Jun Qiu

List of Publications by Year in descending order

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42 papers	1,998 citations	430874 18 h-index	345221 36 g-index
42 all docs	42 docs citations	42 times ranked	2401 citing authors

#	Article	IF	Citations
1	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. Renewable Energy, 2022, 183, 251-266.	8.9	20
2	Experimental study on thermal performance of a novel medium-high temperature packed-bed latent heat storage system containing binary nitrate. Applied Energy, 2022, 309, 118433.	10.1	31
3	A review on numerical simulation, optimization design and applications of packed-bed latent thermal energy storage system with spherical capsules. Journal of Energy Storage, 2022, 51, 104555.	8.1	40
4	Preparation and performance improvement of chlorides/MgO ceramics shape-stabilized phase change materials with expanded graphite for thermal energy storage system. Applied Energy, 2022, 316, 119116.	10.1	23
5	Iridescent Daytime Radiative Cooling with No Absorption Peaks in the Visible Range. Small, 2022, 18, e2202400.	10.0	42
6	Thermal performance analysis of packed-bed thermal energy storage with radial gradient arrangement for phase change materials. Renewable Energy, 2021, 173, 768-780.	8.9	25
7	A facile bioinspired strategy for accelerating water collection enabled by passive radiative cooling and wettability engineering. Materials and Design, 2021, 206, 109829.	7.0	29
8	Hexagonal boron nitride and alumina dual-layer coating for space solar thermal shielding. Chemical Engineering Journal, 2021, 421, 127802.	12.7	12
9	A visibly transparent radiative cooling film with self-cleaning function produced by solution processing. Journal of Materials Science and Technology, 2021, 90, 76-84.	10.7	42
10	Full Daytime Sub-ambient Radiative Cooling in Commercial-like Paints with High FigureÂof Merit. Cell Reports Physical Science, 2020, 1, 100221.	5.6	121
11	Robust Inorganic Daytime Radiative Cooling Coating Based on a Phosphate Geopolymer. ACS Applied Materials & Interfaces, 2020, 12, 54963-54971.	8.0	53
12	Complex refractive indices measurements of polymers in infrared bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 252, 107063.	2.3	110
13	Complex refractive indices measurements of polymers in visible and near-infrared bands. Applied Optics, 2020, 59, 2337.	1.8	173
14	A strategy of hierarchical particle sizes in nanoparticle composite for enhancing solar reflection. International Journal of Heat and Mass Transfer, 2019, 131, 487-494.	4.8	98
15	Extracting optical constants of solid materials with micro-rough surfaces from ellipsometry without using effective medium approximation. Optics Express, 2019, 27, 17667.	3.4	5
16	Laser damage resistance of polystyrene opal photonic crystals. Scientific Reports, 2018, 8, 4523.	3.3	2
17	Applicability of the effective medium approximation in the ellipsometry of randomly micro-rough solid surfaces. Optics Express, 2018, 26, 16560.	3.4	18
18	A NOVEL IMPROVED LAYERED EFFECTIVE MEDIUM APPROXIMATION FOR ELLIPSOMETRIC PARAMETERS OF MICROROUGH SURFACES. , 2018, , .		0

#	Article	IF	Citations
19	High Reflectance of Artificial Opals and Engineering Applications. Journal of Heat Transfer, 2017, 139, .	2.1	1
20	Highâ€Performance Photothermal Conversion of Narrowâ€Bandgap Ti₂O₃ Nanoparticles. Advanced Materials, 2017, 29, 1603730.	21.0	766
21	General design method of ultra-broadband perfect absorbers based on magnetic polaritons. Optics Express, 2017, 25, A980.	3.4	20
22	Artificial Opals: Reflection Spectra and Distribution Laws of Energy Transfer. , 2016, , .		0
23	Accurate Geometry Design of Magnetic Polariton With Specified Resonance Wavelength: A Combined LC Circuit Model and Inverse Technique. , 2016, , .		0
24	Mueller Matrix of Specular Reflection Using an Aluminum Grating Surface with Oxide Nanofilm. Applied Spectroscopy, 2016, 70, 1009-1017.	2.2	0
25	Spectral radiative properties of a nickel porous microstructure and magnetic polariton resonance for light trapping. International Journal of Heat and Mass Transfer, 2016, 98, 833-844.	4.8	15
26	Investigation of ellipsometric parameters of 2D microrough surfaces by FDTD. Applied Optics, 2016, 55, 5423.	2.1	6
27	Thermal radiation in subwavelength aluminum foam structures by finite-difference time-domain method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 158, 101-110.	2.3	13
28	Deviation characteristics of specular reflectivity of micro-rough surface from Fresnel×³s equation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 160, 50-62.	2.3	7
29	Wide-angle and polarization independent perfect absorber based on one-dimensional fabrication-tolerant stacked array. Optics Express, 2015, 23, 21023.	3.4	48
30	Temperature-dependent infrared dielectric functions of MgO crystal: An ellipsometry and first-principles molecular dynamics study. Journal of Chemical Physics, 2014, 141, 104703.	3.0	10
31	Omnidirectional and polarization insensitive nearly perfect absorber in one dimensional meta-structure. Applied Physics Letters, 2014, 105, .	3.3	31
32	Parallel LC circuit model for multi-band absorption and preliminary design of radiative cooling. Optics Express, 2014, 22, A1713.	3.4	114
33	Dual-band infrared perfect absorber based on asymmetric T-shaped plasmonic array. Optics Express, 2014, 22, A335.	3.4	67
34	Infrared radiative properties of two-dimensional square optical black holes with materials of insulators and semiconductors. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 132, 99-108.	2.3	3
35	Reflective properties of randomly rough surfaces under large incidence angles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1251.	1.5	16
36	A Hybrid Partial Coherence and Geometry Optics Model of Radiative Property on Coated Rough Surfaces. Journal of Heat Transfer, 2013, 135, .	2.1	3

#	Article	IF	Citations
37	Effect of Oxide Film on Bi-Directional Reflection Properties of Two-Dimensional Random Rough Surface of Silicon. , 2012, , .		1
38	Infrared radiative properties of two-dimensional square optical black holes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2584-2591.	2.3	6
39	Radiative properties of optical board embedded with optical black holes. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 832-838.	2.3	8
40	Oxide-Film Effect on Infrared Radiative Properties of Grating Structures of Aluminum. Journal of Thermophysics and Heat Transfer, 2011, 25, 80-86.	1.6	4
41	FDTD analysis of infrared radiative properties of microscale structure aluminum surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1912-1920.	2.3	13
42	Full Daytime Sub-Ambient Radiative Cooling with High Figure of Merit in Commercial-Like Paints. SSRN Electronic Journal, 0, , .	0.4	2