Yu-Bin Chen

List of Publications by Year
in descending order

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38	979	932766 10	454577 30
papers	citations	h-index	g-index

39	39	39	1735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Development of chitosan/Î²-glycerophosphate/glycerol hydrogel as a thermosensitive coupling agent. Carbohydrate Polymers, 2016, 147, 409-414.	5.1	35
5	A sound absorption panel containing coiled Helmholtz resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126887.	0.9	34
6	Wavelength-Selective Solar Thermal Absorber With Two-Dimensional Nickel Gratings. Journal of Heat Transfer, 2014, 136, .	1.2	33
7	Impacts of geometric modifications on infrared optical responses of metallic slit arrays. Optics Express, 2009, 17, 9789.	1.7	21
8	Development of an energy-saving glass using two-dimensional periodic nano-structures. Energy and Buildings, 2015, 86, 589-594.	3.1	14
9	Bandwidth broadening for transmission loss of acoustic waves using coupled membrane-ring structure. Materials Research Express, 2016, 3, 105801.	0.8	12
10	Tempering Hemispherical Radiative Properties with a Resonance Compilation. Plasmonics, 2015, 10, 595-603.	1.8	10
11	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
12	Device scaling effect on the spectral-directional absorptance of waferâ€™s front side. International Journal of Heat and Mass Transfer, 2008, 51, 4911-4925.	2.5	9
13	Enhancing solar-thermal energy conversion with silicon-cored tungsten nanowire selective metamaterial absorbers. IScience, 2021, 24, 101899.	1.9	7
14	Development of lightweight energy-saving glass and its near-field electromagnetic analysis. Energy, 2020, 193, 116812.	4.5	6
15	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
16	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
17	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
18	Realization of energy-saving glass using photonic crystals. Frontiers in Energy, 2018, 12, 178-184.	1.2	3

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19	Transparent planar indium tin oxide for a thermo-photovoltaic selective emitter. Optical Materials Express, 2020, 10, 2330.	1.6	3
20	Cryptosystem for plaintext messages utilizing optical properties of gratings. Applied Optics, 2010, 49, 2041.	2.1	2
21	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
22	Modeling transmittance through submicron silver slit arrays. Journal of Central South University, 2012, 19, 2107-2114.	1.2	2
23	Unique scattering patterns and reduced reflectance from Besselâ€™s rough surfaces. Optical Materials Express, 2015, 5, 1016.	1.6	2
24	Designing a Thermal Radiation Oven for Smart Phone Panels. Inventions, 2018, 3, 36.	1.3	2
25	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
26	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
27	Ecoâ€Friendly and Particleâ€Free Copper Ionic Aqueous Precursor for In Situ Low Temperature Photothermal Synthesizing and Patterning of Highly Conductive Copper Microstructures on Flexible Substrate. Advanced Engineering Materials, 0, , 2101069.	1.6	2
28	An electrophoretic-deposited low-cost carbon nanotube (CNT) thermophotovoltaic emitter. , 2018, , .		1
29	Hemispherical radiative properties of complex gratings near the intrinsic band gap. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 270, 107687.	1.1	1
30	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
31	Optical Constants Retrieval from a Thin Film at Elevated Temperatures Using Emittance. Journal Physics D: Applied Physics, 0, , .	1.3	1
32	Realization of energy harvesting and temperature indication functions for zero-energy thermos flask. Energy, 2022, 257, 124718.	4.5	1
33	Modeling infrared radiative properties of nanoscale metallic complex slit arrays. Journal of Central South University, 2014, 21, 3927-3935.	1.2	0
34	Unified fabrication process for complex gratings. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2016, 15, 034502.	1.0	0
35	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
36	Optimizing effectiveness and robustness for solar heat absorbers composed of a periodically nano-structured surface. SN Applied Sciences, 2019, 1, 1.	1.5	0

#	Article	IF	Citations
37	Impacts from triple phases of a germaniumâ€“antimonyâ€“tellurium film coating on thermal emission from SiO2 and boron doped Si. Optical Materials Express, 2021, 11, 3071.	1.6	0
38	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