

Anantha-Iyengar Gopalan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

280
papers

9,381
citations

55
h-index

82
g-index

293
ext. papers

9,922
ext. citations

4.4
avg. IF

6.25
L-index

#	Paper	IF	Citations
280	Conducting polymer based visible light photocatalytic composites for pollutant removal: Progress and prospects. <i>Environmental Technology and Innovation</i> , 2022 , 102698	7	0
279	Facile Use of Silver Nanoparticles-Loaded Alumina/Silica in Nanofluid Formulations for Enhanced Catalytic Performance toward 4-Nitrophenol Reduction. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
278	Current advancements on charge selective contact interfacial layers and electrodes in flexible hybrid perovskite photovoltaics. <i>Journal of Energy Chemistry</i> , 2021 , 54, 151-173	12	27
277	Polyethylene Glycol Coated Magnetic Nanoparticles: Hybrid Nanofluid Formulation, Properties and Drug Delivery Prospects. <i>Nanomaterials</i> , 2021 , 11,	5.4	14
276	Enhanced compressive strength of rammed earth walls stabilized with eco-friendly multi-functional polymeric system. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111681	16.2	2
275	Manganese and Graphene Included Titanium Dioxide Composite Nanowires: Fabrication, Characterization and Enhanced Photocatalytic Activities. <i>Nanomaterials</i> , 2020 , 10,	5.4	17
274	A Comparative Evaluation of Physicochemical Properties and Photocatalytic Efficiencies of Cerium Oxide and Copper Oxide Nanofluids. <i>Catalysts</i> , 2020 , 10, 34	4	8
273	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO-Based Building Materials. <i>Nanomaterials</i> , 2020 , 10,	5.4	23
272	Cost-Effective Production of TiO with 90-Fold Enhanced Photocatalytic Activity Via Facile Sequential Calcination and Ball Milling Post-Treatment Strategy. <i>Materials</i> , 2020 , 13,	3.5	3
271	Interface modification using a post-treatment-free heteropolyacid for effective charge selective bilayer formation in perovskite solar cells. <i>Materials Letters</i> , 2020 , 277, 128393	3.3	0
270	Highly sensitive voltammetric immunosensor for the detection of prostate specific antigen based on silver nanoprobe assisted graphene oxide modified screen printed carbon electrode. <i>Talanta</i> , 2020 , 208, 120389	6.2	34
269	Mixed Copper/Copper-Oxide Anchored Mesoporous Fullerene Nanohybrids as Superior Electrocatalysts toward Oxygen Reduction Reaction. <i>Small</i> , 2020 , 16, e1903937	11	34
268	Highly ordered iron oxide-mesoporous fullerene nanocomposites for oxygen reduction reaction and supercapacitor applications. <i>Microporous and Mesoporous Materials</i> , 2019 , 285, 21-31	5.3	38
267	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NOx Removal. <i>Catalysts</i> , 2019 , 9, 170	4	27
266	Functionalized conjugated polymers for sensing and molecular imprinting applications. <i>Progress in Polymer Science</i> , 2019 , 88, 1-129	29.6	124
265	One-Step Preparation of Nickel Nanoparticle-Based Magnetic Poly(Vinyl Alcohol) Gels. <i>Coatings</i> , 2019 , 9, 744	2.9	4
264	Facile Fabrication of Metal Oxide Based Catalytic Electrodes by AC Plasma Deposition and Electrochemical Detection of Hydrogen Peroxide. <i>Catalysts</i> , 2019 , 9, 888	4	9

263	Recent Progress on the Sensing of Pathogenic Bacteria Using Advanced Nanostructures. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 216-244	5.1	93
262	Highly selective non-enzymatic electrochemical sensor based on a titanium dioxide nanowire-poly(3-aminophenyl boronic acid)-gold nanoparticle ternary nanocomposite.. <i>RSC Advances</i> , 2018 , 8, 2138-2147	3.7	25
261	Additive assisted morphological optimization of photoactive layer in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 182, 246-254	6.4	34
260	A new optical-electrical integrated buffer layer design based on gold nanoparticles tethered thiol containing sulfonated polyaniline towards enhancement of solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 112-123	6.4	42
259	Improving Photovoltaic Properties of P3HT:ICBA through the Incorporation of Small Molecules. <i>Polymers</i> , 2018 , 10,	4.5	16
258	Functional solid additive modified PEDOT:PSS as an anode buffer layer for enhanced photovoltaic performance and stability in polymer solar cells. <i>Scientific Reports</i> , 2017 , 7, 45079	4.9	75
257	Polyaniline nanoflowers grafted onto nanodiamonds via a soft template-guided secondary nucleation process for high-performance glucose sensing. <i>RSC Advances</i> , 2017 , 7, 15342-15351	3.7	27
256	New Titanium Dioxide-Based Heterojunction Nanohybrid for Highly Selective Photoelectrochemical-Electrochemical Dual-Mode Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37166-37183	9.5	39
255	A novel bismuth oxychloride-graphene hybrid nanosheets based non-enzymatic photoelectrochemical glucose sensing platform for high performances. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 352-360	11.8	61
254	Incorporation of silver nanoparticles on the surface of orthodontic microimplants to achieve antimicrobial properties. <i>Korean Journal of Orthodontics</i> , 2017 , 47, 3-10	1.4	21
253	Preparation of Graphene Included Crosslinked Polyacrylate Gel as an Efficient Adsorbent for Chromium(VI) Ions. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017 , 12, 569-574	1.3	2
252	Direct electrochemistry of cytochrome c with three-dimensional nanoarchitected multicomponent composite electrode and nitrite biosensing. <i>Sensors and Actuators B: Chemical</i> , 2016 , 228, 737-747	8.5	37
251	Fabrication of a novel dual mode cholesterol biosensor using titanium dioxide nanowire bridged 3D graphene nanostacks. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 64-71	11.8	74
250	Direct electrochemistry of cytochrome c immobilized on titanium nitride/multi-walled carbon nanotube composite for amperometric nitrite biosensor. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 543-52	11.8	80
249	A novel multicomponent redox polymer nanobead based high performance non-enzymatic glucose sensor. <i>Biosensors and Bioelectronics</i> , 2016 , 84, 53-63	11.8	49
248	Enantioselective Determination of Polycyclic Musks in River and Wastewater by GC/MS/MS. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13,	4.6	10
247	Design of Graphene- and Polyaniline-Containing Functional Polymer Hydrogel as a New Adsorbent for Removal of Chromium (VI) Ions. <i>Polymers</i> , 2016 , 8,	4.5	7
246	Electrostatic nanoassembly of contact interfacial layer for enhanced photovoltaic performance in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 153, 148-163	6.4	28

245	A futuristic strategy to influence the solar cell performance using fixed and mobile dopants incorporated sulfonated polyaniline based buffer layer. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 275-290	6.4	27
244	Sulfated Titania-Silica Reinforced Nafion Nanocomposite Membranes for Proton Exchange Membrane Fuel Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7054-9	1.3	7
243	Nanophase Changes in Nickel Doped Titania Composites by Thermal Treatment and Photocatalytic Destruction of NO(x). <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7262-71	1.3	2
242	Fabrication of New Thermo-pH Responsive Carbon Nanotube Gels. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7327-33	1.3	2
241	New Heterojunction Titanium Dioxide Nanowire as Photocatalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7421-5	1.3	4
240	A new facile strategy for higher loading of silver nanoparticles onto silica for efficient catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , 2015 , 5, 76170-76181	3.7	34
239	Efficient visible-light-driven photocatalytic degradation of nitrophenol by using graphene-encapsulated TiO ₂ nanowires. <i>Journal of Hazardous Materials</i> , 2015 , 283, 400-9	12.8	73
238	Facile synthesis of functionalized graphene-palladium nanoparticle incorporated multicomponent TiO ₂ composite nanofibers. <i>Materials Chemistry and Physics</i> , 2015 , 154, 125-136	4.4	25
237	A novel chitosan functional gel included with multiwall carbon nanotube and substituted polyaniline as adsorbent for efficient removal of chromium ion. <i>Chemical Engineering Journal</i> , 2015 , 267, 51-64	14.7	105
236	Mild wetting poor solvent induced hydrogen bonding interactions for improved performance in bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2174-2186	13	32
235	Preparation of new self-humidifying composite membrane by incorporating graphene and phosphotungstic acid into sulfonated poly(ether ether ketone) film. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 17162-17177	6.7	16
234	Passive approach for the improved dispersion of polyvinyl alcohol-based functionalized multi-walled carbon nanotubes/Nafion membranes for polymer electrolyte membrane fuel cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 9329-34	1.3	5
233	Facile electrodeposition of flower like gold nanostructures on a conducting polymer support. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 3256-61	1.3	7
232	Synthesis of novel poly(amidoxime) grafted multiwall carbon nanotube gel and uranium adsorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2451-8	1.3	10
231	Development of Novel Electrospun Functional Nanofibrous Mats for Efficient Uranium/Lithium Recovery. <i>Science of Advanced Materials</i> , 2014 , 6, 1365-1374	2.3	2
230	One Pot Synthesis of New Gold Nanoparticles Dispersed Poly(2-aminophenyl boronic acid) Composites for Fabricating an Affinity Based Electrochemical Detection of Glucose. <i>Science of Advanced Materials</i> , 2014 , 6, 1356-1364	2.3	13
229	Fabrication of Gold Nanoflower Anchored Conducting Polymer Hybrid Film Electrode by Pulse Potentiostatic Deposition. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1065-1067	4.4	10
228	A kinetic study on the formation of poly(4 aminodiphenylamine)/copper nanocomposite using UV-visible spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 321-30	4.4	5

227	Development of a surface plasmon assisted label-free calorimetric method for sensitive detection of mercury based on functionalized gold nanorods. <i>Journal of Analytical Atomic Spectrometry</i> , 2013 , 28, 488	3.7	25
226	Nanodiamond based sponges with entrapped enzyme: a novel electrochemical probe for hydrogen peroxide. <i>Biosensors and Bioelectronics</i> , 2013 , 46, 136-41	11.8	55
225	Fabrication of horseradish peroxidase immobilized poly(N-[3-(trimethoxy silyl)propyl]aniline) gold nanorods film modified electrode and electrochemical hydrogen peroxide sensing. <i>Electrochimica Acta</i> , 2013 , 92, 71-78	6.7	58
224	Chemical Grafting of New Poly(Aminophenyl Bornoic Acid) Chains onto the Surface of Silica Nanoparticles. <i>Advanced Materials Research</i> , 2013 , 717, 90-94	0.5	
223	Non-covalent bonding interaction of surfactants with functionalized carbon nanotubes in proton exchange membranes for fuel cell applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7424-9	1.3	9
222	Functionalized Carbon Nanotubes Reinforced Polymer Electrolyte Membranes Prepared by Surfactant-Assisted Casting for Fuel Cell Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013 , 8, 551-556	1.3	2
221	Facile Synthesis of Novel Multiwalled Carbon Nanotube Supported Polyaniline/Phosphotungstic Based Electrocatalysts. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013 , 8, 493-497	1.3	2
220	Preparation and Characterization of MWCNT-g-Poly (Aniline-co-DABSA)/Nafion [®] Nanocomposite Membranes for Direct Methanol Fuel Cells. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 2657-2662	1.2	2
219	Facile One-Pot Synthesis of Poly(4-Aminodiphenylamine)/Copper Nanocomposite and Electrocatalytic Oxidation of Ascorbic Acid. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2013 , 8, 545-550	1.3	2
218	One-step modification of various electrode surfaces using diazonium salt compounds and the application of this technology to electrochemical DNA (E-DNA) sensors. <i>Electrochimica Acta</i> , 2012 , 76, 394-403	6.7	34
217	Preparation of poly(4-aminodiphenylamine)/silver nanoparticles composite and catalysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 807-810	2.1	3
216	Radiation induced preparation of new multifunctional nanobiowebs. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1407-1410	2.5	3
215	Preparation of Co/Pd alloy particles dispersed multiwalled carbon nanotube supported nanocatalysts via gamma irradiation. <i>Radiation Physics and Chemistry</i> , 2012 , 81, 1422-1425	2.5	3
214	Development of a novel cyano group containing electrochemically deposited polymer film for ultrasensitive simultaneous detection of trace level cadmium and lead. <i>Journal of Hazardous Materials</i> , 2012 , 237-238, 46-54	12.8	61
213	Influence of medium on the nanostructure and properties of poly(4-aminodiphenylamine)-silver nanocomposites. <i>Polymer International</i> , 2012 , 61, 539-544	3.3	2
212	Glucose sensing, photocatalytic and antibacterial properties of graphene/ZnO nanoparticle hybrids. <i>Carbon</i> , 2012 , 50, 2994-3000	10.4	238
211	Development of Novel Catalysts by γ Irradiation-Induced Distribution of Pt-Sn Nanoparticles onto Multiwalled Carbon Nanotubes. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012 , 7, 444-448	1.3	4
210	Enhanced electrocatalytic performance of cyano groups containing conducting polymer supported catalyst for oxidation of formic acid. <i>Catalysis Communications</i> , 2011 , 12, 1084-1087	3.2	7

209	Synthesis and characterization of polyaniline grafted multiwalled carbon nanotube loaded Nafion-silica nanocomposite membrane. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 747-50	1.3	3
208	Strategically functionalized carbon nanotubes as the ultrasensitive electrochemical probe for picomolar detection of sildenafil citrate (Viagra). <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3018-22	11.8	4
207	Course of poly(4-aminodiphenylamine)/Ag nanocomposite formation through UV-vis spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 1256-66	4.4	8
206	Preparation of a functional nanofibrous polymer membrane incorporated with poly(2-aminothio phenol) stabilized gold nanoparticles. <i>Gold Bulletin</i> , 2011 , 44, 37-42	1.6	7
205	Sensitive electrochemical detection of superoxide anion using gold nanoparticles distributed poly(methyl methacrylate)-polyaniline core-shell electrospun composite electrode. <i>Analyst, The</i> , 2011 , 136, 1557-61	5	52
204	Large-scale preparation of polyaniline nanospheres anchored with thiol-stabilized gold nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 358-62	1.3	
203	Gold Particle Dispersed Hollow Spherical Polyaniline Nanocapsules as Electrochemical Catalysts for Direct Methanol Fuel Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 325-329	1.3	2
202	Development of Gold-Nanoparticle-Dispersed Multiwalled Carbon Nanotubes as Electrocatalysts for Direct Methanol Fuel Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 353-356	1.3	3
201	Functionalized Carbon Nanotube Dispersion in a Nafion [®] Composite Membrane for Proton Exchange Membrane Fuel Cell Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 357-362	1.3	7
200	Preparation of a Sulfonated Multiwalled Carbon Nanotube/Nafion [®] Nanocomposite Membrane for Direct Methanol Fuel Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 217-222	1.3	2
199	Electrospun carbon nanotubes-gold nanoparticles embedded nanoweb: prosperous multi-functional nanomaterials. <i>Nanotechnology</i> , 2010 , 21, 134021	3.4	15
198	Silver nanoparticles distributed into polyaniline bridged silica network: A functional nanocatalyst having synergistic influence for catalysis. <i>Catalysis Communications</i> , 2010 , 11, 913-918	3.2	41
197	Nanomolar detection of dopamine at multi-walled carbon nanotube grafted silica network/gold nanoparticle functionalised nanocomposite electrodes. <i>Analyst, The</i> , 2010 , 135, 397-404	5	42
196	Preparation of poly(1,5 diamino naphthalene) nanobelts/nanodiscs through a "hard-soft combined templates" approach. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5302-6	1.3	2
195	One-pot construction of mediatorless bi-enzymatic glucose biosensor based on organic-inorganic hybrid. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1579-86	11.8	41
194	Hollow spherical nanocapsules of poly(pyrrole) as a promising support for Pt/Ru nanoparticles based catalyst. <i>Materials Chemistry and Physics</i> , 2010 , 120, 18-22	4.4	18
193	Silica-Polyaniline Based Bienzyme Cholesterol Biosensor: Fabrication and Characterization. <i>Electroanalysis</i> , 2010 , 22, 2467-2474	3	11
192	Large Scale Preparation of Palladium Nanoparticles Loaded Polyaniline Nanostructures through Seed Induced Bulk Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1330-1338	2.6	11

191	Preparation of poly(2-amino thiophenol) nanodiscs by a "combined hard-soft template" approach and characterization. <i>Journal of Colloid and Interface Science</i> , 2010 , 352, 238-43	9.3	3
190	Sulfonated polyaniline network grafted multi-wall carbon nanotubes for enzyme immobilization, direct electrochemistry and biosensing of glucose. <i>Microchemical Journal</i> , 2010 , 95, 74-79	4.8	46
189	Novel fabrication of on-column capillary inlet frits through flame induced sintering of stainless steel particles. <i>Microchemical Journal</i> , 2010 , 95, 67-73	4.8	12
188	Electrocatalytic oxidation and determination of ascorbic acid in the presence of dopamine at multiwalled carbon nanotube-silica network-gold nanoparticles based nanohybrid modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2010 , 143, 696-703	8.5	89
187	Bioelectrocatalytic determination of nitrite ions based on polyaniline grafted nanodiamond. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1638-43	11.8	60
186	Hierarchically-ordered electroactive silica-polyaniline nanohybrid: A novel material with versatile properties. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 4537-4546	2.5	5
185	Poly(diphenylamine-co-3-aminobenzonitrile)/Palladium as a New Nanocatalyst for Borohydride Fuel Cells. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2010 , 5, 175-180	1.3	4
184	Preparation and Characterization of an Oxidized MWCNT-Reinforced Nafion [®] Nanocomposite Membrane for Direct Methanol Fuel Cell. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2010 , 5, 208-211	1.3	4
183	Facile One-Pot Preparation of a New Palladium-Supported Nanocatalyst for the Electrochemical Reduction of Oxygen. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2010 , 5, 252-256	1.3	2
182	Fabrication and properties of poly(vinylidene fluoride)/PbS/Au heterogeneous nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 115-22	1.3	4
181	Layer-by-layer electrochemical assembly of poly(diphenylamine)/phosphotungstic acid as ascorbic acid sensor. <i>Mikrochimica Acta</i> , 2009 , 166, 303-310	5.8	33
180	An electrochemical glucose biosensor exploiting a polyaniline grafted multiwalled carbon nanotube/perfluorosulfonate ionomer-silica nanocomposite. <i>Biomaterials</i> , 2009 , 30, 5999-6005	15.6	108
179	Hollow spherical nanostructured polydiphenylamine for direct electrochemistry and glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2008-14	11.8	37
178	Covalently linked silica-multiwall carbon nanotube-polyaniline network: an electroactive matrix for ultrasensitive biosensor. <i>Biosensors and Bioelectronics</i> , 2009 , 25, 944-7	11.8	18
177	Direct electrochemistry of cytochrome c and biosensing for hydrogen peroxide on polyaniline grafted multi-walled carbon nanotube electrode. <i>Sensors and Actuators B: Chemical</i> , 2009 , 141, 518-525	8.5	62
176	Pd (core)-Au (shell) nanoparticles catalyzed conversion of NADH to NAD ⁺ by UV-vis spectroscopy--a kinetic analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 74, 678-84	4.4	19
175	Synergistic contributions of multiwall carbon nanotubes and gold nanoparticles in a chitosan-ionic liquid matrix towards improved performance for a glucose sensor. <i>Electrochemistry Communications</i> , 2009 , 11, 397-401	5.1	86
174	Development of a stable cholesterol biosensor based on multi-walled carbon nanotubes-gold nanoparticles composite covered with a layer of chitosan-room-temperature ionic liquid network. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2211-7	11.8	126

173	Fabrication of a novel layer-by-layer film based glucose biosensor with compact arrangement of multi-components and glucose oxidase. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3131-4	11.8	62
172	Fabrication of enzymatic glucose biosensor based on palladium nanoparticles dispersed onto poly(3,4-ethylenedioxythiophene) nanofibers. <i>Bioelectrochemistry</i> , 2009 , 75, 61-6	5.6	94
171	Synthesis and characterization of nanostructured wires (1D) to plates (3D) LiV ₃ O ₈ combining sol-gel and electrospinning processes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 417-22	1.3	11
170	Synthesis and electrochemical performance of high voltage cycling LiCo _{0.8} M _{0.2} O ₂ (M=Mg, Ca, Ba) as cathode material. <i>Materials Research Bulletin</i> , 2008 , 43, 1401-1411	5.1	18
169	Facile synthesis of conducting polymer-metal hybrid nanocomposite by in situ chemical oxidative polymerization with negatively charged metal nanoparticles. <i>Materials Letters</i> , 2008 , 62, 1815-1818	3.3	198
168	Effect of deposition sequence of platinum and ruthenium particles into nanofibrous network of polyaniline-poly(styrene sulfonic acid) on electrocatalytic oxidation of methanol. <i>Synthetic Metals</i> , 2008 , 158, 603-609	3.6	24
167	Platinum particles dispersed polyaniline-modified electrodes containing sulfonated polyelectrolyte for methanol oxidation. <i>Synthetic Metals</i> , 2008 , 158, 767-774	3.6	38
166	Electrocatalytic oxidation of NADH at gold nanoparticles loaded poly(3,4-ethylenedioxythiophene)-poly(styrene sulfonic acid) film modified electrode and integration of alcohol dehydrogenase for alcohol sensing. <i>Talanta</i> , 2008 , 75, 1307-14	6.2	101
165	Electrochemical detection of celecoxib at a polyaniline grafted multiwall carbon nanotubes modified electrode. <i>Analytica Chimica Acta</i> , 2008 , 626, 1-9	6.6	36
164	Fabrication of functional poly(thiophene) electrode for biosensors. <i>Ultramicroscopy</i> , 2008 , 108, 1360-4	3.1	8
163	Fast preparation of photopolymerized monolithic columns for capillary electrochromatography. <i>Central South University</i> , 2008 , 15, 176-182		
162	Radiolytic synthesis of Pd _M (M = Ag, Au, Cu, Ni and Pt) alloy nanoparticles and their use in reduction of 4-nitrophenol. <i>Journal of Industrial and Engineering Chemistry</i> , 2008 , 14, 687-692	6.3	55
161	Electro-assisted fabrication of layer-by-layer assembled poly(2,5-dimethoxyaniline)/phosphotungstic acid modified electrode and electrocatalytic oxidation of ascorbic acid. <i>Electrochemistry Communications</i> , 2008 , 10, 527-530	5.1	33
160	Self-assembly approach for the synthesis of electro-magnetic functionalized Fe ₃ O ₄ /polyaniline nanocomposites: Effect of dopant on the properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 320, 49-56	5.1	233
159	Novel method to prepare polystyrene-based monolithic columns for chromatographic and electrophoretic separations by microwave irradiation. <i>Journal of Chromatography A</i> , 2008 , 1188, 43-9	4.5	38
158	A novel glucose biosensor based on immobilization of glucose oxidase into multiwall carbon nanotubes-polyelectrolyte-loaded electrospun nanofibrous membrane. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 771-9	11.8	131
157	Self-assembly directed synthesis of gold nanostructures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 612-616	5.1	3
156	Poly(vinylidene fluoride)-polydiphenylamine composite electrospun membrane as high-performance polymer electrolyte for lithium batteries. <i>Journal of Membrane Science</i> , 2008 , 318, 422-428	9.6	58

155	Development of electrospun PVDF/PAN membrane-based polymer electrolytes for lithium batteries. <i>Journal of Membrane Science</i> , 2008 , 325, 683-690	9.6	230
154	Fabrication of Functional Nanofibrous Ammonia Sensor. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 513-518.	18.6	28
153	Dispersion of gold nanoparticles into thiol-functionalized carbon nanotubes by γ -radiation. <i>Diamond and Related Materials</i> , 2007 , 16, 1688-1692	3.5	24
152	Influence of Finely Dispersed Carbon Nanotubes on the Performance Characteristics of Polymer Electrolytes for Lithium Batteries. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 362-367	2.6	11
151	Synthesis and characterization of core-shell SiO ₂ nanoparticles/poly(3-aminophenylboronic acid) composites. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 2743-2750	2.9	291
150	Synthesis and characterization of novel conducting composites of Fe ₃ O ₄ nanoparticles and sulfonated polyanilines. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 4127-4134	2.9	66
149	Novel electrically conductive and ferromagnetic composites of poly(aniline-co-aminonaphthalenesulfonic acid) with iron oxide nanoparticles: Synthesis and characterization. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 1181-1191	2.9	157
148	Gamma radiation induced distribution of gold nanoparticles into carbon nanotube-polyaniline composite. <i>Composites Science and Technology</i> , 2007 , 67, 811-816	8.6	61
147	Different types of molecular interactions in carbon nanotube/conducting polymer composites: A close analysis. <i>Composites Science and Technology</i> , 2007 , 67, 900-905	8.6	49
146	Electrospun poly(vinylidene fluoride)/poly(aminophenylboronic acid) composite nanofibrous membrane as a novel glucose sensor. <i>Analytical Biochemistry</i> , 2007 , 360, 189-95	3.1	85
145	Organosilane modified magnetite nanoparticles/poly(aniline-co- <i>o</i> / <i>m</i> -aminobenzenesulfonic acid) composites: Synthesis and characterization. <i>Reactive and Functional Polymers</i> , 2007 , 67, 943-954	4.6	106
144	Synthesis and properties of magnetite/poly (aniline-co- <i>8</i> -amino-2-naphthalenesulfonic acid) (SPAN) nanocomposites. <i>Polymers for Advanced Technologies</i> , 2007 , 18, 38-43	3.2	61
143	Composite electrodes consisting of platinum particles and polyaniline nanowires as electrocatalysts for methanol oxidation. <i>Polymer Composites</i> , 2007 , 28, 650-656	3	11
142	Interfacial synthesis of platinum loaded polyaniline nanowires in poly(styrene sulfonic acid). <i>Materials Letters</i> , 2007 , 61, 4400-4405	3.3	23
141	Synthesis and chiro-optical properties of water processable conducting poly(diphenylamine) nanocomposites. <i>Macromolecular Research</i> , 2007 , 15, 575-580	1.9	14
140	Preparation of monolithic capillary columns for capillary electrochromatography by γ -ray irradiation. <i>Mikrochimica Acta</i> , 2007 , 158, 353-360	5.8	13
139	Optimization strategies for separation of sulfadiazines using Box-Behnken design by liquid chromatography and capillary electrophoresis. <i>Central South University</i> , 2007 , 14, 196-201		15
138	Novel amperometric carbon monoxide sensor based on multi-wall carbon nanotubes grafted with polydiphenylamine: Fabrication and performance. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 92-99	8.5	62

137	Self-assembly directed synthesis of poly(ortho-toluidine)-metal(gold and palladium) composite nanospheres. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3117-25	1.3	221
136	Synthesis and characterization of processable multi-walled carbon nanotubes-sulfonated polydiphenylamine graft copolymers. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3386-93	1.3	5
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133	Fabrication of a gold nanoparticles decorated carbon nanotubes based novel modified electrode for the electrochemical detection of glucose. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3365-72	1.3	12
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