

Rajiv Prakash

List of Publications by Year in descending order

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Version: 2024-02-01

246
papers

6,844
citations

76322

40
h-index

102480

66
g-index

247
all docs

247
docs citations

247
times ranked

6724
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Musa paradisica peel extract as green corrosion inhibitor for mild steel in HCl solution. Corrosion Science, 2015, 90, 107-117. | 6.6 | 354 |
| 2 | Inhibitive Effect of <i>Argemone mexicana</i> Plant Extract on Acid Corrosion of Mild Steel. Industrial & Engineering Chemistry Research, 2011, 50, 11954-11959. | 3.7 | 188 |
| 3 | A self-doped conducting polymer α -polyanthranilic acid. An efficient corrosion inhibitor for mild steel in acidic solution. Corrosion Science, 2008, 50, 2867-2872. | 6.6 | 156 |
| 4 | Controlled drug release characteristics and enhanced antibacterial effect of graphene nanosheets containing gentamicin sulfate. Nanoscale, 2011, 3, 4104. | 5.6 | 139 |
| 5 | Electrochemical Synthesis of Polyindole and Its Evaluation for Rechargeable Battery Applications. Journal of the Electrochemical Society, 1998, 145, 999-1003. | 2.9 | 137 |
| 6 | Probing a highly efficient dual mode: down \rightarrow upconversion luminescence and temperature sensing performance of rare-earth oxide phosphors. Dalton Transactions, 2013, 42, 1065-1072. | 3.3 | 135 |
| 7 | Poly-3-hexylthiophene based organic field-effect transistor: Detection of low concentration of ammonia. Sensors and Actuators B: Chemical, 2012, 171-172, 962-968. | 7.8 | 116 |
| 8 | Inhibitive Effect of Chlorophytum borivilianum Root Extract on Mild Steel Corrosion in HCl and H ₂ SO ₄ Solutions. Industrial & Engineering Chemistry Research, 2013, 52, 10673-10681. | 3.7 | 101 |
| 9 | Electrochemical investigation of Irbesartan drug molecules as an inhibitor of mild steel corrosion in 1 M HCl and 0.5 M H ₂ SO ₄ solutions. Journal of Molecular Liquids, 2017, 236, 184-197. | 4.9 | 98 |
| 10 | Low cost aqueous extract of Pisum sativum peels for inhibition of mild steel corrosion. Journal of Molecular Liquids, 2018, 254, 357-368. | 4.9 | 96 |
| 11 | Structural, Thermal, and Fluorescence Properties of Eu(DBM) ₃ Phen ₃ Complex Doped in PMMA. Journal of Physical Chemistry B, 2010, 114, 13042-13051. | 2.6 | 91 |
| 12 | One step synthesis of AuNPs@MoS ₂ -QDs composite as a robust peroxidase- mimetic for instant unaided eye detection of glucose in serum, saliva and tear. Sensors and Actuators B: Chemical, 2018, 263, 109-119. | 7.8 | 89 |
| 13 | Characterization of Electropolymerized Polyindole: Application in the Construction of a Solid \rightarrow State, Ion \rightarrow Selective Electrode. Journal of the Electrochemical Society, 1998, 145, 4103-4107. | 2.9 | 87 |
| 14 | One step electro-oxidative preparation of graphene quantum dots from wood charcoal as a peroxidase mimetic. Talanta, 2017, 173, 36-43. | 5.5 | 86 |
| 15 | Controlled morphology of conducting polymers: Formation of nanorods and microspheres of polyindole. Materials Chemistry and Physics, 2010, 120, 625-630. | 4.0 | 83 |
| 16 | Electrochemistry of polyaniline: Study of the pH effect and electrochromism. Journal of Applied Polymer Science, 2002, 83, 378-385. | 2.6 | 79 |
| 17 | Synthesis of nanorods and mixed shaped copper ferrite and their applications as liquefied petroleum gas sensor. Applied Surface Science, 2011, 257, 10763-10770. | 6.1 | 78 |
| 18 | Experimental and theoretical investigation of aqueous and methanolic extracts of Prunus dulcis peels as green corrosion inhibitors of mild steel in aggressive chloride media. Journal of Molecular Liquids, 2019, 276, 347-361. | 4.9 | 77 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Assessment of Contamination of Soil due to Heavy Metals around Coal Fired Thermal Power Plants at Singrauli Region of India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2010, 85, 219-223. | 2.7 | 73 |
| 20 | A chitosan-based polyaniline@Au nanocomposite biosensor for determination of cholesterol. <i>Analytical Methods</i> , 2014, 6, 817-824. | 2.7 | 73 |
| 21 | Polyindole modified potassium ion-sensor using dibenzo-18-crown-6 mediated PVC matrix membrane. <i>Sensors and Actuators B: Chemical</i> , 1998, 46, 61-65. | 7.8 | 72 |
| 22 | Synthesis and characterization of polyaniline@carboxylated PVC composites: Application in development of ammonia sensor. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 99-106. | 7.8 | 72 |
| 23 | A comparative Study of Aptasensor Vs Immunosensor for Label-Free PSA Cancer Detection on QDs-AuNRs Modified Screen-Printed Electrodes. <i>Scientific Reports</i> , 2018, 8, 1923. | 3.3 | 72 |
| 24 | Nano-structured nickel oxide based DNA biosensor for detection of visceral leishmaniasis (Kala-azar). <i>Analyst</i> , 2011, 136, 2845. | 3.5 | 70 |
| 25 | Determination of total arsenic content in water by atomic absorption spectroscopy (AAS) using vapour generation assembly (VGA). <i>Chemosphere</i> , 2006, 63, 17-21. | 8.2 | 62 |
| 26 | Synthesis of graphene oxide and its application for the adsorption of Pb +2 from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 47, 169-178. | 5.8 | 59 |
| 27 | Chitosan based new nanocomposites for corrosion protection of mild steel in aggressive chloride media. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 177-187. | 7.5 | 59 |
| 28 | Recent progress in nano-oxides and CNTs based corrosion resistant superhydrophobic coatings: A critical review. <i>Progress in Organic Coatings</i> , 2020, 140, 105512. | 3.9 | 58 |
| 29 | Multifunctional inulin tethered silver-graphene quantum dots nanotheranostic module for pancreatic cancer therapy. <i>Materials Science and Engineering C</i> , 2017, 78, 1203-1211. | 7.3 | 55 |
| 30 | Electronic and optical properties of electrochemically polymerized polycarbazole/aluminum Schottky diodes. <i>Journal of Applied Physics</i> , 2009, 105, . | 2.5 | 54 |
| 31 | Economic use of waste <i>Musa paradisiaca</i> peels for effective control of mild steel loss in aggressive acid solutions. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4773-4783. | 6.7 | 53 |
| 32 | Electrical and ammonia gas sensing properties of poly (3, 3'- dialkylquaterthiophene) based organic thin film transistors fabricated by floating-film transfer method. <i>Organic Electronics</i> , 2017, 48, 53-60. | 2.6 | 52 |
| 33 | Electro-oxidation of formic acid using polyindole-SnO ₂ nanocomposite. <i>Catalysis Science and Technology</i> , 2012, 2, 2533. | 4.1 | 51 |
| 34 | Aqueous extract of <i>Argemone mexicana</i> roots for effective protection of mild steel in an HCl environment. <i>Research on Chemical Intermediates</i> , 2016, 42, 439-459. | 2.7 | 51 |
| 35 | Interfacial polymerization of carbazole: Morphology controlled synthesis. <i>Synthetic Metals</i> , 2010, 160, 523-528. | 3.9 | 48 |
| 36 | Multifunctional Few-Layer MoS ₂ for Photodetection and Surface-Enhanced Raman Spectroscopy Application with Ultrasensitive and Repeatable Detectability. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18071-18078. | 3.1 | 48 |

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|----|---|-----|-----------|
| 37 | Microbial biosensor based on whole cell of <i>Pseudomonas</i> sp. for online measurement of p-Nitrophenol. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 295-300. | 7.8 | 47 |
| 38 | Application of Unsaturated Fatty Acid Molecules Derived from Microalgae toward Mild Steel Corrosion Inhibition in HCl Solution: A Novel Approach for Metal-Inhibitor Association. <i>ACS Omega</i> , 2018, 3, 12369-12382. | 3.5 | 47 |
| 39 | Air-stable vapor phase sensing of ammonia in sub-threshold regime of poly(2,5-bis(3-tetradecylthiophen-2yl)thieno(3,2-b)thiophene) based polymer thin-film transistor. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 243-251. | 7.8 | 46 |
| 40 | Copper(II) ion-selective microelectrochemical transistor. <i>Journal of Solid State Electrochemistry</i> , 2000, 4, 234-236. | 2.5 | 44 |
| 41 | Effect of post annealing on structural and optical properties of ZnO thin films deposited by vacuum coating technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 309-315. | 2.2 | 43 |
| 42 | Organic Schottky diode based on conducting polymer-nanoclay composite. <i>RSC Advances</i> , 2012, 2, 5277. | 3.6 | 42 |
| 43 | Donor-Acceptor-Type Configured, Dimethylamino-Based Organic Push-Pull Chromophores for Effective Reduction of Mild Steel Corrosion Loss in 1 M HCl. <i>ACS Omega</i> , 2018, 3, 4081-4093. | 3.5 | 42 |
| 44 | Polymer/Graphene oxide nanocomposite thin film for NO ₂ sensor: An in situ investigation of electronic, morphological, structural, and spectroscopic properties. <i>Scientific Reports</i> , 2020, 10, 2981. | 3.3 | 42 |
| 45 | One-pot synthesis of Polyindole-Au nanocomposite and its nanoscale electrical properties. <i>Materials Letters</i> , 2011, 65, 3016-3019. | 2.6 | 41 |
| 46 | Vanadium doped few-layer ultrathin MoS ₂ nanosheets on reduced graphene oxide for high-performance hydrogen evolution reaction. <i>RSC Advances</i> , 2019, 9, 22232-22239. | 3.6 | 41 |
| 47 | Macroscopic self ordering of solution processible poly(3,3'-dialkylquaterthiophene) by floating film transfer method. <i>Journal of Applied Physics</i> , 2013, 114, . | 2.5 | 40 |
| 48 | Enhancement in performance of polycarbazole-graphene nanocomposite Schottky diode. <i>AIP Advances</i> , 2013, 3, . | 1.3 | 40 |
| 49 | Quick colorimetric determination of choline in milk and serum based on the use of MoS ₂ nanosheets as a highly active enzyme mimetic. <i>Mikrochimica Acta</i> , 2018, 185, 224. | 5.0 | 40 |
| 50 | Electrical and Ammonia Gas Sensing Properties of PQT-12/CdSe Quantum Dots Composite-Based Organic Thin Film Transistors. <i>IEEE Sensors Journal</i> , 2018, 18, 6085-6091. | 4.7 | 40 |
| 51 | Lemon seeds as green coating material for mitigation of mild steel corrosion in acid media: Molecular dynamics simulations, quantum chemical calculations and electrochemical studies. <i>Journal of Molecular Liquids</i> , 2020, 316, 113797. | 4.9 | 40 |
| 52 | Preparation and Characterization of Hydroxypropyl-β-Cyclodextrin Inclusion Complex of Eugenol: Differential Pulse Voltammetry and ¹ H-NMR. <i>Chemical and Pharmaceutical Bulletin</i> , 2010, 58, 1313-1319. | 1.3 | 39 |
| 53 | A strategy to achieve efficient dual-mode luminescence in lanthanide-based magnetic hybrid nanostructure and its demonstration for the detection of latent fingerprints. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 199-206. | 9.4 | 39 |
| 54 | Green approach of synthesis of thiazolyl imines and their impeding behavior against corrosion of mild steel in acid medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124824. | 4.7 | 39 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Direct Estimation of Total Arsenic Using A Novel Metal Side Disk Rotating Electrode. <i>Electroanalysis</i> , 2003, 15, 1410-1414. | 2.9 | 38 |
| 56 | Studies on polycarbazole-modified electrode and its applications in the development of solid-state potassium and copper(II) ion sensors. <i>Journal of Applied Polymer Science</i> , 2000, 75, 1749-1759. | 2.6 | 37 |
| 57 | Trace analysis of cefotaxime at carbon paste electrode modified with novel Schiff base Zn(II) complex. <i>Talanta</i> , 2009, 77, 1426-1431. | 5.5 | 37 |
| 58 | High-performance photo detector based on hydrothermally grown SnO ₂ nanowire/reduced graphene oxide (rGO) hybrid material. <i>Organic Electronics</i> , 2017, 50, 359-366. | 2.6 | 37 |
| 59 | Influences of carbon nanofillers on mechanical performance of epoxy resin polymer. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 305-313. | 3.1 | 36 |
| 60 | Flexible poly (3, 3'-dialkylquaterthiophene) based interdigitated metal-semiconductor-metal ammonia gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 203-209. | 7.8 | 36 |
| 61 | Electrolyte effects on various properties of polycarbazole. <i>Thin Solid Films</i> , 2010, 519, 1016-1019. | 1.8 | 35 |
| 62 | Influence of aspect ratio and surface defect density on hydrothermally grown ZnO nanorods towards amperometric glucose biosensing applications. <i>Applied Surface Science</i> , 2017, 422, 798-808. | 6.1 | 35 |
| 63 | Voltammetric determination of the antimalarial drug chloroquine using a glassy carbon electrode modified with reduced graphene oxide on WS ₂ quantum dots. <i>Mikrochimica Acta</i> , 2019, 186, 415. | 5.0 | 35 |
| 64 | Electrochromic window based on polyaniline. <i>Journal of Solid State Electrochemistry</i> , 1998, 2, 123-125. | 2.5 | 34 |
| 65 | Processible polyacid doped polyaniline composites: Application for charge storage devices. <i>Materials Science and Engineering C</i> , 2009, 29, 1746-1751. | 7.3 | 34 |
| 66 | Highly Sensitive <i>in vitro</i> Biosensor for Enterotoxigenic <i>Escherichia coli</i> Detection Based on ssDNA Anchored on PtNPs@Chitosan Nanocomposite. <i>Electroanalysis</i> , 2017, 29, 2665-2671. | 2.9 | 34 |
| 67 | Polyindole/ carboxylated-multiwall carbon nanotube composites produced by in-situ and interfacial polymerization. <i>Materials Chemistry and Physics</i> , 2012, 135, 80-87. | 4.0 | 33 |
| 68 | Lanthanide doped ultrafine hybrid nanostructures: multicolour luminescence, upconversion based energy transfer and luminescent solar collector applications. <i>Nanoscale</i> , 2017, 9, 696-705. | 5.6 | 33 |
| 69 | Development of nanostructured nickel reinforced polyacrylamide via frontal polymerization for a reliable room temperature humidity sensor. <i>European Polymer Journal</i> , 2019, 112, 161-169. | 5.4 | 33 |
| 70 | Metal free triad from red phosphorous, reduced graphene oxide and graphitic carbon nitride (red) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2020, 338, 135851. | 5.2 | 33 |
| 71 | Fe-doped MoS ₂ nanomaterials with amplified peroxidase mimetic activity for the colorimetric detection of glutathione in human serum. <i>Materials Chemistry and Physics</i> , 2021, 267, 124684. | 4.0 | 33 |
| 72 | Polycarbazole modified electrode; nitric oxide sensor. <i>Polymer Bulletin</i> , 2001, 46, 487-490. | 3.3 | 32 |

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|----|--|-----|-----------|
| 73 | Directed Self-Assembly of Poly(3,3'-dialkylquaterthiophene) Polymer Thin Film: Effect of Annealing Temperature. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22943-22951. | 3.1 | 32 |
| 74 | Polyindole-Au nanocomposite produced at the liquid/liquid interface. <i>Materials Letters</i> , 2012, 66, 250-253. | 2.6 | 31 |
| 75 | A label-free genosensor for BRCA1 related sequence based on impedance spectroscopy. <i>Analyst</i> , The, 2010, 135, 2887. | 3.5 | 30 |
| 76 | Genosensor based on a nanostructured, platinum-modified glassy carbon electrode for <i>Listeria</i> detection. <i>Analytical Methods</i> , 2015, 7, 2616-2622. | 2.7 | 30 |
| 77 | Polyindole modified g-C ₃ N ₄ nanohybrids via in-situ chemical polymerization for its improved electrochemical performance. <i>Vacuum</i> , 2020, 177, 109363. | 3.5 | 30 |
| 78 | Specific interactions in partially miscible polycarbonate (PC)/poly (methyl methacrylate) (PMMA) blends. <i>Chemical Physics Letters</i> , 2010, 486, 32-36. | 2.6 | 28 |
| 79 | Effect of organic solvents on peroxidases from rice and horseradish: Prospects for enzyme based applications. <i>Talanta</i> , 2012, 97, 204-210. | 5.5 | 28 |
| 80 | Non-covalent functionalization of graphene oxide by polyindole and subsequent incorporation of Ag nanoparticles for electrochemical applications. <i>Applied Surface Science</i> , 2015, 355, 262-267. | 6.1 | 28 |
| 81 | In-situ H ₂ O ₂ production for tetracycline degradation on Ag/s-(Co ₃ O ₄ /NiFe ₂ O ₄) visible light magnetically recyclable photocatalyst. <i>Applied Surface Science</i> , 2022, 589, 153013. | 6.1 | 28 |
| 82 | Novel Synthesis of Polycarbazole-Gold Nanocomposite. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1692-1699. | 2.2 | 27 |
| 83 | Studies on some spinel oxides based electrocatalysts for oxygen evolution and capacitive applications. <i>Electrochimica Acta</i> , 2019, 320, 134584. | 5.2 | 27 |
| 84 | Microwave-assisted chemical synthesis of conducting polyindole: Study of electrical property using Schottky junction. <i>Journal of Applied Polymer Science</i> , 2015, 132, . | 2.6 | 26 |
| 85 | Copper(II) ion sensor based on electropolymerized undoped conducting polymers. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 203-208. | 2.5 | 25 |
| 86 | A facile methodology for the design of functionalized hollow silica spheres. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 265-269. | 9.4 | 25 |
| 87 | Reactive Compatibilization of Polycarbonate and Poly(methyl methacrylate) in the Presence of a Novel Transesterification Catalyst SnCl ₂ ·2H ₂ O. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1601-1607. | 2.6 | 25 |
| 88 | A comparative study on surface morphological investigations of ferric oxide for LPG and opto-electronic humidity sensors. <i>Applied Surface Science</i> , 2012, 258, 8780-8789. | 6.1 | 25 |
| 89 | Molecular self ordering and charge transport in layer by layer deposited poly (3,3'-dialkylquaterthiophene) films formed by Langmuir-Schaefer technique. <i>Journal of Applied Physics</i> , 2014, 116, . | 2.5 | 25 |
| 90 | Surface plasmon coupled metal enhanced spectral and charge transport properties of poly(3,3'-dialkylquaterthiophene) Langmuir Schaefer films. <i>Nanoscale</i> , 2015, 7, 6083-6092. | 5.6 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Interface engineering for enhancement in performance of organic/inorganic hybrid heterojunction diode. <i>Organic Electronics</i> , 2017, 45, 26-32. | 2.6 | 25 |
| 92 | Large Area Vertically Oriented Few-Layer MoS ₂ for Efficient Thermal Conduction and Optoelectronic Applications. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1268-1275. | 4.6 | 25 |
| 93 | A comparative study of spin coated and floating film transfer method coated poly (3-hexylthiophene)/poly (3-hexylthiophene)-nanofibers based field effect transistors. <i>Journal of Applied Physics</i> , 2014, 116, . | 2.5 | 24 |
| 94 | One pot synthesis of coordination polymer 2,5-dimercapto-1,3,4-thiadiazole-gold and its application in voltammetric sensing of resorcinol. <i>RSC Advances</i> , 2014, 4, 25675-25682. | 3.6 | 24 |
| 95 | Photochemically assisted formation of silver nanoparticles by dithizone, and its application in amperometric sensing of cefotaxime. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6859-6866. | 5.5 | 24 |
| 96 | Homogenous Dispersion of MoS ₂ Nanosheets in Polyindole Matrix at Air-Water Interface Assisted by Langmuir Technique. <i>Langmuir</i> , 2017, 33, 13572-13580. | 3.5 | 24 |
| 97 | Pivotal role of levoglucosenone and hexadecanoic acid from microalgae <i>Chlorococcum</i> sp. for corrosion resistance on mild steel: Electrochemical, microstructural and theoretical analysis. <i>Journal of Molecular Liquids</i> , 2018, 266, 279-290. | 4.9 | 24 |
| 98 | Electronic Properties and Junction Behavior of Polyanthranilic Acid/Metal Contacts. <i>IEEE Electron Device Letters</i> , 2008, 29, 571-574. | 3.9 | 23 |
| 99 | Structural and optical properties of Sm(DBM) ₃ Phen doped in poly(methyl methacrylate) (PMMA): An evidence for cascading energy transfer process. <i>Chemical Physics Letters</i> , 2010, 485, 309-314. | 2.6 | 23 |
| 100 | A proposed organic Schottky barrier photodetector for application in the visible region. <i>Current Applied Physics</i> , 2010, 10, 900-903. | 2.4 | 22 |
| 101 | Evidence for in situ graft copolymer formation and compatibilization of PC and PMMA during reactive extrusion processing in the presence of the novel organometallic transesterification catalyst tin(ii) 2-ethylhexanoate. <i>RSC Advances</i> , 2012, 2, 10316. | 3.6 | 22 |
| 102 | Pressure dependent surface morphology and Raman studies of semicrystalline poly(indole-5-carboxylic acid) by the Langmuir-Blodgett technique. <i>RSC Advances</i> , 2013, 3, 15712. | 3.6 | 22 |
| 103 | Facile synthesis of BSCF perovskite oxide as an efficient bifunctional oxygen electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20671-20679. | 7.1 | 22 |
| 104 | Electrochemical Sensing of Roxarsone on Natural Biomass-Derived Two-Dimensional Carbon Material as Promising Electrode Material. <i>ACS Omega</i> , 2022, 7, 2908-2917. | 3.5 | 22 |
| 105 | Poly(3-hexylthiophene) (P3HT)/Graphene Nanocomposite Material Based Organic Field Effect Transistor with Enhanced Mobility. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 2823-2828. | 0.9 | 21 |
| 106 | Highly aligned and crystalline poly(3-hexylthiophene) thin films by off-center spin coating for high performance organic field-effect transistors. <i>Synthetic Metals</i> , 2019, 258, 116221. | 3.9 | 21 |
| 107 | Self-assembled H-aggregation induced high performance poly (3-hexylthiophene) Schottky diode. <i>Journal of Applied Physics</i> , 2017, 122, . | 2.5 | 20 |
| 108 | Tailoring the charge carrier in few layers MoS ₂ field-effect transistors by Au metal adsorbate. <i>Applied Surface Science</i> , 2018, 437, 70-74. | 6.1 | 20 |

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|-----|---|-----|-----------|
| 109 | Fast grown self-assembled polythiophene/graphene oxide nanocomposite thin films at air-liquid interface with high mobility used in polymer thin film transistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9981-9989. | 5.5 | 20 |
| 110 | Electrical and Optical Characteristics of PQT-12-Based Organic TFTs Fabricated by Floating-Film Transfer Method. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 1111-1117. | 2.0 | 20 |
| 111 | Lanthanide based double perovskites: Bifunctional catalysts for oxygen evolution/reduction reactions. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17163-17172. | 7.1 | 20 |
| 112 | A comparative thermal, optical, morphological and mechanical properties studies of pristine and C15A nanoclay-modified PC/PMMA blends: a critical evaluation of the role of nanoclay particles as compatibilizers. <i>RSC Advances</i> , 2013, 3, 15411. | 3.6 | 19 |
| 113 | Label-free impedimetric detection of <i>Listeria monocytogenes</i> based on poly-5-carboxy indole modified ssDNA probe. <i>Journal of Biotechnology</i> , 2015, 200, 70-76. | 3.8 | 19 |
| 114 | A nanoporous palladium(II) bridged coordination polymer acting as a peroxidase mimic in a method for visual detection of glucose in tear and saliva. <i>Mikrochimica Acta</i> , 2018, 185, 245. | 5.0 | 19 |
| 115 | Determination of the Anti-HIV Drug Nevirapine Using Electroactive 2D Material Pd@rGO Decorated with MoS ₂ Quantum Dots. <i>ChemistrySelect</i> , 2018, 3, 5341-5347. | 1.5 | 19 |
| 116 | Electronic properties of soluble functionalized polyaniline (polyanthranilic acid)-multiwalled carbon nanotube nanocomposites: Influence of synthesis methods. <i>Synthetic Metals</i> , 2011, 161, 481-488. | 3.9 | 18 |
| 117 | Preparation and characterization of Tb ³⁺ and Tb(sal)3·nH ₂ O doped PC:PMMA blend. <i>Journal of Luminescence</i> , 2011, 131, 2451-2456. | 3.1 | 18 |
| 118 | Electrocatalytic Performance of Interfacially Synthesized Au-Polyindole Composite toward Formic Acid Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9374-9380. | 3.7 | 18 |
| 119 | In situ one step synthesis of Fe inserted octaethylporphyrin/polyindole: A multifunctional hybrid material with improved electrochemical and electrical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 227, 80-88. | 3.5 | 18 |
| 120 | Development of magnetically recyclable visible light photocatalysts for hydrogen peroxide production. <i>Materials Science in Semiconductor Processing</i> , 2020, 112, 105024. | 4.0 | 18 |
| 121 | Ethanol extract of waste potato peels for corrosion inhibition of low carbon steel in chloride medium. <i>Materials Today: Proceedings</i> , 2021, 44, 2267-2272. | 1.8 | 18 |
| 122 | Effect of steric hinderance on junction properties of poly (3-alkylthiophene)s based schottky diodes. <i>Polymer Bulletin</i> , 2000, 45, 267-274. | 3.3 | 17 |
| 123 | Novel Ni(II) Mixed Ligand Complex Modified Electrode: Catalytic Effect on Anodic Oxidation of Phenol. <i>Electroanalysis</i> , 2004, 16, 572-576. | 2.9 | 17 |
| 124 | Synthesis of processible doped polyaniline-polyacrylic acid composites. <i>Journal of Applied Polymer Science</i> , 2009, 114, 874-882. | 2.6 | 17 |
| 125 | P3HT-fiber-based field-effect transistor: Effects of nanostructure and annealing temperature. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 021601. | 1.5 | 17 |
| 126 | Photochemical assisted formation of silver nano dendrites and their application in amperometric sensing of nitrite. <i>RSC Advances</i> , 2014, 4, 7521. | 3.6 | 17 |

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|-----|---|------|-----------|
| 127 | Colorimetric detection of picric acid using silver nanoparticles modified with 4-amino-3-hydrazino-5-mercapto-1,2,4-triazole. <i>Applied Surface Science</i> , 2018, 449, 174-180. | 6.1 | 17 |
| 128 | Composites of Donor-Acceptor type configured organic compound and porous ZnO nano sheets as corrosion inhibitors of copper in chloride environment. <i>Journal of Molecular Liquids</i> , 2019, 280, 160-172. | 4.9 | 17 |
| 129 | A composite prepared from MoS ₂ quantum dots and silver nanoparticles and stimulated by mercury(II) is a robust oxidase mimetic for use in visual determination of cysteine. <i>Mikrochimica Acta</i> , 2020, 187, 74. | 5.0 | 17 |
| 130 | Chemical synthesis of poly(5-carboxyindole) and poly(5-carboxyindole)/carboxylated multiwall carbon nanotube nanocomposite. <i>Thin Solid Films</i> , 2010, 519, 218-222. | 1.8 | 16 |
| 131 | Suppression of electrochemical creep by cross-link in polypyrrole soft actuators. <i>Physics Procedia</i> , 2011, 14, 143-146. | 1.2 | 16 |
| 132 | An anthraquinone moiety/cysteamine functionalized-gold nanoparticle/chitosan based nanostructured composite for the electroanalytical detection of dissolved oxygen within aqueous media. <i>Analytical Methods</i> , 2014, 6, 8793-8801. | 2.7 | 16 |
| 133 | Electrochemical detection of azidothymidine on modified probes based on chitosan stabilised silver nanoparticles hybrid material. <i>RSC Advances</i> , 2015, 5, 90089-90097. | 3.6 | 16 |
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