

# Vaithinathan Karthikeyan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/830196/publications.pdf>

Version: 2024-02-01

28  
papers

434  
citations

840776

11  
h-index

752698

20  
g-index

28  
all docs

28  
docs citations

28  
times ranked

498  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Wearable and flexible thin film thermoelectric module for multi-scale energy harvesting. <i>Journal of Power Sources</i> , 2020, 455, 227983.  | 7.8 | 85        |
| 2  | Glass-to-glass encapsulation with ultraviolet light curable epoxy edge sealing for stable perovskite solar cells. <i>Materials Letters</i> , 2019, 250, 51-54.   | 2.6 | 51        |
| 3  | Experimental studies on photovoltaic module temperature reduction using eutectic cold phase change material. <i>Solar Energy</i> , 2020, 209, 302-315.   | 6.1 | 39        |
| 4  | Polyethylene Glycol Coated Magnetic Nanoparticles: Hybrid Nanofluid Formulation, Properties and Drug Delivery Prospects. <i>Nanomaterials</i> , 2021, 11, 440.   | 4.1 | 34        |
| 5  | Hydrothermally tailored anatase TiO <sub>2</sub> nanoplates with exposed {1 1 1} facets for highly efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 147, 202-208.   | 6.1 | 26        |
| 6  | Dislocation-induced ultra-low lattice thermal conductivity in rare earth doped $\text{Zn}_4\text{Sb}_3$ . <i>Scripta Materialia</i> , 2020, 174, 95-101.   | 5.2 | 14        |
| 7  | Defect and Dopant Mediated Thermoelectric Power Factor Tuning in $\text{Zn}_4\text{Sb}_3$ . <i>Advanced Electronic Materials</i> , 2020, 6, 1901284.   | 5.1 | 14        |
| 8  | Defect Engineering Boosted Ultrahigh Thermoelectric Power Conversion Efficiency in Polycrystalline SnSe. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58701-58711.  | 8.0 | 14        |
| 9  | Tuning the photoluminescence, conduction mechanism and scattering mechanism of ZnSnN <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , 2019, 779, 237-243.   | 5.5 | 13        |
| 10 | A Comparative Evaluation of Physicochemical Properties and Photocatalytic Efficiencies of Cerium Oxide and Copper Oxide Nanofluids. <i>Catalysts</i> , 2020, 10, 34.   | 3.5 | 13        |
| 11 | Hierarchically Interlaced 2D Copper Iodide/MXene Composite for High Thermoelectric Performance. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100419.   | 2.4 | 13        |
| 12 | Experimental Studies on PV Module Cooling With Radiation Source PCM Matrix. <i>IEEE Access</i> , 2020, 8, 145936-145949.   | 4.2 | 12        |
| 13 | A Review of Heat Batteries Based PV Module Cooling Case Studies on Performance Enhancement of Large-Scale Solar PV System. <i>Sustainability</i> , 2022, 14, 1963.   | 3.2 | 11        |
| 14 | Influence of nitrogen dopant source on the structural, photoluminescence and electrical properties of ZnO thin films deposited by pulsed spray pyrolysis. <i>Ceramics International</i> , 2019, 45, 24324-24330.                             | 4.8 | 10        |
| 15 | Improving the chemical potential of nitrogen to tune the electron density and mobility of ZnSnN <sub>2</sub> . <i>Journal of Materials Chemistry C</i> , 2020, 8, 4314-4320.   | 5.5 | 10        |
| 16 | Efficient heat batteries for performance boosting in solar thermal cooking module. <i>Journal of Cleaner Production</i> , 2021, 324, 129223.   | 9.3 | 10        |
| 17 | Investigations on the correlation between surface texturing histogram and the spectral reflectance of (100) Crystalline Silicon Substrate textured using anisotropic etching. <i>Sensors and Actuators A: Physical</i> , 2017, 263, 445-450. | 4.1 | 7         |
| 18 | Highly Sensitive and Cost-Effective Portable Sensor for Early Gastric Carcinoma Diagnosis. <i>Sensors</i> , 2021, 21, 2639.  | 3.8 | 7         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Ambient processed perovskite sensitized porous TiO <sub>2</sub> nanorods for highly efficient and stable perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161061.   | 5.5 | 7         |
| 20 | Amorphous carbon nano-inclusions for strategical enhancement of thermoelectric performance in Earth-abundant Cu <sub>3</sub> SbS <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2022, 900, 163433.                                      | 5.5 | 7         |
| 21 | Contactless phase change material based photovoltaic module cooling: A statistical approach by clustering and correlation algorithm. <i>Journal of Energy Storage</i> , 2022, 53, 105139.  | 8.1 | 7         |
| 22 | Fabricating ZnSnN <sub>2</sub> with cosputtering. <i>Surface and Coatings Technology</i> , 2019, 359, 169-174.   | 4.8 | 6         |
| 23 | Hierarchical Sn and AgCl co-doped TiO <sub>2</sub> microspheres as electron transport layer for enhanced perovskite solar cell performance. <i>Catalysis Today</i> , 2020, 355, 333-339.   | 4.4 | 6         |
| 24 | 3D Microstructured Frequency Selective Surface Based on Carbonized Polyimide Films for Terahertz Applications. <i>Advanced Optical Materials</i> , 2022, 10, .   | 7.3 | 5         |
| 25 | Gating a Single Cell: A Label-Free and Real-Time Measurement Method for Cellular Progression. <i>Analytical Chemistry</i> , 2020, 92, 1738-1745.   | 6.5 | 4         |
| 26 | New monomeric mixed-ligand complex of iron(III)-3-chloropyridine: Synthesis, structure, luminescence, electrochemical and magnetic properties. <i>Journal of Molecular Structure</i> , 2021, 1225, 129160.                                       | 3.6 | 4         |
| 27 | Facile Use of Silver Nanoparticles-Loaded Alumina/Silica in Nanofluid Formulations for Enhanced Catalytic Performance toward 4-Nitrophenol Reduction. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2994. | 2.6 | 4         |
| 28 | Thermoelectric properties of sulfide and selenide-based materials. , 2022, , 293-328.  |     | 1         |