

Yu-Bin Chen

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

979
citations

932766

10
h-index

454577

30
g-index

39
all docs

39
docs citations

39
times ranked

1735
citing authors

#	ARTICLE	IF	CITATIONS
1	Realization and optimization of a binary cycle power generating system using a low-grade heat source. Journal of Mechanics, 2022, 38, 166-175.	0.7	0
2	Realization of energy harvesting and temperature indication functions for zero-energy thermos flask. Energy, 2022, 257, 124718.	4.5	1
3	Enhancing solar-thermal energy conversion with silicon-cored tungsten nanowire selective metamaterial absorbers. IScience, 2021, 24, 101899.	1.9	7
4	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. Journal of Materials Processing Technology, 2021, 294, 117109.	3.1	4
5	Impacts from triple phases of a germanium-antimony-tellurium film coating on thermal emission from SiO ₂ and boron doped Si. Optical Materials Express, 2021, 11, 3071.	1.6	0
6	Hemispherical radiative properties of complex gratings near the intrinsic band gap. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107687.	1.1	1
7	Photonic hook generated by the Janus microcylinder under point-source illumination. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2938.	0.9	2
8	Impacts of both temperature and condensation on the band gap of photonic crystals around the freezing point. Optical Materials, 2021, 121, 111596.	1.7	1
9	Development of lightweight energy-saving glass and its near-field electromagnetic analysis. Energy, 2020, 193, 116812.	4.5	6
10	A sound absorption panel containing coiled Helmholtz resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126887.	0.9	34
11	Retrieval of Uniaxial Permittivity and Permeability for the Study of Near-Field Radiative Transport Between Metallic Nanowire Arrays. Journal of Heat Transfer, 2020, 142, .	1.2	2
12	Transparent planar indium tin oxide for a thermo-photovoltaic selective emitter. Optical Materials Express, 2020, 10, 2330.	1.6	3
13	Optimizing effectiveness and robustness for solar heat absorbers composed of a periodically nano-structured surface. SN Applied Sciences, 2019, 1, 1.	1.5	0
14	Realization of energy-saving glass using photonic crystals. Frontiers in Energy, 2018, 12, 178-184.	1.2	3
15	An electrophoretic-deposited low-cost carbon nanotube (CNT) thermophotovoltaic emitter. , 2018, , .		1
16	Designing a Thermal Radiation Oven for Smart Phone Panels. Inventions, 2018, 3, 36.	1.3	2
17	Synchronous scattering and diffraction from gold nanotextured surfaces with structure factors. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 210, 165-172.	1.1	0
18	Development of chitosan/β ² -glycerophosphate/glycerol hydrogel as a thermosensitive coupling agent. Carbohydrate Polymers, 2016, 147, 409-414.	5.1	35

#	ARTICLE	IF	CITATIONS
19	Unified fabrication process for complex gratings. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 034502.	1.0	0
20	Bandwidth broadening for transmission loss of acoustic waves using coupled membrane-ring structure. Materials Research Express, 2016, 3, 105801.	0.8	12
21	Silicon Nanowires for Solar Thermal Energy Harvesting: an Experimental Evaluation on the Trade-off Effects of the Spectral Optical Properties. Nanoscale Research Letters, 2016, 11, 1.	3.1	653
22	Tailoring broadband radiative properties of glass with silver nano-pillars for saving energy. International Journal of Thermal Sciences, 2016, 102, 17-25.	2.6	10
23	Tempering Hemispherical Radiative Properties with a Resonance Compilation. Plasmonics, 2015, 10, 595-603.	1.8	10
24	Unique scattering patterns and reduced reflectance from Bessel™s rough surfaces. Optical Materials Express, 2015, 5, 1016.	1.6	2
25	Development of an energy-saving glass using two-dimensional periodic nano-structures. Energy and Buildings, 2015, 86, 589-594.	3.1	14
26	Modeling infrared radiative properties of nanoscale metallic complex slit arrays. Journal of Central South University, 2014, 21, 3927-3935.	1.2	0
27	Wavelength-Selective Solar Thermal Absorber With Two-Dimensional Nickel Gratings. Journal of Heat Transfer, 2014, 136, .	1.2	33
28	In-plane scattering patterns from a complex dielectric grating at the normal and oblique incidence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 879.	0.8	5
29	Modeling Bidirectional Reflectance Distribution Function of One-dimensional Random Rough Surfaces with the Finite Difference Time Domain Method. Smart Science, 2014, 2, 101-106.	1.9	4
30	Trapping mid-infrared rays in a lossy film with the Berreman mode, epsilon near zero mode, and magnetic polaritons. Optics Express, 2013, 21, 20771.	1.7	47
31	Second-order derivatives of optical path length of ray with respect to variable vector of source ray. Applied Optics, 2012, 51, 5552.	0.9	2
32	Modeling transmittance through submicron silver slit arrays. Journal of Central South University, 2012, 19, 2107-2114.	1.2	2
33	Cryptosystem for plaintext messages utilizing optical properties of gratings. Applied Optics, 2010, 49, 2041.	2.1	2
34	Development of mid-infrared surface plasmon resonance-based sensors with highly-doped silicon for biomedical and chemical applications. Optics Express, 2009, 17, 3130.	1.7	47
35	Impacts of geometric modifications on infrared optical responses of metallic slit arrays. Optics Express, 2009, 17, 9789.	1.7	21
36	Device scaling effect on the spectral-directional absorptance of wafer™s front side. International Journal of Heat and Mass Transfer, 2008, 51, 4911-4925.	2.5	9

#	ARTICLE	IF	CITATIONS
37	Eco-Friendly and Particle-Free Copper Ionic Aqueous Precursor for In Situ Low Temperature Photothermal Synthesizing and Patterning of Highly Conductive Copper Microstructures on Flexible Substrate. <i>Advanced Engineering Materials</i> , 0, , 2101069.	1.6	2
38	Optical Constants Retrieval from a Thin Film at Elevated Temperatures Using Emittance. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	1