

# Vaithinathan Karthikeyan

## List of Publications by Year in descending order

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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	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
2	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
3	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
4	3D Microstructured Frequency Selective Surface Based on Carbonized Polyimide Films for Terahertz Applications. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	5
5	Thermoelectric properties of sulfide and selenide-based materials. , 2022, , 293-328.		1
6	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
7	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
8	Polyethylene Glycol Coated Magnetic Nanoparticles: Hybrid Nanofluid Formulation, Properties and Drug Delivery Prospects. <i>Nanomaterials</i> , 2021, 11, 440.	4.1	34
9	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
10	Highly Sensitive and Cost-Effective Portable Sensor for Early Gastric Carcinoma Diagnosis. <i>Sensors</i> , 2021, 21, 2639.	3.8	7
11	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
12	Efficient heat batteries for performance boosting in solar thermal cooking module. <i>Journal of Cleaner Production</i> , 2021, 324, 129223.	9.3	10
13	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
14	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
15	Dislocation-induced ultra-low lattice thermal conductivity in rare earth doped $\hat{1}^2$ -Zn <sub>4</sub> Sb <sub>3</sub> . <i>Scripta Materialia</i> , 2020, 174, 95-101.	5.2	14
16	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
17	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
18	Experimental studies on photovoltaic module temperature reduction using eutectic cold phase change material. <i>Solar Energy</i> , 2020, 209, 302-315.	6.1	39

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19	Experimental Studies on PV Module Cooling With Radiation Source PCM Matrix. IEEE Access, 2020, 8, 145936-145949.	4.2	12
20	Improving the chemical potential of nitrogen to tune the electron density and mobility of ZnSnN <sub>2</sub> . Journal of Materials Chemistry C, 2020, 8, 4314-4320.	5.5	10
21	Defect and Dopant Mediated Thermoelectric Power Factor Tuning in $\text{Zn}_4\text{Sb}_3$ . Advanced Electronic Materials, 2020, 6, 1901284.	5.1	14
22	Wearable and flexible thin film thermoelectric module for multi-scale energy harvesting. Journal of Power Sources, 2020, 455, 227983.	7.8	85
23	Influence of nitrogen dopant source on the structural, photoluminescence and electrical properties of ZnO thin films deposited by pulsed spray pyrolysis. Ceramics International, 2019, 45, 24324-24330.	4.8	10
24	Glass-to-glass encapsulation with ultraviolet light curable epoxy edge sealing for stable perovskite solar cells. Materials Letters, 2019, 250, 51-54.	2.6	51
25	Fabricating ZnSnN <sub>2</sub> with cosputtering. Surface and Coatings Technology, 2019, 359, 169-174.	4.8	6
26	Tuning the photoluminescence, conduction mechanism and scattering mechanism of ZnSnN <sub>2</sub> . Journal of Alloys and Compounds, 2019, 779, 237-243.	5.5	13
27	Hydrothermally tailored anatase TiO <sub>2</sub> nanoplates with exposed {1 1 1} facets for highly efficient dye-sensitized solar cells. Solar Energy, 2017, 147, 202-208.	6.1	26
28	Investigations on the correlation between surface texturing histogram and the spectral reflectance of (100) Crystalline Silicon Substrate textured using anisotropic etching. Sensors and Actuators A: Physical, 2017, 263, 445-450.	4.1	7