

Mohammad Rezaul Karim

List of Publications by Year in descending order

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96
papers

3,736
citations

147566

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98
docs citations

98
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4130
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of cadmium ions from water using coaxially electrospun PAN/ZnO-encapsulated PVDF nanofiber membranes. <i>Polymer Bulletin</i> , 2022, 79, 2831-2850.	1.7	17
2	Carbon Nanodots-Embedded Pullulan Nanofibers for Sulfathiazole Removal from Wastewater Streams. <i>Membranes</i> , 2022, 12, 228.	1.4	7
3	Recent Progress, Challenges, and Opportunities of Membrane Distillation for Heavy Metals Removal. <i>Chemical Record</i> , 2022, 22, e202100323.	2.9	19
4	An In-Depth Analysis of CdTe Thin-Film Deposition on Ultra-Thin Glass Substrates via Close-Spaced Sublimation (CSS). <i>Coatings</i> , 2022, 12, 589.	1.2	7
5	Magnetic/Polyetherimide-Acrylonitrile Composite Nanofibers for Nickel Ion Removal from Aqueous Solution. <i>Membranes</i> , 2021, 11, 50.	1.4	14
6	Cadmium Selenide Quantum Dots for Solar Cell Applications: A Review. <i>Chemistry - an Asian Journal</i> , 2021, 16, 902-921.	1.7	36
7	A Study on the Interfacial Compatibility, Microstructure and Physico-Chemical Properties of Polyimide/Organically Modified Silica Nanocomposite Membrane. <i>Polymers</i> , 2021, 13, 1328.	2.0	8
8	Impact of CdCl ₂ Treatment in CdTe Thin Film Grown on Ultra-Thin Glass Substrate via Close Spaced Sublimation. <i>Crystals</i> , 2021, 11, 390.	1.0	16
9	Progress and Prospects on the Fabrication of Graphene-Based Nanostructures for Energy Storage, Energy Conversion and Biomedical Applications. <i>Chemistry - an Asian Journal</i> , 2021, 16, 1365-1381.	1.7	7
10	Ni and Co oxide water oxidation electrocatalysts: Effect of thermal treatment on catalytic activity and surface morphology. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111097.	8.2	11
11	Silver Micro-Nanoparticle-Based Nanoarchitectures: Synthesis Routes, Biomedical Applications, and Mechanisms of Action. <i>Polymers</i> , 2021, 13, 2870.	2.0	13
12	Optical Losses of Frontal Layers in Superstrate CdS/CdTe Solar Cells Using OPAL2. <i>Coatings</i> , 2021, 11, 943.	1.2	3
13	Effect of Compression Pressure and Coal Binding on the Fuel Properties of Biomass Pellet. <i>Solid Fuel Chemistry</i> , 2021, 55, 429-438.	0.2	0
14	Fabrication of Ni-Co-Based Heterometallo-Supramolecular Polymer Films and the Study of Electron Transfer Kinetics for the Nonenzymatic Electrochemical Detection of Nitrite. <i>ACS Applied Polymer Materials</i> , 2020, 2, 273-284.	2.0	30
15	High yield activated porous coal carbon nanosheets from Boropukuria coal mine as supercapacitor material: Investigation of the charge storing mechanism at the interfacial region. <i>Journal of Energy Storage</i> , 2020, 32, 101908.	3.9	81
16	The fabrication of a chemical sensor with PANI-TiO ₂ nanocomposites. <i>RSC Advances</i> , 2020, 10, 12224-12233.	1.7	23
17	Hollow Reticular Shaped Highly Ordered Rice Husk Carbon for the Simultaneous Determination of Dopamine and Uric Acid. <i>Electroanalysis</i> , 2020, 32, 1957-1970.	1.5	15
18	Computational Approach to Understanding the Electrocatalytic Reaction Mechanism for the Process of Electrochemical Oxidation of Nitrite at a Ni-Co-Based Heterometallo-Supramolecular Polymer. <i>ACS Omega</i> , 2020, 5, 12882-12891.	1.6	14

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19	Improved salt rejection, hydrophilicity and mechanical properties of novel thermoplastic polymer/chitosan nanofibre membranes. <i>Journal of Engineered Fibers and Fabrics</i> , 2020, 15, 155892502092317.	0.5	2
20	Facile and efficient 3-chlorophenol sensor development based on photoluminescent core-shell CdSe/ZnS quantum dots. <i>Scientific Reports</i> , 2020, 10, 557.	1.6	33
21	Electrospun Bilayer PAN/Chitosan Nanofiber Membranes Incorporated with Metal Oxide Nanoparticles for Heavy Metal Ion Adsorption. <i>Coatings</i> , 2020, 10, 285.	1.2	35
22	Air-stable perovskite photovoltaic cells with low temperature deposited NiOx as an efficient hole-transporting material. <i>Optical Materials Express</i> , 2020, 10, 1801.	1.6	19
23	Novel optimised highly aligned electrospun PEI-PAN nanofibre mats with excellent wettability. <i>Polymer</i> , 2019, 180, 121665.	1.8	25
24	Synthesis of new simple hole-transport materials bearing benzodithiazole based core for perovskite solar cells. <i>Solar Energy</i> , 2019, 194, 431-435.	2.9	5
25	Selective Detection of Dopamine at the AACVD Synthesized Palladium Nanoparticles and Understanding the Sensing Mechanism through Electrochemical and Computational Study. <i>Journal of the Electrochemical Society</i> , 2019, 166, B1528-B1542.	1.3	14
26	Addition of Graphite Filler to Enhance Electrical, Morphological, Thermal, and Mechanical Properties in Poly (Ethylene Terephthalate): Experimental Characterization and Material Modeling. <i>Polymers</i> , 2019, 11, 1411.	2.0	40
27	Impact of CdTe thin film thickness in ZnxCd1-xS/CdTe solar cell by RF sputtering. <i>Solar Energy</i> , 2019, 180, 559-566.	2.9	37
28	Effects of growth temperature on the photovoltaic properties of RF sputtered undoped NiO thin films. <i>Results in Physics</i> , 2019, 14, 102360.	2.0	51
29	Mixed Dyes for Dye-sensitized Solar Cells Applications. <i>Current Nanoscience</i> , 2019, >15, 501-505.	0.7	6
30	A comprehensive defect study of tungsten disulfide (WS ₂) as electron transport layer in perovskite solar cells by numerical simulation. <i>Results in Physics</i> , 2019, 12, 1097-1103.	2.0	90
31	Composite nanofibers membranes of poly(vinyl alcohol)/chitosan for selective lead(II) and cadmium(II) ions removal from wastewater. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 479-486.	2.9	217
32	Fabrication of 1,4-dioxane sensor based on microwave assisted PANi-SiO ₂ nanocomposites. <i>Talanta</i> , 2019, 193, 64-69.	2.9	53
33	Efficient detection and adsorption of cadmium(II) ions using innovative nano-composite materials. <i>Chemical Engineering Journal</i> , 2018, 343, 118-127.	6.6	363
34	Fabrication of core-shell structured nanofibers of poly (lactic acid) and poly (vinyl alcohol) by coaxial electrospinning for tissue engineering. <i>European Polymer Journal</i> , 2018, 98, 483-491.	2.6	64
35	Study of CdTe film growth by CSS on three different types of CdS coated substrates. <i>Materials Today: Proceedings</i> , 2018, 5, 27833-27839.	0.9	2
36	Fabrication techniques and morphological analysis of perovskite absorber layer for high-efficiency perovskite solar cell: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 98, 469-488.	8.2	46

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37	Preparation of TiO ₂ incorporated polyacrylonitrile electrospun nanofibers for adsorption of heavy metal ions. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	30
38	Inorganic-organic based novel nano-conjugate material for effective cobalt(II) ions capturing from wastewater. <i>Chemical Engineering Journal</i> , 2017, 324, 130-139.	6.6	265
39	Ligand field effect for Dysprosium(III) and Lutetium(III) adsorption and EXAFS coordination with novel composite nanomaterials. <i>Chemical Engineering Journal</i> , 2017, 320, 427-435.	6.6	256
40	Size-Dependent Effect of Nanoceria on Their Antibacterial Activity Towards <i>Escherichia coli</i> . <i>Science of Advanced Materials</i> , 2017, 9, 1248-1253.	0.1	13
41	Conducting polyaniline-rutile TiO ₂ nanocomposites for the development of high-k dielectric materials. <i>Soft Materials</i> , 2016, 14, 238-243.	0.8	3
42	Conducting and Biopolymer Based Electrospun Nanofiber Membranes for Wound Healing Applications. <i>Current Nanoscience</i> , 2016, 12, 220-227.	0.7	13
43	Synthesis and characterization of highly organized crystalline rutile nanoparticles by low-temperature dissolution-precipitation process. <i>Journal of Materials Research</i> , 2015, 30, 1887-1893.	1.2	4
44	Biomolecule conjugated nanoparticle synthons for detection of food contaminants. <i>Canadian Journal of Chemistry</i> , 2015, 93, 925-928.	0.6	1
45	Corrosion inhibitory effect of thiourea on recrystallized E-34 microalloyed steels in acidic media. <i>Anti-Corrosion Methods and Materials</i> , 2015, 62, 212-219.	0.6	1
46	Laser from Optically Pumped Quantum Dot CdSe/ZnS in a Colloidal Liquid. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6710-6713.	0.9	3
47	Tuning of spectral response by co-sensitization in black-dye based dye-sensitized solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 651-656.	0.8	14
48	Thermoelectric Potential of Polymer-Scaffolded Ionic Liquid Membranes. <i>Journal of Electronic Materials</i> , 2014, 43, 1585-1589.	1.0	5
49	Effects of cobalt and cobalt oxide buffer layers on nucleation and growth of hot filament chemical vapor deposition diamond films on silicon (100). <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1271-1275.	1.2	1
50	Fabrication of electrospun aligned nanofibers from conducting polyaniline copolymer/polyvinyl alcohol/chitosan oligosaccharide in aqueous solutions. <i>Synthetic Metals</i> , 2013, 178, 34-37.	2.1	17
51	CdZnTe thin films growth by RF sputtering for CdTe solar cells. , 2013, , .		3
52	Shape controllable preparation and characterization of submicron lamellar and rod clusters of zinc oxide via conventional and microwave accelerated reaction methods. <i>Materials Letters</i> , 2013, 92, 376-378.	1.3	1
53	Multiwall Carbon Nanotube Coated with Conducting Polyaniline Nanocomposites for Quasi-Solid-State Dye-Sensitized Solar Cells. <i>Journal of Chemistry</i> , 2013, 2013, 1-5.	0.9	4
54	A New Heteroleptic Biquinoline Ruthenium(II) Sensitizer for Near-IR Sensitization of Nanocrystalline TiO ₂ . <i>Journal of Chemistry</i> , 2013, 2013, 1-4.	0.9	0

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55	Effect of montmorillonite on wettability and microstructure properties of zein/montmorillonite nanocomposite nanofiber mats. <i>Journal of Composite Materials</i> , 2013, 47, 251-257.	1.2	26
56	Improving the Spectral Response of Black Dye by Cosensitization with a Simple Indoline Based Dye in Dye-Sensitized Solar Cell. <i>Journal of Chemistry</i> , 2013, 2013, 1-5.	0.9	10
57	Recent Developments of Flexible CdTe Solar Cells on Metallic Substrates: Issues and Prospects. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-10.	1.4	28
58	Synthesis and Characterizations of Poly(3-hexylthiophene) and Modified Carbon Nanotube Composites. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-8.	1.5	22
59	Effects of thermal annealing on structural and optical properties of sputtered CdS thin films for photovoltaic application. , 2012, , .		8
60	Comparative study of ZnS thin films grown by chemical bath deposition and magnetron sputtering. , 2012, , .		10
61	Synthesis and Characterization of a Poly[(3-hexylthiophene-co-3-octylthiophene)]â€“SWNT Composite for Solar Cell Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012, 7, 466-470.	0.1	4
62	Thermal Behavior with Mechanical Property of Fluorinated Silane Functionalized Superhydrophobic Pullulan/Poly(vinyl alcohol) Blends by Electrospinning Method. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-7.	1.5	24
63	Nanofibre Mats in Aqueous Solution for Anti-bacterial Exploits. <i>Polymers and Polymer Composites</i> , 2011, 19, 753-762.	1.0	12
64	Quasi Solid-State Dye-Sensitized Solar Cell Incorporating Highly Conducting Polythiophene-Coated Carbon Nanotube Composites in Ionic Liquid. <i>Advances in OptoElectronics</i> , 2011, 2011, 1-7.	0.6	3
65	Surface-enhanced Raman spectroscopy of Omethoate adsorbed on silver surface. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 179-184.	2.0	14
66	Amphiphilic Ruthenium(II) Terpyridine Sensitizers with Long Alkyl Chain Substituted Î²-Diketonato Ligands: An Efficient Coadsorbent-Free Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2011, 2011, 1-7.	1.4	6
67	Optical and Transport Properties of Poly(3-Hexylthiophene)-Single-Walled-Carbon-Nanotube Composites. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011, 6, 288-292.	0.1	5
68	Conducting polyanilineâ€“titanium dioxide nanocomposites prepared by inverted emulsion polymerization. <i>Polymer Composites</i> , 2010, 31, 83-88.	2.3	15
69	Electrospinning fabrication and characterization of poly(vinyl alcohol)/montmorillonite/silver hybrid nanofibers for antibacterial applications. <i>Colloid and Polymer Science</i> , 2010, 288, 115-121.	1.0	92
70	Synthesis and characterization of poly(3â€“octylthiophene)/single wall carbon nanotube composites for photovoltaic applications. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1386-1394.	1.3	7
71	Preparation of superhydrophobic membranes by electrospinning of fluorinated silane functionalized pullulan. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 362, 117-120.	2.3	40
72	Fabrication and characterization of poly(vinyl alcohol)/alginate blend nanofibers by electrospinning method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 366, 135-140.	2.3	196

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73	Prospects of Back Surface Field Effect in Ultra-Thin High-Efficiency CdS/CdTe Solar Cells from Numerical Modeling. <i>International Journal of Photoenergy</i> , 2010, 2010, 1-8.	1.4	32
74	Poly(vinyl alcohol)-Fe ₃ O ₄ Nanocomposites Prepared by the Electrospinning Technique. <i>Soft Materials</i> , 2010, 8, 197-206.	0.8	8
75	A Comparison Method of Silver Nanoparticles Prepared by the Gamma Irradiation and in situ Reduction Methods. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 1993-1996.	1.0	15
76	Electrospinning and Characterisation of Poly(vinyl alcohol) Blend Submicron Fibres in Aqueous Solutions. <i>Polymers and Polymer Composites</i> , 2009, 17, 47-54.	1.0	15
77	Poly(vinyl alcohol)/chitosan oligosaccharide blend submicrometer fibers prepared from aqueous solutions by the electrospinning method. <i>Journal of Applied Polymer Science</i> , 2009, 111, 132-140.	1.3	39
78	Electrospinning fabrication and characterization of poly(vinyl alcohol)/montmorillonite nanofiber mats. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1860-1867.	1.3	71
79	Electrospinning and characterization of medium-molecular-weight poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (a Polymer Science, 2009, 287, 751-758.	1.0	45
80	UV-curing synthesis of sulfonated polyaniline-silver nanocomposites by an <i>in situ</i> reduction method. <i>Polymers for Advanced Technologies</i> , 2009, 20, 639-644.	1.6	26
81	Preparation and characterization of electrospun pullulan/montmorillonite nanofiber mats in aqueous solution. <i>Carbohydrate Polymers</i> , 2009, 78, 336-342.	5.1	88
82	Sulfonated polyaniline-titanium dioxide nanocomposites synthesized by one-pot UV-curable polymerization method. <i>Synthetic Metals</i> , 2009, 159, 209-213.	2.1	36
83	<i>In situ</i> intercalative polymerization of conducting polypyrrole/montmorillonite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2279-2285.	2.4	29
84	Preparation of conducting polyaniline/TiO ₂ composite submicron-rods by the ⁶⁰ Co-radiolysis oxidative polymerization method. <i>Reactive and Functional Polymers</i> , 2008, 68, 1371-1376.	2.0	61
85	Synthesis of conducting polythiophene composites with multi-walled carbon nanotube by the ⁶⁰ Co-radiolysis polymerization method. <i>Materials Chemistry and Physics</i> , 2008, 112, 779-782.	2.0	45
86	Preparation of Buckyball-Shaped Conducting Polythiophene by the Gamma Radiation-Induced Polymerization Method. <i>Macromolecular Symposia</i> , 2007, 249-250, 234-240.	0.4	3
87	Preparation of Conducting Polyaniline/TiO ₂ Composite Nanorods by the Radiolysis Polymerization Method. , 2007, , .		0
88	A facile synthesis of polythiophene nanowires. <i>Synthetic Metals</i> , 2007, 157, 1008-1012.	2.1	60
89	Synthesis and characterization of conducting polyaniline-activated carbon nanocomposites. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1973-1977.	1.3	22
90	Comparison of the adsorption orientation for 2-mercaptobenzothiazole and 2-mercaptobenzoxazole by SERS spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 1313-1319.	2.0	27

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91	Synthesis of conducting polypyrrole by radiolysis polymerization method. <i>Polymers for Advanced Technologies</i> , 2007, 18, 916-920.	1.6	42
92	Synthesis of core-shell silver-polyaniline nanocomposites by gamma radiolysis method. <i>Journal of Polymer Science Part A</i> , 2007, 45, 5741-5747.	2.5	106
93	Radiolytic synthesis of conducting polypyrrole/carbon nanotube composites. <i>Materials Letters</i> , 2007, 61, 1688-1692.	1.3	77
94	Synthesis and characterization of silver/thiophene nanocomposites by UV-irradiation method. <i>Materials Letters</i> , 2007, 61, 2675-2678.	1.3	28
95	Synthesis and characterization of conducting polythiophene/carbon nanotubes composites. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5283-5290.	2.5	168
96	SWNTs coated by conducting polyaniline: Synthesis and modified properties. <i>Synthetic Metals</i> , 2005, 151, 131-135.	2.1	114