Junming Zhao

List of Publications by Year
in descending order

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57	1,337	331538	377752
papers	citations	21 h-index	34 g-index

57	57	57	662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resonance enhanced absorption in a graphene monolayer using deep metal gratings. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1176.	0.9	85
2	Long-distance near-field energy transport via propagating surface waves. Physical Review B, 2018, 97, .	1.1	78
3	Optical Properties of Sodium Chloride Solution within the Spectral Range from 300 to 2500 nm at Room Temperature. Applied Spectroscopy, 2015, 69, 635-640.	1.2	72
4	Radiative heat transfer in many-body systems: Coupled electric and magnetic dipole approach. Physical Review B, 2017, 95, .	1.1	72
5	Solution of radiative heat transfer in graded index media by least square spectral element method. International Journal of Heat and Mass Transfer, 2007, 50, 2634-2642.	2.5	57
6	Electromagnetic energy storage and power dissipation in nanostructures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 151, 49-57.	1.1	49
7	Morphological effects on the radiative properties of soot aerosols in different internally mixing states with sulfate. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 165, 43-55.	1.1	48
8	Second-Order Radiative Transfer Equation and Its Properties of Numerical Solution Using the Finite-Element Method. Numerical Heat Transfer, Part B: Fundamentals, 2007, 51, 391-409.	0.6	42
9	Least-Squares Spectral Element Method for Radiative Heat Transfer in Semitransparent Media. Numerical Heat Transfer, Part B: Fundamentals, 2006, 50, 473-489.	0.6	41
10	Discontinuous spectral element method for solving radiative heat transfer in multidimensional semitransparent media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 107, 1-16.	1.1	39
11	Multiple and dependent scattering by densely packed discrete spheres: Comparison of radiative transfer and Maxwell theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 187, 255-266.	1.1	37
12	Near-field radiative heat transfer between clusters of dielectric nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 114-122.	1.1	34
13	Optical properties of edible oils within spectral range from 300 to 2500â€‰â€‰nm determined by double optical pathlength transmission method. Applied Optics, 2015, 54, 3886.	2.1	33
14	Spectral element method for vector radiative transfer equation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 433-446.	1.1	32
15	A second order radiative transfer equation and its solution by meshless method with application to strongly inhomogeneous media. Journal of Computational Physics, 2013, 232, 431-455.	1.9	29
16	Radiative heat transfer between metallic nanoparticle clusters in both near field and far field. Physical Review B, 2019, 99, .	1.1	28
17	Radiative heat transfer and radiative thermal energy for two-dimensional nanoparticle ensembles. Physical Review B, 2020, 102, .	1.1	28
18	Monte Carlo method for polarized radiative transfer in gradient-index media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 152, 114-126.	1.1	27

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19	Dependent scattering and absorption by densely packed discrete spherical particles: Effects of complex refractive index. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 196, 94-102.	1.1	24
20	Many-body effective thermal conductivity in phase-change nanoparticle chains due to near-field radiative heat transfer. International Journal of Heat and Mass Transfer, 2021, 166, 120793.	2.5	24
21	Improved transmission method for measuring the optical extinction coefficient of micro/nano particle suspensions. Applied Optics, 2016, 55, 8171.	2.1	24
22	Recent progress in computational thermal radiative transfer. Science Bulletin, 2009, 54, 4135-4147.	1.7	23
23	GPU-accelerated inverse identification of radiative properties of particle suspensions in liquid by the Monte Carlo method. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 172, 146-159.	1.1	23
24	Meshless Method for Geometry Boundary Identification Problem of Heat Conduction. Numerical Heat Transfer, Part B: Fundamentals, 2009, 55, 135-154.	0.6	21
25	Comparative Study on Accuracy and Solution Cost of the First/Second-Order Radiative Transfer Equations Using the Meshless Method. Numerical Heat Transfer, Part B: Fundamentals, 2009, 55, 324-337.	0.6	21
26	Finite element approach for radiative transfer in multi-layer graded index cylindrical medium with Fresnel surfaces. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 420-432.	1.1	19
27	Radiative transition probabilities between low-lying electronic states of N₂. Molecular Physics, 2019, 117, 2418-2433.	0.8	19
28	Near-field radiative heat transfer between twisted nanoparticle gratings. Applied Physics Letters, 2020, 117, .	1.5	19
29	A New Method for Determining the Optical Constants of Highly Transparent Solids. Applied Spectroscopy, 2017, 71, 70-77.	1.2	18
30	Near-field radiative heat transfer between rough surfaces modeled using effective media with gradient distribution of dielectric function. International Journal of Heat and Mass Transfer, 2019, 142, 118432.	2.5	18
31	Thermal driven wavelength-selective optical switch based on magnetic polaritons coupling. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107230.	1.1	18
32	Hybrid finite volume/ finite element method for radiative heat transfer in graded index media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1826-1835.	1.1	17
33	Near-field radiation assisted smart skin for spacecraft thermal control. International Journal of Thermal Sciences, 2021, 165, 106934.	2.6	17
34	On the derivation of vector radiative transfer equation for polarized radiative transport in graded index media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 239-250.	1.1	15
35	Experimental study of the radiative properties of hedgehog-like ZnOâ€“Au composite particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 232, 93-103.	1.1	15
36	Near-field thermal radiation of gradient refractive index slab: Internal polaritons. Applied Physics Letters, 2021, 119, .	1.5	15

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37	Dependent absorption property of nanoparticle clusters: an investigation of the competing effects in the near field. Optics Express, 2019, 27, A280.	1.7	13
38	Near-field radiative heat transfer in a chain of nanoparticles with another chain in proximity. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 243, 106801.	1.1	12
39	Continuum approach based on radiation distribution function for radiative heat transfer in densely packed particulate system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 253, 107028.	1.1	12
40	Spectral Element Method with Adaptive Artificial Diffusion for Solving the Radiative Transfer Equation. Numerical Heat Transfer, Part B: Fundamentals, 2008, 53, 536-554.	0.6	11
41	A deficiency problem of the least squares finite element method for solving radiative transfer in strongly inhomogeneous media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1488-1502.	1.1	11
42	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
43	Optical extinction characteristics of three biofuel producing microalgae determined by an improved transmission method. Particuology, 2017, 33, 1-10.	2.0	10
44	Temporal scaling of the growth dependent optical properties of microalgae. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 61-70.	1.1	10
45	Microstructure, High-Temperature Wear Resistance, and Corrosion Resistance of Laser Cladded Co-Based Coating. Journal of Materials Engineering and Performance, 2021, 30, 3370-3380.	1.2	10
46	Effect of spine-like surface structures on the radiative properties of microorganism. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 173, 49-64.	1.1	9
47	A Finite-Element Model for the Thermal Radiative Properties of Graded Index Fiber Coated with Thin Absorbing Film. Numerical Heat Transfer; Part A: Applications, 2010, 58, 85-100.	1.2	6
48	A New Stabilized Finite Element Formulation for Solving Radiative Transfer Equation. Journal of Heat Transfer, 2016, 138, .	1.2	6
49	Experimental study of the temporal scaling characteristics of growth-dependent radiative properties of Spirulina platensis. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 453-458.	1.1	6
50	Applicability of Beer's law in particulate system from random to regular arrangement: A numerical evaluation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107938.	1.1	6
51	Photothermal behavior for two-dimensional nanoparticle ensembles: Multiple scattering and thermal accumulation effects. Physical Review B, 2022, 105, .	1.1	6
52	Growth-dependent radiative properties of Chlorella vulgaris and its influence on prediction of light fluence rate in photobioreactor. Journal of Applied Phycology, 2019, 31, 235-247.	1.5	5
53	EXPERIMENTAL STUDY OF THE EFFECTIVE BRDF OF A COPPER FOAM SHEET. , 2013, , .		5
54	Radiative Transfer Equation and Solutions. , 2017, , 1-46.		3

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55	Near-field effects on light absorption in nanoparticle system. , 2017, , .		2
56	The growth dependent radiative properties of microalgae and light field distribution within photobioreactors. , 2017, , .		1
57	Theoretical analysis of radiative properties of pronucleus multicellular cyanobacteria. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 91-102.	1.1	1