

Manoj K Ram

List of Publications by Year in descending order

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87843

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133
all docs

133
docs citations

133
times ranked

5908
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-conducting polymer nanocomposite as novel electrode for supercapacitors. Journal of Power Sources, 2011, 196, 4102-4108.	4.0	336
2	Graphene-polyethylenedioxythiophene conducting polymer nanocomposite based supercapacitor. Electrochimica Acta, 2011, 56, 9406-9412.	2.6	275
3	CO gas sensing from ultrathin nano-composite conducting polymer film. Sensors and Actuators B: Chemical, 2005, 106, 750-757.	4.0	244
4	Synthesis, Characterization, and Applications of ZnO Nanowires. Journal of Nanomaterials, 2012, 2012, 1-22.	1.5	216
5	One dimensional-ZnO nanostructures: Synthesis, properties and environmental applications. Materials Science in Semiconductor Processing, 2013, 16, 2070-2083.	1.9	177
6	NO ₂ gas sensing based on ordered ultrathin films of conducting polymer and its nanocomposite. Synthetic Metals, 2005, 151, 77-84.	2.1	171
7	Synthesis and the physical properties of MnZn ferrite and NiMnZn ferrite-polyaniline nanocomposite particles. Journal of Materials Chemistry, 2005, 15, 810-817.	6.7	164
8	Cholesterol biosensors prepared by layer-by-layer technique. Biosensors and Bioelectronics, 2001, 16, 849-856.	5.3	160
9	Application of conducting polyaniline as sensor material for ammonia. Sensors and Actuators B: Chemical, 1997, 40, 99-103.	4.0	134
10	Nano-assembly of glucose oxidase on their in situ self-assembled films of polypyrrole and its optical, surface and electrochemical characterizations. Nanotechnology, 2000, 11, 112-119.	1.3	107
11	Polypyrrole composites for shielding applications. Synthetic Metals, 2005, 151, 211-217.	2.1	103
12	Investigation of Physical Properties of Graphene-Cement Composite for Structural Applications. Open Journal of Composite Materials, 2014, 04, 12-21.	0.4	99
13	Preparation of silica microspheres encapsulating phase-change material by sol-gel method in O/W emulsion. Journal of Microencapsulation, 2006, 23, 3-14.	1.2	96
14	Physical Properties of Polyaniline Films: Assembled by the Layer-by-Layer Technique. Langmuir, 1999, 15, 1252-1259.	1.6	93
15	Synthesis of Multiwalled Carbon Nanotubes and Poly(o-anisidine) Nanocomposite Material: Fabrication and Characterization of Its Langmuir-Schaefer Films. Langmuir, 2002, 18, 1535-1541.	1.6	80
16	Supercapacitors based on graphene-polyaniline derivative nanocomposite electrode materials. Electrochimica Acta, 2013, 92, 376-382.	2.6	76
17	Graphene/Polypyrrole Nanocomposite as Electrochemical Supercapacitor Electrode: Electrochemical Impedance Studies. Graphene, 2013, 02, 81-87.	0.3	74
18	Vacuum-deposited metal/polyaniline Schottky device. Applied Physics Letters, 1992, 61, 1219-1221.	1.5	72

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19	Electrochromic properties of polycarbazole films. <i>Polymer</i> , 1997, 38, 1625-1629.	1.8	71
20	The electrochromic response of polyaniline and its copolymeric systems. <i>Thin Solid Films</i> , 1997, 303, 27-33.	0.8	71
21	Application of polyaniline-Langmuir-Blodgett films as a glucose biosensor. <i>Materials Science and Engineering C</i> , 1995, 3, 159-163.	3.8	68
22	Optical and Electrochemical Properties of Poly(o-toluidine) Multiwalled Carbon Nanotubes Composite Langmuir-Schaefer Films. <i>Langmuir</i> , 2004, 20, 969-973.	1.6	67
23	Novel Synthesis, Characterization, and Corrosion Inhibition Properties of Nanodiamond-Polyaniline Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18797-18804.	1.5	65
24	Electron transfer mechanism of cytochrome c at graphene electrode. <i>Applied Physics Letters</i> , 2010, 96, 263702.	1.5	59
25	Enhanced photocatalytic activity of iron doped zinc oxide nanowires for water decontamination. <i>Surface and Coatings Technology</i> , 2013, 217, 119-123.	2.2	54
26	Electrochemical impedance-based DNA sensor using a modified single walled carbon nanotube electrode. <i>Materials Science and Engineering C</i> , 2011, 31, 821-825.	3.8	48
27	Comparative studies on Langmuir-Schaefer films of polyanilines. <i>Synthetic Metals</i> , 1999, 100, 249-259.	2.1	46
28	A physical insight into the gas-sensing properties of copper (II) tetra-(tert-butyl)-5,10,15,20-tetraazaporphyrin Langmuir-Blodgett films. <i>Thin Solid Films</i> , 2000, 379, 279-286.	0.8	45
29	Fabrication and physico-chemical properties of Nafion Langmuir-Schaefer films. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4036-4043.	1.3	45
30	Optical, structural and fluorescence microscopic studies on reduced form of polyaniline: The leucoemeraldine base. <i>Synthetic Metals</i> , 1997, 89, 63-69.	2.1	44
31	Physical insight in the in-situ self-assembled films of polypyrrole. <i>Polymer</i> , 2000, 41, 7499-7509.	1.8	44
32			

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37	Nanoassemblies of sulfonated polyaniline multilayers. <i>Nanotechnology</i> , 2000, 11, 30-36.	1.3	41
38	Poly(o-anisidine) Langmuir-Schaefer Films: Fabrication and Characterization. <i>Langmuir</i> , 1997, 13, 2760-2765.	1.6	40
39	Nanostructured photocatalysis in the visible spectrum for the decontamination of air and water. <i>International Materials Reviews</i> , 2018, 63, 257-282.	9.4	36
40	Dielectric relaxation in thin conducting polyaniline films. <i>Polymer</i> , 1998, 39, 3399-3404.	1.8	34
41	Langmuir-Schaefer films of a poly(o-anisidine) conducting polymer for sensors and displays. <i>Nanotechnology</i> , 1998, 9, 228-236.	1.3	34
42	Performance of electrochromic cells of polyaniline in polymeric electrolytes. <i>Journal of Materials Science Letters</i> , 1994, 13, 1490-1493.	0.5	33
43	Ultrathin films of tetrasulfonated copper phthalocyanine-capped titanium dioxide nanoparticles: Fabrication, characterization, and photovoltaic effect. <i>Journal of Colloid and Interface Science</i> , 2005, 290, 166-171.	5.0	33
44	Cellular and in vitro toxicity of nanodiamond-polyaniline composites in mammalian and bacterial cell. <i>Materials Science and Engineering C</i> , 2012, 32, 594-598.	3.8	33
45	A simple photolytic reactor employing Ag-doped ZnO nanowires for water purification. <i>Thin Solid Films</i> , 2014, 564, 258-263.	0.8	33
46	P450scc Engineering and Nanostructuring for Cholesterol Sensing. <i>Langmuir</i> , 2001, 17, 3719-3726.	1.6	32
47	GOX-functionalized nanodiamond films for electrochemical biosensor. <i>Materials Science and Engineering C</i> , 2011, 31, 1115-1120.	3.8	30
48	A Review of Supercapacitor Energy Storage Using Nanohybrid Conducting Polymers and Carbon Electrode Materials. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 165-192.	0.5	30
49	Effect of annealing on physical properties of conducting poly(ortho-anisidine) Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1997, 302, 89-97.	0.8	29
50	Electrochemical Supercapacitors Based on Graphene-Conducting Polythiophenes Nanocomposite. <i>ECS Transactions</i> , 2011, 35, 167-174.	0.3	29
51	Electrochemical and optical characteristics of conducting poly(o-toluidine) films. <i>Thin Solid Films</i> , 1997, 304, 65-69.	0.8	28
52	A novel nitrogen rich porous aromatic framework for hydrogen and carbon dioxide storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13800.	5.2	28
53	Volumetric hydrogen sorption measurements – Uncertainty error analysis and the importance of thermal equilibration time. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1469-1477.	3.8	28
54	High performance graphene-poly (o-anisidine) nanocomposite for supercapacitor applications. <i>Materials Chemistry and Physics</i> , 2013, 141, 263-271.	2.0	27

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55	Fabrication and Characterization of ZnO Langmuir-Blodgett Film and Its Use in Metal-Insulator-Metal Tunnel Diode. <i>Langmuir</i> , 2016, 32, 8307-8314.	1.6	27
56	Interfacial polarization in semiconducting polypyrrole thin films. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 5747-5756.	0.7	26
57	Evaluating the chemio-physio properties of novel zinc oxide-polyaniline nanocomposite polymer films. <i>Polymer Journal</i> , 2010, 42, 935-940.	1.3	26
58	Microfluidic hydrothermal growth of ZnO nanowires over high aspect ratio microstructures. <i>Nanotechnology</i> , 2013, 24, 375301.	1.3	26
59	THERMAL ENERGY STORAGE FOR CONCENTRATING SOLAR POWER PLANTS. <i>Technology and Innovation</i> , 2012, 14, 81-91.	0.2	25
60	Construction of organic-inorganic hybrid ultrathin films self-assembled from poly(thiophene-3-acetic acid) and TiO ₂ . <i>Journal of Materials Chemistry</i> , 2002, 12, 3585-3590.	6.7	24
61	Reversible hydrogen storage in the Li-Mg-N-H system - The effects of Ru doped single walled carbon nanotubes on NH ₃ emission and kinetics. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10039-10049.	3.8	19
62	Novel electrochromism phenomenon observed in polyaniline films. <i>Synthetic Metals</i> , 1995, 75, 119-122.	2.1	18
63	Dielectric spectroscopic studies on polypyrrole glucose oxidase films. <i>Journal of Applied Polymer Science</i> , 1996, 60, 2309-2316.	1.3	17
64	Nanofabrication of Organic/Inorganic Hybrids of TiO ₂ with Substituted Phthalocyanine or Polythiophene. <i>Journal of Nanoscience and Nanotechnology</i> , 2001, 1, 207-213.	0.9	17
65	Spillover enhancement for hydrogen storage by Pt doped hypercrosslinked polystyrene. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12402-12410.	3.8	17
66	Electrical properties of metal/Langmuir-Blodgett (polymeraldine base) layer/metal devices. <i>Journal of Applied Polymer Science</i> , 1997, 63, 141-145.	1.3	16
67	Toward bacteriorhodopsin based photocells. <i>Biosensors and Bioelectronics</i> , 1999, 14, 427-433.	5.3	15
68	Controlled-atmosphere chamber for atomic force microscopy investigations. <i>Review of Scientific Instruments</i> , 2000, 71, 2409-2413.	0.6	15
69	Microencapsulated dimethyl terephthalate phase change material for heat transfer fluid performance enhancement. <i>International Journal of Energy Research</i> , 2017, 41, 252-262.	2.2	15
70	Graphene-Polythiophene Nanocomposite as Novel Supercapacitor Electrode Material. <i>Journal of New Materials for Electrochemical Systems</i> , 2012, 15, 89-95.	0.3	15
71	Langmuir-Schaefer Films of Processable Poly(o-ethoxyaniline) Conducting Polymer: Fabrication, Characterization and Application as Sensor for Heavy Metallic Ions. <i>Electroanalysis</i> , 2001, 13, 574-581.	1.5	14
72	Optimization of Photocatalytic Degradation of Phenol Using Simple Photocatalytic Reactor. <i>American Journal of Analytical Chemistry</i> , 2014, 05, 743-750.	0.3	14

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73	Optical and electrical characteristics of electrodeposited polypyrrole films. Journal of Applied Polymer Science, 1993, 50, 411-417.	1.3	13
74	Preparation, characterization and electrochemical properties of Nafion® doped poly(ortho-anisidine) Langmuir-Schaefer films. Electrochemistry Communications, 2003, 5, 787-792.	2.3	13
75	Novel Nanohybrid Structured Regioregular Polyhexylthiophene Blend Films for Photoelectrochemical Energy Applications. Journal of Physical Chemistry C, 2011, 115, 21987-21995.	1.5	13
76	Polyvinyl alcohol-acid redox active gel electrolytes for electrical double-layer capacitor devices. Journal of Solid State Electrochemistry, 2019, 23, 125-133.	1.2	13
77	Synthesis of controlled copolymerisation of aniline and ortho-anisidine: a physical insight in its Langmuir-Schaefer films. Synthetic Metals, 2001, 123, 197-206.	2.1	12
78	Electrochemical investigation on MEH-PPV/C60 nanocomposite Langmuir-Schaefer films. Electrochemistry Communications, 2002, 4, 503-505.	2.3	12
79	Effects of the physical properties of atomic layer deposition grown seeding layers on the preparation of ZnO nanowires. Journal of Physics and Chemistry of Solids, 2013, 74, 1578-1588.	1.9	12
80	Comparative photoelectrochemical studies of regioregular polyhexylthiophene with microdiamond, nanodiamond and hexagonal boron nitride hybrid films. Thin Solid Films, 2016, 615, 226-232.	0.8	12
81	Preparation and characterization of Langmuir-Blodgett films of polyemeraldine base. Polymer, 1996, 37, 4809-4813.	1.8	11
82	Detection of hydrogen sulfide: the role of fatty acid salt Langmuir-Blodgett films. Materials Science and Engineering C, 2000, 11, 121-128.	3.8	11
83	Electrochromic response of thin polypyrrole film in semi-solid electrolyte. Journal of Materials Science Letters, 1996, 15, 997.	0.5	10
84	High Performance Asymmetric Supercapacitors Based on Dual Phosphorus (P) and Nitrogen (N) co-Doped Carbon and Graphene-Polyaniline Electrodes. ECS Journal of Solid State Science and Technology, 2017, 6, M3168-M3172.	0.9	10
85	AC conductivity of polyemeraldine base. Journal of Physics Condensed Matter, 1994, 6, 8913-8922.	0.7	9
86	Langmuir-Blodgett films of rhodopsin: an infrared spectroscopic study. Thin Solid Films, 1998, 327-329, 118-122.	0.8	9
87	A Polyaniline-Based Redox-Active Composite Gel Electrolyte with Photo-Electric and Electrochromic Properties. ChemElectroChem, 2019, 6, 5888-5895.	1.7	9
88	Enhanced Photocatalytic Remediation Using Graphene (G)-Titanium Oxide (TiO ₂) Nanocomposite Material in Visible Light Radiation. American Journal of Analytical Chemistry, 2016, 07, 576-587.	0.3	9
89	Morphological investigation of polyvinyl-4-methoxy cinnamate photopolymer thin and ultrathin films under linear photopolymerization. Thin Solid Films, 1998, 325, 251-253.	0.8	8
90	An investigation about thin films of poly[2-methoxy-5-(2-ethyl-hexyloxy) phenylene vinylene] (MEH-PPV) prepared by Langmuir-Schaefer technique. Journal of Materials Science, 2003, 38, 4951-4956.	1.7	8

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91	Nanometer sized polymer based Schottky junctions. Thin Solid Films, 2006, 510, 229-234.	0.8	8
92	Comparative Organics Remediation Properties of Nanostructured Graphene Doped Titanium Oxide and Graphene Doped Zinc Oxide Photocatalysts. American Journal of Analytical Chemistry, 2015, 06, 708-717.	0.3	8
93	Title is missing!. Journal of Materials Science, 2001, 36, 5423-5428.	1.7	7
94	A new chromic (TouchChromic) thin film. Acta Materialia, 2016, 121, 325-330.	3.8	7
95	Fabrication and characterization of composite Langmuir-Schaefer films of poly(ortho-anisidine) conducting polymer and tri-(2,4-di- <i>t</i> -amylphenoxy)-(8-quinolinolyl) copper phthalocyanine. Synthetic Metals, 2001, 118, 81-88.	2.1	6
96	Characterization of 10,12-pentacosadiynoic acid Langmuir-Blodgett monolayers and their use in metal-insulator-metal tunnel devices. Beilstein Journal of Nanotechnology, 2014, 5, 2240-2247.	1.5	6
97	Fabrication and characterization of NiO based metal-insulator-metal diode using Langmuir-Blodgett method for high frequency rectification. AIP Advances, 2018, 8, .	0.6	6
98	Investigation of Polyaniline Nanocomposites and Cross-Linked Polyaniline for Hydrogen Storage. Advanced Materials Research, 0, 445, 571-576.	0.3	5
99	The use of conducting polymer to stabilize the nanostructured photocatalyst for water remediation. Journal of Environmental Chemical Engineering, 2017, 5, 5547-5555.	3.3	5
100	Apparent Piezo-Photocurrent Modulation in Methylammonium Lead Iodide Perovskite Photodetectors. Advanced Electronic Materials, 2019, 5, 1900518.	2.6	5
101	Electromagnetic applications of conducting and nanocomposite materials. , 2008, , 435-475.		4
102	A Comparative Study on Substituted Polyanilines for Supercapacitors. Materials Research Society Symposia Proceedings, 2012, 1388, 1.	0.1	4
103	ALUMINUM-HEMATITE THIN FILMS FOR PHOTOELECTROCHEMICAL APPLICATIONS. Surface Review and Letters, 2018, 25, 1950031.	0.5	4
104	A flexible fiber-shaped hybrid cell with a photoactive gel electrolyte for concurrent solar energy harvesting and charge storage. International Journal of Energy Research, 2022, 46, 17084-17095.	2.2	4
105	Photovoltaic properties of multi walled carbon nanotubes - poly(3-octathiophene) conducting polymer blends structures. Materials Research Society Symposia Proceedings, 2013, 1493, 139-144.	0.1	3
106	Hydrothermal Synthesis of MoO ₂ Nanoparticles Directly onto a Copper Substrate. MRS Advances, 2016, 1, 1051-1054.	0.5	3
107	Au/Cr-ZnO-Ni structured metal-insulator-metal diode fabrication using Langmuir-Blodgett technique for infrared sensing. Proceedings of SPIE, 2016, , .	0.8	3
108	Supramolecular Organic Layer Engineering for Industrial Nanotechnology. , 2001, , .		3

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109	Nanostructured Hybrid Graphene-Conducting Polymers for Electrochemical Supercapacitor Electrodes. , 2016, , 479-501.		3
110	Gas Sensors Based on Ultrathin Films of Conducting Polymers and Nanocomposites. , 0, , 223-245.		2
111	Synthesis and Characterization of Novel Graphene Silicon Oxide Nanocomposite Material. Materials Research Society Symposia Proceedings, 2012, 1400, 73.	0.1	2
112	Macroencapsulation of Sodium Nitrate for Thermal Energy Storage in Solar Thermal Power. , 2012, , .		2
113	Nanostructured Hybrid Graphene-Conducting Polymers for Electrochemical Supercapacitor Electrodes. , 2015, , 1-19.		2
114	Design and fabrication of metal-insulator-metal diode for high frequency applications. Proceedings of SPIE, 2017, , .	0.8	2
115	Photo-Electric Properties of Polypyrrole Based Gel Electrolyte for Hybrid Photoactive Supercapacitors. ECS Transactions, 2019, 92, 7-14.	0.3	2
116	Conducting Polymer Nanocomposite Membrane as Chemical Sensors. , 2010, , 43-72.		2
117	Towards sustainable electrochemical energy storage: solution-based processing of polyquinone composites. RSC Advances, 2022, 12, 9416-9423.	1.7	2
118	Novel Aster-like ZnO Nanowire Clusters for Nanocomposites. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	1
119	A Resistless Process for the Production of Patterned, Vertically Aligned ZnO Nanowires.. Materials Research Society Symposia Proceedings, 2011, 1302, 8201.	0.1	1
120	Supercapacitor Based on Graphene & Polyaniline Nanocomposite Electrode. Materials Research Society Symposia Proceedings, 2011, 1312, 1.	0.1	1
121	PHOTOELECTROCHEMICAL CELL OF HYBRID REGIOREGULAR POLY(3-HEXYLTHIOPHENE-2,5-DIYL) AND MOLYBDENUM DISULFIDE FILM. Surface Review and Letters, 2017, 24, 1750026.	0.5	1
122	Solâ€“Gel Synthesis of Ruthenium Oxide-Graphene Nanocomposites as Electrode Material for Supercapacitor Applications. Graphene, 2014, 2, 117-122.	0.2	1
123	Gold Nanoparticles Modified Glassy Carbon Electrodes as Electrochemical Biosensors. Advanced Science Letters, 2012, 5, 131-134.	0.2	1
124	Glucose Oxidase-Functionalized Nanodiamond Films for Biosensor Application. Materials Research Society Symposia Proceedings, 2011, 1282, 149.	0.1	0
125	Electrical and Structural Diagnostics of Barium Strontium Titanate (BST) Thin Films. Materials Research Society Symposia Proceedings, 2011, 1292, 149.	0.1	0
126	Electrochemical Oxidation of Phenol in Water Solutions Using Nanocrystalline Boron-Doped Diamond Film Anode. Materials Research Society Symposia Proceedings, 2012, 1395, 21.	0.1	0

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127	Cholesterol Biosensor Based on Nanodiamond-Polypyrrole Conducting Nanocomposite Membrane. Materials Research Society Symposia Proceedings, 2012, 1414, 26.	0.1	0
128	Poly (acrylic acid) - mediated soft template synthesis of Poly (3, 4-ethylenedioxythiophene)-based conducting polymer nanostructures for supercapacitor applications. Materials Research Society Symposia Proceedings, 2013, 1497, 1.	0.1	0
129	Comparative Study of Electrode Stabilization Technique for Graphene-Polyaniline Nanocomposite Electrodes Using Dielectrics for Supercapacitor Applications. ECS Transactions, 2013, 50, 111-116.	0.3	0
130	p-n Based Photoelectrochemical Device for Water Splitting Application Alpha-Hematite (α -Fe ₂ O ₃)-Titanium Dioxide (TiO ₂) as N-Electrode & Polyhexylthiophene (PHT) - Nanodiamond (ND) as P-Electrode. MRS Advances, 2018, 3, 697-706.	0.5	0
131	Conducting Polymer Nanocomposite Membrane as Chemical Sensors. , 2010, , 43-72.		0
132	Investigation of Polyaniline Nanocomposites and Cross-Linked Polyaniline for Hydrogen Storage. Advanced Materials Research, 0, 445, 571-576.	0.3	0
133	Sensors for Chemical and Biological Applications. , 2010, , .		0