Anantha-Iyengar Gopalan

List of Publications by Year
in descending order

292	10,660	24978 57	48187 88
papers	citations	h-index	g-index

293	293	293	11045
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and characterization of core-shell SiO2 nanoparticles/poly(3-aminophenylboronic acid) composites. Journal of Applied Polymer Science, 2007, 104, 2743-2750.	1.3	306
2	Glucose sensing, photocatalytic and antibacterial properties of grapheneâ€“ZnO nanoparticle hybrids. Carbon, 2012, 50, 2994-3000.	5.4	275
3	Development of electrospun PVdFâ€“PAN membrane-based polymer electrolytes for lithium batteries. Journal of Membrane Science, 2008, 325, 683-690.	4.1	263
4	Self-assembly approach for the synthesis of electro-magnetic functionalized Fe3O4/polyaniline nanocomposites: Effect of dopant on the properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 320, 49-56.	2.3	245
5	Self-Assembly Directed Synthesis of Poly (<I>ortho</I>-toluidine)-Metal (Gold and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.9	226
6	Synthesis of metal (Fe or Pd)/alloy (Feâ€“Pd)-nanoparticles-embedded multiwall carbon nanotube/sulfonated polyaniline composites by Î³ irradiation. Journal of Polymer Science Part A, 2006, 44, 3355-3364.	2.5	223
7	Facile synthesis of conducting polymerâ€“metal hybrid nanocomposite by in situ chemical oxidative polymerization with negatively charged metal nanoparticles. Materials Letters, 2008, 62, 1815-1818.	1.3	207
8	Functionalized conjugated polymers for sensing and molecular imprinting applications. Progress in Polymer Science, 2019, 88, 1-129.	11.8	173
9	Gold nanoparticles dispersed polyaniline grafted multiwall carbon nanotubes as newer electrocatalysts: Preparation and performances for methanol oxidation. Journal of Catalysis, 2006, 238, 177-185.	3.1	162
10	Novel electrically conductive and ferromagnetic composites of poly(anilineâ€coâ€aminonaphthalenesulfonic acid) with iron oxide nanoparticles: Synthesis and characterization. Journal of Applied Polymer Science, 2007, 106, 1181-1191.	1.3	160
11	A novel glucose biosensor based on immobilization of glucose oxidase into multiwall carbon nanotubesâ€“polyelectrolyte-loaded electrospun nanofibrous membrane. Biosensors and Bioelectronics, 2008, 23, 771-779.	5.3	154
12	Development of a stable cholesterol biosensor based on multi-walled carbon nanotubesâ€“gold nanoparticles composite covered with a layer of chitosanâ€“room-temperature ionic liquid network. Biosensors and Bioelectronics, 2009, 24, 2211-2217.	5.3	145
13	A novel chitosan functional gel included with multiwall carbon nanotube and substituted polyaniline as adsorbent for efficient removal of chromium ion. Chemical Engineering Journal, 2015, 267, 51-64.	6.6	123
14	Electrochemical determination of dopamine and ascorbic acid at a novel gold nanoparticles distributed poly(4-aminothiophenol) modified electrode. Talanta, 2007, 71, 1774-1781.	2.9	122
15	An electrochemical glucose biosensor exploiting a polyaniline grafted multiwalled carbon nanotube/perfluorosulfonate ionomerâ€“silica nanocomposite. Biomaterials, 2009, 30, 5999-6005.	5.7	115
16	Organosilane modified magnetite nanoparticles/poly(aniline-co-o/m-aminobenzenesulfonic acid) composites: Synthesis and characterization. Reactive and Functional Polymers, 2007, 67, 943-954.	2.0	112
17	Electrocatalytic oxidation of NADH at gold nanoparticles loaded poly(3,4-ethylenedioxythiophene)â€“poly(styrene sulfonic acid) film modified electrode and integration of alcohol dehydrogenase for alcohol sensing. Talanta, 2008, 75, 1307-1314.	2.9	110
18	Recent Progress on the Sensing of Pathogenic Bacteria Using Advanced Nanostructures. Bulletin of the Chemical Society of Japan, 2019, 92, 216-244.	2.0	108

#	Article	IF	Citations
19	Identification of inductive behavior for polyaniline via electrochemical impedance spectroscopy. Electrochimica Acta, 2002, 47, 1305-1315.	2.6	104
20	Fabrication of a new polyaniline grafted multi-wall carbon nanotube modified electrode and its application for electrochemical detection of hydrogen peroxide. Analytica Chimica Acta, 2006, 575, 32-38.	2.6	103
21	Fabrication of enzymatic glucose biosensor based on palladium nanoparticles dispersed onto poly(3,4-ethylenedioxythiophene) nanofibers. Bioelectrochemistry, 2009, 75, 61-66.	2.4	102
22	Fabrication of a novel dual mode cholesterol biosensor using titanium dioxide nanowire bridged 3D graphene nanostacks. Biosensors and Bioelectronics, 2016, 84, 64-71.	5.3	102
23	Direct electrochemistry of cytochrome c immobilized on titanium nitride/multi-walled carbon nanotube composite for amperometric nitrite biosensor. Biosensors and Bioelectronics, 2016, 79, 543-552.	5.3	100
24	Electrospun poly(vinylidene fluoride)/poly(aminophenylboronic acid) composite nanofibrous membrane as a novel glucose sensor. Analytical Biochemistry, 2007, 360, 189-195.	1.1	99
25	Functional solid additive modified PEDOT:PSS as an anode buffer layer for enhanced photovoltaic performance and stability in polymer solar cells. Scientific Reports, 2017, 7, 45079.	1.6	98
26	Electrocatalytic oxidation and determination of ascorbic acid in the presence of dopamine at multiwalled carbon nanotubeâ€“silica networkâ€“gold nanoparticles based nanohybrid modified electrode. Sensors and Actuators B: Chemical, 2010, 143, 696-703.	4.0	95
27	Interaction between the surface of the silver nanoparticles prepared by Î³-irradiation and organic molecules containing thiol group. Radiation Physics and Chemistry, 2003, 67, 517-521.	1.4	94
28	Synergistic contributions of multiwall carbon nanotubes and gold nanoparticles in a chitosanâ€“ionic liquid matrix towards improved performance for a glucose sensor. Electrochemistry Communications, 2009, 11, 397-401.	2.3	93
29	Negative capacitance for polyaniline: an analysis via electrochemical impedance spectroscopy. Synthetic Metals, 2002, 128, 179-189.	2.1	92
30	Dispersing of Ag, Pd, and Ptâ€“Ru alloy nanoparticles on single-walled carbon nanotubes by Î³-irradiation. Materials Letters, 2005, 59, 1121-1124.	1.3	90
31	Preparation of catalytically efficient precious metallic colloids by Î³-irradiation and characterization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 256, 165-170.	2.3	86
32	Enhanced electrocatalytic performance for methanol oxidation of a novel Pt-dispersed poly(3,4-ethylenedioxythiophene)â€“poly(styrene sulfonic acid) electrode. Journal of Power Sources, 2006, 160, 65-72.	4.0	82
33	A novel bismuth oxychloride-graphene hybrid nanosheets based non-enzymatic photoelectrochemical glucose sensing platform for high performances. Biosensors and Bioelectronics, 2017, 89, 352-360.	5.3	82
34	Efficient visible-light-driven photocatalytic degradation of nitrophenol by using graphene-encapsulated TiO2 nanowires. Journal of Hazardous Materials, 2015, 283, 400-409.	6.5	80
35	Adsorption of uranium ions by resins with amidoxime and amidoxime/carboxyl group prepared by radiation-induced polymerization. Radiation Physics and Chemistry, 2003, 67, 387-390.	1.4	77
36	Large-area network of polyaniline nanowires supported platinum nanocatalysts for methanol oxidation. Synthetic Metals, 2007, 157, 651-658.	2.1	76

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37	Facile Synthesis of Hollow Spheres of Sulfonated Polyanilines. Polymer Journal, 2006, 38, 349-354.	1.3	75
38	Novel amperometric carbon monoxide sensor based on multi-wall carbon nanotubes grafted with polydiphenylamineâ€"Fabrication and performance. Sensors and Actuators B: Chemical, 2007, 125, 92-99.	4.0	73
39	Gamma radiation induced distribution of gold nanoparticles into carbon nanotube-polyaniline composite. Composites Science and Technology, 2007, 67, 811-816.	3.8	71
40	Highly dispersed hydrous ruthenium oxide in poly(3,4-ethylenedioxythiophene)-poly(styrene sulfonic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	70
41	Rapid separation of Sudan dyes by reverse-phase high performance liquid chromatography through statistically designed experiments. Journal of Chromatography A, 2005, 1098, 183-187.	1.8	68
42	Poly(vinylidene fluoride)â€"polydiphenylamine composite electrospun membrane as high-performance polymer electrolyte for lithium batteries. Journal of Membrane Science, 2008, 318, 422-428.	4.1	68
43	Bioelectrocatalytic determination of nitrite ions based on polyaniline grafted nanodiamond. Biosensors and Bioelectronics, 2010, 26, 1638-1643.	5.3	68
44	Synthesis and characterization of novel conducting composites of Fe3O4 nanoparticles and sulfonated polyanilines. Journal of Applied Polymer Science, 2007, 104, 4127-4134.	1.3	67
45	Fabrication of a novel layer-by-layer film based glucose biosensor with compact arrangement of multi-components and glucose oxidase. Biosensors and Bioelectronics, 2009, 24, 3131-3134.	5.3	67
46	Development of a novel cyano group containing electrochemically deposited polymer film for ultrasensitive simultaneous detection of trace level cadmium and lead. Journal of Hazardous Materials, 2012, 237-238, 46-54.	6.5	67
47	Preparation and properties of new cross-linked polyurethane acrylate electrolytes for lithium batteries. Journal of Power Sources, 2006, 160, 609-620.	4.0	66
48	Direct electrochemistry of cytochrome c and biosensing for hydrogen peroxide on polyaniline grafted multi-walled carbon nanotube electrode. Sensors and Actuators B: Chemical, 2009, 141, 518-525.	4.0	66
49	Electrochemical Copolymerization of Diphenylamine with Aniline by a Pulse Potentiostatic Method. Journal of the Electrochemical Society, 2000, 147, 3014.	1.3	65
50	Identification of electrochromic sites in poly(diphenylamine) using a novel absorbanceâ€"potentialâ€"wavelength profile. Electrochimica Acta, 2001, 47, 423-431.	2.6	64
51	Fabrication of horseradish peroxidase immobilized poly(N-[3-(trimethoxy silyl)propyl]aniline) gold nanorods film modified electrode and electrochemical hydrogen peroxide sensing. Electrochimica Acta, 2013, 92, 71-78.	2.6	64
52	Radiolytic synthesis of Pdâ€"M (M=Ag, Au, Cu, Ni and Pt) alloy nanoparticles and their use in reduction of 4-nitrophenol. Journal of Industrial and Engineering Chemistry, 2008, 14, 687-692.	2.9	63
53	Synthesis and characterization of soluble conducting poly(aniline-co-2, 5-dimethoxyaniline). Materials Letters, 2003, 57, 1765-1774.	1.3	62
54	Synthesis and properties of magnetite/poly (aniline-co-8-amino-2-naphthalenesulfonic acid) (SPAN) nanocomposites. Polymers for Advanced Technologies, 2007, 18, 38-43.	1.6	62

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55	Nanodiamond based sponges with entrapped enzyme: A novel electrochemical probe for hydrogen peroxide. Biosensors and Bioelectronics, 2013, 46, 136-141.	5.3	62
56	New Titanium Dioxide-Based Heterojunction Nanohybrid for Highly Selective Photoelectrochemicalâ€“Electrochemical Dual-Mode Sensors. ACS Applied Materials & Interfaces, 2017, 9, 37166-37183.	4.0	62
57	Highly sensitive voltammetric immunosensor for the detection of prostate specific antigen based on silver nanoprobe assisted graphene oxide modified screen printed carbon electrode. Talanta, 2020, 208, 120389.	2.9	61
58	A novel composite gel polymer electrolyte for rechargeable lithium batteries. Journal of Power Sources, 2002, 110, 27-33.	4.0	59
59	Sensitive electrochemical detection of superoxide anion using gold nanoparticles distributed poly(methyl methacrylate)â€“polyaniline coreâ€“shell electrospun composite electrode. Analyst, The, 2011, 136, 1557.	1.7	59
60	Electrochemical and spectroelectrochemical monitoring of supercapacitance and electrochromic properties of hydrous ruthenium oxide embedded poly(3,4-ethylenedioxythiophene)â€“poly(styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	58
61	A novel multicomponent redox polymer nanobead based high performance non-enzymatic glucose sensor. Biosensors and Bioelectronics, 2016, 84, 53-63.	5.3	58
62	Mixed Copper/Copperâ€Oxide Anchored Mesoporous Fullerene Nanohybrids as Superior Electrocatalysts toward Oxygen Reduction Reaction. Small, 2020, 16, e1903937.	5.2	58
63	Gold nanoparticles dispersed into poly(aminothiophenol) as a novel electrocatalystâ€”Fabrication of modified electrode and evaluation of electrocatalytic activities for dioxygen reduction. Journal of Molecular Catalysis A, 2006, 256, 335-345.	4.8	57
64	Electrocatalytic Dioxygen Reduction at Glassy Carbon Electrode Modified with Polyaniline Grafted Multiwall Carbon Nanotube Film. Electroanalysis, 2006, 18, 1564-1571.	1.5	56
65	Study of ionic conductivity and microstructure of a cross-linked polyurethane acrylate electrolyte. Polymer, 2002, 43, 681-691.	1.8	55
66	Different types of molecular interactions in carbon nanotube/conducting polymer composites â€“ A close analysis. Composites Science and Technology, 2007, 67, 900-905.	3.8	55
67	Current advancements on charge selective contact interfacial layers and electrodes in flexible hybrid perovskite photovoltaics. Journal of Energy Chemistry, 2021, 54, 151-173.	7.1	51
68	Enhanced Electrocatalysis for the Reduction of Hydrogen Peroxide at New Multiwall Carbon Nanotube Grafted Polydiphenylamine Modified Electrode. Electroanalysis, 2006, 18, 894-903.	1.5	50
69	A new optical-electrical integrated buffer layer design based on gold nanoparticles tethered thiol containing sulfonated polyaniline towards enhancement of solar cell performance. Solar Energy Materials and Solar Cells, 2018, 174, 112-123.	3.0	50
70	Highly ordered iron oxide-mesoporous fullerene nanocomposites for oxygen reduction reaction and supercapacitor applications. Microporous and Mesoporous Materials, 2019, 285, 21-31.	2.2	50
71	Application of statistical design strategies to optimize the conductivity of electrosynthesized polypyrrole. Materials Letters, 2002, 55, 165-170.	1.3	49
72	Sulfonated polyaniline network grafted multi-wall carbon nanotubes for enzyme immobilization, direct electrochemistry and biosensing of glucose. Microchemical Journal, 2010, 95, 74-79.	2.3	49

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73	In situ UVâ€“visible spectroelectrochemical studies on the copolymerization of diphenylamine with anthranilic acid. Materials Chemistry and Physics, 2002, 74, 58-65.	2.0	48
74	Structural influence on the electronic properties of methoxy substituted polyaniline/aluminum Schottky barrier diodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 104, 88-95.	1.7	48
75	Nanomolar detection ofdopamine at multi-walled carbon nanotube grafted silica network/gold nanoparticle functionalised nanocomposite electrodes. Analyst, The, 2010, 135, 397-404.	1.7	48
76	In situ, UVâ€“Vis spectroelectrochemical studies on the initial stages of copolymerization of aniline with diphenylamine-4-sulphonic acid. Electrochimica Acta, 2001, 46, 1071-1085.	2.6	46
77	Electrochemical Synthesis of a Polyaniline-Based Conducting Copolymer withâ€‰â€”Sâ€”Sâ€”Links. Journal of the Electrochemical Society, 2001, 148, D9.	1.3	46
78	Soluble and methane sulfonic acid doped poly(diphenylamine)â€”synthesis and characterization. Materials Letters, 2002, 57, 280-290.	1.3	46
79	Tuning of morphology of Ag nanoparticles in the Ag/polyaniline nanocomposites prepared by Î³-ray irradiation. Journal of Non-Crystalline Solids, 2006, 352, 463-468.	1.5	46
80	Electrochemical and Spectroelectrochemical Evidences for Copolymer Formation Between 2-Aminodiphenylamine and Aniline. Journal of the Electrochemical Society, 2001, 148, E427.	1.3	45
81	Electro-assisted fabrication of layer-by-layer assembled poly(2,5-dimethoxyaniline)/phosphotungstic acid modified electrode and electrocatalytic oxidation of ascorbic acid. Electrochemistry Communications, 2008, 10, 527-530.	2.3	44
82	Platinum particles dispersed polyaniline-modified electrodes containing sulfonated polyelectrolyte for methanol oxidation. Synthetic Metals, 2008, 158, 767-774.	2.1	44
83	One-pot construction of mediatorless bi-enzymatic glucose biosensor based on organicâ€“inorganic hybrid. Biosensors and Bioelectronics, 2010, 25, 1579-1586.	5.3	44
84	One-step modification of various electrode surfaces using diazonium salt compounds and the application of this technology to electrochemical DNA (E-DNA) sensors. Electrochimica Acta, 2012, 76, 394-403.	2.6	44
85	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO2-Based Building Materials. Nanomaterials, 2020, 10, 1854.	1.9	44
86	Effect of secondary dopants on electrochemical and spectroelectrochemical properties of polyaniline. Electrochimica Acta, 2006, 51, 2756-2764.	2.6	42
87	Silver nanoparticles distributed into polyaniline bridged silica network: A functional nanocatalyst having synergistic influence for catalysis. Catalysis Communications, 2010, 11, 913-918.	1.6	42
88	Direct electrochemistry of cytochrome c with three-dimensional nanoarchitectured multicomponent composite electrode and nitrite biosensing. Sensors and Actuators B: Chemical, 2016, 228, 737-747.	4.0	42
89	The inductive behavior derived from hydrolysis of polyaniline. Electrochimica Acta, 2002, 47, 4195-4206.	2.6	41
90	Tuning the optical sensing of pH by poly(diphenylamine). Sensors and Actuators B: Chemical, 2003, 96, 646-657.	4.0	40

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91	Electrochemical detection of celecoxib at a polyaniline grafted multiwall carbon nanotubes modified electrode. Analytica Chimica Acta, 2008, 626, 1-9.	2.6	39
92	Novel method to prepare polystyrene-based monolithic columns for chromatographic and electrophoretic separations by microwave irradiation. Journal of Chromatography A, 2008, 1188, 43-49.	1.8	39
93	Hollow spherical nanostructured polydiphenylamine for direct electrochemistry and glucose biosensor. Biosensors and Bioelectronics, 2009, 24, 2008-2014.	5.3	39
94	Incorporation of silver nanoparticles on the surface of orthodontic microimplants to achieve antimicrobial properties. Korean Journal of Orthodontics, 2017, 47, 3.	0.8	39
95	Additive assisted morphological optimization of photoactive layer in polymer solar cells. Solar Energy Materials and Solar Cells, 2018, 182, 246-254.	3.0	39
96	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NOx Removal. Catalysts, 2019, 9, 170.	1.6	39
97	A new facile strategy for higher loading of silver nanoparticles onto silica for efficient catalytic reduction of 4-nitrophenol. RSC Advances, 2015, 5, 76170-76181.	1.7	38
98	Highly selective non-enzymatic electrochemical sensor based on a titanium dioxide nanowireâ€“poly(3-aminophenyl boronic acid)â€“gold nanoparticle ternary nanocomposite. RSC Advances, 2018, 8, 2138-2147.	1.7	38
99	In situ UVâ€“visible spectroelectrochemical studies on electrochromic behavior of poly(2,5-dimethoxy) Tj ETQq1 1 0.784314 rgBT /Ov	2.1	37
100	Morphology and ionic conductivity of thermoplastic polyurethane electrolytes. Journal of Applied Polymer Science, 2004, 91, 1154-1167.	1.3	37
101	Influence of dopant size on the junction properties of polyaniline. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 116, 125-130.	1.7	37
102	Layer-by-layer electrochemical assembly of poly(diphenylamine)/phosphotungstic acid as ascorbic acid sensor. Mikrochimica Acta, 2009, 166, 303-310.	2.5	37
103	The influence of lithium ions on molecular interaction and conductivity of composite electrolyte consisting of TPU and PAN. Solid State Ionics, 2002, 147, 171-180.	1.3	36
104	Platinum particles dispersed poly(diphenylamine) modified electrode for methanol oxidation. Applied Surface Science, 2006, 252, 7964-7969.	3.1	36
105	Polyaniline nanoflowers grafted onto nanodiamonds via a soft template-guided secondary nucleation process for high-performance glucose sensing. RSC Advances, 2017, 7, 15342-15351.	1.7	36
106	An in situ spectroelectrochemical investigation of the copolymerization of diaminobenzenesulfonic acid with aniline and its derivatives. Electrochimica Acta, 2001, 46, 2463-2475.	2.6	35
107	Polyethylene Glycol Coated Magnetic Nanoparticles: Hybrid Nanofluid Formulation, Properties and Drug Delivery Prospects. Nanomaterials, 2021, 11, 440.	1.9	34
108	Spectroscopic and thermal properties of the copolymer of aniline with dithiodianiline. Synthetic Metals, 2001, 123, 451-457.	2.1	33

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109	Mild wetting poor solvent induced hydrogen bonding interactions for improved performance in bulk heterojunction solar cells. Journal of Materials Chemistry A, 2014, 2, 2174-2186.	5.2	33
110	Preparation and Characterization of Cyclodextrin Polymer and Its High-Performance Liquid-Chromatography Stationary Phase.. Analytical Sciences, 2002, 18, 31-34.	0.8	32
111	Fe3+ ion sensing characteristics of polydiphenylamineâ€"electrochemical and spectroelectrochemical analysis. Sensors and Actuators B: Chemical, 2005, 105, 223-231.	4.0	32
112	A futuristic strategy to influence the solar cell performance using fixed and mobile dopants incorporated sulfonated polyaniline based buffer layer. Solar Energy Materials and Solar Cells, 2015, 141, 275-290.	3.0	32
113	Electrostatic nanoassembly of contact interfacial layer for enhanced photovoltaic performance in polymer solar cells. Solar Energy Materials and Solar Cells, 2016, 153, 148-163.	3.0	31
114	Electronic and junction properties of poly(2,5-dimethoxyaniline)â€"polyethylene oxide blend/metal Schottky diodes. Thin Solid Films, 2005, 473, 300-307.	0.8	30
115	Evaluation of a cross-linked polyurethane acrylate as polymer electrolyte for lithium batteries. Materials Research Bulletin, 2006, 41, 1023-1037.	2.7	30
116	Simultaneous synthesis of silver nanoparticles and poly(2,5-dimethoxyaniline) in poly(styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	2.5	29
117	Fabrication of Functional Nanofibrous Ammonia Sensor. IEEE Nanotechnology Magazine, 2007, 6, 513-518.	1.1	29
118	Kinetics of polymerization of N,N-methylenebisacrylamide initiated by KMnO4-H2C2O4 redox system. European Polymer Journal, 1982, 18, 531-534.	2.6	28
119	Dispersion of gold nanoparticles into thiol-functionalized carbon nanotubes by Î³-radiation. Diamond and Related Materials, 2007, 16, 1688-1692.	1.8	28
120	Interfacial synthesis of platinum loaded polyaniline nanowires in poly(styrene sulfonic acid). Materials Letters, 2007, 61, 4400-4405.	1.3	28
121	Effect of deposition sequence of platinum and ruthenium particles into nanofibrous network of polyanilineâ€"poly(styrene sulfonic acid) on electrocatalytic oxidation of methanol. Synthetic Metals, 2008, 158, 603-609.	2.1	28
122	Facile synthesis of functionalized graphene-palladium nanoparticle incorporated multicomponent TiO2 composite nanofibers. Materials Chemistry and Physics, 2015, 154, 125-136.	2.0	27
123	Manganese and Graphene Included Titanium Dioxide Composite Nanowires: Fabrication, Characterization and Enhanced Photocatalytic Activities. Nanomaterials, 2020, 10, 456.	1.9	27
124	Graft copolymer-metal complexes obtained by radiation grafting on polyethylene film. Journal of Applied Polymer Science, 2000, 77, 500-508.	1.3	26
125	Synthesis of Poly(diphenylamine) Nanotubes in the Channels of MCM-41 through Self-Assembly. Macromolecules, 2005, 38, 364-371.	2.2	26
126	Characterization and preparation of new multiwall carbon nanotube/conducting polymer composites byin situ polymerization. Journal of Applied Polymer Science, 2006, 101, 3721-3729.	1.3	25

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127	Development of a surface plasmon assisted label-free calorimetric method for sensitive detection of mercury based on functionalized gold nanorods. Journal of Analytical Atomic Spectrometry, 2013, 28, 488.	1.6	25
128	Electrochemical copolymerization of 1-naphthylamine with aniline and o-toluidine. Materials Chemistry and Physics, 2001, 71, 148-154.	2.0	24
129	Synthesis and electrochemical performance of high voltage cycling LiCo0.8M0.2O2 (M=Mg, Ca, Ba) as cathode material. Materials Research Bulletin, 2008, 43, 1401-1411.	2.7	24
130	Preparation of new self-humidifying composite membrane by incorporating graphene and phosphotungstic acid into sulfonated poly(ether ether ketone) film. International Journal of Hydrogen Energy, 2014, 39, 17162-17177.	3.8	24
131	FT-Raman Spectra of o-, m-, and p-Nitrophenol Included in Cyclodextrins. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2001, 40, 271-274.	1.6	23
132	Studies on processable conducting blend of poly(diphenylamine) and poly(vinylidene fluoride). Materials Letters, 2002, 54, 430-441.	1.3	23
133	A novel self-assembly approach to form tubular poly(diphenylamine) inside the mesoporous silica. Polymer, 2005, 46, 1804-1812.	1.8	23
134	Dispersion of Ptâ€“Ru alloys onto various carbons using Î³-irradiation. Journal of Non-Crystalline Solids, 2006, 352, 355-360.	1.5	23
135	Immobilization of lipase on a polymeric microsphere with an epoxy group prepared by radiation-induced polymerization. Journal of Applied Polymer Science, 2003, 88, 1153-1161.	1.3	22
136	Electrochemical, spectroelectrochemical and spectroscopic evidences for copolymer formation between diphenylamine and m-toluidine. Materials Chemistry and Physics, 2004, 85, 316-328.	2.0	22
137	Electrochemical and Spectroelectrochemical Studies on Copolymerization of Diphenylamine with 2,5-Diaminobenzenesulfonic Acid. Journal of the Electrochemical Society, 2002, 149, E298.	1.3	21
138	Preparation and characterization of polyurethane/poly(vinylidene fluoride) composites and evaluation as polymer electrolytes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 135, 65-73.	1.7	21
139	Pd (core)â€“Au (shell) nanoparticles catalyzed conversion of NADH to NAD+ by UVâ€“vis spectroscopyâ€”A kinetic analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 678-684.	2.0	21
140	Studies on Composite Electrolytes Composed of Thermoplastic Polyurethane and Polyacrylonitrile. Macromolecules, 2001, 34, 2958-2963.	2.2	20
141	Role of anions to influence inductive behavior for poly(2-amino diphenylamine-co-aniline)â€”an electrochemical impedance spectroscopic analysis. Synthetic Metals, 2002, 130, 61-71.	2.1	20
142	Peroxomonosulphate initiated graft copolymerization of o-toluidine onto nylon 6 and wool fibers?A kinetic approach. Journal of Applied Polymer Science, 2002, 85, 2317-2326.	1.3	20
143	Separation of proteins on polymeric stationary phases grafted with various amine groups. Journal of Chromatography A, 2003, 987, 323-330.	1.8	20
144	Preparation and characterization of poly(ester)-silver and nylon-silver nanocomposites. Studies in Surface Science and Catalysis, 2003, 146, 93-96.	1.5	20

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145	Horseradish Peroxidase (HRP) Immobilized Poly(aniline-co-m-aminophenol) Film Electrodesâ€“fabrication and Evaluation as Hydrogen Peroxide Sensor. Sensors, 2007, 7, 719-729.	2.1	20
146	Improving Photovoltaic Properties of P3HT:IC60BA through the Incorporation of Small Molecules. Polymers, 2018, 10, 121.	2.0	20
147	Graft copolymerization of polyacrylonitrile (PAN) onto polyester (PET) and simultaneous homopolymerization: A kinetic study. I. Journal of Applied Polymer Science, 1995, 56, 1299-1311.	1.3	19
148	Graft copolymer-lanthanide complexes obtained by radiation grafting on polyethylene film. Journal of Applied Polymer Science, 2003, 87, 328-336.	1.3	19
149	One-pot synthesis of a few nanocomposites with poly(N-vinylcarbazole) and CdS, Ag, Pd50â€“Ag50, and Pt50â€“Ru50 nanoparticles with Î³ irradiation. Journal of Applied Polymer Science, 2006, 100, 1809-1815.	1.3	19
150	Polyaniline and cyclodextrin based chiral nanobundlesâ€”functional materials having size and enantioselectivity. Nanotechnology, 2006, 17, 375-380.	1.3	19
151	Covalently linked silica-multiwall carbon nanotube-polyaniline network: An electroactive matrix for ultrasensitive biosensor. Biosensors and Bioelectronics, 2009, 25, 944-947.	5.3	19
152	Chemical grafting of poly(aniline) and poly(o-toluidine) onto PET fibre â€” a comparative study. European Polymer Journal, 2000, 36, 1725-1733.	2.6	18
153	Kinetics of polymerization of N-methyl aniline using UVâ€“VIS spectroscopy. Synthetic Metals, 2002, 126, 123-135.	2.1	18
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