Tayyab Subhani

List of Publications by Year
in descending order

65 papers	1,629 citations	279487 23 h-index	315357 38 g-index
66 all docs	66 docs citations	66 times ranked	1909 citing authors

#	Article	IF	Citations
1	Effect of B4C and CNTsâ€™ nanoparticle reinforcement on the mechanical and corrosion properties in rolled Al 5083 friction stir welds. Canadian Metallurgical Quarterly, 2023, 62, 1-10.	0.4	7
2	Enhancement of Surface and Interface Properties of Low Carbon Steel by Hybrid ZnO and NiO Nanoparticles Reinforced Tin Coating. Crystals, 2022, 12, 332.	1.0	4
3	Intrinsic Properties and Future Perspective of HfO2/V2O5/HfO2 Multi-Layer Thin Films via E-Beam Evaporation as a Transparent Heat Mirror. Coatings, 2022, 12, 448.	1.2	10
4	Intermetallic Compounds Formation during 316L Stainless Steel Reaction with Al-Zn-Si Coating Alloy. Crystals, 2022, 12, 735.	1.0	2
5	Experimental investigation of a developed tubular solar still with longitudinal wicked fins. Renewable Energy, 2022, 193, 1074-1081.	4.3	20
6	Synthesis and Characterization of Nanostructured Multi-Layer Cr/SnO2/NiO/Cr Coatings Prepared via E-Beam Evaporation Technique for Metal-Insulator-Insulator-Metal Diodes. Materials, 2022, 15, 3906.	1.3	3
7	Thermodynamic and Kinetic Analyses of the Removal of Impurity Titanium and Vanadium from Molten Aluminum for Electrical Conductor Applications. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3130-3141.	1.0	6
8	Improved Ablative Properties of Nanodiamond-Reinforced Carbon Fiberâ€“Epoxy Matrix Composites. Polymers, 2021, 13, 2035.	2.0	8
9	Transient liquid phase bonding of ZK60 magnesium alloy using graphene nanoplatelets. Materials Science and Technology, 2021, 37, 993-1001.	0.8	0
10	Analysis of 316L Stainless Steel Interaction with Galvanizing Alloy Bath. Microscopy and Microanalysis, 2020, 26, 2884-2886.	0.2	2
11	Development and Optimization of Tin/Flux Mixture for Direct Tinning and Interfacial Bonding in Aluminum/Steel Bimetallic Compound Casting. Materials, 2020, 13, 5642.	1.3	14
12	Microstructural and Mechanical Profile of Carbon Fiber Epoxy Matrix Composites Containing Nanodiamonds. Microscopy and Microanalysis, 2020, 26, 2380-2382.	0.2	0
13	Fabrication and Characterization of Sn-Based Babbitt Alloy Nanocomposite Reinforced with Al2O3 Nanoparticles/Carbon Steel Bimetallic Material. Materials, 2020, 13, 2759.	1.3	22
14	Titanium carbide coating on graphene nanoplatelets. Journal of Materials Research and Technology, 2020, 9, 3075-3083.	2.6	11
15	Structural and thermal properties of nanocrystalline Alx(SiFeCoNi)100-x medium entropy alloys. Materials Research Express, 2019, 6, 106585.	0.8	2
16	Customizable Ceramic Nanocomposites Using Carbon Nanotubes. Molecules, 2019, 24, 3176.	1.7	5
17	Study of Interfacial Properties of Carbon Fiber Epoxy Matrix Composites Containing Graphene Nanoplatelets. Fibers and Polymers, 2019, 20, 633-641.	1.1	8
18	Hybrid aluminum matrix composites containing carbon nanotubes and zirconium diboride particles: fractography, microstructure and mechanical performance. SN Applied Sciences, 2019, 1, 1.	1.5	1

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19	Curing parameter optimization of the adhesive film in honeycomb sandwich structures through mechanical performance. International Journal of Advanced and Applied Sciences, 2019, 6, 60-65.	0.2	1
20	Improving the performance of conventional glass fiber epoxy matrix composites by incorporating nanodiamonds. Composite Interfaces, 2018, 25, 1005-1018.	1.3	6
21	Mechanically robust superhydrophobic coating from sawdust particles and carbon soot for oil/water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 391-398.	2.3	63
22	Interfacial mechanical properties of carbon nanotube-deposited carbon fiber epoxy matrix hierarchical composites. Composite Interfaces, 2018, 25, 681-699.	1.3	30
23	Glass Fiber Epoxy Matrix Composites Containing Zero and Two Dimensional Carbonaceous Nanoreinforcements. Polymer Composites, 2018, 39, E2056.	2.3	8
24	Durable and Recyclable Superhydrophobic Fabric and Mesh for Oilâ€“Water Separation. Advanced Engineering Materials, 2018, 20, 1700460.	1.6	53
25	Effect of inter-cavity spacing in friction stir processed Al 5083 composites containing carbon nanotubes and boron carbide particles. Journal of Materials Processing Technology, 2018, 253, 72-85.	3.1	53
26	Effect of carbon nanotubes and silicon carbide particles on ablative properties of carbon fiber phenolic matrix composites. Vacuum, 2018, 148, 124-126.	1.6	25
27	A treatise on multiscale glass fiber epoxy matrix composites containing graphene nanoplatelets. Advanced Composites and Hybrid Materials, 2018, 1, 705-721.	9.9	15
28	Synergistic effect of organic and inorganic nano fillers on the dielectric and mechanical properties of epoxy composites. Journal of Materials Science and Technology, 2018, 34, 2424-2430.	5.6	43
29	Thermophysical Properties of High-Frequency Induction Heat Sintered Graphene Nanoplatelets/Alumina Ceramic Functional Nanocomposites. Journal of Materials Engineering and Performance, 2018, 27, 2949-2959.	1.2	23
30	Effect of distribution of B₄C on the mechanical behaviour of Al-6061/B₄C composite. Powder Metallurgy, 2018, 61, 293-300.	0.9	16
31	Chemical and structural analyses of the graphene nanosheet/alumina ceramic interfacial region in rapidly consolidated ceramic nanocomposites. Journal of Composite Materials, 2018, 52, 417-428.	1.2	17
32	Evaluation of eddy current signatures for predicting different heat treatment effects in chromiumâ€“vanadium (CrV) spring steel. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2017, 231, 259-271.	0.7	1
33	Polyurethane foam-based radar absorbing sandwich structures to evade detection. Journal of Sandwich Structures and Materials, 2017, 19, 647-658.	2.0	12
34	Toward improved mechanical performance of multiscale carbon fiber and carbon nanotube epoxy composites. Polymer Composites, 2017, 38, 1519-1528.	2.3	15
35	Durable and self-healing superhydrophobic surfaces for building materials. Materials Letters, 2017, 192, 56-59.	1.3	54
36	Cold formability of friction stir processed aluminum composites containing carbon nanotubes and boron carbide particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 552-557.	2.6	25

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37	A durable superhydrophobic coating for the protection of wood materials. Materials Letters, 2017, 203, 17-20.	1.3	54
38	Erratum to â€œCold formability of friction stir processed aluminum composites containing carbon nanotubes and boron carbide particlesâ€•[Materials Science & Engineering A 696 (2017) 552â€“557]. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 701, 381.	2.6	0
39	Microstructural evolution, mechanical profile, and fracture morphology of aluminum matrix composites containing graphene nanoplatelets. Journal of Materials Research, 2017, 32, 2055-2066.	1.2	37
40	Mechanical and thermal properties of hybrid carbon fibreâ€“phenolic matrix composites containing graphene nanoplatelets and graphite powder. Plastics, Rubber and Composites, 2017, 46, 431-441.	0.9	10
41	Microstructural and mechanical characterization of hybrid aluminum matrix composite containing boron carbide and Al-Cu-Fe quasicrystals. Metals and Materials International, 2017, 23, 813-822.	1.8	21
42	Photoluminescence behaviour of cerium activated yttrium aluminium garnet intercalated PMMA composite thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 15527-15536.	1.1	2
43	Hybrid aluminium matrix composites containing boron carbide and quasicrystals: Manufacturing and characterisation. Materials Science and Technology, 2017, 33, 1955-1963.	0.8	26
44	Fabrication of superhydrophobic filter paper and foam for oilâ€“water separation based on silica nanoparticles from sodium silicate. Journal of Sol-Gel Science and Technology, 2017, 81, 912-920.	1.1	53
45	A study of the nanocomposite sandwich structures for broadband microwave absorption and flexural strength. Journal of Sandwich Structures and Materials, 2016, 18, 739-753.	2.0	21
46	In-situ synthesis of bi-modal hydrophobic silica nanoparticles for oil-water separation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 508, 301-308.	2.3	42
47	Toughness enhancement in graphene nanoplatelet/SiC reinforced Al2O3ceramic hybrid nanocomposites. Nanotechnology, 2016, 27, 425704.	1.3	38
48	Synergic influence of MWCNTs and SiC nanoparticles on the microstructure and properties of Al 2 O 3 ceramic hybrid nanocomposites. Current Applied Physics, 2016, 16, 1649-1658.	1.1	28
49	Fabrication and characterization of bipolar plates of vinyl ester resin/graphite-based composite for polymer electrolyte membrane fuel cells. Journal of Thermoplastic Composite Materials, 2016, 29, 1315-1331.	2.6	14
50	Synthesis of silica nanoparticles from sodium silicate under alkaline conditions. Journal of Sol-Gel Science and Technology, 2016, 77, 753-758.	1.1	76
51	Synthesis and characterization of silica nanoparticles from clay. Journal of Asian Ceramic Societies, 2016, 4, 91-96.	1.0	93
52	Thermal and ablative properties of binary carbon nanotube and nanodiamond reinforced carbon fibre epoxy matrix composites. Plastics, Rubber and Composites, 2015, 44, 397-404.	0.9	8
53	Effect of Cellulose-Derived Structural Homogeneity of Precursor on the Synthesis and Morphology of Boron Carbide. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 995-999.	1.9	18
54	Effect of particle morphology and coating thickness on fluorescent behavior of Ce doped yttrium aluminium garnet phosphor screens. Journal of Materials Science: Materials in Electronics, 2015, 26, 6744-6749.	1.1	4

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55	Effect of Multiwall Carbon Nanotubes on the Ablative Properties of Carbon Fiber-Reinforced Epoxy Matrix Composites. Arabian Journal for Science and Engineering, 2015, 40, 1529-1538.	1.1	17
56	Toughening mechanisms and mechanical properties of graphene nanosheet-reinforced alumina. Materials and Design, 2015, 88, 1234-1243.	3.3	102
57	Effect of saccharides as carbon source on the synthesis and morphology of B₄C fine particles from carbothermal synthesis precursors. Materials Express, 2015, 5, 390-400.	0.2	9
58	Mechanical performance of epoxy matrix hybrid nanocomposites containing carbon nanotubes and nanodiamonds. Materials and Design, 2015, 87, 436-444.	3.3	78
59	Towards tunable size of silica particles from rice husk. Journal of Non-Crystalline Solids, 2015, 429, 61-69.	1.5	48
60	Characterization of GNP-Containing Al2O3 Nanocomposites Fabricated via High Frequency-Induction Heat Sintering Route. Journal of Materials Engineering and Performance, 2015, 24, 4236-4243.	1.2	28
61	Ethylene glycol assisted low-temperature synthesis of boron carbide powder from borate citrate precursors. Journal of Asian Ceramic Societies, 2014, 2, 268-274.	1.0	23
62	Reinforcement effect of nanodiamond on properties of epoxy matrix. , 2013, , .		0
63	Electrophoretic deposition of carbon nanotubeâ€“ceramic nanocomposites. Journal of the European Ceramic Society, 2010, 30, 1115-1129.	2.8	158
64	Microstructural characterisation and electrical properties of multiwalled carbon nanotubes/glass-ceramic nanocomposites. Journal of Materials Chemistry, 2010, 20, 308-313.	6.7	11
65	Electrophoretic Deposition of PEEK-TiO₂Composite Coatings on Stainless Steel. Key Engineering Materials, 0, 507, 127-133.	0.4	13