

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 | Detailed Analysis of Gas, Char and Bio-oil Products of Oak Wood Pyrolysis at Different Operating Conditions. <i>Waste and Biomass Valorization</i> , 2023, 14, 325-343. | 3.4 | 9 |
| 2 | Temperature dependent radiative properties of semi-transparent fiberglass-epoxy composite materials from 20â€°C to 200â€°C. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122319. | 4.8 | 3 |
| 3 | Single pulse heating of a nanoparticle array for biological applications. <i>Nanoscale Advances</i> , 2022, 4, 2090-2097. | 4.6 | 3 |
| 4 | Temperature-controlled spectrophotometry: a simultaneous analysis of phase transition, thermal degradation and optical properties of semi-transparent composites from 20 Â°C to 450 Â°C. <i>Optics Express</i> , 2022, 30, 21125. | 3.4 | 5 |
| 5 | Catalysts for steam reforming of biomass tar and their effects on the products. , 2022, , 249-295. | | 2 |
| 6 | 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 |
| 7 | Computational Investigation of Protein Photoinactivation by Molecular Hyperthermia. <i>Journal of Biomechanical Engineering</i> , 2021, 143, . | 1.3 | 7 |
| 8 | 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 |
| 9 | Experimental characterization of radiative transfer in semi-transparent composite materials with rough boundaries. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 256, 107300. | 2.3 | 8 |
| 10 | 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 |
| 11 | 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 |
| 12 | Transient Photoinactivation of Cell Membrane Protein Activity without Genetic Modification by Molecular Hyperthermia. <i>ACS Nano</i> , 2019, 13, 12487-12499. | 14.6 | 21 |
| 13 | 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 |
| 14 | COMBINED HEAT TRANSFER IN A SNOWPACK HEATED BY SOLAR RADIATION. , 2019, , . | | 0 |
| 15 | ALTERNATIVE MODELS FOR OPTICAL PROPERTIES OF A HIGHLY-POROUS MEDIUM COMPOSED OF WOOD CHIPS. , 2019, , . | | 0 |
| 16 | Effect of air confinement on thermal contact resistance in nanoscale heat transfer. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 125301. | 2.8 | 7 |
| 17 | Directional reflectance of optically dense planetary atmosphere illuminated by solar light: An approximate solution and its verification. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018, 208, 78-85. | 2.3 | 12 |
| 18 | Ultrafast Pulsed Laser Induced Nanocrystal Transformation in Colloidal Plasmonic Vesicles. <i>Advanced Optical Materials</i> , 2018, 6, 1800726. | 7.3 | 10 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Optical properties of oakwood in the near-infrared range of semi-transparency. Applied Optics, 2018, 57, 6657. | 1.8 | 5 |
| 20 | 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 |
| 21 | Understanding the Collective Optical Properties of Complex Plasmonic Vesicles. Advanced Optical Materials, 2017, 5, 1700403. | 7.3 | 16 |
| 22 | 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 |
| 23 | A Multidisciplinary Approach to Improve Energetic Performance in Smart Buildings. IFAC-PapersOnLine, 2016, 49, 313-317. | 0.9 | 1 |
| 24 | Quantitative Comparison of Photothermal Heat Generation between Gold Nanospheres and Nanorods. Scientific Reports, 2016, 6, 29836. | 3.3 | 114 |
| 25 | Monte Carlo simulation of phonon transport across Si-Si and SiO ₂ interfaces. , 2015, , . | | 0 |
| 26 | Microstructure effects on thermal conductivity of open-cell foams generated from the Laguerre-Voronoi tessellation method. International Journal of Thermal Sciences, 2015, 98, 277-286. | 4.9 | 38 |
| 27 | 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 |
| 28 | Analytical model of radiative properties of packed beds and dispersed media. International Journal of Heat and Mass Transfer, 2014, 70, 264-275. | 4.8 | 30 |
| 29 | 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 |
| 30 | Thermal conductive and radiative properties of solid foams: Traditional and recent advanced modelling approaches. Comptes Rendus Physique, 2014, 15, 683-695. | 0.9 | 42 |
| 31 | Effect of Morphology on Spectral Radiative Properties of Three-Dimensionally Ordered Macroporous Ceria Packed Bed. Journal of Heat Transfer, 2013, 135, . | 2.1 | 23 |
| 32 | Effect of Morphology on Spectral Radiative Properties of Three-Dimensionally Ordered Macroporous Ceria Packed Bed. , 2013, , . | | 1 |
| 33 | SIMPLIFIED APPROACHES TO RADIATIVE TRANSFER SIMULATIONS IN LASER-INDUCED HYPERTHERMIA OF SUPERFICIAL TUMORS. Computational Thermal Sciences, 2013, 5, 521-530. | 0.9 | 38 |
| 34 | SPECTRAL RADIATIVE PROPERTIES OF THREE-DIMENSIONALLY ORDERED MACROPOROUS CERIA PARTICLES. , 2013, , . | | 1 |
| 35 | COMPUTATIONAL PREDICTION OF RADIATIVE PROPERTIES OF POLYMER CLOSED-CELL FOAMS WITH RANDOM STRUCTURE. Journal of Porous Media, 2013, 16, 137-154. | 1.9 | 20 |
| 36 | MICROSCALE DIRECT CALCULATION OF SOLID PHASE CONDUCTIVITY OF VORONOI'S FOAMS. Journal of Porous Media, 2013, 16, 411-426. | 1.9 | 30 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | THERMAL RADIATION PROPERTIES OF HIGHLY POROUS CELLULAR FOAMS. Special Topics and Reviews in Porous Media, 2013, 4, 111-136. | 1.1 | 41 |
| 38 | On the thermomechanical behavior of two-dimensional foam/metal joints with shear-deformable adherends: Model validation with FE analysis. International Journal of Adhesion and Adhesives, 2012, 37, 11-18. | 2.9 | 3 |
| 39 | COMPUTATIONAL PREDICTION OF RADIATIVE PROPERTIES OF POLYMER CLOSED-CELL FOAMS WITH RANDOM STRUCTURE. , 2012, , . | | 0 |
| 40 | THERMAL CONDUCTIVITY OF OPEN- AND CLOSED-CELL FOAMS: INFLUENCES OF CELL RANDOMNESS. , 2012, , . | | 0 |
| 41 | High Temperature Infrared Properties of <scp>YSZ</scp> Electrolyte Ceramics for <scp>SOFCs</scp>: Experimental Determination and Theoretical Modeling. Journal of the American Ceramic Society, 2011, 94, 4310-4316. | 3.8 | 26 |
| 42 | 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 |
| 43 | Ablative degradation of cryogenic thermal protection and fuel boil-off: Improvement of using graded density insulators. International Journal of Heat and Mass Transfer, 2011, 54, 4864-4874. | 4.8 | 1 |
| 44 | Approximate analytical solution to normal emittance of semi-transparent layer of an absorbing, scattering, and refracting medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1987-1994. | 2.3 | 50 |
| 45 | Radiative properties of densely packed spheres in semitransparent media: A new geometric optics approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1372-1388. | 2.3 | 63 |
| 46 | Radiative Transfer in Dispersed Media: Comparison Between Homogeneous Phase and Multiphase Approaches. Journal of Heat Transfer, 2010, 132, . | 2.1 | 27 |
| 47 | Materials Selection for Optimal Design of a Porous Radiant Burner for Environmentally Driven Requirements. Advanced Engineering Materials, 2009, 11, 1049-1056. | 3.5 | 4 |
| 48 | 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 |
| 49 | Monte Carlo simulation of cross-plane thermal conductivity of nanostructured porous silicon films. Journal of Applied Physics, 2008, 103, . | 2.5 | 33 |
| 50 | Monte Carlo Simulation of Steady-State Microscale Phonon Heat Transport. Journal of Heat Transfer, 2008, 130, . | 2.1 | 56 |
| 51 | Infrared radiative properties of polymer coatings containing hollow microspheres. International Journal of Heat and Mass Transfer, 2007, 50, 1516-1527. | 4.8 | 54 |
| 52 | Modified two-flux approximation for identification of radiative properties of absorbing and scattering media from directional-hemispherical measurements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 91. | 1.5 | 94 |
| 53 | Modeling radiation characteristics of semitransparent media containing bubbles or particles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 1645. | 1.5 | 31 |
| 54 | Improved Inverse Method for Radiative Characteristics of Closed-Cell Absorbing Porous Media. Journal of Thermophysics and Heat Transfer, 2006, 20, 871-883. | 1.6 | 41 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Use of Mie theory to analyze experimental data to identify infrared properties of fused quartz containing bubbles. Applied Optics, 2005, 44, 7021. | 2.1 | 80 |
| 56 | Independent and Dependent Scattering for Semitransparent Media Containing Bubbles. , 2004, , 297. | | 0 |
| 57 | Curvature and temperature-dependent thermal interface conductance between nanoscale-gold and water. Journal of Chemical Physics, 0, , . | 3.0 | 4 |