

# Jaona Harifidy Randrianalisoa

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,264  
citations

279798

23  
h-index

377865

34  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Comparison of Photothermal Heat Generation between Gold Nanospheres and Nanorods. <i>Scientific Reports</i> , 2016, 6, 29836.	3.3	114
2	Modified two-flux approximation for identification of radiative properties of absorbing and scattering media from directional-hemispherical measurements. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 91.	1.5	94
3	Use of Mie theory to analyze experimental data to identify infrared properties of fused quartz containing bubbles. <i>Applied Optics</i> , 2005, 44, 7021.	2.1	80
4	Radiative properties of densely packed spheres in semitransparent media: A new geometric optics approach. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 1372-1388.	2.3	63
5	Monte Carlo Simulation of Steady-State Microscale Phonon Heat Transport. <i>Journal of Heat Transfer</i> , 2008, 130, .	2.1	56
6	Infrared radiative properties of polymer coatings containing hollow microspheres. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1516-1527.	4.8	54
7	Approximate analytical solution to normal emittance of semi-transparent layer of an absorbing, scattering, and refracting medium. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1987-1994.	2.3	50
8	Thermal conductive and radiative properties of solid foams: Traditional and recent advanced modelling approaches. <i>Comptes Rendus Physique</i> , 2014, 15, 683-695.	0.9	42
9	On snowpack heating by solar radiation: A computational model. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 227, 72-85.	2.3	42
10	Improved Inverse Method for Radiative Characteristics of Closed-Cell Absorbing Porous Media. <i>Journal of Thermophysics and Heat Transfer</i> , 2006, 20, 871-883.	1.6	41
11	THERMAL RADIATION PROPERTIES OF HIGHLY POROUS CELLULAR FOAMS. <i>Special Topics and Reviews in Porous Media</i> , 2013, 4, 111-136.	1.1	41
12	Pyrolysis-catalytic upgrading of bio-oil and pyrolysis-catalytic steam reforming of biogas: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 2825-2872.	16.2	40
13	Microstructure effects on thermal conductivity of open-cell foams generated from the Laguerre-Voronoi tessellation method. <i>International Journal of Thermal Sciences</i> , 2015, 98, 277-286.	4.9	38
14	SIMPLIFIED APPROACHES TO RADIATIVE TRANSFER SIMULATIONS IN LASER-INDUCED HYPERTHERMIA OF SUPERFICIAL TUMORS. <i>Computational Thermal Sciences</i> , 2013, 5, 521-530.	0.9	38
15	Monte Carlo simulation of cross-plane thermal conductivity of nanostructured porous silicon films. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	33
16	Modeling radiation characteristics of semitransparent media containing bubbles or particles. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 1645.	1.5	31
17	Analytical model of radiative properties of packed beds and dispersed media. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 264-275.	4.8	30
18	MICROSCALE DIRECT CALCULATION OF SOLID PHASE CONDUCTIVITY OF VORONOI'S FOAMS. <i>Journal of Porous Media</i> , 2013, 16, 411-426.	1.9	30

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19	Radiative characterization of random fibrous media with long cylindrical fibers: Comparison of single- and multi-RTE approaches. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 220-232.	2.3	28
20	Radiative Transfer in Dispersed Media: Comparison Between Homogeneous Phase and Multiphase Approaches. Journal of Heat Transfer, 2010, 132, .	2.1	27
21	High Temperature Infrared Properties of <sc>YSZ</sc> Electrolyte Ceramics for <sc>SOFCs</sc>: Experimental Determination and Theoretical Modeling. Journal of the American Ceramic Society, 2011, 94, 4310-4316.	3.8	26
22	Effects of short-pulsed laser radiation on transient heating of superficial human tissues. International Journal of Heat and Mass Transfer, 2014, 78, 488-497.	4.8	26
23	Effect of Morphology on Spectral Radiative Properties of Three-Dimensionally Ordered Macroporous Ceria Packed Bed. Journal of Heat Transfer, 2013, 135, .	2.1	23
24	Tuning the Gold Nanoparticle Colorimetric Assay by Nanoparticle Size, Concentration, and Size Combinations for Oligonucleotide Detection. ACS Sensors, 2017, 2, 1627-1636.	7.8	23
25	Transient Photoinactivation of Cell Membrane Protein Activity without Genetic Modification by Molecular Hyperthermia. ACS Nano, 2019, 13, 12487-12499.	14.6	21
26	COMPUTATIONAL PREDICTION OF RADIATIVE PROPERTIES OF POLYMER CLOSED-CELL FOAMS WITH RANDOM STRUCTURE. Journal of Porous Media, 2013, 16, 137-154.	1.9	20
27	Combined Analytical and Phonon Tracking Approaches to Model Thermal Conductivity of Etched and Annealed Nanoporous Silicon. Advanced Engineering Materials, 2009, 11, 852-861.	3.5	18
28	Understanding the Collective Optical Properties of Complex Plasmonic Vesicles. Advanced Optical Materials, 2017, 5, 1700403.	7.3	16
29	Effect of pore-level geometry on far-field radiative properties of three-dimensionally ordered macroporous ceria particle. Applied Optics, 2014, 53, 1290.	1.8	13
30	Directional reflectance of optically dense planetary atmosphere illuminated by solar light: An approximate solution and its verification. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 208, 78-85.	2.3	12
31	Ultrafast Pulsed Laser Induced Nanocrystal Transformation in Colloidal Plasmonic Vesicles. Advanced Optical Materials, 2018, 6, 1800726.	7.3	10
32	Detailed Analysis of Gas, Char and Bio-oil Products of Oak Wood Pyrolysis at Different Operating Conditions. Waste and Biomass Valorization, 2023, 14, 325-343.	3.4	9
33	Experimental characterization of radiative transfer in semi-transparent composite materials with rough boundaries. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107300.	2.3	8
34	On the thermomechanical behavior of two-dimensional foam/metal joints with shear-deformable adherends – Parametric study. Composites Part B: Engineering, 2011, 42, 2055-2066.	12.0	7
35	Effect of air confinement on thermal contact resistance in nanoscale heat transfer. Journal Physics D: Applied Physics, 2018, 51, 125301.	2.8	7
36	Computational Investigation of Protein Photoinactivation by Molecular Hyperthermia. Journal of Biomechanical Engineering, 2021, 143, .	1.3	7

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37	Nanoparticle Fragmentation below the Melting Point under Single Picosecond Laser Pulse Stimulation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26718-26730.	3.1	7
38	Optical properties of oakwood in the near-infrared range of semi-transparency. <i>Applied Optics</i> , 2018, 57, 6657.	1.8	5
39	Monte Carlo prediction of ballistic effect on phonon transport in silicon in the presence of small localized heat source. <i>Nanotechnology</i> , 2019, 30, 415403.	2.6	5
40	Temperature-controlled spectrophotometry: a simultaneous analysis of phase transition, thermal degradation and optical properties of semi-transparent composites from 20 Å°C to 450 Å°C. <i>Optics Express</i> , 2022, 30, 21125.	3.4	5
41	Materials Selection for Optimal Design of a Porous Radiant Burner for Environmentally Driven Requirements. <i>Advanced Engineering Materials</i> , 2009, 11, 1049-1056.	3.5	4
42	Curvature and temperature-dependent thermal interface conductance between nanoscale-gold and water. <i>Journal of Chemical Physics</i> , 0, , .	3.0	4
43	On the thermomechanical behavior of two-dimensional foam/metal joints with shear-deformable adherends: Model validation with FE analysis. <i>International Journal of Adhesion and Adhesives</i> , 2012, 37, 11-18.	2.9	3
44	Temperature dependent radiative properties of semi-transparent fiberglass-epoxy composite materials from 20 Å°C to 200 Å°C. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122319.	4.8	3
45	Single pulse heating of a nanoparticle array for biological applications. <i>Nanoscale Advances</i> , 2022, 4, 2090-2097.	4.6	3
46	Catalysts for steam reforming of biomass tar and their effects on the products. , 2022, , 249-295.		2
47	Ablative degradation of cryogenic thermal protection and fuel boil-off: Improvement of using graded density insulators. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4864-4874.	4.8	1
48	Effect of Morphology on Spectral Radiative Properties of Three-Dimensionally Ordered Macroporous Ceria Packed Bed. , 2013, , .		1
49	A Multidisciplinary Approach to Improve Energetic Performance in Smart Buildings. <i>IFAC-PapersOnLine</i> , 2016, 49, 313-317.	0.9	1
50	Morphological and effective transport properties of fixed beds of wood chips: Toward realistic modeling of low-temperature pyrolysis. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 013101.	2.0	1
51	SPECTRAL RADIATIVE PROPERTIES OF THREE-Dimensionally ORDERED MACROPOROUS CERIA PARTICLES. , 2013, , .		1
52	Independent and Dependent Scattering for Semitransparent Media Containing Bubbles. , 2004, , 297.		0
53	Monte Carlo simulation of phonon transport across Si-Si and SiO2 interfaces. , 2015, , .		0
54	COMPUTATIONAL PREDICTION OF RADIATIVE PROPERTIES OF POLYMER CLOSED-CELL FOAMS WITH RANDOM STRUCTURE. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
55	THERMAL CONDUCTIVITY OF OPEN- AND CLOSED-CELL FOAMS: INFLUENCES OF CELL RANDOMNESS. , 2012, , .		0
56	COMBINED HEAT TRANSFER IN A SNOWPACK HEATED BY SOLAR RADIATION. , 2019, , .		0
57	ALTERNATIVE MODELS FOR OPTICAL PROPERTIES OF A HIGHLY-POROUS MEDIUM COMPOSED OF WOOD CHIPS. , 2019, , .		0