

Dan Sun

List of Publications by Year in descending order

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51
papers

1,962
citations

201674

27
h-index

254184

43
g-index

54
all docs

54
docs citations

54
times ranked

2404
citing authors

#	ARTICLE	IF	CITATIONS
1	Graded/Gradient Porous Biomaterials. <i>Materials</i> , 2010, 3, 26-47.	2.9	216
2	Dual Physically Cross-Linked $\hat{\text{I}}^{\text{e}}$ -Carrageenan-Based Double Network Hydrogels with Superior Self-Healing Performance for Biomedical Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37544-37554.	8.0	136
3	Drill-exit temperature characteristics in drilling of UD and MD CFRP composites based on infrared thermography. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 135, 24-37.	13.4	106
4	Promoting Osseointegration of Ti Implants through Micro/Nanoscaled Hierarchical Ti Phosphate/Ti Oxide Hybrid Coating. <i>ACS Nano</i> , 2018, 12, 7883-7891.	14.6	91
5	Microplasma Processed Ultrathin Boron Nitride Nanosheets for Polymer Nanocomposites with Enhanced Thermal Transport Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13567-13572.	8.0	82
6	Melt processing and characterisation of polyamide 6/graphene nanoplatelet composites. <i>RSC Advances</i> , 2015, 5, 52395-52409.	3.6	81
7	Modification of polyetheretherketone implants: From enhancing bone integration to enabling multi-modal therapeutics. <i>Acta Biomaterialia</i> , 2021, 129, 18-32.	8.3	71
8	Melt processing and properties of linear low density polyethylene-graphene nanoplatelet composites. <i>Vacuum</i> , 2016, 130, 63-71.	3.5	69
9	Gold nanoparticle-polymer nanocomposites synthesized by room temperature atmospheric pressure plasma and their potential for fuel cell electrocatalytic application. <i>Scientific Reports</i> , 2017, 7, 46682.	3.3	64
10	Super tough graphene oxide reinforced polyetheretherketone for potential hard tissue repair applications. <i>Composites Science and Technology</i> , 2019, 174, 194-201.	7.8	56
11	Multifunctional load-bearing hybrid hydrogel with combined drug release and photothermal conversion functions. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	56
12	Hole-making processes and their impacts on the microstructure and fatigue response of aircraft alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 1719-1726.	3.0	53
13	Enhanced Dispersion of TiO ₂ Nanoparticles in a TiO ₂ /PEDOT:PSS Hybrid Nanocomposite via Plasma-Liquid Interactions. <i>Scientific Reports</i> , 2015, 5, 15765.	3.3	50
14	3D-Printed Multifunctional Polyetheretherketone Bone Scaffold for Multimodal Treatment of Osteosarcoma and Osteomyelitis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47327-47340.	8.0	48
15	Highly stretchable, sensitive and wide linear responsive fabric-based strain sensors with a self-segregated carbon nanotube (CNT)/Polydimethylsiloxane (PDMS) coating. <i>Progress in Natural Science: Materials International</i> , 2022, 32, 34-42.	4.4	47
16	Conducting Polyetheretherketone Nanocomposites with an Electrophoretically Deposited Bioactive Coating for Bone Tissue Regeneration and Multimodal Therapeutic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56924-56934.	8.0	46
17	3D FEM simulation of helical milling hole process for titanium alloy Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 1733-1742.	3.0	43
18	Smart multi-layer PVA foam/ CMC mesh dressing with integrated multi-functions for wound management and infection monitoring. <i>Materials and Design</i> , 2020, 194, 108913.	7.0	41

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19	Micro-abrasion mechanisms of cast CoCrMo in simulated body fluids. <i>Wear</i> , 2009, 267, 1845-1855.	3.1	35
20	Atmospheric pressure microplasma for antibacterial silver nanoparticle/chitosan nanocomposites with tailored properties. <i>Composites Science and Technology</i> , 2020, 186, 107911.	7.8	35
21	Processing, Microstructure and Mechanical Properties of Air Plasma-Sprayed Ceria-Yttria Co-stabilized Zirconia Coatings. <i>Strain</i> , 2010, 46, 409-418.	2.4	34
22	Tool life and hole surface integrity studies for hole-making of Ti6Al4V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1017-1026.	3.0	34
23	Metal nanoparticle-hydrogel nanocomposites for biomedical applications – An atmospheric pressure plasma synthesis approach. <i>Plasma Processes and Polymers</i> , 2018, 15, 1800112.	3.0	34
24	A fast UV-curable PU-PAAm hydrogel with mechanical flexibility and self-adhesion for wound healing. <i>RSC Advances</i> , 2020, 10, 4907-4915.	3.6	33
25	Uniaxially stretched polyethylene/boron nitride nanocomposite films with metal-like thermal conductivity. <i>Composites Science and Technology</i> , 2020, 196, 108154.	7.8	31
26	Nanoscale Hybrid Coating Enables Multifunctional Tissue Scaffold for Potential Multimodal Therapeutic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27269-27278.	8.0	30
27	The influence of high-temperature sintering on microstructure and mechanical properties of free-standing APS CeO ₂ -Y ₂ O ₃ -ZrO ₂ coatings. <i>Journal of Materials Science</i> , 2010, 45, 2662-2669.	3.7	28
28	A comparative study of hole-making performance by coated and uncoated WC/Co cutters in helical milling of Ti/CFRP stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 2645-2658.	3.0	26
29	Chitosan/Silver Nanoparticle/Graphene Oxide Nanocomposites with Multi-Drug Release, Antimicrobial, and Photothermal Conversion Functions. <i>Materials</i> , 2021, 14, 2351.	2.9	26
30	Atmospheric Pressure Plasma-Synthesized Gold Nanoparticle/Carbon Nanotube Hybrids for Photothermal Conversion. <i>Langmuir</i> , 2019, 35, 4577-4588.	3.5	25
31	Optimization and Prediction of Mechanical and Thermal Properties of Graphene/LLDPE Nanocomposites by Using Artificial Neural Networks. <i>International Journal of Polymer Science</i> , 2016, 1-15.	2.7	24
32	Modelling and experimental validation on drilling delamination of aramid fiber reinforced plastic composites. <i>Composite Structures</i> , 2020, 236, 111907.	5.8	22
33	Exploring the mechanism behind improved osteointegration of phosphorylated titanium implants with hierarchically structured topography. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110520.	5.0	20
34	Graphene reinforced polyether ether ketone nanocomposites for bone repair applications. <i>Polymer Testing</i> , 2021, 100, 107276.	4.8	18
35	Thermoresponsive nanocomposites incorporating microplasma synthesized magnetic nanoparticles – Synthesis and potential applications. <i>Plasma Processes and Polymers</i> , 2019, 16, 1800128.	3.0	15
36	Towards understanding the hole making performance and chip formation mechanism of thermoplastic carbon fibre/polyetherketoneketone composite. <i>Composites Part B: Engineering</i> , 2022, 234, 109752.	12.0	14

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37	Effect of two types of graphene nanoplatelets on the physico-mechanical properties of linear low-density polyethylene composites. <i>Advanced Manufacturing: Polymer and Composites Science</i> , 2016, 2, 67-73.	0.4	13
38	High-strength thermoplastic bonding for multi-channel, multi-layer lab-on-chip devices for ocean and environmental applications. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 913-922.	2.2	11
39	Investigating hole making performance of Al 2024-T3/Ti-6Al-4V alloy stacks: A comparative study of conventional drilling, peck drilling and helical milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 5027-5040.	3.0	11
40	Micro- and Nano-scale Tribo-Corrosion of Cast CoCrMo. <i>Tribology Letters</i> , 2011, 41, 525-533.	2.6	10
41	Equilibrium Melting Temperature of Polymorphic Poly(L-lactide) and Its Supercooling Dependence on Growth Kinetics. <i>Polymers</i> , 2017, 9, 625.	4.5	10
42	Microplasma assisted synthesis of gold nanoparticle/graphene oxide nanocomposites and their potential application in SERS sensing. <i>Nanotechnology</i> , 2019, 30, 455603.	2.6	10
43	Long-term hydrolytically stable bond formation for future membrane-based deep ocean microfluidic chemical sensors. <i>Lab on A Chip</i> , 2019, 19, 1287-1295.	6.0	9
44	The analysis of dissolved inorganic carbon in liquid using a microfluidic conductivity sensor with membrane separation of CO ₂ . <i>Microfluidics and Nanofluidics</i> , 2020, 24, 37.	2.2	9
45	3D Printed Multifunctional Ti ₆ Al ₄ V-Based Hybrid Scaffold for the Management of Osteosarcoma. <i>Bioconjugate Chemistry</i> , 2021, 32, 2184-2194.	3.6	8
46	An analytical delamination model of drilling aramid fiber-reinforced plastics by brad drill. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 3279-3290.	3.0	7
47	Characterizing Biaxially Stretched Polypropylene / Graphene Nanoplatelet Composites. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	7
48	Mechanistic force modelling in drilling of AFRP composite considering the chisel edge extrusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 33-44.	3.0	5
49	Effect of precursor pH on AuNP/MWCNT nanocomposites synthesized by plasma-induced non-equilibrium electrochemistry. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 425207.	2.8	4
50	Open hole surface integrity and its impact on fatigue performance of Al 2024-T3/Ti-6Al-4V stacks. <i>Procedia CIRP</i> , 2022, 108, 234-239.	1.9	4
51	Flexible and Ultrahigh Through-Plane Thermally-Conductive Polyethylene/Boron Nitride Nanocomposite Films. <i>Macromolecular Materials and Engineering</i> , 0, , 2100695.	3.6	3