

Thiyagu Subramani

List of Publications by Year in descending order

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papers

826
citations

516710
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38
docs citations

38
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Indium Oxide/Carbon Nanotube/Reduced Graphene Oxide Ternary Nanocomposite with Enhanced Electrochemical Supercapacitance. Bulletin of the Chemical Society of Japan, 2019, 92, 521-528.	3.2	88
2	Hybrid organic-inorganic heterojunction solar cells with 12% efficiency by utilizing flexible film-silicon with a hierarchical surface. Nanoscale, 2014, 6, 3361.	5.6	79
3	Fabrication of large area high density, ultra-low reflection silicon nanowire arrays for efficient solar cell applications. Nano Research, 2011, 4, 1136-1143.	10.4	50
4	High-efficiency silicon hybrid solar cells employing nanocrystalline Si quantum dots and Si nanotips for energy management. Nano Energy, 2017, 35, 154-160.	16.0	49
5	Functionalization of Silicon Nanostructures for Energy-Related Applications. Small, 2017, 13, 1701713.	10.0	49
6	BiVO ₄ /RGO hybrid nanostructure for high performance electrochemical supercapacitor. Journal of Solid State Chemistry, 2019, 269, 409-418.	2.9	45
7	Low-Pressure-Assisted Coating Method To Improve Interface between PEDOT:PSS and Silicon Nanotips for High-Efficiency Organic/Inorganic Hybrid Solar Cells via Solution Process. ACS Applied Materials & Interfaces, 2016, 8, 2406-2415.	8.0	42
8	Ultra high-density silicon nanowires for extremely low reflection in visible regime. Applied Physics Letters, 2011, 99, .	3.3	40
9	Vanadium sulfide/reduced graphene oxide composite with enhanced supercapacitance performance. Journal of the Taiwan Institute of Chemical Engineers, 2018, 92, 72-79.	5.3	33
10	Influences of silicon nanowire morphology on its electro-optical properties and applications for hybrid solar cells. Progress in Photovoltaics: Research and Applications, 2013, 21, 1400-1410.	8.1	27
11	Hierarchical Flower Structured Bi ₂ S ₃ /Reduced Graphene Oxide Nanocomposite for High Electrochemical Performance. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 73-83.	3.7	26
12	Control of grain size and crystallinity of poly-Si films on quartz by Al-induced crystallization. CrystEngComm, 2017, 19, 2305-2311.	2.6	23
13	Efficiency enhancement of Si nanostructure hybrid solar cells by optimizing non-radiative energy transfer from Si quantum dots. Nano Energy, 2021, 82, 105728.	16.0	22
14	Interface modification for efficiency enhancement in silicon nanohole hybrid solar cells. RSC Advances, 2016, 6, 12374-12381.	3.6	21
15	Hybrid organic and inorganic solar cell based on a cyanine dye and quantum dots. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 166-174.	3.9	18
16	Highly Air-Stable Solution-Processed and Low-Temperature Organic/Inorganic Nanostructure Hybrid Solar Cells. ACS Applied Energy Materials, 2019, 2, 2637-2644.	5.1	18
17	Solar Cell Based on Hybrid Structural SiNW/Poly(3,4 ethylenedioxythiophene): Poly(styrenesulfonate)/Graphene. Global Challenges, 2020, 4, 2000010.	3.6	17
18	SERS analyses of thiamethoxam assisted by Ag films and nanostructures produced by laser techniques. Journal of Raman Spectroscopy, 2018, 49, 397-403.	2.5	15

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19	Hole gas accumulation in Si/Ge core-shell and Si/Ge/Si core-double shell nanowires. <i>Nanoscale</i> , 2018, 10, 21062-21068.	5.6	15
20	Significance of the ZnO nanorod array morphology for low-bandgap polymer solar cells in inverted structures. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14641.	10.3	14
21	ZnO nanorod arrays for various low-bandgap polymers in inverted organic solar cells. <i>Nanoscale</i> , 2014, 6, 466-471.	5.6	14
22	Diffused back surface field formation in combination with two-step H ₂ annealing for improvement of silicon nanowire-based solar cell efficiency. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CP01.	1.5	14
23	Fabrication of silicon nanowire/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate)-graphene oxide hybrid solar cells. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	13
24	Surface-Enhanced Raman Spectroscopy (SERS) of Mancozeb and Thiamethoxam Assisted by Gold and Silver Nanostructures Produced by Laser Techniques on Paper. <i>Applied Spectroscopy</i> , 2019, 73, 313-319.	2.2	13
25	Fabrication of high-performance ordered radial junction silicon nanopencil solar cells by fine-tuning surface carrier recombination and structure morphology. <i>Nano Energy</i> , 2019, 56, 604-611.	16.0	13
26	Pencil-shaped silicon nanowire synthesis and photovoltaic application. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 085201.	1.5	12
27	Efficiency enhancement of silicon nanowire solar cells by using UV/Ozone treatments and micro-grid electrodes. <i>Applied Surface Science</i> , 2018, 439, 1057-1064.	6.1	10
28	Three-dimensional radial junction solar cell based on ordered silicon nanowires. <i>Nanotechnology</i> , 2019, 30, 344001.	2.6	10
29	Surface-Enhanced Raman Spectroscopy (SERS) of Neonicotinoid Insecticide Thiocloprid Assisted by Silver and Gold Nanostructures. <i>Applied Spectroscopy</i> , 2020, 74, 357-364.	2.2	10
30	Electrical annealing effect in bulk heterojunction polymer solar cells. <i>Thin Solid Films</i> , 2013, 529, 54-57.	1.8	7
31	Improvement of silicon nanowire solar cells made by metal catalyzed electroless etching and nano imprint lithography. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CP03.	1.5	5
32	Surface-enhanced Raman spectroscopy of neonicotinoid insecticide imidacloprid, assisted by gold and silver nanostructures. <i>Spectroscopy Letters</i> , 2020, 53, 184-193.	1.0	5
33	A Modified Block Copolymer Nano-Patterning Method for High Density Sub-30 nm Polystyrene Nanosphere and Gold Nanomesh Formation. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 215-221.	0.4	5
34	Morphology dependence of silicon nanostructure/organic polymer solar cell. , 2013, , .		1
35	Silicon nanowire/organic hybrid solar cells with zonyl fluorosurfactant treated PEDOT:PSS. , 2014, , .		1
36	Energy Storage: Functionalization of Silicon Nanostructures for Energy-Related Applications (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	16.0	1

#	ARTICLE	IF	CITATIONS
37	Conversion of Amorphous Carbon on Silicon Nanostructures into Similar Shaped Semi-Crystalline Graphene Sheets. Journal of Nanoscience and Nanotechnology, 2021, 21, 4949-4954.	0.9	1
38	Thorough organic/Si nanostructure heterojunction provided by surfactant assisted PEDOT:PSS. , 2015, , .		0