

Praveen C Ramamurthy

List of Publications by Year in descending order

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259
papers

4,259
citations

109137

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182168

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all docs

266
docs citations

266
times ranked

4662
citing authors

#	ARTICLE	IF	CITATIONS
1	An innovative catalyst of PdNiP nanosphere deposited PEDOT:PSS/rGO hybrid material as an efficient electrocatalyst for alkaline urea oxidation. <i>Polymer Bulletin</i> , 2023, 80, 1265-1283.	1.7	2
2	Biological degradation of polyethylene terephthalate by rhizobacteria. <i>Environmental Science and Pollution Research</i> , 2023, 30, 116488-116497.	2.7	6
3	Electrochemical detection of Cr(VI) and Cr(III) ions present in aqueous solutions using bio-modified carbon paste electrode: a voltammetric study. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 2053-2073.	1.8	9
4	Biodegradation of phorate by bacterial strains in the presence of humic acid and metal ions. <i>Journal of Basic Microbiology</i> , 2022, 62, 498-507.	1.8	4
5	Nitrates in the environment: A critical review of their distribution, sensing techniques, ecological effects and remediation. <i>Chemosphere</i> , 2022, 287, 131996.	4.2	92
6	Sustainable removal of Cr(VI) using graphene oxide-zinc oxide nanohybrid: Adsorption kinetics, isotherms and thermodynamics. <i>Environmental Research</i> , 2022, 203, 111891.	3.7	101
7	A novel electrochemical sensor based on 2,6-bis (2-benzimidazolyl) pyridine for the detection of Bisphenol A. <i>Materials Chemistry and Physics</i> , 2022, 275, 125287.	2.0	2
8	Chromium (VI) detection by microbial carbon dots: Microwave synthesis and mechanistic study. <i>Journal of Basic Microbiology</i> , 2022, 62, 455-464.	1.8	4
9	Comparative studies on physical and chemical routes for animal waste-derived activated carbon for microwave absorption in the X-band. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3425-3437.	1.1	2
10	Data-driven methodology to realize strong and broadband microwave absorption properties of polymer-fly ash cenosphere composite. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51981.	1.3	6
11	Low cost, trouble-free disposable pencil graphite electrode sensor for the simultaneous detection of hydroquinone and catechol. <i>Materials Chemistry and Physics</i> , 2022, 278, 125663.	2.0	16
12	Multifunctional nanohybrid for simultaneous detection and removal of Arsenic(III) from aqueous solutions. <i>Chemosphere</i> , 2022, 289, 133101.	4.2	26
13	Micro (nano) plastics in wastewater: A critical review on toxicity risk assessment, behaviour, environmental impact and challenges. <i>Chemosphere</i> , 2022, 290, 133169.	4.2	43
14	Fabrication and theoretical analysis of sodium alpha-olefin sulfonate-anchored carbon paste electrode for the simultaneous detection of adrenaline and paracetamol. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 697.	1.5	4
15	Electrode Transport Layer-Metal Electrode Interface Morphology Tailoring for Enhancing the Performance of Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2022, 4, 689-697.	2.0	13
16	Polymer-metal/metal oxide-coated fly ash cenosphere composite film for electromagnetic interference shielding. , 2022, , 729-761.		2
17	Role of microbes in methane emission from constructed wetlands. , 2022, , 489-506.		0
18	Occurrence, toxicity and remediation of polyethylene terephthalate plastics. A review. <i>Environmental Chemistry Letters</i> , 2022, 20, 1777-1800.	8.3	65

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19	Role of electrodes on perovskite solar cells performance: A review. ISSS Journal of Micro and Smart Systems, 2022, 11, 61-79.	1.0	9
20	Optimising the photovoltaic parameters in donor-acceptor-acceptor ternary polymer solar cells using Machine Learning framework. Solar Energy, 2022, 231, 447-457.	2.9	11
21	Nanomaterials in Optoelectronics. Energy Systems in Electrical Engineering, 2022, , 29-41.	0.5	0
22	Introduction to Photovoltaic Devices. Energy Systems in Electrical Engineering, 2022, , 43-69.	0.5	0
23	Insights into the Electrochemical Behavior and Kinetics of NiP@PANI/rGO as a High-Performance Electrode for Alkaline Urea Oxidation. Electrocatalysis, 2022, 13, 283-298.	1.5	3
24	Mechanism and kinetics of Cr(VI) adsorption on biochar derived from Citrobacter freundii under different pyrolysis temperatures. Journal of Water Process Engineering, 2022, 47, 102723.	2.6	22
25	Charge transport in cross-linked PEDOT:PSS near metal-insulator transition. Journal of Applied Physics, 2022, 131, 155101.	1.1	1
26	A novel CaO nanocomposite cross linked graphene oxide for Cr(VI) removal and sensing from wastewater. Chemosphere, 2022, 301, 134714.	4.2	21
27	Competence of nanoparticles for removal of pesticides from wastewater: an overview. , 2022, , 253-266.		0
28	Nanoscale small molecule self-assembled ITO for photon harvesting in polymer and perovskite solar cells. Solar Energy, 2022, 240, 201-210.	2.9	3
29	Effect of cuprous iodide passivation in perovskite solar cells. Journal of Materials Science: Materials in Electronics, 2022, 33, 14457-14467.	1.1	3
30	Studying VOC in lead free inorganic perovskite photovoltaics by tuning energy bandgap and defect density. Ceramics International, 2022, 48, 29414-29420.	2.3	13
31	Design and fabrication of a solid-state chemiresistive sensor for the detection of hexavalent chromium. , 2022, , .		0
32	Flexible Organic Photodetector with High Responsivity in Visible Range. , 2022, , .		1
33	Enhancement in the inherent photostability of small molecule-based BHJ device by molecular architecturing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115841.	1.7	0
34	Efficacy of Ultraviolet-C Devices for the Disinfection of Personal Protective Equipment Fabrics and N95 Respirators. Journal of Research of the National Institute of Standards and Technology, 2021, 126, .	0.4	4
35	Porous fibres of a polymer blend for broadband microwave absorption. Materials Advances, 2021, 2, 3613-3619.	2.6	3
36	Work Function-Tunable Amorphous Carbon-Silver Nanocomposite Hybrid Electrode for Optoelectronic Applications. ACS Applied Materials & Interfaces, 2021, 13, 4284-4293.	4.0	18

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37	Detection and disinfection of COVID-19 virus in wastewater. <i>Environmental Chemistry Letters</i> , 2021, 19, 1917-1933.	8.3	37
38	Mechanism and kinetics of adsorption and removal of heavy metals from wastewater using nanomaterials. <i>Environmental Chemistry Letters</i> , 2021, 19, 2351-2381.	8.3	72
39	A novel non-enzymatic urea sensor based on the nickel complex of a benzimidazolyl pyridine derivative. <i>Journal of Electroanalytical Chemistry</i> , 2021, 883, 115062.	1.9	12
40	Microbial biotechnological approaches: renewable bioprocessing for the future energy systems. <i>Microbial Cell Factories</i> , 2021, 20, 55.	1.9	19
41	Chemically Room Temperature Crosslinked Polyvinyl Alcohol (PVA) with Anomalous Microwave Absorption Characteristics. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000763.	2.0	9
42	Nitric Oxide: A Ubiquitous Signal Molecule for Enhancing Plant Tolerance to Salinity Stress and Their Molecular Mechanisms. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 2329-2341.	2.8	11
43	Differential regulation of drought stress by biological membrane transporters and channels. <i>Plant Cell Reports</i> , 2021, 40, 1565-1583.	2.8	6
44	Effect of top electrode using Silver Nano powder on the performance of Perovskite Solar cells. , 2021, , ,		4
45	Hermetic Sealed Perovskite Solar Cells: Water Stable Encapsulation. , 2021, , ,		0
46	Toxicity and detoxification of monocrotophos from ecosystem using different approaches: A review. <i>Chemosphere</i> , 2021, 275, 130051.	4.2	21
47	Wonder or evil?: Multifaceted health hazards and health benefits of Cannabis sativa and its phytochemicals. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 7290-7313.	1.8	24
48	Structure and Morphology-Dependent Electrical Characteristics of Conjugated Organic Crystals Acquired by Various Growth Methods. <i>Journal of Electronic Materials</i> , 2021, 50, 6206-6213.	1.0	0
49	Polypyrrole@polyaniline-reduced graphene oxide nanocomposite support material and Cobalt for the enhanced electrocatalytic activity of nickel phosphide microsphere towards alkaline urea oxidation. <i>Materials Research Express</i> , 2021, 8, 095303.	0.8	2
50	Biodegradation of monocrotophos by indigenous soil bacterial isolates in the presence of humic acid, Fe (III) and Cu (II) ions. <i>Bioresource Technology Reports</i> , 2021, 15, 100778.	1.5	1
51	Analysis of Cr(VI) Bioremediation by <i>Citrobacter freundii</i> Using Synchrotron Soft X-ray Scanning Transmission X-ray Microscopy. <i>Quantum Beam Science</i> , 2021, 5, 28.	0.6	1
52	Role of silver-PC61BM composite electron transport layer in methylammonium lead iodide solar cell. <i>Materials Letters</i> , 2021, 302, 130448.	1.3	1
53	Adsorption and detoxification of pharmaceutical compounds from wastewater using nanomaterials: A review on mechanism, kinetics, valorization and circular economy. <i>Journal of Environmental Management</i> , 2021, 300, 113569.	3.8	61
54	Fabrication of porous 1D WO ₃ NRs and WO ₃ /BiVO ₄ hetero junction photoanode for efficient photoelectrochemical water splitting. <i>Materials Chemistry and Physics</i> , 2021, 274, 125095.	2.0	24

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55	Photo-active polymer nanocomposite layer for energy applications. , 2021, , 135-156.		1
56	Tailorable microwave absorption characteristics of bio waste-based composites through a macroscopic design. <i>Materials Advances</i> , 2021, 2, 3715-3725.	2.6	1
57	Electromagnetic Data-Driven Approach to Realize the Best Microwave Absorption Characteristics of MXene-Based Nanocomposites. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4558-4567.	2.0	11
58	Development of low power laser in-situ thickness measurement for correlating the dust thickness to the PV performance. <i>Cleaner Engineering and Technology</i> , 2021, 5, 100332.	2.1	2
59	2,3-di(2-furyl) quinoxaline bearing 3 -ethyl rhodanine and 1,3 indandione based heteroaromatic conjugated T-shaped push -pull chromophores: Design, synthesis, photophysical and non-linear optical investigations. <i>Dyes and Pigments</i> , 2020, 173, 107887.	2.0	12
60	Mechanical Reliability of Photovoltaic Cells under Cyclic Thermal Loading. <i>Journal of Electronic Materials</i> , 2020, 49, 59-71.	1.0	2
61	Microwave absorption efficiency of poly (vinyl-butyril)/Ultra-thin nickel coated fly ash cenosphere composite. <i>Surfaces and Interfaces</i> , 2020, 19, 100430.	1.5	7
62	Analysis of in-service composite insulators used in overhead railway traction. <i>Engineering Failure Analysis</i> , 2020, 108, 104227.	1.8	11
63	Novel multifunctional molecular recognition elements based on molecularly imprinted poly (aniline-co-itaconic acid) composite thin film for melamine electrochemical detection. <i>Sensing and Bio-Sensing Research</i> , 2020, 27, 100318.	2.2	13
64	Investigation of processâ€“structureâ€“property relationship in ternary organic photovoltaics. <i>Journal of Applied Physics</i> , 2020, 128, 145501.	1.1	6
65	Molecular insights into photostability of fluorinated organic photovoltaic blends: role of fullerene electron affinity and donorâ€“acceptor miscibility. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5721-5731.	2.5	2
66	Low band gap thienothiophene-diketopyrrolopyrrole copolymers with V2O5 as hole transport layer for photovoltaic application. <i>Optical Materials</i> , 2020, 109, 110303.	1.7	6
67	Poly (L-leucine) modified carbon paste electrode as an electrochemical sensor for the detection of paracetamol in presence of folic acid. <i>Materials Science for Energy Technologies</i> , 2020, 3, 626-632.	1.0	14
68	Modeling processâ€“structureâ€“property relationship in organic photovoltaics using a robust diffuse interface approach. <i>AIP Advances</i> , 2020, 10, 065304.	0.6	3
69	Tailoring optoelectronic properties of CH3NH3PbI3 perovskite photovoltaics using al nanoparticle modified PC61BM layer. <i>Solar Energy</i> , 2020, 201, 621-627.	2.9	23
70	Green synthesis of germanium nano ink and inkjet printing of Si/Ge heterostructure. <i>Materials Research Bulletin</i> , 2020, 132, 110984.	2.7	4
71	Optically Transparent Protective Coating for ITO-Coated PET-Based Microwave Metamaterial Absorbers. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 378-388.	1.4	20
72	A non-enzymatic urea sensor based on the nickel sulfide / graphene oxide modified glassy carbon electrode. <i>Materials Chemistry and Physics</i> , 2020, 245, 122798.	2.0	55

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73	BODIPY based A-D-A molecules: Effect of CF ₃ group substitution at meso phenyl group. Dyes and Pigments, 2020, 177, 108289.	2.0	9
74	Molecularly imprinted polyaniline molecular receptor-based chemical sensor for the electrochemical determination of melamine. Journal of Molecular Recognition, 2020, 33, e2836.	1.1	21
75	MXene interlayered crosslinked conducting polymer film for highly specific absorption and electromagnetic interference shielding. Materials Advances, 2020, 1, 177-183.	2.6	48
76	Development of Molecularly Imprinted Conducting Polymer Composite Film-Based Electrochemical Sensor for Melamine Detection in Infant Formula. ACS Omega, 2020, 5, 4090-4099.	1.6	40
77	Sustainable Photovoltaics. Lecture Notes in Energy, 2020, , 25-85.	0.2	0
78	Enhancement in Open-Circuit Voltage of Semitransparent MAPbI ₃ -xBr _x perovskite solar cells by methyl amine treatment and optimal Hole Transport Layer. , 2020, , .		1
79	Evaluation of Polymer Solar Cell Efficiency To Understand the Burn-in Loss. Journal of Physical Chemistry C, 2019, 123, 22699-22705.	1.5	6
80	2D layering of silicon nanocrystals at TiO ₂ /CuI heterojunction for enhanced charge transport. Journal of Applied Physics, 2019, 125, .	1.1	6
81	Outstanding Absolute Electromagnetic Interference Shielding Effectiveness of Cross-Linked PEDOT:PSS Film. Advanced Materials Interfaces, 2019, 6, 1901353.	1.9	52
82	Mesoporous Cu ₂ ZnSnS ₄ nanoparticle film as a flexible and reusable visible light photocatalyst. Optical Materials, 2019, 98, 109492.	1.7	22
83	Variation of the donor and acceptor in D-π-A based cyanopyridine dyes and its effect on dye sensitized solar cells. New Journal of Chemistry, 2019, 43, 15673-15680.	1.4	25
84	Shaping Resonant Light Confinement and Optoelectronic Spectra Using Strain in Hierarchical Multiscale Structures. Advanced Optical Materials, 2019, 7, 1900471.	3.6	2
85	Molybdenum disulfide/reduced graphene oxide hybrids with enhanced electrocatalytic activity: An efficient counter electrode for dye-sensitized solar cells. Journal of Electroanalytical Chemistry, 2019, 847, 113236.	1.9	20
86	Light management through up-conversion and scattering mechanism of rare earth nanoparticle in polymer photovoltaics. Optical Materials, 2019, 94, 286-293.	1.7	10
87	Effect of structural isomerism in BODIPY based donor-acceptor co-polymers on their photovoltaic performance. Solar Energy, 2019, 186, 215-224.	2.9	12
88	Enhancement of microwave absorption bandwidth of polymer blend using ferromagnetic gadolinium silicide nanoparticles. Materials Letters, 2019, 252, 178-181.	1.3	12
89	Light trapping in photovoltaic devices with weak dielectric absorbers: Nanostructured dielectric and metal interfaces. Optical Materials, 2019, 89, 288-294.	1.7	4
90	Functionalization of textile cotton fabric with reduced graphene oxide/MnO ₂ /polyaniline based electrode for supercapacitor. Materials Research Express, 2019, 6, 125708.	0.8	19

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91	Omnidirectional sub-bandgap photo-detection using functionalized moulded composite flexible platforms. <i>Optical Materials</i> , 2019, 88, 359-365.	1.7	2
92	Design, synthesis, fabrication and simulation of conjugated molecule for detection of lithium ions. <i>Materials Research Express</i> , 2019, 6, 045101.	0.8	4
93	Gadolinium silicide (Gd_5Si_4) nanoparticles for tuneable broad band microwave absorption. <i>Materials Research Express</i> , 2019, 6, 055053.	0.8	12
94	Correlation between structural and electrochemical properties of potassium doped strontium silicates for electrolyte application in intermediate temperature solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2018, 745, 555-561.	2.8	4
95	Photobleaching dynamics in small molecule <i>vs.</i> polymer organic photovoltaic blends with 1,7-bis-trifluoromethylfullerene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4623-4628.	5.2	16
96	Design and Fabrication of a Highly Stable Polymer Carbon Nanotube Nanocomposite Chemiresistive Sensor for Nitrate Ion Detection in Water. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, Q3054-Q3064.	0.9	10
97	Effect of process optimization on electronic properties of conjugated small molecules. <i>Materials Research Express</i> , 2018, 5, 086305.	0.8	2
98	Moldable biomimetic nanoscale optoelectronic platforms for simultaneous enhancement in optical absorption and charge transport. <i>Nanoscale</i> , 2018, 10, 3730-3737.	2.8	11
99	Influence of copper oxide grown on various conducting substrates towards improved performance for photoelectrocatalytic bacterial inactivation. <i>Molecular Catalysis</i> , 2018, 451, 161-169.	1.0	14
100	Facile embedding of gold nanostructures in the hole transporting layer for efficient polymer solar cells. <i>Organic Electronics</i> , 2018, 54, 148-153.	1.4	7
101	Synthesis, characterisation and optical studies of new tetraethyl-rubyrin-graphene oxide covalent adducts. <i>Optical Materials</i> , 2018, 76, 42-47.	1.7	7
102	Efficient interfacial charge transfer through plasmon sensitized $Ag@Bi_2O_3$ hierarchical photoanodes for photoelectrocatalytic degradation of chlorinated phenols. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3710-3723.	1.3	33
103	Evidence of Bipolar Resistive Switching Memory in Perovskite Solar Cell. <i>IEEE Journal of the Electron Devices Society</i> , 2018, 6, 454-463.	1.2	15
104	Industrial waste fly ash cenosphere composites based broad band microwave absorber. <i>Composites Part B: Engineering</i> , 2018, 134, 151-163.	5.9	69
105	Effect of molecular architecture on morphology in the nanostructures and its applications in superhydrophobicity and organic photovoltaics. <i>Journal of Materials Science</i> , 2018, 53, 1264-1278.	1.7	1
106	Morphology controllable microwave absorption property of polyvinylbutyral (PVB)- MnO_2 nanocomposites. <i>Composites Part B: Engineering</i> , 2018, 132, 188-196.	5.9	74
107	Synthesis of Cu_2ZnSn_4 nanoparticles for solar cell applications. , 2018, , .		0
108	PDMS-Ni coated flyash cenosphere composite for broadband microwave absorption. , 2018, , .		0

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109	Effect of meso substituent on Optoelectronic Properties in BODIPY based donor acceptor Copolymers. , 2018, , .		0
110	Polyvinylbutyralâ€“Polyaniline Nanocomposite for High Microwave Absorption Efficiency. ACS Omega, 2018, 3, 16542-16548.	1.6	22
111	Higher Open-Circuit Voltage and Stability in MAPbI ₃ Perovskite Solar Cells Using A Bilayer Hole-Transport Layer with a D-A-D Architected Polymer. , 2018, , .		4
112	An updated review on factors and their inter-linked influences on photovoltaic system performance. Heliyon, 2018, 4, e00815.	1.4	28
113	Polycondensation of thiophene-flanked cyanopyridine and carbazole via direct arylation polymerization for solar cell application. Reactive and Functional Polymers, 2018, 133, 1-8.	2.0	7
114	Aggregation induced light harvesting of molecularly engineered D-A-Ï€-A carbazole dyes for dye-sensitized solar cells. Solar Energy, 2018, 174, 1085-1096.	2.9	31
115	Conjugated Molecule Based Sensor for Microbial Detection in Water with <i>E. coli</i> as a Case Study and Elucidation of Interaction Mechanism. Electroanalysis, 2018, 30, 1172-1183.	1.5	2
116	Experimental investigation of charge transfer, charge extraction, and charge carrier concentration in P3HT:PBD-DT-DPP:PC70BM ternary blend photovoltaics. Solar Energy, 2018, 174, 1078-1084.	2.9	11
117	Tailorable electromagnetic interference shielding using nickel coated glass fabric-epoxy composite with excellent mechanical property. Composites Communications, 2018, 10, 110-115.	3.3	24
118	Strategic fluorination of polymers and fullerenes improves photostability of organic photovoltaic blends. Organic Electronics, 2018, 62, 685-694.	1.4	4
119	Effect of Fluorination on the D-A-D type Hole Transporting Materials for Perovskite Solar Cells. , 2018, , .		0
120	Benzimidazole/reduced graphene oxide based field effect transistor for mercury ion detection in water. , 2018, , .		0
121	Long term aging studies of Graphene/Surlyn encapsulated organic photovoltaic devices. , 2018, , .		1
122	Safety of Light Emitting Diode (LED) Based Domestic Lighting in Rural Context. , 2018, , .		1
123	Hexylthiophene based Conjugated Polymer Metal-ion Sensor. , 2018, , .		0
124	Optically Assorted Electrospun Nanofiber Mats of Electroactive Blends for Flexible Electronics. , 2018, , .		0
125	Development of New Blue-Light Emitting PPV Block Copolymer: Synthesis, Characterization and Electro-Optical Studies. , 2018, , .		0
126	Polydispersed Metal Nanoparticles at the Interface for Improved Optoelectronic Properties in Perovskite Photovoltaics. , 2018, , .		0

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127	Controlling the Morphology and Conductivity of Thiophene Nanofibers using Electrospinning for Flexible devices. , 2018, , .		0
128	Hierarchical structures and multiscale optical coupling for improved photodetectors. , 2018, , .		0
129	One-step hydrothermal synthesis of marigold flower-like nanostructured MoS ₂ as a counter electrode for dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2018, 22, 3331-3341.	1.2	24
130	Doped silicon nanoparticles for enhanced charge transportation in organic-inorganic hybrid solar cells. Solar Energy, 2018, 173, 744-751.	2.9	21
131	Effect Of Chemical Structuring On Physical Architecture In Superhydrophobic And Organic Photovoltaics. , 2018, , .		0
132	Ruthenium based metallopolymer grafted reduced graphene oxide as a new hybrid solar light harvester in polymer solar cells. Scientific Reports, 2017, 7, 43133.	1.6	68
133	Electromagnetic interference shielding efficiency of MnO ₂ nanorod doped polyaniline film. Materials Research Express, 2017, 4, 025013.	0.8	40
134	Mechanical Actuation of Conducting Polymer in the Presence of Organic Vapor Stimulus. IEEE Sensors Journal, 2017, 17, 3391-3397.	2.4	2
135	Organic Inorganic Hybrid Hole Transport Layer for Light Management in Inverted Organic Photovoltaic. IEEE Journal of Photovoltaics, 2017, 7, 787-791.	1.5	6
136	Thienothiophene-benzoxadiazole based conjugated copolymer for organic photovoltaic application. Materials Today Communications, 2017, 11, 132-138.	0.9	1
137	Electromagnetic interference shielding effectiveness of polyaniline-nickel oxide coated cenosphere composite film. Composites Communications, 2017, 4, 37-42.	3.3	66
138	Optical and electronic property tailoring by MoS ₂ -polymer hybrid solar cell. Organic Electronics, 2017, 48, 138-146.	1.4	10
139	Design and synthesis of thieno[3,4- <i>bc</i>]pyrrole-4,6-dione based conjugated copolymers for organic solar cells. Polymer International, 2017, 66, 1206-1213.	1.6	5
140	Design and Fabrication of Photonic Structured Organic Solar Cells by Electrospinning. Journal of Physical Chemistry C, 2017, 121, 8531-8540.	1.5	10
141	Interface Electrode Morphology Effect on Carrier Concentration and Trap Defect Density in an Organic Photovoltaic Device. ACS Applied Materials & Interfaces, 2017, 9, 28774-28784.	4.0	14
142	Source materials grain size effect on electrode microstructure and its effect on conventional bulk hetero-junction photovoltaics. Solar Energy Materials and Solar Cells, 2017, 172, 244-251.	3.0	4
143	New covalent hybrids of graphene oxide with core modified and -expanded porphyrins: Synthesis, characterisation and their non linear optical properties. Carbon, 2017, 122, 307-318.	5.4	43
144	Microwave absorption property of PVB-polyaniline nanocomposite. , 2017, , .		2

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145	Plasmonic Silver Structures for Improved Perovskite Photovoltaic Performance. , 2017, , .		2
146	Performance of Monocrystalline Silicon solar cell- Influence of dust on Ultra-Violet and Visible region during early stage of deposition. , 2017, , .		1
147	Notice of Removal Tuning of molecular energy levels and photovoltaic properties of benzothiadiazole based D-A-D small molecule. , 2017, , .		0
148	Molecular-level architectural design using benzothiadiazole-based polymers for photovoltaic applications. Beilstein Journal of Organic Chemistry, 2017, 13, 863-873.	1.3	19
149	Light trapping and management in inverted organic solar cells employing metal nanoparticles. , 2017, , .		0
150	Pigmented Silk Nanofibrous Composite for Skeletal Muscle Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 1222-1232.	3.9	81
151	Molecular architecturing of a small two dimensional A-D-A molecule for photovoltaic application. MRS Advances, 2016, 1, 2917-2922.	0.5	1
152	Influence of thiophene spacer on conjugated polymer for organic photovoltaics. , 2016, , .		0
153	Light trapping and management in inverted organic solar cells employing metal nanoparticles. , 2016, , .		1
154	Understanding coupled electro-thermal processes in the catastrophic failure of organic electronic devices. Organic Electronics, 2016, 39, 354-360.	1.4	5
155	Performance evaluation for PV systems to synergistic influences of dust, wind and panel temperatures: Spectral insight. , 2016, , .		6
156	Design of nanostructures for light management in organic photovoltaic devices. , 2016, , .		1
157	Effect of structural isomerism on charge transport in copolymer of BODIPY and Benzodithiophene. , 2016, , .		0
158	Novel poly (vinyl butyral) (PVB)/polyaniline-cenosphere composite film for EMI shielding. AIP Conference Proceedings, 2016, , .	0.3	2
159	Instigating network structure in bulk heterojunction organic solar cells creating a unique approach in augmenting the optical absorption. Polymer, 2016, 91, 146-155.	1.8	9
160	Lightweight polyaniline-cobalt coated fly ash cenosphere composite film for electromagnetic interference shielding. Electronic Materials Letters, 2016, 12, 603-609.	1.0	37
161	Outstanding electromagnetic interference shielding effectiveness of polyvinylbutyralâ€“polyaniline nanocomposite film. RSC Advances, 2016, 6, 79058-79065.	1.7	43
162	Influence of MnO ₂ decorated Fe nano cauliflowers on microwave absorption and impedance matching of polyvinylbutyral (PVB) matrix. Materials Research Express, 2016, 3, 095003.	0.8	17

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163	Poly(vinyl butyral) -polyaniline-magnetically functionalized fly ash cenosphere composite film for electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2016, 106, 224-233.	5.9	59
164	Evaluation of electromagnetic interference shielding using Poly(3,4-ethylenedioxythiophene) Polystyrene sulfonate blend. , 2016, , .		4
165	Million-Fold Decrease in Polymer Moisture Permeability by a Graphene Monolayer. <i>ACS Nano</i> , 2016, 10, 6501-6509.	7.3	42
166	TiO ₂ /EVOH based reactive interlayer in Surlyn for organic device encapsulation. <i>Materials Research Express</i> , 2016, 3, 025302.	0.8	11
167	Nanostructure-based enhancement of performance in thin-film photovoltaic devices. , 2016, , .		0
168	Novel synergistic photocatalytic degradation of antibiotics and bacteria using V ^N doped TiO ₂ under visible light: the state of nitrogen in V-doped TiO ₂ . <i>New Journal of Chemistry</i> , 2016, 40, 3464-3475.	1.4	47
169	Influence of Mesoporous Silica and Butyral Content on the Mechanical, Water Absorption, and Permeability Properties of in situ Synthesized Silica/PVB Nanocomposite Films. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 1220-1230.	1.9	6
170	Nickel Electrode for Improving Current Density in Organic Electronic Device. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2016, 33, 29-33.	2.1	1
171	Enhanced sunlight photocatalytic activity of Ag ₃ PO ₄ decorated novel combustion synthesis derived TiO ₂ nanobelts for dye and bacterial degradation. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1227-1237.	1.6	53
172	In-situ flexural OPV measurements on flexible glass substrate. , 2015, , .		1
173	Effect of Micro-Structured Copper as Cathode Material for P3HT-Based Diode. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 218-223.	1.1	5
174	High photoconductive combustion synthesized TiO ₂ derived nanobelts for photocatalytic water purification under solar irradiation. <i>New Journal of Chemistry</i> , 2015, 39, 6040-6051.	1.4	29
175	Effects of temperature and clay content on water absorption characteristics of modified MMT clay/cyclic olefin copolymer nanocomposite films: Permeability, dynamic mechanical properties and the encapsulated organic device performance. <i>Composites Part B: Engineering</i> , 2015, 73, 1-9.	5.9	22
176	Novel AgBr/Ag ₃ PO ₄ Decorated Ceria Nanoflake Composites for Enhanced Photocatalytic Activity toward Dyes and Bacteria under Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8031-8042.	1.8	62
177	Design and morphology control of a thiophene derivative through electrospaying using various solvents. <i>RSC Advances</i> , 2015, 5, 60419-60425.	1.7	12
178	Organic Molecule Based Sensor for Aldehyde Detection. <i>Smart Sensors, Measurement and Instrumentation</i> , 2015, , 299-325.	0.4	1
179	Nickel coated flyash (Ni-FAC) cenosphere doped polyaniline composite film for electromagnetic shielding. <i>Materials Research Express</i> , 2015, 2, 036403.	0.8	12
180	A Surlyn/magnesium oxide nanocomposite as an effective water vapor barrier for organic device encapsulation. <i>RSC Advances</i> , 2015, 5, 32580-32587.	1.7	14

#	ARTICLE	IF	CITATIONS
181	Understanding degradation phenomena in organic electronic devices. , 2015, , .		0
182	Amine Functionalized polyaniline grafted to exfoliated graphite oxide: Synthesis, characterization and multi-element sensor studies. Journal of Electroanalytical Chemistry, 2015, 757, 137-143.	1.9	6
183	Reactive interlayer based ultra-low moisture permeable membranes for organic photovoltaic encapsulation. Physical Chemistry Chemical Physics, 2015, 17, 23165-23172.	1.3	4
184	In-situ synthesized poly(vinyl butyral)/MMT-clay nanocomposites: The role of degree of acetalization and clay content on thermal, mechanical and permeability properties of PVB matrix. Composites Science and Technology, 2015, 117, 417-427.	3.8	18
185	Narrow band gap conjugated polymer for improving the photovoltaic performance of P3HT:PCBM ternary blend bulk heterojunction solar cells. Polymer Chemistry, 2015, 6, 962-972.	1.9	28
186	Understanding evolution of electronic energy bands in low turn-on voltage DACz polymer diodes. , 2014, , .		0
187	Organic nanocomposite sensor for detection of Escherichia coli. , 2014, , .		1
188	Fabrication of free-standing PEDOT:PSS nanofiber mats using electrospinning. , 2014, , .		3
189	Organic passivation layer on flexible Surlyn substrate for encapsulating organic photovoltaics. Applied Physics Letters, 2014, 105, .	1.5	10
190	Investigation of selective sensing of a diamine for aldehyde by experimental and simulation studies. Analyst, The, 2014, 139, 6456-6466.	1.7	11
191	Water Vapor Barrier Material by Covalent Self-Assembly for Organic Device Encapsulation. Industrial & Engineering Chemistry Research, 2014, 53, 17894-17900.	1.8	5
192	Encapsulation for Improving the Efficiencies of Solar Cells. Nanostructure Science and Technology, 2014, , 23-40.	0.1	8
193	Layer-by-Layer Assembly of Nafion on Surlyn with Ultrahigh Water Vapor Barrier. Langmuir, 2014, 30, 14606-14611.	1.6	13
194	Dielectric impedance studies of poly(vinyl butyral)-cenosphere composite films. Polymer Composites, 2014, 35, 1636-1643.	2.3	21
195	Modelling of optical transport behavior of organic photovoltaic devices with nano-pillar transparent conducting electrodes. Journal of Applied Physics, 2014, 116, 074504.	1.1	4
196	Effect of silane functionalized alumina on poly(vinyl butyral) nanocomposite films: Thermal, mechanical, and moisture barrier studies. Polymer Composites, 2014, 35, 1426-1435.	2.3	14
197	Synthesis and Characterization of Trifluoromethylated Benzimidazole and Benzo[1,2-B:3,4-B']Dithiophene Based Donor-Acceptor Conjugated Polymer for Polymer Solar Cells. Materials Research Society Symposia Proceedings, 2014, 1668, 18.	0.1	0
198	Aminosilane Functionalized Censphere in Poly(vinyl butyral) Composite Films: Moisture Resistant Encapsulated Schottky Devices. Polymer-Plastics Technology and Engineering, 2014, 53, 684-692.	1.9	8

#	ARTICLE	IF	CITATIONS
199	Various architectures of electrosprayed photoactive materials: A step towards light management. Materials Research Society Symposia Proceedings, 2014, 1668, 7.	0.1	1
200	Water vapor permeabilities through polymers: diffusivities from experiments and simulations. Materials Research Express, 2014, 1, 035301.	0.8	4
201	Electrospun photonics topography for organic photovoltaics. Materials Research Society Symposia Proceedings, 2014, 1671, 1.	0.1	2
202	The design of polyaniline based sensor for the qualitative estimation of malonaldehyde. Measurement: Journal of the International Measurement Confederation, 2014, 47, 1-4.	2.5	5
203	D-structured conducting polymer-modified electrodes for detection of lead(II) ions in water. Journal of Applied Electrochemistry, 2014, 44, 133-139.	1.5	8
204	Solvent polarity and nanoscale morphology in bulk heterojunction organic solar cells: A case study. Journal of Applied Physics, 2014, 115, 104302.	1.1	5
205	Protamine-Capped Mesoporous Silica Nanoparticles for Biologically Triggered Drug Release. Particle and Particle Systems Characterization, 2014, 31, 449-458.	1.2	42
206	Colorimetric anion sensor based on receptor having indole- and thiourea-binding sites. RSC Advances, 2014, 4, 20592-20598.	1.7	20
207	Conducting polymer-carbon black nanocomposite sensor for volatile organic compounds and correlating sensor response by molecular dynamics. Sensors and Actuators B: Chemical, 2014, 201, 308-320.	4.0	40
208	Nonlinear optical second harmonic generation in ZnS quantum dots and observation on optical properties of ZnS/PMMA nanocomposites. Optics Communications, 2014, 313, 231-237.	1.0	40
209	A Donor-Acceptor Donor Structured Organic Conductor with S-S Chalcogen Bonding. Crystal Growth and Design, 2014, 14, 459-466.	1.4	60
210	Performance of an ionomer blend-nanocomposite as an effective gas barrier material for organic devices. RSC Advances, 2014, 4, 11176.	1.7	20
211	New low band gap 2-(4-(trifluoromethyl)phenyl)-1H-benzo[d]imidazole and benzo[1,2-c;4,5-c']bis[1,2,5]thiadiazole based conjugated polymers for organic photovoltaics. RSC Advances, 2014, 4, 44902-44910.	1.7	22
212	Iminodiacetic acid functionalized polypyrrole modified electrode as Pb(II) sensor: Synthesis and DPASV studies. Electrochimica Acta, 2014, 137, 557-563.	2.6	20
213	Cell (module) temperature regulated performance of a building integrated photovoltaic system in tropical conditions. Renewable Energy, 2014, 72, 140-148.	4.3	18
214	Influence of Dust Deposition on Photovoltaic Panel Performance. Energy Procedia, 2014, 54, 690-700.	1.8	106
215	Self-Assembled, Aligned ZnO Nanorod Buffer Layers for High-Current-Density, Inverted Organic Photovoltaics. ACS Applied Materials & Interfaces, 2014, 6, 16792-16799.	4.0	19
216	Impedance spectroscopy of novel hybrid composite films of polyvinylbutyral (PVB)/functionalized mesoporous silica. Composites Part B: Engineering, 2014, 58, 134-139.	5.9	26

#	ARTICLE	IF	CITATIONS
217	The influence of mesoporous silica in low T _g cyclic olefin copolymer nanocomposite films: Mechanical and moisture barrier studies. <i>Composites Science and Technology</i> , 2014, 96, 80-87.	3.8	5
218	Fabrication of Poly(Vinylidene Chloride-Co-Vinyl Chloride)/TiO ₂ Nanocomposite Films and Their Dielectric Properties. <i>Science of Advanced Materials</i> , 2014, 6, 946-953.	0.1	13
219	Fabrication of Hollow Microspheres Using Single Step Electrospaying Process. <i>Journal of Research Updates in Polymer Science</i> , 2014, 3, 108-113.	0.3	2
220	Dielectric properties of novel PVA/ZnO hybrid nanocomposite films. <i>Composites Part B: Engineering</i> , 2013, 47, 314-319.	5.9	202
221	Selectivity of organic nanocomposite sensor for detection of aldehydes. , 2013, , .		0
222	Flexible poly(vinyl alcohol-co-ethylene)/modified MMT moisture barrier composite for encapsulating organic devices. <i>RSC Advances</i> , 2013, 3, 12831.	1.7	26
223	Polyvinylbutyral Based Hybrid Organic/Inorganic Films as a Moisture Barrier Material. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4383-4394.	1.8	34
224	Ionomer Based Blend as Water Vapor Barrier Material for Organic Device Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4409-4416.	4.0	37
225	Device fabrication of insoluble donor-acceptor structured molecule by pulsed laser deposition: a comparative study using different laser source. , 2013, , .		0
226	A Promising Ketone Containing Alternating Copolymer for Organic Photovoltaics. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1500, 1.	0.1	1
227	Organic solar cell by using vertically aligned nanostructured ZnO nanorods. , 2013, , .		1
228	Nanostructured barbed wire architecturing of organic conducting material blends by electrospinning. <i>Applied Physics Letters</i> , 2012, 100, 013302.	1.5	13
229	Organic device electrode fabricated by aluminum in nanopowder and bulk form and effect on device properties. , 2012, , .		5
230	A CMOS Gas Sensor Array Platform With Fourier Transform Based Impedance Spectroscopy. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2012, 59, 2507-2517.	3.5	23
231	CMOS Gas Sensor Array Platform with Fourier Transform Based Impedance Spectroscopy. , 2012, , .		3
232	Dielectric relaxations above room temperature in DMPU derived polyaniline film. <i>Physica B: Condensed Matter</i> , 2012, 407, 3828-3832.	1.3	2
233	Hybrid nanocomposite films of polyvinyl alcohol and ZnO as interactive gas barrier layers for electronics device passivation. <i>RSC Advances</i> , 2012, 2, 11536.	1.7	35
234	Random copolymers consisting of dithienylcyclopentadienone, thiophene and benzothiadiazole for bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 263-271.	3.0	18

#	ARTICLE	IF	CITATIONS
235	Synthesis and characterization of high molecular weight polyaniline for organic electronic applications. <i>Polymer Engineering and Science</i> , 2012, 52, 1821-1830.	1.5	31
236	Lead ion sensor with electrodes modified by imidazole-functionalized polyaniline. <i>Mikrochimica Acta</i> , 2012, 177, 317-323.	2.5	21
237	Novel thiophene derivative hybrid composite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 101-107.	3.0	18
238	Dithienylcyclopentadienone derivative-co-benzothiadiazole: An alternating copolymer for organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 448-454.	3.0	17
239	Imidazole functionalized polyaniline: Synthesis, characterization, and Cu (II) coordination studies. <i>Journal of Applied Polymer Science</i> , 2012, 123, 526-534.	1.3	15
240	Covalent Grafting of Polydimethylsiloxane over Surface-Modified Alumina Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 6585-6593.	1.8	47
241	Synthesis and characterization of silicone polymer/functionalized mesostructured silica composites. <i>Polymer Chemistry</i> , 2011, 2, 2643.	1.9	13
242	Synthesis and characterization of flexible epoxy nanocomposites reinforced with amine functionalized aluminan nanoparticles: a potential encapsulant for organic devices. <i>Polymer Chemistry</i> , 2011, 2, 221-228.	1.9	60
243	Mechanistic overview of the curing behavior of hydride terminated polydimethylsiloxane with allyl functionalized alumina by calorimetry and rheometry. <i>Thermochimica Acta</i> , 2011, 524, 74-79.	1.2	5
244	Electrochemical copolymerization of thiophene derivatives; a precursor to photovoltaic devices. <i>Electrochimica Acta</i> , 2011, 56, 8184-8191.	2.6	19
245	Pulsed laser deposition film of a donor-acceptor donor polymer as possible active layer in devices. <i>Journal of Materials Science</i> , 2011, 46, 2259-2266.	1.7	18
246	Fabrication of device quality films of high loaded PPy/MWCNT nanocomposites using pulsed laser deposition. <i>Organic Electronics</i> , 2010, 11, 1489-1499.	1.4	14
247	Integration and Distribution of Carbon Nanotubes in Solution-Processed Polyaniline/Carbon Nanotube Composites. <i>Journal of the Electrochemical Society</i> , 2007, 154, H495.	1.3	15
248	Polyaniline/carbon nanotube composite Schottky contacts. <i>Polymer Engineering and Science</i> , 2004, 44, 28-33.	1.5	26
249	Polyaniline/single-walled carbon nanotube composite electronic devices. <i>Solid-State Electronics</i> , 2004, 48, 2019-2024.	0.8	112
250	Mechanical and Electrical Properties of Solution-Processed Polyaniline/Multiwalled Carbon Nanotube Composite Films. <i>Journal of the Electrochemical Society</i> , 2004, 151, G502.	1.3	33
251	Electronic Properties of Polyaniline/Carbon Nanotube Composites. <i>Synthetic Metals</i> , 2003, 137, 1497-1498.	2.1	40
252	Influence of N,N[^{sup} Ê ¹]-Dimethylpropyleneurea Content in Polyaniline on Electrical Characteristics and Device Performance. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, G113.	2.2	14

#	ARTICLE	IF	CITATIONS
253	Mechanical Properties Of Polyaniline / Multi-walled Carbon Nanotube Composite Films. Materials Research Society Symposia Proceedings, 2003, 791, 1.	0.1	5
254	Electronic Device Fabricated From Polyaniline / Single walled Carbon Nanotubes Composite. Materials Research Society Symposia Proceedings, 2003, 772, 431.	0.1	8
255	Effect of annealing on electrical conductivity and morphology of polyaniline films. Journal of Applied Polymer Science, 2001, 82, 3602-3610.	1.3	35
256	Effect of annealing on electrical conductivity and morphology of polyaniline films. , 2001, 82, 3602.		1
257	Insights into electrochemical behavior and kinetics of NiP on PEDOT:PSS/reduced graphene oxide as high-performance electrodes for alkaline urea oxidation. Journal of Solid State Electrochemistry, 0, , 1.	1.2	5
258	Design and Development of Onsite Biofilter Unit for Effective Remediation of Contaminants from Wastewater. Clean - Soil, Air, Water, 0, , 2100396.	0.7	0
259	Polyanthranilic acid microspheres as an active material for electrochemical detection of sub-picomolar lead ion concentrations in aqueous media. Ionics, 0, , .	1.2	0