

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	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
2	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
3	Towards understanding the hole making performance and chip formation mechanism of thermoplastic carbon fibre/polyetheretherketone composite. <i>Composites Part B: Engineering</i> , 2022, 234, 109752.	12.0	14
4	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
5	Chitosan/Silver Nanoparticle/Graphene Oxide Nanocomposites with Multi-Drug Release, Antimicrobial, and Photothermal Conversion Functions. <i>Materials</i> , 2021, 14, 2351.	2.9	26
6	Characterizing Biaxially Stretched Polypropylene / Graphene Nanoplatelet Composites. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	7
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	Graphene reinforced polyether ether ketone nanocomposites for bone repair applications. <i>Polymer Testing</i> , 2021, 100, 107276.	4.8	18
9	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
10	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
11	Modelling and experimental validation on drilling delamination of aramid fiber reinforced plastic composites. <i>Composite Structures</i> , 2020, 236, 111907.	5.8	22
12	Atmospheric pressure microplasma for antibacterial silver nanoparticle/chitosan nanocomposites with tailored properties. <i>Composites Science and Technology</i> , 2020, 186, 107911.	7.8	35
13	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
14	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
15	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
16	Uniaxially stretched polyethylene/boron nitride nanocomposite films with metal-like thermal conductivity. <i>Composites Science and Technology</i> , 2020, 196, 108154.	7.8	31
17	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
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	A fast UV-curable PU-PAAm hydrogel with mechanical flexibility and self-adhesion for wound healing. RSC Advances, 2020, 10, 4907-4915.	3.6	33
20	Multifunctional load-bearing hybrid hydrogel with combined drug release and photothermal conversion functions. NPG Asia Materials, 2020, 12, .	7.9	56
21	Effect of precursor pH on AuNP/MWCNT nanocomposites synthesized by plasma-induced non-equilibrium electrochemistry. Journal Physics D: Applied Physics, 2020, 53, 425207.	2.8	4
22	Exploring the mechanism behind improved osteointegration of phosphorylated titanium implants with hierarchically structured topography. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110520.	5.0	20
23	Microplasma assisted synthesis of gold nanoparticle/graphene oxide nanocomposites and their potential application in SERS sensing. Nanotechnology, 2019, 30, 455603.	2.6	10
24	Nanoscale Hybrid Coating Enables Multifunctional Tissue Scaffold for Potential Multimodal Therapeutic Applications. ACS Applied Materials & Interfaces, 2019, 11, 27269-27278.	8.0	30
25	Atmospheric Pressure Plasma-Synthesized Gold Nanoparticle/Carbon Nanotube Hybrids for Photothermal Conversion. Langmuir, 2019, 35, 4577-4588.	3.5	25
26	Super tough graphene oxide reinforced polyetheretherketone for potential hard tissue repair applications. Composites Science and Technology, 2019, 174, 194-201.	7.8	56
27	Long-term hydrolytically stable bond formation for future membrane-based deep ocean microfluidic chemical sensors. Lab on A Chip, 2019, 19, 1287-1295.	6.0	9
28	Thermoresponsive nanocomposites incorporating microplasma synthesized magnetic nanoparticlesâ€”Synthesis and potential applications. Plasma Processes and Polymers, 2019, 16, 1800128.	3.0	15
29	Hole-making processes and their impacts on the microstructure and fatigue response of aircraft alloys. International Journal of Advanced Manufacturing Technology, 2018, 94, 1719-1726.	3.0	53
30	A comparative study of hole-making performance by coated and uncoated WC/Co cutters in helical milling of Ti/CFRP stacks. International Journal of Advanced Manufacturing Technology, 2018, 94, 2645-2658.	3.0	26
31	Dual Physically Cross-Linked Î²-Carrageenan-Based Double Network Hydrogels with Superior Self-Healing Performance for Biomedical Application. ACS Applied Materials & Interfaces, 2018, 10, 37544-37554.	8.0	136
32	Metal nanoparticleâ€”hydrogel nanocomposites for biomedical applications â€” An atmospheric pressure plasma synthesis approach. Plasma Processes and Polymers, 2018, 15, 1800112.	3.0	34
33	Promoting Osseointegration of Ti Implants through Micro/Nanoscaled Hierarchical Ti Phosphate/Ti Oxide Hybrid Coating. ACS Nano, 2018, 12, 7883-7891.	14.6	91
34	Drill-exit temperature characteristics in drilling of UD and MD CFRP composites based on infrared thermography. International Journal of Machine Tools and Manufacture, 2018, 135, 24-37.	13.4	106
35	Gold nanoparticle-polymer nanocomposites synthesized by room temperature atmospheric pressure plasma and their potential for fuel cell electrocatalytic application. Scientific Reports, 2017, 7, 46682.	3.3	64
36	Equilibrium Melting Temperature of Polymorphic Poly(l-lactide) and Its Supercooling Dependence on Growth Kinetics. Polymers, 2017, 9, 625.	4.5	10

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37	Optimization and Prediction of Mechanical and Thermal Properties of Graphene/LLDPE Nanocomposites by Using Artificial Neural Networks. International Journal of Polymer Science, 2016, 2016, 1-15.	2.7	24
38	Melt processing and properties of linear low density polyethylene-graphene nanoplatelet composites. Vacuum, 2016, 130, 63-71.	3.5	69
39	Microplasma Processed Ultrathin Boron Nitride Nanosheets for Polymer Nanocomposites with Enhanced Thermal Transport Performance. ACS Applied Materials & Interfaces, 2016, 8, 13567-13572.	8.0	82
40	Effect of two types of graphene nanoplatelets on the physico-mechanical properties of linear low-density polyethylene composites. Advanced Manufacturing: Polymer and Composites Science, 2016, 2, 67-73.	0.4	13
41	Enhanced Dispersion of TiO ₂ Nanoparticles in a TiO ₂ /PEDOT:PSS Hybrid Nanocomposite via Plasma-Liquid Interactions. Scientific Reports, 2015, 5, 15765.	3.3	50
42	Melt processing and characterisation of polyamide 6/graphene nanoplatelet composites. RSC Advances, 2015, 5, 52395-52409.	3.6	81
43	Tool life and hole surface integrity studies for hole-making of Ti6Al4V alloy. International Journal of Advanced Manufacturing Technology, 2015, 79, 1017-1026.	3.0	34
44	High-strength thermoplastic bonding for multi-channel, multi-layer lab-on-chip devices for ocean and environmental applications. Microfluidics and Nanofluidics, 2015, 19, 913-922.	2.2	11
45	3D FEM simulation of helical milling hole process for titanium alloy Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2015, 81, 1733-1742.	3.0	43
46	Micro- and Nano-scale Tribo-Corrosion of Cast CoCrMo. Tribology Letters, 2011, 41, 525-533.	2.6	10
47	The influence of high-temperature sintering on microstructure and mechanical properties of free-standing APS CeO ₂ -Y ₂ O ₃ -ZrO ₂ coatings. Journal of Materials Science, 2010, 45, 2662-2669.	3.7	28
48	Processing, Microstructure and Mechanical Properties of Air Plasma-Sprayed Ceria-Yttria Co-stabilized Zirconia Coatings. Strain, 2010, 46, 409-418.	2.4	34
49	Graded/Gradient Porous Biomaterials. Materials, 2010, 3, 26-47.	2.9	216
50	Micro-abrasion mechanisms of cast CoCrMo in simulated body fluids. Wear, 2009, 267, 1845-1855.	3.1	35
51	Flexible and Ultrahigh Through-Plane Thermally-Conductive Polyethylene/Boron Nitride Nanocomposite Films. Macromolecular Materials and Engineering, 0, , 2100695.	3.6	3