
8	Radiation symmetry test and uncertainty analysis of Monte Carlo method based on radiative exchange factor. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008 , 109, 1281-1296	2.1	9
7	Radiation performance of dish solar concentrator/cavity receiver systems. <i>Solar Energy</i> , 2008 , 82, 13-21	6.8	197
6	Multiple scattering of thermal waves from double subsurface cylinders in semi-infinite slab. <i>Heat Transfer - Asian Research</i> , 2007 , 36, 398-407	2.8	1
5	Calculation techniques with the Monte Carlo method in stray radiation evaluation. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005 , 95, 101-111	2.1	11
4	Simulation of the infrared radiation characteristics of high-temperature exhaust plume including particles using the backward Monte Carlo method. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005 , 95, 231-240	2.1	13
3	Analysis of Rocket Plume Base Heating by Using Backward Monte-Carlo Method. <i>Journal of Thermophysics and Heat Transfer</i> , 2005 , 19, 125-127	1.3	9
2	Reliability of stray light calculation code using the Monte Carlo method. <i>Optical Engineering</i> , 2005 , 44, 023001	1.1	5

- 1 Numerical study on the thermal performance analysis of packed-bed latent heat thermal storage system with biomimetic vein hierarchical structure. *International Journal of Green Energy*,1-11 3 1