

# Easwaramoorthi Ramasamy

## List of Publications by Year in descending order

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62  
papers

3,667  
citations

172386

29  
h-index

149623

56  
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63  
all docs

63  
docs citations

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times ranked

4094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-functional inorganic CuSCN for efficient hole extraction and moisture sealing of MAPbI <sub>3</sub> perovskite solar cells. <i>Materials Advances</i> , 2022, 3, 2000-2010.	2.6	10
2	Oxide free materials for perovskite solar cells. , 2022, , 287-306.		2
3	Large area bar coated TiO <sub>2</sub> electron transport layers for perovskite solar cells with excellent performance homogeneity. <i>Solar Energy</i> , 2022, 240, 258-268.	2.9	13
4	Vacancies induced enhancement in neodymium doped titania photoanodes based sensitized solar cells and photo-electrochemical cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 220, 110843.	3.0	24
5	Ambient condition curable, highly weather stable anti-soiling coating for photovoltaic application. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111203.	3.0	8
6	Rapid assessment of photovoltaic activity of perovskite solar cells by photoluminescence spectroscopy. <i>Materials Letters</i> , 2021, 299, 130056.	1.3	8
7	Temperature dependence of MAPbI <sub>3</sub> films by quasi-vapor deposition technique and impact on photovoltaic performance and stability of perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161448.	2.8	5
8	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.	2.8	7
9	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.	2.2	6
10	Prickly pear fruit extract as photosensitizer for dye-sensitized solar cell. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117686.	2.0	25
11	Single layer hollow MgF <sub>2</sub> nanoparticles as high-performance omnidirectional broadband antireflective coating for solar application. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110680.	3.0	11
12	Stability of MAPbI <sub>3</sub> perovskite grown on planar and mesoporous electron-selective contact by inverse temperature crystallization. <i>RSC Advances</i> , 2020, 10, 30767-30775.	1.7	12
13	Synthesis, characterization, and dye-sensitized solar cell fabrication using potato starch and potato starch nanocrystal based gel electrolytes. <i>Ionics</i> , 2019, 25, 6035-6042.	1.2	15
14	Room-temperature curable carbon cathode for hole-conductor free perovskite solar cells. <i>Solar Energy</i> , 2019, 187, 261-268.	2.9	20
15	Output current enhancement of hexylthiophene functionalized D <sup>+</sup> -extended A triphenylamine in dye sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 10834-10840.	1.4	5
16	Glass-to-glass encapsulation with ultraviolet light curable epoxy edge sealing for stable perovskite solar cells. <i>Materials Letters</i> , 2019, 250, 51-54.	1.3	51
17	Hole-conductor free ambient processed mixed halide perovskite solar cells. <i>Materials Letters</i> , 2019, 245, 226-229.	1.3	17
18	Economical and Highly Efficient Non-Metal Counter Electrode Materials for Stable Dye-Sensitized Solar Cells. , 2019, , 397-435.		5

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19	Design, synthesis of organic sensitizers containing carbazole and triphenylamine $\pi$ -bridged moiety for dye-sensitized solar cells. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1923-1937.	1.2	10
20	Recent advancement in metal cathode and hole-conductor-free perovskite solar cells for low-cost and high stability: A route towards commercialization. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 845-857.	8.2	83
21	Perovskite Solar Cell Architectures. , 2018, , 89-121.		3
22	Hole Conductorâ€“Free Perovskite Solar Cells. , 2018, , 289-321.		1
23	Flexible Perovskite Solar Cells. , 2018, , 341-371.		4
24	Effect of hole-transporting materials on the photovoltaic performance and stability of all-ambient-processed perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2017, 26, 584-591.	7.1	19
25	<sup>119</sup> Sn MÃƒssbauer and Ferromagnetic Studies on Hierarchical Tin- and Nitrogen-Codoped TiO <sub>2</sub> Microspheres with Efficient Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6662-6673.	1.5	17
26	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.	2.9	26
27	Seed layer-assisted low temperature solution growth of 3D ZnO nanowall architecture for hybrid solar cells. <i>Materials and Design</i> , 2017, 116, 219-226.	3.3	22
28	Rapid and scalable synthesis of crystalline tin oxide nanoparticles with superior photovoltaic properties by flame oxidation. <i>MRS Communications</i> , 2017, 7, 862-866.	0.8	6
29	High performance broad band antireflective coatings using a facile synthesis of ink-bottle mesoporous MgF <sub>2</sub> nanoparticles for solar applications. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 204-211.	3.0	48
30	Novel Rice Starch based aqueous gel electrolyte for Dye Sensitized Solar Cell Application. <i>Materials Today: Proceedings</i> , 2017, 4, 12238-12244.	0.9	16
31	Stibnite sensitized hollow cubic TiO <sub>2</sub> photoelectrodes for organic-inorganic heterojunction solar cells. <i>Solar Energy</i> , 2017, 157, 434-440.	2.9	6
32	Facile control of intra- and inter-particle porosity in template-free synthesis of size-controlled mesoporous titanium dioxides beads for efficient organicâ€“inorganic heterojunction solar cells. <i>Journal of Power Sources</i> , 2015, 279, 72-79.	4.0	6
33	Spray coated seed layer for scalable synthesis of aligned ZnO nanowire arrays on FTO substrate and their photovoltaic properties. <i>Ceramics International</i> , 2015, 41, 4118-4122.	2.3	16
34	Multi-Functionality of Macroporous TiO <sub>2</sub> Spheres in Dye-Sensitized and Hybrid Heterojunction Solar Cells. <i>Langmuir</i> , 2014, 30, 3010-3018.	1.6	38
35	Ordered Mesoporous Tungsten Suboxide Counter Electrode for Highly Efficient Iodineâ€“Free Electrolyteâ€“Based Dyeâ€“Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 299-307.	3.6	26
36	Soft-Template Simple Synthesis of Ordered Mesoporous Titanium Nitride-Carbon Nanocomposite for High Performance Dye-Sensitized Solar Cell Counter Electrodes. <i>Chemistry of Materials</i> , 2012, 24, 1575-1582.	3.2	112

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37	Amorphous carbon as a flexible counter electrode for low cost and efficient dye sensitized solar cell. <i>Renewable Energy</i> , 2012, 41, 383-388.	4.3	56
38	Rapid ( $\approx 10$ min) synthesis of single-crystalline, nanorice TiO <sub>2</sub> mesoparticles with a high photovoltaic efficiency of above 8%. <i>Chemical Communications</i> , 2011, 47, 8572.	2.2	21
39	Ordered mesoporous Zn-doped SnO <sub>2</sub> synthesized by exotemplating for efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 2529.	15.6	72
40	Sub-micrometer-sized Graphite As a Conducting and Catalytic Counter Electrode for Dye-sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 857-862.	4.0	243
41	Highly Efficient and Durable Quantum Dot Sensitized ZnO Nanowire Solar Cell Using Noble-Metal-Free Counter Electrode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22018-22024.	1.5	99
42	Carbon-nanofiber counter electrodes for quasi-solid state dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 10798-10805.	4.0	69
43	Easy access to highly crystalline mesoporous transition-metal oxides with controllable uniform large pores by using block copolymers synthesized via atom transfer radical polymerization. <i>Microporous and Mesoporous Materials</i> , 2011, 143, 149-156.	2.2	29
44	Well-dispersed Pd <sub>3</sub> Pt <sub>1</sub> alloy nanoparticles in large pore sized mesocellular carbon foam for improved methanol-tolerant oxygen reduction reaction. <i>Carbon</i> , 2011, 49, 1108-1117.	5.4	49
45	Robust mesocellular carbon foam counter electrode for quantum-dot sensitized solar cells. <i>Electrochemistry Communications</i> , 2011, 13, 34-37.	2.3	60
46	Ag grid induced photocurrent enhancement in WO <sub>3</sub> photoanodes and their scale-up performance toward photoelectrochemical H <sub>2</sub> generation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5262-5270.	3.8	89
47	Platinum-free tungsten carbides as an efficient counter electrode for dye sensitized solar cells. <i>Chemical Communications</i> , 2010, 46, 8600.	2.2	215
48	A simple method for producing mesoporous anatase TiO <sub>2</sub> nanocrystals with elevated photovoltaic performance. <i>Scripta Materialia</i> , 2010, 62, 223-226.	2.6	31
49	Ferrocene-derivatized ordered mesoporous carbon as high performance counter electrodes for dye-sensitized solar cells. <i>Carbon</i> , 2010, 48, 3715-3720.	5.4	92
50	Soft-template synthesized ordered mesoporous carbon counter electrodes for dye-sensitized solar cells. <i>Carbon</i> , 2010, 48, 4563-4565.	5.4	60
51	Ordered Mesoporous SnO <sub>2</sub> -Based Photoanodes for High-Performance Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22032-22037.	1.5	174
52	Large-pore sized mesoporous carbon electrocatalyst for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2010, 46, 2136.	2.2	109
53	Effect of electrode geometry on the photovoltaic performance of dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 1448-1451.	3.0	39
54	Efficient Dye-Sensitized Solar Cells with Catalytic Multiwall Carbon Nanotube Counter Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1145-1149.	4.0	446

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55	Grid type dye-sensitized solar cell module with carbon counter electrode. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 194, 27-30.	2.0	68
56	Spray coated multi-wall carbon nanotube counter electrode for tri-iodide (I <sub>3</sub> <sup>-</sup> ) reduction in dye-sensitized solar cells. Electrochemistry Communications, 2008, 10, 1087-1089.	2.3	366
57	Performance variation of carbon counter electrode based dye-sensitized solar cell. Solar Energy Materials and Solar Cells, 2008, 92, 814-818.	3.0	145
58	Five Strip-Type Dye Sensitized Solar Cells with Metal Grid Lines. Solid State Phenomena, 2007, 119, 315-318.	0.3	0
59	Nanocarbon counterelectrode for dye sensitized solar cells. Applied Physics Letters, 2007, 90, 173103.	1.5	203
60	Dye-sensitized solar cells: Scale up and current-voltage characterization. Solar Energy Materials and Solar Cells, 2007, 91, 1676-1680.	3.0	59
61	Portable, parallel grid dye-sensitized solar cell module prepared by screen printing. Journal of Power Sources, 2007, 165, 446-449.	4.0	108
62	Glass frit overcoated silver grid lines for nano-crystalline dye sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 133-137.	2.0	62