Prashant S Alegaonkar

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------------------|--------------|
| 1 | Fabrication of dye sensitized solar cell using TiO2 coated carbon nanotubes. Thin Solid Films, 2007, 515, 5131-5135. | 1.8 | 191 |
| 2 | Mechanical properties of electrospun PVA/MWNTs composite nanofibers. Thin Solid Films, 2007, 515, 5136-5141. | 1.8 | 133 |
| 3 | Optimization of water assisted chemical vapor deposition parameters for super growth of carbon nanotubes. Carbon, 2008, 46, 1987-1993. | 10.3 | 99 |
| 4 | Graphene nanoribbon–PVA composite as EMI shielding material in the X band. Nanotechnology, 2013, 24, 455705. | 2.6 | 98 |
| 5 | Fabrication of MWNTs/nylon conductive composite nanofibers by electrospinning. Diamond and Related Materials, 2006, 15, 1839-1843. | 3.9 | 77 |
| 6 | Effect of formation of heterostructure of SrAl4Fe8O19/RGO/PVDF on the microwave absorption properties of the composite. Chemical Engineering Journal, 2019, 374, 144-154. | 12.7 | 75 |
| 7 | Microwave absorption properties of reduced graphene oxide strontium hexaferrite/poly(methyl) Tj ETQq1 1 0.784 | -314 rgBT 2.6 | /Qyerlock 10 |
| 8 | Impressive Transmission Mode Electromagnetic Interference Shielding Parameters of Graphene-like Nanocarbon/Polyurethane Nanocomposites for Short Range Tracking Countermeasures. ACS Applied Materials & Interfaces, 2015, 7, 14833-14842. | 8.0 | 56 |
| 9 | Alignment and wall control of ultra long carbon nanotubes in water assisted chemical vapour deposition. Journal Physics D: Applied Physics, 2008, 41, 155311. | 2.8 | 47 |
| 10 | Effect of film thickness on gas sensing properties of sprayed WO ₃ thin films. New Journal of Chemistry, 2017, 41, 11807-11816. | 2.8 | 47 |
| 11 | Influence of fuel to oxidizer ratio on LPG sensing performance of MgFe2O4 nanoparticles. Materials Chemistry and Physics, 2015, 161, 135-141. | 4.0 | 45 |
| 12 | Carbon nanotube composite: Dispersion routes and field emission parameters. Composites Science and Technology, 2008, 68, 753-759. | 7.8 | 40 |
| 13 | Field enhancement factor for an array of MWNTs in CNT paste. Applied Physics A: Materials Science and Processing, 2006, 83, 377-383. | 2.3 | 39 |
| 14 | Graphene-like nanocarbon: An effective nanofiller for improving the mechanical and thermal properties of polymer at low weight fractions. Composites Science and Technology, 2016, 127, 79-87. | 7.8 | 35 |
| 15 | High-performance supercapacitor based on MoS2@TiO2 composite for wide range temperature application. Journal of Alloys and Compounds, 2021, 883, 160705. | 5.5 | 35 |
| 16 | Graphene-Like Nanoflakes for Shock Absorption Applications. ACS Applied Nano Materials, 2018, 1, 6027-6037. | 5.0 | 33 |
| 17 | Dielectric properties of 1 MeV electron-irradiated polyimide. Applied Physics Letters, 2002, 80, 640-642. | 3.3 | 32 |
| 18 | Nano-carbon: preparation, assessment, and applications for NH ₃ gas sensor and electromagnetic interference shielding. RSC Advances, 2016, 6, 97266-97275. | 3.6 | 32 |

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|----|---|------|-----------|
| 19 | Enhanced microwave absorption property of Reduced Graphene Oxide (RGO)–Strontium Hexaferrite (SF)/Poly (Vinylidene) Fluoride (PVDF). Diamond and Related Materials, 2018, 89, 28-34. | 3.9 | 30 |
| 20 | The emergence of new ion tract applications. Radiation Measurements, 2003, 36, 605-609. | 1.4 | 28 |
| 21 | MXene: Evolutions in Chemical Synthesis and Recent Advances in Applications. Surfaces, 2022, 5, 1-36. | 2.3 | 25 |
| 22 | Ion track-based electronic elements. Vacuum, 2008, 82, 900-905. | 3.5 | 24 |
| 23 | Mixed phase, sp2–sp3 bonded, and disordered few layer graphene-like nanocarbon: Synthesis and characterizations. Applied Surface Science, 2013, 271, 86-92. | 6.1 | 23 |
| 24 | Enhanced field emission properties of thin-multiwalled carbon nanotubes: Role of SiOx coating. Journal of Applied Physics, 2006, 100, 104303. | 2.5 | 21 |
| 25 | Assessment of ecologically prepared carbon-nano-spheres for fabrication of flexible and durable supercell devices. Journal of Materials Chemistry A, 2018, 6, 7246-7256. | 10.3 | 20 |
| 26 | Spin Transport and Magnetic Correlation Parameters for Graphene-like Nanocarbon Sheets Doped with Nitrogen. Journal of Physical Chemistry C, 2013, 117, 27105-27113. | 3.1 | 19 |
| 27 | Multiwalled Carbon Nanotubes Decorated with Fe ₃ O ₄ Nanoparticles for Efficacious Doxycycline Delivery. ACS Applied Nano Materials, 2019, 2, 607-616. | 5.0 | 18 |
| 28 | Water-assisted synthesis of carbon nanotubes: Acetylene partial pressure and height control. Europhysics Letters, 2008, 81, 38002. | 2.0 | 16 |
| 29 | A New Method of Carbonâ€Nanotube Patterning Using Reduction Potentials. Advanced Materials, 2009, 21, 1257-1260. | 21.0 | 16 |
| 30 | Electroless nickel coated nano-clay for electrolytic removal of Hg(ii) ions. RSC Advances, 2014, 4, 50614-50623. | 3.6 | 16 |
| 31 | Ferro-nano-carbon split ring resonators a bianisotropic metamaterial in X-band: Constitutive parameters analysis. Materials Chemistry and Physics, 2018, 205, 366-375. | 4.0 | 15 |
| 32 | Synergistically modified WS ₂ @PANI binary nanocomposite-based all-solid-state symmetric supercapacitor with high energy density. New Journal of Chemistry, 2022, 46, 7043-7054. | 2.8 | 15 |
| 33 | Production parameters for the formation of metallic nanotubules in etched tracks. Radiation Measurements, 2003, 36, 751-755. | 1.4 | 14 |
| 34 | Simple fabrication process of a screen-printed triode-CNT field emitter array. Diamond and Related Materials, 2006, 15, 1855-1858. | 3.9 | 14 |
| 35 | The interactions between CdTe quantum dots and proteins: understanding nano-bio interface. AIMS Materials Science, 2017, 4, 209-222. | 1.4 | 14 |
| 36 | Study of Blast Wave Pressure Modification through Rubber Foam. Procedia Engineering, 2017, 173, 570-576. | 1.2 | 13 |

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|----|---|-----|-----------|
| 37 | High performance tellurium-reduced graphene oxide pseudocapacitor electrodes. Electrochimica Acta, 2018, 291, 225-233. | 5.2 | 13 |
| 38 | Nanocarbons: Preparation, assessments, and applications in structural engineering, spintronics, gas sensing, EMI shielding, and cloaking in X-band. , 2019, , 171-285. | | 12 |
| 39 | Dielectric constant and surface morphology of the elemental diffused polyimide. Journal Physics D: Applied Physics, 2006, 39, 4855-4859. | 2.8 | 11 |
| 40 | A comparative study of thermionic emission from vertically grown carbon nanotubes and tungsten cathodes. Applied Surface Science, 2011, 257, 10306-10310. | 6.1 | 10 |
| 41 | Effect of MeV electron irradiation on the free volume of polyimide. Radiation Effects and Defects in Solids, 2004, 159, 511-516. | 1.2 | 9 |
| 42 | Preparation and performance evaluation of Carbon-Nano-Sphere for electrode double layer capacitor. Applied Surface Science, 2018, 449, 500-506. | 6.1 | 9 |
| 43 | Thermo-physical Properties and Combustion Wave Aspects of RDX Contain Low Aluminium Composite Propellant. Combustion and Flame, 2020, 218, 12-17. | 5.2 | 9 |
| 44 | Growth of carbon nanotubes: effect of Fe diffusion and oxidation. Philosophical Magazine Letters, 2007, 87, 767-780. | 1.2 | 8 |
| 45 | Improvement of emission reliability of carbon nanotube emitters by electrical conditioning. Thin Solid Films, 2008, 516, 3618-3621. | 1.8 | 7 |
| 46 | Enhanced response and improved selectivity for toxic gases with functionalized CNT thin film resistors. Integrated Ferroelectrics, 2018, 186, 65-70. | 0.7 | 7 |
| 47 | Experimental and theoretical study of Tetrakis(dimethylamino)ethylene induced magnetism in otherwise nonmagnetic graphene derivatives. Materials Chemistry and Physics, 2019, 222, 132-138. | 4.0 | 7 |
| 48 | Carbon nanotubes growth in AlPO4-5 zeolites: Evidence for density dependent field emission characteristics. Diamond and Related Materials, 2006, 15, 1759-1764. | 3.9 | 6 |
| 49 | Formation of buried-layer CNTs in porous SiO2 templates. Diamond and Related Materials, 2007, 16, 326-333. | 3.9 | 6 |
| 50 | Exploring molecular and spin interactions of Tellurium adatom in reduced graphene oxide. Materials Chemistry and Physics, 2017, 195, 82-87. | 4.0 | 6 |
| 51 | Experimental Study of Blast Wave Mitigation in Open Cell Foams. Materials Today: Proceedings, 2018, 5, 28170-28179. | 1.8 | 6 |
| 52 | Surface Interactions of Transonic Shock Waves with Graphene-Like Nanoribbons. Surfaces, 2020, 3, 505-515. | 2.3 | 6 |
| 53 | Mitigation of Blast Induced Acceleration using open cell natural rubber and Synthetic Foam. Defence Science Journal, 2019, 69, 53-57. | 0.8 | 6 |
| 54 | Microwave scattering parameters of ferro–nanocarbon composites for tracking range countermeasures. Materials Advances, 2022, 3, 1660-1672. | 5.4 | 6 |

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|----|---|-----|-----------|
| 55 | Tellurium nanostructures for optoelectronic applications. Applied Physics A: Materials Science and Processing, 2022, 128, 1. | 2.3 | 6 |
| 56 | Multi-barrier layer-mediated growth of carbon nanotubes. Thin Solid Films, 2008, 516, 3646-3650. | 1.8 | 5 |
| 57 | Electrochemical performance of a self-assembled two-dimensional heterostructure of rGO/MoS ₂ /h-BN. Nanoscale Advances, 2020, 2, 1531-1541. | 4.6 | 5 |
| 58 | Tellurium-reduced graphene oxide two-dimensional (2D) architecture for efficient photo-catalytic effluent: Solution for industrial water waste. Diamond and Related Materials, 2020, 108, 107994. | 3.9 | 5 |
| 59 | High Speed Projectile Sensor: Design, Development and System Engineering. IEEE Sensors Journal, 2021, 21, 27062-27068. | 4.7 | 5 |
| 60 | Exchange Interaction of Itinerant Electron Donors of Tetrakis (Dimethylamino) Ethylene with Localized Electrons in Graphene. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2014, 44, 1477-1482. | 0.6 | 4 |
| 61 | Decoration of gold nanoparticles on thin multiwall carbon nanotubes and their use as a glucose sensor. Materials Research Express, 2016, 3, 035008. | 1.6 | 4 |
| 62 | Shock wave hydrodynamics of nano-carbons. Materials Chemistry and Physics, 2021, 263, 124337. | 4.0 | 4 |
| 63 | Microwave scattering behaviour of carbon black/ molybdenum di sulphide /cobalt composite for electromagnetic interference shielding application. Materials Chemistry and Physics, 2022, 279, 125766. | 4.0 | 4 |
| 64 | Carbon nanoparticles grown in the subsurface-region of porous SiO2. Journal Physics D: Applied Physics, 2007, 40, 3423-3429. | 2.8 | 3 |
| 65 | Nanoclusters and nanotubes for swift ion track technology. Radiation Effects and Defects in Solids, 2007, 162, 151-156. | 1.2 | 3 |
| 66 | Blast mitigation properties of porous nano-carbon. Diamond and Related Materials, 2021, 120, 108691. | 3.9 | 3 |
| 67 | Electrical ageing of carbon nanotube composite cathode layers. Diamond and Related Materials, 2008, 17, 980-985. | 3.9 | 2 |
| 68 | Field Emission Properties of a Graphene/Polymer Composite. Journal of Nanoscience and Nanotechnology, 2013, 13, 7689-7694. | 0.9 | 2 |
| 69 | Synthesis and characterization of graphene-like nano ribbons (GNR) using chemical vapor deposition for shock absorbent application. AIP Conference Proceedings, 2019, , . | 0.4 | 2 |
| 70 | Xâ€band Scattering Characteristics of Nickel/Nanocarbon Composites for Antiâ€tracking Application. ChemNanoMat, 2022, 8, . | 2.8 | 2 |
| 71 | The growth of carbon nanotubes at the channel ends of the SAPO4-5 zeolite structures. Diamond and Related Materials, 2005, 14, 1876-1881. | 3.9 | 1 |
| 72 | Selective deposition of catalyst nanoparticles using the gravitational force for carbon nanotubes interconnect. Thin Solid Films, 2008, 516, 3534-3537. | 1.8 | 1 |

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|----|---|-----|-----------|
| 73 | Effect of rocket propulsion exhaust on thermophysical properties of graphite nozzle. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |
| 74 | Synthesis and characterization of graphene like nano flakes(GNF) using chemical vapor deposition. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |
| 75 | Study of electrochemical parameters of carbon-nano-spheres/polyaniline nano-composite. AlP Conference Proceedings, 2020, , . | 0.4 | 1 |
| 76 | Studies on Heat Flux Imparted on Thermal Insulation Inside Rocket Motor Containing Double Base Propellant. Journal of Aerospace Technology and Management, 0, , . | 0.3 | 1 |
| 77 | Propellant Combustion Wave Studies by Embedded Thermocouple and Imaging Method at Ambient Pressure. Journal of Aerospace Technology and Management, 2020, , . | 0.3 | 1 |
| 78 | Gold-graphene nanocomposite based ultrasensitive electrochemical glucose sensor. , 2012, , . | | 0 |
| 79 | Investigation of Disorder in Mixed Phase, <i>sp</i> ² – <i>sp</i> ³ Bonded Graphene-Like Nanocarbon. Journal of Nanoscience and Nanotechnology, 2018, 18, 2504-2512. | 0.9 | 0 |
| 80 | Electrical characteristics of etched ion-tracks in polyimide filled with silver nanoparticles. Radiation Effects and Defects in Solids, 2018, 173, 617-628. | 1.2 | 0 |
| 81 | Spin dynamics in graphene-like nanocarbon, graphene and their nitrogen adatom derivatives. Applied Physics A: Materials Science and Processing, 2018, 124, 1. | 2.3 | Ο |