

Thiyagu Subramani

List of Publications by Year in descending order

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38
papers

826
citations

516710

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501196

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38
docs citations

38
times ranked

1156
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency enhancement of Si nanostructure hybrid solar cells by optimizing non-radiative energy transfer from Si quantum dots. <i>Nano Energy</i> , 2021, 82, 105728.	16.0	22
2	Conversion of Amorphous Carbon on Silicon Nanostructures into Similar Shaped Semi-Crystalline Graphene Sheets. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 4949-4954.	0.9	1
3	Surface-Enhanced Raman Spectroscopy (SERS) of Neonicotinoid Insecticide Thiacloprid Assisted by Silver and Gold Nanostructures. <i>Applied Spectroscopy</i> , 2020, 74, 357-364.	2.2	10
4	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
5	Solar Cell Based on Hybrid Structural SiNW/Poly(3,4 ethylenedioxythiophene): Poly(styrenesulfonate)/Graphene. <i>Global Challenges</i> , 2020, 4, 2000010.	3.6	17
6	Hybrid organic and inorganic solar cell based on a cyanine dye and quantum dots. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 375, 166-174.	3.9	18
7	Highly Air-Stable Solution-Processed and Low-Temperature Organic/Inorganic Nanostructure Hybrid Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 2637-2644.	5.1	18
8	Three-dimensional radial junction solar cell based on ordered silicon nanowires. <i>Nanotechnology</i> , 2019, 30, 344001.	2.6	10
9	Indium Oxide/Carbon Nanotube/Reduced Graphene Oxide Ternary Nanocomposite with Enhanced Electrochemical Supercapacitance. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 521-528.	3.2	88
10	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
11	BiVO ₄ /RGO hybrid nanostructure for high performance electrochemical supercapacitor. <i>Journal of Solid State Chemistry</i> , 2019, 269, 409-418.	2.9	45
12	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
13	Vanadium sulfide/reduced graphene oxide composite with enhanced supercapacitance performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 92, 72-79.	5.3	33
14	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
15	Hierarchical Flower Structured Bi ₂ S ₃ /Reduced Graphene Oxide Nanocomposite for High Electrochemical Performance. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 73-83.	3.7	26
16	SERS analyses of thiamethoxam assisted by Ag films and nanostructures produced by laser techniques. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 397-403.	2.5	15
17	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
18	Control of grain size and crystallinity of poly-Si films on quartz by Al-induced crystallization. <i>CrystEngComm</i> , 2017, 19, 2305-2311.	2.6	23

#	ARTICLE	IF	CITATIONS
19	High-efficiency silicon hybrid solar cells employing nanocrystalline Si quantum dots and Si nanotips for energy management. <i>Nano Energy</i> , 2017, 35, 154-160.	16.0	49
20	Functionalization of Silicon Nanostructures for Energy-Related Applications. <i>Small</i> , 2017, 13, 1701713.	10.0	49
21	Energy Storage: Functionalization of Silicon Nanostructures for Energy-Related Applications (<i>Small</i>)	10.0	1
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	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
24	Pencil-shaped silicon nanowire synthesis and photovoltaic application. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 085201.	1.5	12
25	Interface modification for efficiency enhancement in silicon nanohole hybrid solar cells. <i>RSC Advances</i> , 2016, 6, 12374-12381.	3.6	21
26	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. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2406-2415.	8.0	42
27	Thorough organic/Si nanostructure heterojunction provided by surfactant assisted PEDOT:PSS. , 2015, , .		0
28	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
29	ZnO nanorod arrays for various low-bandgap polymers in inverted organic solar cells. <i>Nanoscale</i> , 2014, 6, 466-471.	5.6	14
30	Silicon nanowire/organic hybrid solar cells with zonyl fluorosurfactant treated PEDOT:PSS. , 2014, , .		1
31	Hybrid organic-inorganic heterojunction solar cells with 12% efficiency by utilizing flexible film-silicon with a hierarchical surface. <i>Nanoscale</i> , 2014, 6, 3361.	5.6	79
32	Electrical annealing effect in bulk heterojunction polymer solar cells. <i>Thin Solid Films</i> , 2013, 529, 54-57.	1.8	7
33	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
34	Influences of silicon nanowire morphology on its electro-optical properties and applications for hybrid solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 1400-1410.	8.1	27
35	Morphology dependence of silicon nanostructure/organic polymer solar cell. , 2013, , .		1
36	Fabrication of large area high density, ultra-low reflection silicon nanowire arrays for efficient solar cell applications. <i>Nano Research</i> , 2011, 4, 1136-1143.	10.4	50

#	ARTICLE	IF	CITATIONS
37	Ultra high-density silicon nanowires for extremely low reflection in visible regime. Applied Physics Letters, 2011, 99, .	3.3	40
38	A Modified Block Copolymer Nano-Patterning Method for High Density Sub-30 nm Polystyrene Nanosphere and Gold Nanomesh Formation. Nanoscience and Nanotechnology Letters, 2011, 3, 215-221.	0.4	5