

Kandasamy Prabakar

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118
papers

2,575
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30
h-index

43
g-index

126
ext. papers

3,051
ext. citations

4.7
avg, IF

5.38
L-index

#	Paper	IF	Citations
118	Dielectric properties of Cd _{0.6} Zn _{0.4} Te thin films. <i>Physica Status Solidi A</i> , 2003 , 199, 507-514		101
117	Improved photovoltaic performance of CdSe/CdS/PbS quantum dot sensitized ZnO nanorod array solar cell. <i>Journal of Power Sources</i> , 2014 , 248, 439-446	8.9	97
116	Banyan Root Structured Mg-Doped ZnO Photoanode Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2600-2607	3.8	80
115	Highly efficient solution processed nanorice structured NiS counter electrode for quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 127, 427-432	6.7	72
114	UV, violet and blue-green luminescence from RF sputter deposited ZnO:Al thin films. <i>Crystal Research and Technology</i> , 2005 , 40, 1150-1154	1.3	66
113	Phase transition kinetics and surface binding states of methylammonium lead iodide perovskite. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7284-92	3.6	64
112	Cobalt sulfide thin film as an efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 133, 174-179	6.7	63
111	Influence of Cu vacancy on knit coir mat structured CuS as counter electrode for quantum dot sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19702-9	9.5	61
110	Analysis of TiO ₂ thickness effect on characteristic of a dye-sensitized solar cell by using electrochemical impedance spectroscopy. <i>Current Applied Physics</i> , 2010 , 10, S422-S424	2.6	60
109	Surface reinforced platinum counter electrode for quantum dots sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 103, 231-236	6.7	56
108	Ultrahigh surface area biomass derived 3D hierarchical porous carbon nanosheet electrodes for high energy density supercapacitors. <i>Carbon</i> , 2021 , 174, 463-474	10.4	56
107	CuS nano flakes and nano platelets as counter electrode for quantum dots sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 149, 364-369	6.7	53
106	CdS quantum dots sensitized TiO ₂ photoelectrodes. <i>Materials Chemistry and Physics</i> , 2009 , 117, 26-28	4.4	52
105	Interplay between Iodide and Tin Vacancies in CsSnI ₃ Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16447-16453	3.8	49
104	Dielectric and electric modulus properties of vacuum evaporated Cd _{0.8} Zn _{0.2} Te thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 98, 225-231	3.1	41
103	Hybrid Reduced Graphene Oxide/Manganese Diselenide Cubes: A New Electrode Material for Supercapacitors. <i>Energy Technology</i> , 2017 , 5, 1953-1962	3.5	40
102	Formation of anatase TiO ₂ nanoparticles by simple polymer gel technique and their properties. <i>Powder Technology</i> , 2011 , 205, 36-41	5.2	40

101	Complex impedance spectroscopy studies on fatigued soft and hard PZT ceramics. <i>Journal of Alloys and Compounds</i> , 2007 , 437, 302-310	5.7	39
100	Faster dye-adsorption of dye-sensitized solar cells by applying an electric field. <i>Electrochimica Acta</i> , 2010 , 55, 4120-4123	6.7	38
99	Visible light-active nitrogen-doped TiO ₂ thin films prepared by DC magnetron sputtering used as a photocatalyst. <i>Renewable Energy</i> , 2008 , 33, 277-281	8.1	38
98	Flower-like ZnO@MnCo ₂ O ₄ nanosheet structures on nickel foam as novel electrode material for high-performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 102961-102967	3.7	37
97	Microstructure, Raman and optical studies on Cd _{0.6} Zn _{0.4} Te thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 107, 99-105	3.1	36
96	Optical constants of vacuum evaporated Cd _{0.2} Zn _{0.8} Te thin films. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 81, 1-12	6.4	36
95	Revealing the Self-Degradation Mechanisms in Methylammonium Lead Iodide Perovskites in Dark and Vacuum. <i>ChemPhysChem</i> , 2018 , 19, 1507-1513	3.2	35
94	TiO ₂ thin film encapsulated ZnO nanorod and nanoflower dye sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2011 , 125, 12-14	4.4	35
93	Optimal-Temperature-Based Highly Efficient NiS Counter Electrode for Quantum-Dot-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 4281-4286	2.3	33
92	Electrolyte-imprinted graphene oxide-chitosan chelate with copper crosslinked composite electrodes for intense cyclic-stable, flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1380-1386	13	32
91	Enhancing ORR/OER active sites through lattice distortion of Fe-enriched FeNi intermetallic nanoparticles doped N-doped carbon for high-performance rechargeable Zn-air battery. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 977-990	9.3	32
90	Nickel doped cobalt sulfide as a high performance counter electrode for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2015 , 328, 78-85	6.7	31
89	One-step hydrothermal synthesis of CuS@MnS on Ni foam for high performance supercapacitor electrode material. <i>Electrochimica Acta</i> , 2019 , 305, 467-473	6.7	30
88	Method for fabricating the compact layer in dye-sensitized solar cells by titanium sputter deposition and acid-treatments. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 340-343	6.4	30
87	Co-electrodeposition of NiCu(OH) ₂ @Ni-Cu-Se hierarchical nanoparticle structure for supercapacitor application with enhanced performance. <i>Applied Surface Science</i> , 2020 , 506, 145015	6.7	29
86	CdSe quantum dots co-sensitized TiO ₂ photoelectrodes: particle size dependent properties. <i>Journal of Physics D: Applied Physics</i> , 2010 , 43, 012002	3	28
85	Mechanochemical assisted synthesis of heteroatoms inherited highly porous carbon from biomass for electrochemical capacitor and oxygen reduction reaction electrocatalysis. <i>Electrochimica Acta</i> , 2019 , 317, 1-9	6.7	26
84	Facile synthesis of pristine FeS ₂ microflowers and hybrid rGO-FeS ₂ microsphere electrode materials for high performance symmetric capacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 71, 191-200	6.3	25

83	Improved performance of CdS/CdSe quantum dot-sensitized solar cells using Mn-doped PbS quantum dots as a catalyst in the counter electrode. <i>Electrochimica Acta</i> , 2014 , 117, 92-98	6.7	24
82	Dielectric studies on Cd _{0.4} Zn _{0.6} Te thin films. <i>Materials Chemistry and Physics</i> , 2003 , 78, 809-815	4.4	24
81	Stabilization of cryptomelane γ -MnO ₂ nanowires tunnels widths for enhanced electrochemical energy storage. <i>Electrochimica Acta</i> , 2018 , 283, 1679-1688	6.7	23
80	Surface modification on TiO ₂ nanoparticles in CdS/CdSe Quantum Dot-sensitized Solar Cell. <i>Electrochimica Acta</i> , 2014 , 118, 118-123	6.7	23
79	Effect of synthesis temperature on structure, optical and photovoltaic properties of TiO ₂ nanorod thin films. <i>Electrochimica Acta</i> , 2012 , 65, 44-49	6.7	23
78	Physical and electronic properties of ZnO:Al/porous silicon. <i>Materials Research Bulletin</i> , 2006 , 41, 253-259.	1	22
77	Mn-Co bimetallic phosphate on electrodeposited PANI nanowires with composition modulated structural morphology for efficient electrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120202	21.8	22
76	Dice-Like Nanostructure of a CuS@PbS Composite for High-Performance Supercapacitor Electrode Applications. <i>Energies</i> , 2018 , 11, 1624	3.1	21
75	Electrochemical properties of TiO ₂ encapsulated ZnO nanorod aggregates dye sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2012 , 537, 159-164	5.7	21
74	Optimization and deposition of CdS thin films as applicable to TiO ₂ /CdS composite catalysis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1613-1617	2.9	21
73	Low-temperature easy-processed carbon nanotube contact for high-performance metal- and hole-transporting layer-free perovskite solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 332, 265-272	4.7	20
72	Magnesium doped ZnO nanoparticles embedded ZnO nanorod hybrid electrodes for dye sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 62, 453-459	2.3	20
71	Free vibration of anti-symmetric angle-ply laminated conical shells. <i>Composite Structures</i> , 2015 , 122, 488-495	5.9	19
70	Impedance and Electric Modulus Analysis of Cd _{0.6} Zn _{0.4} Te Thin Films. <i>Crystal Research and Technology</i> , 2002 , 37, 1094-1103	1.3	19
69	Self-assembled 3D hierarchical MnCO ₃ /NiFe layered double hydroxides as a superior electrocatalysts for the oxygen evolution reactions. <i>Journal of Colloid and Interface Science</i> , 2020 , 566, 224-233	9.3	19
68	Superior one-pot synthesis of a doped graphene oxide electrode for a high power density supercapacitor. <i>New Journal of Chemistry</i> , 2018 , 42, 11093-11101	3.6	19
67	Inhibition of Redox Behaviors in Hierarchically Structured Manganese Cobalt Phosphate Supercapacitor Performance by Surface Trivalent Cations. <i>ACS Omega</i> , 2018 , 3, 1718-1725	3.9	18
66	rf-Magnetron sputter deposited ZrO ₂ dielectrics for metal-insulator-semiconductor capacitors. <i>Vacuum</i> , 2008 , 82, 1367-1370	3.7	18

65	Exploration of Lewis basicity and oxygen reduction reaction activity in plasma-tailored nitrogen-doped carbon electrocatalysts. <i>Catalysis Today</i> , 2019 , 337, 102-109	5.3	18
64	Mn ³⁺ Active Surface Site Enriched Manganese Phosphate Nano-polyhedrons for Enhanced Bifunctional Oxygen Electrocatalyst. <i>ChemCatChem</i> , 2020 , 12, 2348-2355	5.2	18
63	Stacked Cu _{1.8} S nanoplatelets as counter electrode for quantum dot-sensitized solar cell. <i>RSC Advances</i> , 2015 , 5, 100560-100567	3.7	17
62	Cation intercalated one-dimensional manganese hydroxide nanorods and hierarchical mesoporous activated carbon nanosheets with ultrahigh capacitance retention asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 566, 485-494	9.3	17
61	Study on characteristics of CdS quantum dot-sensitized solar cells prepared by successive ionic layer adsorption and reaction with different adsorption times. <i>Electronic Materials Letters</i> , 2014 , 10, 621-626	2.9	17
60	Improved long-term durability of a parallel-type dye-sensitized solar cell module using a platinum metal grid fabricated by direct current magnetron sputtering with heat treatment. <i>Journal of Power Sources</i> , 2013 , 222, 333-339	8.9	17
59	Influence of solvents in the preparation of cobalt sulfide for supercapacitors. <i>Royal Society Open Science</i> , 2017 , 4, 170427	3.3	16
58	Preparation and photocatalytic activity of TiO _x Ny/CdS heterojunctions. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 1188-1192	2.9	16
57	Metal-free multiporous carbon for electrochemical energy storage and electrocatalysis applications. <i>New Journal of Chemistry</i> , 2019 , 43, 11653-11659	3.6	15
56	Visible light enhanced TiO ₂ thin film bilayer dye sensitized solar cells. <i>Thin Solid Films</i> , 2010 , 519, 894-899	9.2	15
55	Effect of nitrogen on the photocatalytic activity of TiO _x Ny thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1156-1160	2.9	15
54	Study of photocatalytic activity of TiO ₂ thin films prepared in various Ar/O ₂ ratio and sputtering gas pressure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 912-916	2.9	15
53	Acoustic Emission During Phase Transition in Soft PZT Ceramics Under an Applied Electric Field. <i>Ferroelectrics, Letters Section</i> , 2005 , 32, 99-110	0.5	15
52	Structural, optical and Raman scattering studies on polycrystalline Cd _{0.8} Zn _{0.2} Te thin films prepared by vacuum evaporation. <i>Physica B: Condensed Matter</i> , 2003 , 328, 355-362	2.8	14
51	Determination of Kinetic Parameters of Bi ₂ Se ₃ Thin Films by Computation. <i>Crystal Research and Technology</i> , 2000 , 35, 1087-1094	1.3	14
50	Multiscale honeycomb-structured activated carbon obtained from nitrogen-containing mandarin peel: high-performance supercapacitors with significant cycling stability. <i>New Journal of Chemistry</i> , 2019 , 43, 3486-3492	3.6	13
49	Open atmospheric processed perovskite solar cells using dopant-free, highly hydrophobic hole-transporting materials: Influence of thiophene and selenophene spacers on charge transport and recombination properties. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 199, 66-74	6.4	13
48	Open Atmosphere-Processed Stable Perovskite Solar Cells Using Molecular Engineered, Dopant-Free, Highly Hydrophobic Polymeric Hole-Transporting Materials: Influence of Thiophene and Alkyl Chain on Power Conversion Efficiency. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8560-8568	3.8	13

47	Simultaneous electrochemical deposition of an e-rGO/ECd/MnO ₂ ternary composite for a self-powered supercapacitor based caffeine sensor. <i>Analytical Methods</i> , 2016 , 8, 7937-7943	3.2	13
46	Phase Transformation and Evolution of Localized Surface Plasmon Resonance in Cu ₂ S Thin Films Deposited at 60 °C. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25440-25446	3.8	13
45	The photo-characteristics of (Bi _{1-x} Zn _x)S quantum dot complex and multilayer structure for the application to the dye-sensitized solar cell. <i>Current Applied Physics</i> , 2011 , 11, S154-S157	2.6	13
44	Growth control of ZnO nanorod density by sol-gel method. <i>Thin Solid Films</i> , 2010 , 518, e136-e138	2.2	13
43	Sputtering pressure dependent photocatalytic properties of TiO ₂ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006 , 24, 1161-1165	2.9	13
42	Effect of annealing on the optical constants of Cd _{0.2} Zn _{0.8} Te thin films. <i>Journal of Alloys and Compounds</i> , 2004 , 364, 23-28	5.7	13
41	Analysis on the Light-Scattering Effect in Dye-Sensitized Solar Cell according to the TiO ₂ Structural Differences. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-8	2.1	12
40	Nickel self-doped iron oxide/manganese carbonate hierarchical 2D/3D structures for electrochemical energy storage. <i>Electrochimica Acta</i> , 2019 , 297, 77-86	6.7	12
39	Highly efficient ZnO porous nanostructure for CdS/CdSe quantum dot sensitized solar cell. <i>Thin Solid Films</i> , 2013 , 548, 636-640	2.2	11
38	Free vibration of symmetric angle-ply laminated annular circular plate of variable thickness under shear deformation theory. <i>Meccanica</i> , 2015 , 50, 3013-3027	2.1	10
37	Free vibration of anti-symmetric angle-ply plates with variable thickness. <i>Composite Structures</i> , 2016 , 137, 56-69	5.3	10
36	Dependence of target-substrate distance on crystallographic and optical properties of WO ₃ films prepared by reactive radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2007 , 515, 6567-6571	2.2	10
35	Cu-doped ZnO nanoporous film for improved performance of CdS/CdSe quantum dot-sensitized solar cells. <i>Thin Solid Films</i> , 2014 , 570, 310-314	2.2	9
34	Conduction studies on copper indium diselenide thin films. <i>Materials Chemistry and Physics</i> , 1999 , 58, 221-226	4.4	9
33	Growth mechanisms and origin of localized surface plasmon resonance coupled exciton effects in Cu ₂ S thin films. <i>RSC Advances</i> , 2016 , 6, 19034-19040	3.7	8
32	Enhancement in the photovoltaic performance of a dye-sensitized solar cell by an optimized ZnO barrier layer. <i>Physica Scripta</i> , 2010 , T139, 014029	2.6	7
31	Electrodeposited Trimetallic NiFeW Hydroxide Electrocatalysts for Efficient Water Oxidation. <i>ChemSusChem</i> , 2021 , 14, 1324-1335	8.3	7
30	Free vibration of layered cylindrical shells filled with fluid. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2016 , 37, 803-820	3.2	6

29	Enhanced performance of Al ₂ O ₃ coated ZnO nanorods in CdS/CdSe quantum dot-sensitized solar cell. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1404-1409	4.4	6
28	Titanium oxide prepared by polymer gel assisted combustion method for dye-sensitized solar cell. <i>Current Applied Physics</i> , 2011 , 11, S127-S130	2.6	6
27	Optical and electrical properties of ZnO doped with nitrogen. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 2830-2834	1.3	6
26	Determination of optical constants of Cd _{1-x} Zn _x Te thin films by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2003 , 424, 66-69	2.2	6
25	Free vibration of layered truncated conical shells filled with quiescent fluid using spline method. <i>Composite Structures</i> , 2017 , 163, 385-398	5.3	5
24	Fabrication of mesoporous TiO ₂ double layer using dicarboxylic acid in dye-sensitized solar cell. <i>Electronic Materials Letters</i> , 2014 , 10, 229-234	2.9	5
23	The effects of electrolyte additives on the cell performances of CdS/CdSe quantum dot sensitized solar cells. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 2088-2092	2.8	5
22	Heteroatom-doped nanomaterials/core-shell nanostructure based electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 987-1021	13	5
21	The effect of TiO ₂ compact layer in ZnO nanorod based CdS/CdSe quantum-dot sensitized solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1839-1843	1.6	4
20	Annealing effect on structural, morphological, and optical properties of reactive sputtered WO ₃ films for mediated heterogeneous photocatalyst. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007 , 25, 1029-1033	2.9	4
19	Interplay between porous texture and surface-active sites for efficient oxygen reduction reactions in N-inherited carbon. <i>New Journal of Chemistry</i> , 2020 , 44, 10911-10917	3.6	4
18	High-performance flexible transparent micro-supercapacitors from nanocomposite electrodes encapsulated with solution processed MoS nanosheets. <i>Science and Technology of Advanced Materials</i> , 2021 , 22, 875-884	7.1	4
17	Bimetallic copper nickel sulfide electrocatalyst by one step chemical bath deposition for efficient and stable overall water splitting applications. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 101-112	9.3	4
16	Electrospun One Dimensional (1D) Pseudocapacitive nanorods embedded carbon nanofiber as positive and graphene wrapped carbon nanofiber as negative for enhanced electrochemical energy storage. <i>Journal of Energy Storage</i> , 2022 , 46, 103731	7.8	3
15	A simple method for modeling dye-sensitized solar cells. <i>Thin Solid Films</i> , 2014 , 554, 114-117	2.2	2
14	Improved performance of dye-sensitized solar cells by employing acid treated Ti layer on the nanocrystalline TiO ₂ . <i>Thin Solid Films</i> , 2014 , 554, 204-208	2.2	2
13	Acoustic Emission from PZT 5A Ceramics during Electric Fatigue. <i>Ferroelectrics, Letters Section</i> , 2006 , 33, 113-127	0.5	2
12	Metal-free pristine halloysite nanotubes: Electrochemically active and stable oxygen evolution reaction. <i>Applied Clay Science</i> , 2022 , 219, 106442	5.2	2

11	Hierarchical 3D flower like cobalt hydroxide as an efficient bifunctional electrocatalyst for water splitting. <i>Electrochimica Acta</i> , 2022 , 411, 140071	6.7	2
10	Transition metal oxy/hydroxides functionalized flexible halloysite nanotubes for hydrogen evolution reaction.. <i>Journal of Colloid and Interface Science</i> , 2022 , 618, 518-528	9.3	2
9	Polyethylene glycol assisted direct deposition of rutile TiO ₂ nanocrystals on transparent conducting oxide substrate for dye-sensitized solar cell applications. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 66, 378-386	2.3	1
8	Synthesis and characterization of nanosize conducting polyaniline, titania and their composite 2013 ,		1
7	A Study on FTO-less Dye Sensitized Solar Cell with Ti Deposited Glass. <i>Transactions of the Korean Institute of Electrical Engineers</i> , 2013 , 62, 208-212	1.5	1
6	Bio-waste wood-derived porous activated carbon with tuned microporosity for high performance supercapacitors. <i>Journal of Energy Storage</i> , 2022 , 52, 104928	7.8	1
5	Alignment of TiO ₂ (Anatase) Crystal of Dye-Sensitized Solar Cells by External Magnetic Field. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-6	2.1	
4	Microstructure Analysis of TaN/Cu Nanocomposite Coatings Deposited by Pulsed DC Magnetron Sputtering. <i>Advanced Materials Research</i> , 2010 , 123-125, 427-430	0.5	
3	Sterilization of Escherichia coli by using near-UV LED and TiO ₂ nanofibers that were prepared by using electrostatic spray. <i>Physica Scripta</i> , 2010 , T139, 014011	2.6	
2	Preparation and electrical characterization of Cd _{0.8} Zn _{0.2} Te/Si thin films. <i>Vacuum</i> , 2004 , 72, 475-479	3.7	
1	Structure and Photoluminescence Properties of ZnO:Al/Porous Silicon Thin Films. <i>Materials Science Forum</i> , 2005 , 486-487, 21-24	0.4	