

Anantha-Iyengar Gopalan

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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	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
279	Glucose sensing, photocatalytic and antibacterial properties of graphene/ZnO nanoparticle hybrids. <i>Carbon</i> , 2012 , 50, 2994-3000	10.4	238
278	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
277	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
276	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
275	Synthesis of metal (Fe or Pd)/alloy (Fe/Pd)-nanoparticles-embedded multiwall carbon nanotube/sulfonated polyaniline composites by γ irradiation. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3355-3364	2.5	218
274	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
273	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
272	Gold nanoparticles dispersed polyaniline grafted multiwall carbon nanotubes as newer electrocatalysts: Preparation and performances for methanol oxidation. <i>Journal of Catalysis</i> , 2006 , 238, 177-185	7.3	145
271	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
270	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
269	Functionalized conjugated polymers for sensing and molecular imprinting applications. <i>Progress in Polymer Science</i> , 2019 , 88, 1-129	29.6	124
268	Electrochemical determination of dopamine and ascorbic acid at a novel gold nanoparticles distributed poly(4-aminothiophenol) modified electrode. <i>Talanta</i> , 2007 , 71, 1774-81	6.2	110
267	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
266	Organosilane modified magnetite nanoparticles/poly(aniline-co-o/m-aminobenzenesulfonic acid) composites: Synthesis and characterization. <i>Reactive and Functional Polymers</i> , 2007 , 67, 943-954	4.6	106
265	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
264	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

263	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
262	Fabrication of a new polyaniline grafted multi-wall carbon nanotube modified electrode and its application for electrochemical detection of hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2006 , 575, 32-8	6.6	93
261	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
260	Interaction between the surface of the silver nanoparticles prepared by γ irradiation and organic molecules containing thiol group. <i>Radiation Physics and Chemistry</i> , 2003 , 67, 517-521	2.5	90
259	Electrocatalytic oxidation and determination of ascorbic acid in the presence of dopamine at multiwalled carbon nanotube silica network gold nanoparticles based nano hybrid modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2010 , 143, 696-703	8.5	89
258	Synergistic contributions of multiwall carbon nanotubes and gold nanoparticles in a chitosan based liquid matrix towards improved performance for a glucose sensor. <i>Electrochemistry Communications</i> , 2009 , 11, 397-401	5.1	86
257	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
256	Identification of inductive behavior for polyaniline via electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2002 , 47, 1305-1315	6.7	85
255	Dispersing of Ag, Pd, and PtRu alloy nanoparticles on single-walled carbon nanotubes by γ irradiation. <i>Materials Letters</i> , 2005 , 59, 1121-1124	3.3	83
254	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
253	Preparation of catalytically efficient precious metallic colloids by γ irradiation and characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 256, 165-170	5.1	78
252	Negative capacitance for polyaniline: an analysis via electrochemical impedance spectroscopy. <i>Synthetic Metals</i> , 2002 , 128, 179-189	3.6	78
251	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
250	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
249	Facile Synthesis of Hollow Spheres of Sulfonated Polyanilines. <i>Polymer Journal</i> , 2006 , 38, 349-354	2.7	74
248	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
247	Enhanced electrocatalytic performance for methanol oxidation of a novel Pt-dispersed poly(3,4-ethylenedioxythiophene)/poly(styrene sulfonic acid) electrode. <i>Journal of Power Sources</i> , 2006 , 160, 65-72	8.9	71
246	Large-area network of polyaniline nanowires supported platinum nanocatalysts for methanol oxidation. <i>Synthetic Metals</i> , 2007 , 157, 651-658	3.6	70

245	Adsorption of uranium ions by resins with amidoxime and amidoxime/carboxyl group prepared by radiation-induced polymerization. <i>Radiation Physics and Chemistry</i> , 2003 , 67, 387-390	2.5	70
244	Rapid separation of Sudan dyes by reverse-phase high performance liquid chromatography through statistically designed experiments. <i>Journal of Chromatography A</i> , 2005 , 1098, 183-7	4.5	67
243	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
242	Highly dispersed hydrous ruthenium oxide in poly(3,4-ethylenedioxythiophene)-poly(styrene sulfonic acid) for supercapacitor electrode. <i>Electrochimica Acta</i> , 2006 , 52, 1058-1063	6.7	63
241	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
240	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
239	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
238	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
237	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
236	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
235	Synthesis and properties of magnetite/poly (aniline-co-8-amino-2-naphthalenesulfonic acid) (SPAN) nanocomposites. <i>Polymers for Advanced Technologies</i> , 2007 , 18, 38-43	3.2	61
234	Bioelectrocatalytic determination of nitrite ions based on polyaniline grafted nanodiamond. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1638-43	11.8	60
233	Synthesis and characterization of soluble conducting poly(aniline-co-2, 5-dimethoxyaniline). <i>Materials Letters</i> , 2003 , 57, 1765-1774	3.3	60
232	Electrochemical Copolymerization of Diphenylamine with Aniline by a Pulse Potentiostatic Method. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 3014	3.9	59
231	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
230	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
229	Preparation and properties of new cross-linked polyurethane acrylate electrolytes for lithium batteries. <i>Journal of Power Sources</i> , 2006 , 160, 609-620	8.9	58
228	Electrochemical and spectroelectrochemical monitoring of supercapacitance and electrochromic properties of hydrous ruthenium oxide embedded poly(3,4-ethylenedioxythiophene) poly(styrene sulfonic acid) composite. <i>Electrochimica Acta</i> , 2006 , 51, 3469-3476	6.7	56

227	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
226	Radiolytic synthesis of PdM (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
225	Gold nanoparticles dispersed into poly(aminothiophenol) as a novel electrocatalyst fabrication of modified electrode and evaluation of electrocatalytic activities for dioxygen reduction. <i>Journal of Molecular Catalysis A</i> , 2006 , 256, 335-345		55
224	A novel composite gel polymer electrolyte for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2002 , 110, 27-33	8.9	53
223	Identification of electrochromic sites in poly(diphenylamine) using a novel absorbance potential wavelength profile. <i>Electrochimica Acta</i> , 2001 , 47, 423-431	6.7	53
222	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
221	Study of ionic conductivity and microstructure of a cross-linked polyurethane acrylate electrolyte. <i>Polymer</i> , 2002 , 43, 681-691	3.9	50
220	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
219	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
218	Electrocatalytic Dioxygen Reduction at Glassy Carbon Electrode Modified with Polyaniline Grafted Multiwall Carbon Nanotube Film. <i>Electroanalysis</i> , 2006 , 18, 1564-1571	3	48
217	In situ UV-visible spectroelectrochemical studies on the copolymerization of diphenylamine with anthranilic acid. <i>Materials Chemistry and Physics</i> , 2002 , 74, 58-65	4.4	47
216	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
215	Structural influence on the electronic properties of methoxy substituted polyaniline/aluminum Schottky barrier diodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 104, 88-95	3.1	46
214	In situ, UV-visible spectroelectrochemical studies on the initial stages of copolymerization of aniline with diphenylamine-4-sulphonic acid. <i>Electrochimica Acta</i> , 2001 , 46, 1071-1085	6.7	43
213	Electrochemical Synthesis of a Polyaniline-Based Conducting Copolymer with Sinks. <i>Journal of the Electrochemical Society</i> , 2001 , 148, D9	3.9	43
212	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
211	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
210	Enhanced Electrocatalysis for the Reduction of Hydrogen Peroxide at New Multiwall Carbon Nanotube Grafted Polydiphenylamine Modified Electrode. <i>Electroanalysis</i> , 2006 , 18, 894-903	3	42

209	Tuning of morphology of Ag nanoparticles in the Ag/polyaniline nanocomposites prepared by γ -ray irradiation. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 463-468	3.9	42
208	Application of statistical design strategies to optimize the conductivity of electrosynthesized polypyrrole. <i>Materials Letters</i> , 2002 , 55, 165-170	3.3	42
207	Soluble and methane sulfonic acid doped poly(diphenylamine) synthesis and characterization. <i>Materials Letters</i> , 2002 , 57, 280-290	3.3	42
206	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
205	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
204	Effect of secondary dopants on electrochemical and spectroelectrochemical properties of polyaniline. <i>Electrochimica Acta</i> , 2006 , 51, 2756-2764	6.7	41
203	Electrochemical and Spectroelectrochemical Evidences for Copolymer Formation Between 2-Aminodiphenylamine and Aniline. <i>Journal of the Electrochemical Society</i> , 2001 , 148, E427	3.9	41
202	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
201	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
200	Platinum particles dispersed polyaniline-modified electrodes containing sulfonated polyelectrolyte for methanol oxidation. <i>Synthetic Metals</i> , 2008 , 158, 767-774	3.6	38
199	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
198	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
197	Hollow spherical nanostructured polydiphenylamine for direct electrochemistry and glucose biosensor. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2008-14	11.8	37
196	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
195	Tuning the optical sensing of pH by poly(diphenylamine). <i>Sensors and Actuators B: Chemical</i> , 2003 , 96, 646-657	8.5	36
194	The inductive behavior derived from hydrolysis of polyaniline. <i>Electrochimica Acta</i> , 2002 , 47, 4195-4206	6.7	35
193	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
192	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

191	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
190	Platinum particles dispersed poly(diphenylamine) modified electrode for methanol oxidation. <i>Applied Surface Science</i> , 2006 , 252, 7964-7969	6.7	34
189	Influence of dopant size on the junction properties of polyaniline. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 116, 125-130	3.1	34
188	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
187	Mixed Copper/Copper-Oxide Anchored Mesoporous Fullerene Nanohybrids as Superior Electrocatalysts toward Oxygen Reduction Reaction. <i>Small</i> , 2020 , 16, e1903937	11	34
186	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
185	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
184	Morphology and ionic conductivity of thermoplastic polyurethane electrolytes. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1154-1167	2.9	33
183	An in situ spectroelectrochemical investigation of the copolymerization of diaminobenzenesulfonic acid with aniline and its derivatives. <i>Electrochimica Acta</i> , 2001 , 46, 2463-2475	6.7	33
182	In situ UV-visible spectroelectrochemical studies on electrochromic behavior of poly(2,5-dimethoxyaniline). <i>Synthetic Metals</i> , 2002 , 130, 155-163	3.6	33
181	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
180	Preparation and characterization of cyclodextrin polymer and its high-performance liquid-chromatography stationary phase. <i>Analytical Sciences</i> , 2002 , 18, 31-4	1.7	31
179	Spectroscopic and thermal properties of the copolymer of aniline with dithiodianiline. <i>Synthetic Metals</i> , 2001 , 123, 451-457	3.6	31
178	The influence of lithium ions on molecular interaction and conductivity of composite electrolyte consisting of TPU and PAN. <i>Solid State Ionics</i> , 2002 , 147, 171-180	3.3	30
177	Electronic and junction properties of poly(2,5-dimethoxyaniline)/polyethylene oxide blend/metal Schottky diodes. <i>Thin Solid Films</i> , 2005 , 473, 300-307	2.2	30
176	Simultaneous synthesis of silver nanoparticles and poly(2,5-dimethoxyaniline) in poly(styrene sulfonic acid). <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3843-3852	2.5	29
175	Fe ³⁺ ion sensing characteristics of polydiphenylamine electrochemical and spectroelectrochemical analysis. <i>Sensors and Actuators B: Chemical</i> , 2005 , 105, 223-231	8.5	29
174	Fabrication of Functional Nanofibrous Ammonia Sensor. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 513-518	6.6	28

173	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
172	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
171	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NO _x Removal. <i>Catalysts</i> , 2019 , 9, 170	4	27
170	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
169	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
168	Evaluation of a cross-linked polyurethane acrylate as polymer electrolyte for lithium batteries. <i>Materials Research Bulletin</i> , 2006 , 41, 1023-1037	5.1	26
167	Synthesis of Poly(diphenylamine) Nanotubes in the Channels of MCM-41 through Self-Assembly. <i>Macromolecules</i> , 2005 , 38, 364-371	5.5	26
166	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
165	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
164	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
163	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
162	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
161	Graft copolymer/metal complexes obtained by radiation grafting on polyethylene film. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 500-508	2.9	24
160	Kinetics of polymerization of N,N-methylenebisacrylamide initiated by KMnO ₄ -H ₂ C ₂ O ₄ redox system. <i>European Polymer Journal</i> , 1982 , 18, 531-534	5.2	24
159	Interfacial synthesis of platinum loaded polyaniline nanowires in poly(styrene sulfonic acid). <i>Materials Letters</i> , 2007 , 61, 4400-4405	3.3	23
158	Characterization and preparation of new multiwall carbon nanotube/conducting polymer composites by in situ polymerization. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3721-3729	2.9	23
157	A novel self-assembly approach to form tubular poly(diphenylamine) inside the mesoporous silica. <i>Polymer</i> , 2005 , 46, 1804-1812	3.9	23
156	Electrochemical copolymerization of 1-naphthylamine with aniline and o-toluidine. <i>Materials Chemistry and Physics</i> , 2001 , 71, 148-154	4.4	23

155	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO-Based Building Materials. <i>Nanomaterials</i> , 2020 , 10,	5.4	23
154	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
153	Immobilization of lipase on a polymeric microsphere with an epoxy group prepared by radiation-induced polymerization. <i>Journal of Applied Polymer Science</i> , 2003 , 88, 1153-1161	2.9	21
152	Dispersion of PtRu alloys onto various carbons using γ irradiation. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 355-360	3.9	20
151	Electrochemical, spectroelectrochemical and spectroscopic evidences for copolymer formation between diphenylamine and m-toluidine. <i>Materials Chemistry and Physics</i> , 2004 , 85, 316-328	4.4	20
150	Peroxomonosulphate initiated graft copolymerization of o-toluidine onto nylon 6 and wool fibers—kinetic approach. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 2317-2326	2.9	20
149	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
148	Horseradish Peroxidase (HRP) Immobilized Poly(aniline-co-m-aminophenol) Film Electrodes—fabrication and Evaluation as Hydrogen Peroxide Sensor. <i>Sensors</i> , 2007 , 7, 719-729	3.8	19
147	Separation of proteins on polymeric stationary phases grafted with various amine groups. <i>Journal of Chromatography A</i> , 2003 , 987, 323-30	4.5	19
146	FT-Raman Spectra of o-, m-, and p-Nitrophenol Included in Cyclodextrins. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001 , 40, 271-274		19
145	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
144	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
143	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
142	One-pot synthesis of a few nanocomposites with poly(N-vinylcarbazole) and CdS, Ag, Pd50Ag50, and Pt50Ru50 nanoparticles with γ irradiation. <i>Journal of Applied Polymer Science</i> , 2006 , 100, 1809-1815	2.9	18
141	Polyaniline and cyclodextrin based chiral nanobundles—functional materials having size and enantioselectivity. <i>Nanotechnology</i> , 2006 , 17, 375-380	3.4	18
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139	Preparation and characterization of poly(ester)-silver and nylon-silver nanocomposites. <i>Studies in Surface Science and Catalysis</i> , 2003 , 146, 93-96	1.8	18
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