

Rajeev Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,557
citations

159585

30
h-index

206112

48
g-index

70
all docs

70
docs citations

70
times ranked

2532
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Enhanced electromagnetic interference shielding properties of phenolic resin derived lightweight carbon foam decorated with electrospun zinc oxide nanofibers. <i>Materials Today Communications</i> , 2022, 30, 103055. | 1.9 | 15 |
| 2 | Thermal insulating and fire-retardant lightweight carbon-slag composite foams towards absorption dominated electromagnetic interference shielding. <i>Sustainable Materials and Technologies</i> , 2022, 33, e00453. | 3.3 | 5 |
| 3 | Role of oxygen functionalities of GO in corrosion protection of metallic Fe. <i>Carbon</i> , 2021, 173, 350-363. | 10.3 | 43 |
| 4 | Effect of compressive strain rate on the deformation behaviour of austenitic stainless steel foam produced by space holder technique. <i>Materials Chemistry and Physics</i> , 2021, 259, 124010. | 4.0 | 12 |
| 5 | A nickel oxide-decorated <i>in situ</i> grown 3-D graphitic forest engrained carbon foam electrode for microbial fuel cells. <i>Chemical Communications</i> , 2021, 57, 879-882. | 4.1 | 39 |
| 6 | Superiority of graphite coated metallic-nanoparticles over graphite coated insulating-nanoparticles for enhancing EMI shielding. <i>New Journal of Chemistry</i> , 2021, 45, 4592-4600. | 2.8 | 9 |
| 7 | Role of graphitization-controlled conductivity in enhancing absorption dominated EMI shielding behavior of pyrolysis-derived Fe ₃ C@C-PVDF nanocomposites. <i>Materials Chemistry and Physics</i> , 2021, 263, 124429. | 4.0 | 18 |
| 8 | Partially open cell Ti-6Al-2Co ternary alloy foams with a range of size and volume fraction of spacer particle. <i>Materials Letters</i> , 2021, 290, 129463. | 2.6 | 1 |
| 9 | Iron/Iron Carbide (Fe/Fe ₃ C) Encapsulated in S, N Codoped Graphitic Carbon as a Robust HER Electrocatalyst. <i>Energy & Fuels</i> , 2021, 35, 16046-16053. | 5.1 | 11 |
| 10 | Microstructure and high temperature compressive deformation in lightweight open cell titanium foam. <i>Manufacturing Letters</i> , 2021, 27, 67-71. | 2.2 | 6 |
| 11 | Microstructure, mechanical and EMI shielding performance in open cell austenitic stainless steel foam made through PU foam template. <i>Materials Chemistry and Physics</i> , 2020, 241, 122273. | 4.0 | 20 |
| 12 | Lightweight open cell aluminum foam for superior mechanical and electromagnetic interference shielding properties. <i>Materials Chemistry and Physics</i> , 2020, 240, 122274. | 4.0 | 50 |
| 13 | Effect of Microstructure and Magnetic Properties of Ba-Pb-Hexaferrite Particles on EMI Shielding Behavior of Ba-Pb-Hexaferrite-Polyaniline-Wax Nanocomposites. <i>Journal of Electronic Materials</i> , 2020, 49, 1618-1629. | 2.2 | 54 |
| 14 | Effect of Al addition and space holder content on microstructure and mechanical properties of Ti ₂ Co alloys foams for bone scaffold application. <i>Materials Science and Engineering C</i> , 2020, 109, 110600. | 7.3 | 13 |
| 15 | Potential of graphene-based materials to combat COVID-19: properties, perspectives, and prospects. <i>Materials Today Chemistry</i> , 2020, 18, 100385. | 3.5 | 86 |
| 16 | Synthesis and characterization of 316L stainless steel foam made through two different removal process of space holder method. <i>Manufacturing Letters</i> , 2020, 26, 33-36. | 2.2 | 19 |
| 17 | Ni Nanoparticles Coated with Nitrogen-Doped Carbon for Optical Limiting Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 8618-8631. | 5.0 | 49 |
| 18 | Phenol formaldehyde resin derived carbon-MCMB composite foams for electromagnetic interference shielding and thermal management applications. <i>Composites Communications</i> , 2020, 22, 100433. | 6.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Three dimension phenolic resin derived carbon-CNTs hybrid foam for fire retardant and effective electromagnetic interference shielding. <i>Composites Part C: Open Access</i> , 2020, 2, 100020. | 3.2 | 11 |
| 20 | Mechanistic insights into the optical limiting performance of carbonaceous nanomaterials embedded with core-shell type graphite encapsulated Co nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27224-27240. | 2.8 | 35 |
| 21 | Lightweight carbon-red mud hybrid foam toward fire-resistant and efficient shield against electromagnetic interference. <i>Scientific Reports</i> , 2020, 10, 9913. | 3.3 | 15 |
| 22 | Effect of Cr Doping on Structural, Optical and Dielectric Properties of ZnO Nanoceramics Synthesized by Mechanical Alloying. <i>Electronic Materials Letters</i> , 2020, 16, 255-263. | 2.2 | 15 |
| 23 | Graphene Oxide Coatings on Amino Acid Modified Fe Surfaces for Corrosion Inhibition. <i>ACS Applied Nano Materials</i> , 2020, 3, 3540-3557. | 5.0 | 47 |
| 24 | Non-centrosymmetric zinc silicate-graphene based transparent flexible piezoelectric nanogenerator. <i>Nano Energy</i> , 2020, 73, 104821. | 16.0 | 44 |
| 25 | Effect of SWCNTs content and relative density on the energy absorption capabilities of closed-cell Al-cenosphere-SWCNTs hybrid foam. <i>Composites Part B: Engineering</i> , 2019, 176, 107304. | 12.0 | 23 |
| 26 | Investigation on pitch derived mesocarbon spheres based metal composites for highly efficient electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2019, 175, 107168. | 12.0 | 14 |
| 27 | Multi-component framework derived SiC composite paper to support efficient thermal transport and high EMI shielding performance. <i>Composites Part B: Engineering</i> , 2019, 176, 107123. | 12.0 | 20 |
| 28 | Modulating non-linear optical absorption through controlled graphitization of carbon nanostructures containing Fe ₃ C-graphite core-shell nanoparticles. <i>Carbon</i> , 2019, 153, 545-556. | 10.3 | 55 |
| 29 | Role of iron in the enhanced reactivity of pulverized Red mud: Analysis by Mössbauer spectroscopy and FTIR spectroscopy. <i>Case Studies in Construction Materials</i> , 2019, 11, e00266. | 1.7 | 21 |
| 30 | Structural, optical and Mössbauer spectroscopic investigations on the environment of Fe in Fe-doped ZnO (Zn _{1-x} Fe _x O) ceramics synthesized by solution combustion method. <i>Ceramics International</i> , 2019, 45, 24625-24634. | 4.8 | 43 |
| 31 | Steady-shear response of magnetorheological fluid containing coral-shaped yttrium-iron-garnet particles. <i>Materials Research Bulletin</i> , 2019, 113, 45-50. | 5.2 | 22 |
| 32 | Enhancing absorption dominated microwave shielding in Co@PVDF nanocomposites through improved magnetization and graphitization of the Co@C-nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15595-15608. | 2.8 | 57 |
| 33 | Improved sensing behaviour of self-healable solar light photodetector based on core-shell type Ni _{0.2} Zn _{0.8} Fe ₂ O ₄ @ poly (Urea-Formaldehyde). <i>Solar Energy</i> , 2019, 188, 278-290. | 6.1 | 23 |
| 34 | Thermal conductivity and fire-retardant response in graphite foam made from coal tar pitch derived semi coke. <i>Composites Part B: Engineering</i> , 2019, 172, 121-130. | 12.0 | 24 |
| 35 | Nitrogen doping as a fundamental way to enhance the EMI shielding behavior of cobalt particle-embedded carbonaceous nanostructures. <i>New Journal of Chemistry</i> , 2019, 43, 5568-5580. | 2.8 | 49 |
| 36 | XRD, internal field-NMR and Mössbauer spectroscopy study of composition, structure and magnetic properties of iron oxide phases in iron ores. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2192-2200. | 5.8 | 19 |

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|----|--|------|-----------|
| 37 | Microstructure and compressive deformation behavior of SS foam made through evaporation of urea as space holder. <i>Materials Chemistry and Physics</i> , 2019, 223, 737-744. | 4.0 | 29 |
| 38 | Lightweight, high electrical and thermal conducting carbon-rGO composites foam for superior electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2019, 160, 131-139. | 12.0 | 86 |
| 39 | Scalable development of a multi-phase thermal management system with superior EMI shielding properties. <i>Composites Part B: Engineering</i> , 2019, 158, 206-217. | 12.0 | 23 |
| 40 | Structural and magnetic properties of Al-doped yttrium iron garnet ceramics: ^{57}Fe internal field NMR and Mössbauer spectroscopy study. <i>Journal of Alloys and Compounds</i> , 2019, 773, 612-622. | 5.5 | 31 |
| 41 | Investigation of structural, morphological and NTCR behaviour of Cu-doped ZnO nanoceramics synthesized by high energy ball milling. <i>Materials Chemistry and Physics</i> , 2019, 221, 419-429. | 4.0 | 39 |
| 42 | Carbon nanotubes or carbon globules: Optimization of the pyrolytic synthesis parameters and study of the magnetic properties. <i>Nano Structures Nano Objects</i> , 2018, 14, 131-137. | 3.5 | 26 |
| 43 | Effect of Coral-shaped Yttrium Iron Garnet Particles on the EMI Shielding Behaviour of Yttrium Iron Garnet-Polyaniline-Wax Composites. <i>ChemistrySelect</i> , 2018, 3, 2120-2130. | 1.5 | 46 |
| 44 | Structural variation study of cobalt nanoparticles synthesized by co-precipitation method using ^{59}Co NMR. <i>AIP Conference Proceedings</i> , 2018, , . | 0.4 | 1 |
| 45 | Compressive Deformation Behavior of Open-Cell Cu-Zn-Al Alloy Foam Made Through P/M Route Using Mechanically Alloyed Powder. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1450-1465. | 2.5 | 2 |
| 46 | Excited state intramolecular proton transfer emission in bent core liquid crystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 186-191. | 3.9 | 13 |
| 47 | Synthesis of coral-shaped yttrium-aluminium-iron garnets by solution-combustion method. <i>Ceramics International</i> , 2018, 44, 3024-3031. | 4.8 | 47 |
| 48 | One-step pyrolytic synthesis and growth mechanism of core-shell type $\text{Fe}_3\text{O}_4/\text{Fe}_3\text{C}$ -graphite nanoparticles-embedded carbon globules. <i>Nano Structures Nano Objects</i> , 2018, 16, 77-85. | 3.5 | 37 |
| 49 | Excellent EMI shielding performance and thermal insulating properties in lightweight, multifunctional carbon-cenosphere composite foams. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 112, 475-484. | 7.6 | 70 |
| 50 | Effect of solvents on the structure and magnetic properties of pyrolysis derived carbon globules embedded with iron/iron carbide nanoparticles and their applications in magnetorheological fluids. <i>Nano Structures Nano Objects</i> , 2018, 16, 167-173. | 3.5 | 31 |
| 51 | Mechanistic Insight into the Critical Concentration of Barium Hexaferrite and the Conductive Polymeric Phase with Respect to Synergistically Electromagnetic Interference (EMI) Shielding. <i>ChemistrySelect</i> , 2017, 2, 830-841. | 1.5 | 47 |
| 52 | Integration of MCMBs/MWCNTs with Fe_3O_4 in a flexible and light weight composite paper for promising EMI shielding applications. <i>Journal of Materials Chemistry C</i> , 2017, 5, 322-332. | 5.5 | 94 |
| 53 | Carbon encapsulated nanoscale iron/iron-carbide/graphite particles for EMI shielding and microwave absorption. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23268-23279. | 2.8 | 148 |
| 54 | Role of pyrolysis reaction temperature and heating-rate in the growth and morphology of carbon nanostructures. <i>Nano Structures Nano Objects</i> , 2017, 12, 229-238. | 3.5 | 40 |

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|----|--|------|-----------|
| 55 | Lightweight and Easily Foldable MCMB-MWCNTs Composite Paper with Exceptional Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2016, 8, 10600-10608. | 8.0 | 188 |
| 56 | Three-dimensional and highly ordered porous carbon@MnO ₂ composite foam for excellent electromagnetic interference shielding efficiency. RSC Advances, 2016, 6, 100713-100722. | 3.6 | 53 |
| 57 | Novel 3D lightweight carbon foam as an effective adsorbent for arsenic(^v) removal from contaminated water. RSC Advances, 2016, 6, 29899-29908. | 3.6 | 25 |
| 58 | Nanoparticles-decorated coal tar pitch-based carbon foam with enhanced electromagnetic radiation absorption capability. RSC Advances, 2015, 5, 20256-20264. | 3.6 | 19 |
| 59 | Mesocarbon microsphere composites with Fe ₃ O ₄ nanoparticles for outstanding electromagnetic interference shielding effectiveness. RSC Advances, 2015, 5, 43279-43289. | 3.6 | 29 |
| 60 | Nanostructuring effect of multi-walled carbon nanotubes on electrochemical properties of carbon foam as constructive electrode for lead acid battery. Applied Nanoscience (Switzerland), 2015, 5, 53-61. | 3.1 | 11 |
| 61 | Nickel nanoparticles embedded in carbon foam for improving electromagnetic shielding effectiveness. Applied Nanoscience (Switzerland), 2015, 5, 553-561. | 3.1 | 52 |
| 62 | Strengthening of semicoke based carbon composites through multi-wall carbon nanotubes. Applied Nanoscience (Switzerland), 2014, 4, 601-611. | 3.1 | 8 |
| 63 | Improved electromagnetic interference shielding effectiveness of light weight carbon foam by ferrocene accumulation. RSC Advances, 2013, 3, 4145. | 3.6 | 91 |
| 64 | Effective improvement of the properties of light weight carbon foam by decoration with multi-wall carbon nanotubes. Journal of Materials Chemistry A, 2013, 1, 5727. | 10.3 | 154 |
| 65 | The role of ferrocene on the enhancement of the mechanical and electrochemical properties of coal tar pitch-based carbon foams. Journal of Materials Science, 2013, 48, 7071-7080. | 3.7 | 20 |
| 66 | Development of mesophase pitch derived high thermal conductivity graphite foam using a template method. Carbon, 2011, 49, 3622-3630. | 10.3 | 68 |
| 67 | Development of pitch-based carbon@copper composites. Journal of Materials Science, 2010, 45, 1393-1400. | 3.7 | 14 |
| 68 | Influence of coal tar pitch coating on the properties of micro and nano SiC incorporated carbon@ceramic composites. Journal of Materials Science, 2009, 44, 4633-4638. | 3.7 | 6 |