

Arman Sedghi

List of Publications by Year in descending order

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48
papers

1,044
citations

471061

17
h-index

433756

31
g-index

50
all docs

50
docs citations

50
times ranked

1124
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Fabrication of A356 composite reinforced with micro and nano Al ₂ O ₃ particles by a developed compocasting method and study of its properties. <i>Journal of Alloys and Compounds</i> , 2012, 511, 226-231. | 2.8 | 189 |
| 2 | The effect of commercial polyacrylonitrile fibers characterizations on the produced carbon fibers properties. <i>Journal of Materials Processing Technology</i> , 2008, 198, 60-67. | 3.1 | 81 |
| 3 | The effect of magnesium content on in vitro bioactivity, biological behavior and antibacterial activity of sol-gel derived 58S bioactive glass. <i>Ceramics International</i> , 2018, 44, 9422-9432. | 2.3 | 68 |
| 4 | Synthesis of novel graphene/Co ₃ O ₄ /polypyrrole ternary nanocomposites as electrochemically enhanced supercapacitor electrodes. <i>Energy</i> , 2019, 188, 116088. | 4.5 | 47 |
| 5 | Production and properties of Cu/TiO ₂ nano-composites. <i>Journal of Alloys and Compounds</i> , 2017, 698, 518-524. | 2.8 | 45 |
| 6 | Cobalt based Metal Organic Framework/Graphene nanocomposite as high performance battery-type electrode materials for asymmetric Supercapacitors. <i>Journal of Energy Storage</i> , 2021, 33, 101925. | 3.9 | 44 |
| 7 | Effect of thermal characteristics of commercial and special polyacrylonitrile fibres on the fabrication of carbon fibres. <i>Materials Science and Technology</i> , 2006, 22, 1235-1239. | 0.8 | 36 |
| 8 | Synthesis of Nano-Flower Metal-Organic Framework/Graphene Composites As a High-Performance Electrode Material for Supercapacitors. <i>Journal of Electronic Materials</i> , 2019, 48, 7011-7024. | 1.0 | 34 |
| 9 | Synergistic effect of Ni-based metal organic framework with graphene for enhanced electrochemical performance of supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12351-12363. | 1.1 | 33 |
| 10 | Structural properties and supercapacitive performance evaluation of the nickel oxide/graphene/polypyrrole hybrid ternary nanocomposite in aqueous and organic electrolytes. <i>Energy</i> , 2021, 214, 118950. | 4.5 | 30 |
| 11 | One-step electrodeposition synthesis of high performance Graphene/Cu ₂ O nanocomposite films on copper foils as binder-free supercapacitor electrodes. <i>Solid State Sciences</i> , 2020, 106, 106336. | 1.5 | 28 |
| 12 | Influence of TiCl ₄ Treatment on Structure and Performance of Dye-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 075002. | 0.8 | 27 |
| 13 | High-performance supercapacitor electrode materials based on chemical co-precipitation synthesis of nickel oxide (NiO)/cobalt oxide (Co ₃ O ₄)-intercalated graphene nanosheets binary nanocomposites. <i>Diamond and Related Materials</i> , 2021, 114, 108313. | 1.8 | 24 |
| 14 | Effect of chemical composition and alumina content on structure and properties of ceramic insulators. <i>Bulletin of Materials Science</i> , 2014, 37, 321-325. | 0.8 | 19 |
| 15 | Comparison of copper compounds on copper foil as current collector for fabrication of graphene/polypyrrole electrode. <i>Journal of Energy Storage</i> , 2018, 19, 201-212. | 3.9 | 19 |
| 16 | The effect of processing parameters in the carbothermal synthesis of titanium diboride powder. <i>Advanced Powder Technology</i> , 2012, 23, 234-238. | 2.0 | 18 |
| 17 | The influence of heat treatment on the microstructure, flux pinning and magnetic properties of bulk BSCCO samples prepared by sol-gel route. <i>Ceramics International</i> , 2018, 44, 5209-5218. | 2.3 | 18 |
| 18 | Enhancement in the performance of BSCCO (Bi-2223) superconductor with functionalized TiO ₂ nanorod additive. <i>Ceramics International</i> , 2019, 45, 21878-21886. | 2.3 | 18 |

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|----|--|-----|-----------|
| 19 | Comparison of the effect of nickel and cobalt cations addition on the structural and magnetic properties of manganese-zinc ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 56-62. | 1.0 | 15 |
| 20 | Effect of Graphene Nanosheets Content on Microstructure and Mechanical Properties of Titanium Matrix Composite Produced by Cold Pressing and Sintering. <i>Nanomaterials</i> , 2018, 8, 1024. | 1.9 | 14 |
| 21 | Impact of functionalized SiC nano-whisker on the flux pinning ability and superconductor features of Bi-2223 ceramics. <i>Ceramics International</i> , 2021, 47, 3706-3712. | 2.3 | 14 |
| 22 | Effect of Ti ₃ SiC ₂ on the ablation behavior and mechanism of Cf-C-SiC-Ti ₃ SiC ₂ composites under oxyacetylene torch at 3000°C. <i>Ceramics International</i> , 2019, 45, 777-785. | 2.3 | 13 |
| 23 | Synergic effect of physically-mixed metal organic framework based electrodes as a high efficient material for supercapacitors. <i>Journal of Energy Storage</i> , 2021, 44, 103248. | 3.9 | 12 |
| 24 | Bi-2223 superconductor ceramics added with cubic-shaped TiO ₂ nanoparticles: Structural, microstructural, magnetic, and vortex pinning studies. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163201. | 2.8 | 11 |
| 25 | Properties of an Al/(Al ₂ O ₃ +TiB ₂ +ZrB ₂) hybrid composite manufactured by powder metallurgy and hot pressing. <i>Journal of Applied Mechanics and Technical Physics</i> , 2017, 58, 454-460. | 0.1 | 10 |
| 26 | Enhancement of Dose Response and Nuclear Magnetic Resonance Image of PAGAT Polymer Gel Dosimeter by Adding Silver Nanoparticles. <i>PLoS ONE</i> , 2017, 12, e0168737. | 1.1 | 10 |
| 27 | Enhancement in superconducting properties of Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8+δ} (Bi-2212) by means of boron oxide additive. <i>Physica C: Superconductivity and Its Applications</i> , 2018, 548, 31-39. | 0.6 | 10 |
| 28 | Mechanical properties and microstructure of the C-C-SiC, C-C-SiC-Ti ₃ SiC ₂ and C-C-SiC-Ti ₃ Si(Al) ₂ C ₂ composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 731, 446-453. | 2.6 | 10 |
| 29 | Facile and scalable fabrication of graphene/polypyrrole/MnOx/Cu(OH) ₂ composite for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3317-3329. | 1.2 | 10 |
| 30 | Fabrication of Al ₂ O ₃ /(ZrB ₂ +TiB ₂) Composite Using MACS and Microwaves. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 3125-3129. | 1.1 | 9 |
| 31 | Investigation of the effect of various parameters on the amount and morphology of nano-laminate MAX phase in C f -C-SiC-Ti ₃ SiC ₂ composite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 71, 292-300. | 1.7 | 9 |
| 32 | Synergic effect of additives on the structure and properties of nano strontium hexaferrite synthesized via the gel combustion method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115631. | 1.7 | 6 |
| 33 | Effects of ZrC content on the synthesis of MAX phase and mechanical properties of Cf-C-SiC-Ti ₃ SiC ₂ -ZrC composites. <i>Ceramics International</i> , 2018, 44, 18039-18047. | 2.3 | 5 |
| 34 | Introduction of nano-laminate Ti ₃ SiC ₂ and SiC phases into Cf-C composite by liquid silicon infiltration method. <i>Metallurgical and Materials Engineering</i> , 2017, 23, 21-30. | 0.2 | 5 |
| 35 | Fabrication of carbon fibres from wet-spun commercial polyacrylonitrile fibres. <i>Fibre Chemistry</i> , 2006, 38, 383-386. | 0.0 | 4 |
| 36 | Effect of Zn and Mg additives on the fabrication of SiCp/Al ₂ O ₃ +Al composite by Directed Metal Oxidation (DIMOX) of aluminum. <i>Ceramics International</i> , 2020, 46, 22307-22312. | 2.3 | 4 |

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|----|---|-----|-----------|
| 37 | Stabilization of commercial polyacrylonitrile fibres for fabrication of low-cost medium-strength carbon fibres. <i>E-Polymers</i> , 2006, 6, . | 1.3 | 3 |
| 38 | Facile Fabrication of Graphene/Mn ₃ O ₄ /Cu(OH) ₂ on Cu Foil as an Electrode for Supercapacitor Applications. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 429-437. | 0.3 | 3 |
| 39 | Synthesis of nano Mn-Zn ferrites by gel combustion method with three different fuels and investigation of their structure and properties. <i>Materials Science-Poland</i> , 2020, 38, 350-358. | 0.4 | 3 |
| 40 | The Effect of the Pyrolysis Furnace Type on the Yield of Silicon Carbide Whiskers Produced from Rice Husks. <i>Defect and Diffusion Forum</i> , 2011, 312-315, 346-351. | 0.4 | 2 |
| 41 | Wear behaviour of Al/(Al ₂ O ₃ + ZrB ₂ + TiB ₂) hybrid composites fabricated by hot pressing. <i>International Journal of Materials Research</i> , 2021, 106, 160-165. | 0.1 | 2 |
| 42 | Solid state synthesis of celsian barium aluminosilicate by a multistep firing technique. <i>Advances in Materials and Processing Technologies</i> , 2015, 1, 484-492. | 0.8 | 2 |
| 43 | Effect of fuel type on the combustion reaction behavior, phase structure and morphology of Ni _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles. <i>Materials Science-Poland</i> , 2020, 38, 341-349. | 0.4 | 2 |
| 44 | The effect of Graphitization on the Mechanical Properties of twodimensional carbon - carbon composites. <i>Materialwissenschaft Und Werkstofftechnik</i> , 1997, 28, 236-240. | 0.5 | 1 |
| 45 | A new method for synthesis of cordierite nanopowder. <i>Advances in Materials and Processing Technologies</i> , 2015, 1, 404-410. | 0.8 | 1 |
| 46 | Effect of solvent and processing condition on structure and morphology of aluminum nitride nanopowders fabricated by electrical explosion of wire (EEW). <i>Advances in Materials and Processing Technologies</i> , 2015, 1, 508-514. | 0.8 | 0 |
| 47 | Investigation of the effect of MAI and Pb ₂ concentrations on the properties of perovskite solar cells. <i>Bulletin of Materials Science</i> , 2020, 43, 1. | 0.8 | 0 |
| 48 | Crystallization Evolution of (Nd,Pr)-(Fe,Co,Ga,Ti,C)-B Melt-Spun Ribbons with Various Solidification Rates and Compositions. <i>Science of Advanced Materials</i> , 2017, 9, 978-983. | 0.1 | 0 |