

Linhua Liu

List of Publications by Year in descending order

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68
papers

1,079
citations

394421

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454955

30
g-index

68
all docs

68
docs citations

68
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical Failure Mechanism in Stretchable Thin-Film Conductors. ACS Applied Materials & Interfaces, 2022, 14, 3121-3129.	8.0	7
2	Optical theorem of an infinite circular cylinder in weakly absorbing media. Physical Review A, 2022, 105, .	2.5	3
3	Destruction of AlF: a quantum study of its ground-state photodissociation. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3011-3018.	4.4	5
4	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.	4.8	24
5	Discrete dipole approximation method for electromagnetic scattering by particles in an absorbing host medium. Optics Express, 2021, 29, 7690.	3.4	12
6	Rovibrationally resolved direct photodissociation of MgO. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2177-2185.	4.4	8
7	Nonreciprocal thermal radiation of nanoparticles via spin-directional coupling with reciprocal surface modes. Applied Physics Letters, 2021, 119, .	3.3	26
8	Radiative association of atomic and ionic nitrogen. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2930-2936.	4.4	9
9	Rovibrationally Resolved Photodissociation of AlH via Excited Electronic States. Astrophysical Journal, 2021, 917, 87.	4.5	9
10	Advances in Energy-Efficient Plasmonic Electrochromic Smart Windows Based on Metal Oxide Nanocrystals. Advanced Energy and Sustainability Research, 2021, 2, 2100117.	5.8	43
11	Temperature-dependent direct photodissociation cross sections and rates of AlCl. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2848-2854.	4.4	7
12	Engineering the electronic band structure and thermoelectric performance of GeTe via lattice structure manipulation from first-principles. Physical Chemistry Chemical Physics, 2021, 23, 23576-23585.	2.8	6
13	Insights into the thermal conductivity of MOF-5 from first principles. RSC Advances, 2021, 11, 36928-36933.	3.6	8
14	Prediction and Inverse Design of Structural Colors of Nanoparticle Systems via Deep Neural Network. Nanomaterials, 2021, 11, 3339.	4.1	8
15	Advances in Energy-Efficient Plasmonic Electrochromic Smart Windows Based on Metal Oxide Nanocrystals. Advanced Energy and Sustainability Research, 2021, 2, .	5.8	2
16	Rate coefficients of the aluminium monoxide formation by radiative association. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1649-1656.	4.4	7
17	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.	2.3	12
18	Radiative heat transfer and radiative thermal energy for two-dimensional nanoparticle ensembles. Physical Review B, 2020, 102, .	3.2	28

#	ARTICLE	IF	CITATIONS
19	Electric Auxetic Effect in Piezoelectrics. <i>Physical Review Letters</i> , 2020, 125, 197601.	7.8	32
20	Complex refractive indices measurements of polymers in infrared bands. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 252, 107063.	2.3	110
21	Effect of host medium absorption on the radiative properties of dispersed media consisting of optically soft particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107206.	2.3	7
22	Scattering by a charged sphere embedded in an absorbing medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 246, 106908.	2.3	6
23	Radiative association for the formation of MgO. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2496-2502.	4.4	12
24	Growth-dependent radiative properties of <i>Chlorella vulgaris</i> and its influence on prediction of light fluence rate in photobioreactor. <i>Journal of Applied Phycology</i> , 2019, 31, 235-247.	2.8	5
25	Origin of Pyroelectricity in Ferroelectric HfO ₂ . <i>Physical Review Applied</i> , 2019, 12, .	3.8	37
26	Strong interfacial interactions induced a large reduction in lateral thermal conductivity of transition-metal dichalcogenide superlattices. <i>RSC Advances</i> , 2019, 9, 1387-1393.	3.6	7
27	Radiative heat transfer between metallic nanoparticle clusters in both near field and far field. <i>Physical Review B</i> , 2019, 99, .	3.2	28
28	Temperature-dependent optical and electrical properties of bulk Ti ₂ AlC and two-dimensional MXenes from first-principles. <i>Physica B: Condensed Matter</i> , 2019, 560, 146-154.	2.7	12
29	Radiative transition probabilities between low-lying electronic states of N ₂ . <i>Molecular Physics</i> , 2019, 117, 2418-2433.	1.7	19
30	Temperature-dependent dielectric functions of bcc transition metals Cr, Mo, and W from ultraviolet to infrared regions: A theoretical and experimental study. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	11
31	Long-distance near-field energy transport via propagating surface waves. <i>Physical Review B</i> , 2018, 97, .	3.2	78
32	Dielectric function of polycrystalline gold films: Effects of grain boundary and temperature. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	12
33	Hamiltonian adaptive resolution molecular dynamics simulation of infrared dielectric functions of liquids. <i>Journal of Applied Physics</i> , 2018, 123, 205103.	2.5	2
34	Radiative heat transfer in many-body systems: Coupled electric and magnetic dipole approach. <i>Physical Review B</i> , 2017, 95, .	3.2	72
35	Ab initio molecular dynamics study of temperature and pressure-dependent infrared dielectric functions of liquid methanol. <i>AIP Advances</i> , 2017, 7, 035115.	1.3	11
36	Role of electron-phonon coupling in finite-temperature dielectric functions of Au, Ag, and Cu. <i>Physical Review B</i> , 2017, 96, .	3.2	32

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37	A New Method for Determining the Optical Constants of Highly Transparent Solids. Applied Spectroscopy, 2017, 71, 70-77.	2.2	18
38	The growth dependent radiative properties of microalgae and light field distribution within photobioreactors. , 2017, , .		1
39	General design method of ultra-broadband perfect absorbers based on magnetic polaritons. Optics Express, 2017, 25, A980.	3.4	20
40	Near-field effects on light absorption in nanoparticle system. , 2017, , .		2
41	Effects of interlayer screening and temperature on dielectric functions of graphene by first-principles. Journal of Applied Physics, 2016, 120, .	2.5	7
42	Mueller Matrix of Specular Reflection Using an Aluminum Grating Surface with Oxide Nanofilm. Applied Spectroscopy, 2016, 70, 1009-1017.	2.2	0
43	Temperature-dependent dielectric functions in atomically thin graphene, silicene, and arsenene. Applied Physics Letters, 2015, 107, .	3.3	17
44	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
45	Analysis of the radiation heat transfer process of phase change for a liquid droplet radiator in space power systems. Frontiers in Energy, 2011, 5, 166-173.	2.3	8
46	Entropy production analysis of swirling diffusion combustion processes. Frontiers of Energy and Power Engineering in China, 2010, 4, 326-332.	0.4	4
47	Entropy Generation of Coupled Natural Convection and Radiation in Two-dimensional Rectangular Enclosure and Its Evolvement with Time. , 2010, , .		1
48	Radiative Property of Multi-particle Soot Cluster Formed by Different Diameter and Component. , 2010, , .		0
49	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.	2.1	6
50	Inverse Geometry Design of Radiating Enclosure Filled with Participating Media Using Meshless Method. Numerical Heat Transfer; Part A: Applications, 2009, 56, 132-152.	2.1	24
51	Comment on "Recent progress in thermodynamics of radiation" exergy of radiation, effective temperature of photon and entropy constant of photon Science in China Series D: Earth Sciences, 2009, 52, 1809-1810.	0.9	9
52	Recent progress in computational thermal radiative transfer. Science Bulletin, 2009, 54, 4135-4147.	1.7	23
53	Effect of Joule heating on electro-osmotic flow in a closedend micro-channel with isothermal and convective boundary conditions. Frontiers of Energy and Power Engineering in China, 2009, 3, 381-388.	0.4	2
54	Effects of initial parameters on the internal-melt ice-on-tube while icing. Journal of Mechanical Science and Technology, 2009, 23, 1808-1812.	1.5	1

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55	Meshless Method for Geometry Boundary Identification Problem of Heat Conduction. Numerical Heat Transfer, Part B: Fundamentals, 2009, 55, 135-154.	0.9	21
56	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.	0.9	21
57	Spectral Element Method with Adaptive Artificial Diffusion for Solving the Radiative Transfer Equation. Numerical Heat Transfer, Part B: Fundamentals, 2008, 53, 536-554.	0.9	11
58	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.	0.9	42
59	Least-Squares Collocation Meshless Approach for Coupled Radiative and Conductive Heat Transfer. Numerical Heat Transfer, Part B: Fundamentals, 2006, 49, 179-195.	0.9	41
60	Least-Squares Spectral Element Method for Radiative Heat Transfer in Semitransparent Media. Numerical Heat Transfer, Part B: Fundamentals, 2006, 50, 473-489.	0.9	41
61	Study on the imaginary temperature of open boundary wall in cylindrical medium by partition allocation method. Journal of Heat Transfer, 2005, 127, 791-793.	2.1	4
62	Apparent emissivity of an absorbing-emitting-scattering semitransparent slab with variable spatial refractive index. Heat and Mass Transfer, 2004, 40, 877-880.	2.1	9
63	Effects of local non-uniform particle temperature on radiative heat transfer in particulate systems. Heat and Mass Transfer, 2003, 39, 849-851.	2.1	2
64	Temperature response in an absorbing medium caused by a laser pulse. Heat Transfer - Asian Research, 2002, 31, 331-343.	2.8	0
65	Monte Carlo method for simulating the radiative characteristics of an anisotropic medium. Heat Transfer - Asian Research, 1999, 28, 201-210.	2.8	2
66	Inverse radiation problem of boundary incident radiation heat flux in semitransparent planar slab with semitransparent boundaries. Journal of Thermal Science, 1998, 7, 131-138.	1.9	12
67	Inverse radiation problem in one-dimensional semitransparent plane-parallel media. Journal of Thermal Science, 1998, 7, 246-254.	1.9	1
68	Thermodynamic and radiative properties of TiO in local thermal equilibrium and non-equilibrium conditions. Molecular Physics, 0, , e1953174.	1.7	2