

Tayyab Subhani

List of Publications by Year in descending order

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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	Electrophoretic deposition of carbon nanotube/ceramic nanocomposites. Journal of the European Ceramic Society, 2010, 30, 1115-1129.	2.8	158
2	Toughening mechanisms and mechanical properties of graphene nanosheet-reinforced alumina. Materials and Design, 2015, 88, 1234-1243.	3.3	102
3	Synthesis and characterization of silica nanoparticles from clay. Journal of Asian Ceramic Societies, 2016, 4, 91-96.	1.0	93
4	Mechanical performance of epoxy matrix hybrid nanocomposites containing carbon nanotubes and nanodiamonds. Materials and Design, 2015, 87, 436-444.	3.3	78
5	Synthesis of silica nanoparticles from sodium silicate under alkaline conditions. Journal of Sol-Gel Science and Technology, 2016, 77, 753-758.	1.1	76
6	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
7	Durable and self-healing superhydrophobic surfaces for building materials. Materials Letters, 2017, 192, 56-59.	1.3	54
8	A durable superhydrophobic coating for the protection of wood materials. Materials Letters, 2017, 203, 17-20.	1.3	54
9	Fabrication of superhydrophobic filter paper and foam for oil/water separation based on silica nanoparticles from sodium silicate. Journal of Sol-Gel Science and Technology, 2017, 81, 912-920.	1.1	53
10	Durable and Recyclable Superhydrophobic Fabric and Mesh for Oil/Water Separation. Advanced Engineering Materials, 2018, 20, 1700460.	1.6	53
11	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
12	Towards tunable size of silica particles from rice husk. Journal of Non-Crystalline Solids, 2015, 429, 61-69.	1.5	48
13	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
14	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
15	Toughness enhancement in graphene nanoplatelet/SiC reinforced Al ₂ O ₃ ceramic hybrid nanocomposites. Nanotechnology, 2016, 27, 425704.	1.3	38
16	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
17	Interfacial mechanical properties of carbon nanotube-deposited carbon fiber epoxy matrix hierarchical composites. Composite Interfaces, 2018, 25, 681-699.	1.3	30
18	Characterization of GNP-Containing Al ₂ O ₃ Nanocomposites Fabricated via High Frequency-Induction Heat Sintering Route. Journal of Materials Engineering and Performance, 2015, 24, 4236-4243.	1.2	28

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19	Synergic influence of MWCNTs and SiC nanoparticles on the microstructure and properties of Al ₂ O ₃ ceramic hybrid nanocomposites. <i>Current Applied Physics</i> , 2016, 16, 1649-1658.	1.1	28
20	Hybrid aluminium matrix composites containing boron carbide and quasicrystals: Manufacturing and characterisation. <i>Materials Science and Technology</i> , 2017, 33, 1955-1963.	0.8	26
21	Cold formability of friction stir processed aluminum composites containing carbon nanotubes and boron carbide particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 552-557.	2.6	25
22	Effect of carbon nanotubes and silicon carbide particles on ablative properties of carbon fiber phenolic matrix composites. <i>Vacuum</i> , 2018, 148, 124-126.	1.6	25
23	Ethylene glycol assisted low-temperature synthesis of boron carbide powder from borate citrate precursors. <i>Journal of Asian Ceramic Societies</i> , 2014, 2, 268-274.	1.0	23
24	Thermophysical Properties of High-Frequency Induction Heat Sintered Graphene Nanoplatelets/Alumina Ceramic Functional Nanocomposites. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 2949-2959.	1.2	23
25	Fabrication and Characterization of Sn-Based Babbitt Alloy Nanocomposite Reinforced with Al ₂ O ₃ Nanoparticles/Carbon Steel Bimetallic Material. <i>Materials</i> , 2020, 13, 2759.	1.3	22
26	A study of the nanocomposite sandwich structures for broadband microwave absorption and flexural strength. <i>Journal of Sandwich Structures and Materials</i> , 2016, 18, 739-753.	2.0	21
27	Microstructural and mechanical characterization of hybrid aluminum matrix composite containing boron carbide and Al-Cu-Fe quasicrystals. <i>Metals and Materials International</i> , 2017, 23, 813-822.	1.8	21
28	Experimental investigation of a developed tubular solar still with longitudinal wickered fins. <i>Renewable Energy</i> , 2022, 193, 1074-1081.	4.3	20
29	Effect of Cellulose-Derived Structural Homogeneity of Precursor on the Synthesis and Morphology of Boron Carbide. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 995-999.	1.9	18
30	Effect of Multiwall Carbon Nanotubes on the Ablative Properties of Carbon Fiber-Reinforced Epoxy Matrix Composites. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 1529-1538.	1.1	17
31	Chemical and structural analyses of the graphene nanosheet/alumina ceramic interfacial region in rapidly consolidated ceramic nanocomposites. <i>Journal of Composite Materials</i> , 2018, 52, 417-428.	1.2	17
32	Effect of distribution of B ₄ C on the mechanical behaviour of Al-6061/B ₄ C composite. <i>Powder Metallurgy</i> , 2018, 61, 293-300.	0.9	16
33	Toward improved mechanical performance of multiscale carbon fiber and carbon nanotube epoxy composites. <i>Polymer Composites</i> , 2017, 38, 1519-1528.	2.3	15
34	A treatise on multiscale glass fiber epoxy matrix composites containing graphene nanoplatelets. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 705-721.	9.9	15
35	Fabrication and characterization of bipolar plates of vinyl ester resin/graphite-based composite for polymer electrolyte membrane fuel cells. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 1315-1331.	2.6	14
36	Development and Optimization of Tin/Flux Mixture for Direct Tinning and Interfacial Bonding in Aluminum/Steel Bimetallic Compound Casting. <i>Materials</i> , 2020, 13, 5642.	1.3	14

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37	Electrophoretic Deposition of PEEK-TiO ₂ Composite Coatings on Stainless Steel. <i>Key Engineering Materials</i> , 0, 507, 127-133.	0.4	13
38	Polyurethane foam-based radar absorbing sandwich structures to evade detection. <i>Journal of Sandwich Structures and Materials</i> , 2017, 19, 647-658.	2.0	12
39	Microstructural characterisation and electrical properties of multiwalled carbon nanotubes/glass-ceramic nanocomposites. <i>Journal of Materials Chemistry</i> , 2010, 20, 308-313.	6.7	11
40	Titanium carbide coating on graphene nanoplatelets. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3075-3083.	2.6	11
41	Mechanical and thermal properties of hybrid carbon fibre-phenolic matrix composites containing graphene nanoplatelets and graphite powder. <i>Plastics, Rubber and Composites</i> , 2017, 46, 431-441.	0.9	10
42	Intrinsic Properties and Future Perspective of HfO ₂ /V ₂ O ₅ /HfO ₂ Multi-Layer Thin Films via E-Beam Evaporation as a Transparent Heat Mirror. <i>Coatings</i> , 2022, 12, 448.	1.2	10
43	Effect of saccharides as carbon source on the synthesis and morphology of B ₄ C fine particles from carbothermal synthesis precursors. <i>Materials Express</i> , 2015, 5, 390-400.	0.2	9
44	Thermal and ablative properties of binary carbon nanotube and nanodiamond reinforced carbon fibre epoxy matrix composites. <i>Plastics, Rubber and Composites</i> , 2015, 44, 397-404.	0.9	8
45	Glass Fiber Epoxy Matrix Composites Containing Zero and Two Dimensional Carbonaceous Nanoreinforcements. <i>Polymer Composites</i> , 2018, 39, E2056.	2.3	8
46	Study of Interfacial Properties of Carbon Fiber Epoxy Matrix Composites Containing Graphene Nanoplatelets. <i>Fibers and Polymers</i> , 2019, 20, 633-641.	1.1	8
47	Improved Ablative Properties of Nanodiamond-Reinforced Carbon Fiber-Epoxy Matrix Composites. <i>Polymers</i> , 2021, 13, 2035.	2.0	8
48	Effect of B ₄ C and CNTs™ nanoparticle reinforcement on the mechanical and corrosion properties in rolled Al 5083 friction stir welds. <i>Canadian Metallurgical Quarterly</i> , 2023, 62, 1-10.	0.4	7
49	Improving the performance of conventional glass fiber epoxy matrix composites by incorporating nanodiamonds. <i>Composite Interfaces</i> , 2018, 25, 1005-1018.	1.3	6
50	Thermodynamic and Kinetic Analyses of the Removal of Impurity Titanium and Vanadium from Molten Aluminum for Electrical Conductor Applications. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3130-3141.	1.0	6
51	Customizable Ceramic Nanocomposites Using Carbon Nanotubes. <i>Molecules</i> , 2019, 24, 3176.	1.7	5
52	Effect of particle morphology and coating thickness on fluorescent behavior of Ce doped yttrium aluminium garnet phosphor screens. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6744-6749.	1.1	4
53	Enhancement of Surface and Interface Properties of Low Carbon Steel by Hybrid ZnO and NiO Nanoparticles Reinforced Tin Coating. <i>Crystals</i> , 2022, 12, 332.	1.0	4
54	Synthesis and Characterization of Nanostructured Multi-Layer Cr/SnO ₂ /NiO/Cr Coatings Prepared via E-Beam Evaporation Technique for Metal-Insulator-Insulator-Metal Diodes. <i>Materials</i> , 2022, 15, 3906.	1.3	3

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55	Photoluminescence behaviour of cerium activated yttrium aluminium garnet intercalated PMMA composite thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15527-15536.	1.1	2
56	Structural and thermal properties of nanocrystalline Al _x (SiFeCoNi) _{100-x} medium entropy alloys. <i>Materials Research Express</i> , 2019, 6, 106585.	0.8	2
57	Analysis of 316L Stainless Steel Interaction with Galvanizing Alloy Bath. <i>Microscopy and Microanalysis</i> , 2020, 26, 2884-2886.	0.2	2
58	Intermetallic Compounds Formation during 316L Stainless Steel Reaction with Al-Zn-Si Coating Alloy. <i>Crystals</i> , 2022, 12, 735.	1.0	2
59	Evaluation of eddy current signatures for predicting different heat treatment effects in chromium-vanadium (CrV) spring steel. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2017, 231, 259-271.	0.7	1
60	Hybrid aluminum matrix composites containing carbon nanotubes and zirconium diboride particles: fractography, microstructure and mechanical performance. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	1
61	Curing parameter optimization of the adhesive film in honeycomb sandwich structures through mechanical performance. <i>International Journal of Advanced and Applied Sciences</i> , 2019, 6, 60-65.	0.2	1
62	Reinforcement effect of nanodiamond on properties of epoxy matrix. , 2013, , .		0
63	Erratum to "Cold formability of friction stir processed aluminum composites containing carbon nanotubes and boron carbide particles" [Materials Science & Engineering A 696 (2017) 552-557]. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 701, 381.	2.6	0
64	Microstructural and Mechanical Profile of Carbon Fiber Epoxy Matrix Composites Containing Nanodiamonds. <i>Microscopy and Microanalysis</i> , 2020, 26, 2380-2382.	0.2	0
65	Transient liquid phase bonding of ZK60 magnesium alloy using graphene nanoplatelets. <i>Materials Science and Technology</i> , 2021, 37, 993-1001.	0.8	0