

Jianfeng Wang

List of Publications by Year in descending order

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67
papers

4,349
citations

126708

33
h-index

106150

65
g-index

70
all docs

70
docs citations

70
times ranked

5402
citing authors

#	ARTICLE	IF	CITATIONS
1	A biodegradable magnesium alloy vascular stent structure: Design, optimisation and evaluation. <i>Acta Biomaterialia</i> , 2022, 142, 402-412.	4.1	20
2	A Constrained Assembly Strategy for High-Strength Natural Nanoclay Film. <i>ACS Nano</i> , 2022, 16, 6224-6232.	7.3	15
3	High-efficiency, self-grinding exfoliation of small graphene nanosheets from microcrystalline graphite driven by microbead milling as conductive additives. <i>Science China Materials</i> , 2022, 65, 2463-2471.	3.5	5
4	A scalable hydrogel processing route to high-strength, foldable clay-based artificial nacre. <i>Composites Science and Technology</i> , 2021, 201, 108543.	3.8	10
5	Total-conversion, high-concentration exfoliation of two-dimensional boron nitride by paste-based sand milling strategy for massively producing high-performance nanocomposites. <i>Composites Science and Technology</i> , 2021, 201, 108545.	3.8	11
6	Small molecule hydrogen-bonded toughen nacre-inspired montmorillonite-konjac glucomannan-glycerin film with superior mechanical, transparent and UV-blocking properties. <i>Composites Part B: Engineering</i> , 2021, 204, 108492.	5.9	26
7	Total conversion from graphite to few-layer graphene nanocomposite. <i>Carbon Trends</i> , 2021, 2, 100017.	1.4	5
8	Toward Largely Enhanced Toughness and Balanced Strength in PA1012/EPDM Blends via Synergistic Effect of Sacrificial Bonds and Network Structure. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000813.	1.7	1
9	Improved mechanical properties of in situ microfibrillar polypropylene/polyamide6 composites through constructing strong interfacial adhesion. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3343-3357.	1.6	5
10	Processing aramid nanofiber/modified graphene oxide hydrogel into ultrastrong nanocomposite film. <i>Applied Surface Science</i> , 2021, 545, 149004.	3.1	19
11	The Role of Astaxanthin on Chronic Diseases. <i>Crystals</i> , 2021, 11, 505.	1.0	18
12	Ultrahigh concentration and stable dispersion of graphite nanosheet paste as composite nanofillers for thermal management and electromagnetic shielding. <i>Nano Select</i> , 2021, 2, 2159-2167.	1.9	4
13	Ultrathin Titanium Carbide (MXene) Films for High-Temperature Thermal Camouflage. <i>Advanced Functional Materials</i> , 2021, 31, 2101381.	7.8	118
14	Ti ₃ C ₂ T _x MXene-Decorated Nanoporous Polyethylene Textile for Passive and Active Personal Precision Heating. <i>ACS Nano</i> , 2021, 15, 11396-11405.	7.3	141
15	Influence of the second phase on protein adsorption on biodegradable Mg alloys'™ surfaces: Comparative experimental and molecular dynamics simulation studies. <i>Acta Biomaterialia</i> , 2021, 129, 323-332.	4.1	16
16	Bioinspired modified graphite film with superb mechanical and thermoconductive properties. <i>Carbon</i> , 2021, 181, 40-47.	5.4	21
17	Rapid Photothermal Responsive Conductive MXene Nanocomposite Hydrogels for Soft Manipulators and Sensitive Strain Sensors. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100499.	2.0	33
18	Ultrahigh concentration, single-layer of graphene paste as conductive additive for lithium-ion battery. <i>Carbon Trends</i> , 2021, 5, 100104.	1.4	6

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19	A mechanically robust all-solid-state supercapacitor based on a highly conductive double-network hydrogel electrolyte and Ti ₃ C ₂ T _x MXene electrode with anti-freezing property. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25073-25085.	5.2	25
20	Preparation of Biodegradable Mg ²⁺ -TCP Biofunctional Gradient Materials by Friction Stir Processing and Pulse Reverse Current Electrodeposition. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 103-114.	1.5	6
21	A Bioinspired Ultratough Multifunctional Mica-Based Nanopaper with 3D Aramid Nanofiber Framework as an Electrical Insulating Material. <i>ACS Nano</i> , 2020, 14, 611-619.	7.3	85
22	Endothelial progenitor cells as the target for cardiovascular disease prediction, personalized prevention, and treatments: progressing beyond the state-of-the-art. <i>EPMA Journal</i> , 2020, 11, 629-643.	3.3	17
23	Atomic structure of Co ₉₂ B _x Ta ₈ glassy alloys studied by ab initio molecular dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26406.	1.0	1
24	A multi-model, large range and anti-freezing sensor based on a multi-crosslinked poly(vinyl alcohol) hydrogel for human-motion monitoring. <i>Journal of Materials Chemistry B</i> , 2020, 8, 11010-11020.	2.9	66
25	Freezing-Tolerant, Highly Sensitive Strain and Pressure Sensors Assembled from Ionic Conductive Hydrogels with Dynamic Cross-Links. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25334-25344.	4.0	189
26	Multifunctional MXene-Based Fireproof Electromagnetic Shielding Films with Exceptional Anisotropic Heat Dissipation Capability and Joule Heating Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27350-27360.	4.0	157
27	Co-Solvent Exfoliation of Hexagonal Boron Nitride: Effect of Raw Bulk Boron Nitride Size and Co-Solvent Composition. <i>Nanomaterials</i> , 2020, 10, 1035.	1.9	15
28	Air-permeable, multifunctional, dual-energy-driven MXene-decorated polymeric textile-based wearable heaters with exceptional electrothermal and photothermal conversion performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12526-12537.	5.2	203
29	High-Loading Boron Nitride-Based Bio-Inspired Paper with Plastic-like Ductility and Metal-like Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13156-13164.	4.0	36
30	Highly thermally conductive, ductile biomimetic boron nitride/aramid nanofiber composite film. <i>Composites Science and Technology</i> , 2020, 189, 108021.	3.8	73
31	Unprecedentedly Tough, Folding-Endurance, and Multifunctional Graphene-Based Artificial Nacre with Predesigned 3D Nanofiber Network as Matrix. <i>Advanced Functional Materials</i> , 2019, 29, 1903876.	7.8	77
32	Flexible, thermally conductive layered composite films from massively exfoliated boron nitride nanosheets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 124, 105498.	3.8	56
33	Advances in toughened polymer materials by structured rubber particles. <i>Progress in Polymer Science</i> , 2019, 98, 101160.	11.8	104
34	Role of poly(ethylene glycol) grafted silica nanoparticle shape in toughened PLA-matrix nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 168, 398-405.	5.9	35
35	Ultrafast yet Controllable Dual-Responsive All-Carbon Actuators for Implementing Unusual Mechanical Movements. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10218-10225.	4.0	47
36	Wetting-Induced Climbing for Transferring Interfacially Assembled Large-Area Ultrathin Pristine Graphene Film. <i>Advanced Materials</i> , 2019, 31, e1806742.	11.1	24

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37	Processing and properties of magnesium alloy micro-tubes for biodegradable vascular stents. <i>Materials Science and Engineering C</i> , 2018, 90, 504-513.	3.8	49
38	Ultrahigh Conductive Graphene Paper Based on Ball-Milling Exfoliated Graphene. <i>Advanced Functional Materials</i> , 2017, 27, 1700240.	7.8	241
39	Tunable, Fast, Robust Hydrogel Actuators Based on Evaporation-Programmed Heterogeneous Structures. <i>Chemistry of Materials</i> , 2017, 29, 9793-9801.	3.2	98
40	Conducting Polymer-Based Materials for Electrochemical Energy Conversion and Storage. <i>Advanced Materials</i> , 2017, 29, 1703044.	11.1	88
41	A biomimetic ion-crosslinked layered double hydroxide/alginate hybrid film. <i>RSC Advances</i> , 2017, 7, 32601-32606.	1.7	11
42	Robust Underwater Oil-Repellent Material Inspired by Columnar Nacre. <i>Advanced Materials</i> , 2016, 28, 8505-8510.	11.1	96
43	A strong, underwater superoleophobic PNIPAM-clay nanocomposite hydrogel. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12884-12888.	5.2	64
44	Hierarchical Layered Heterogeneous Graphene-poly(<i>N</i> -isopropylacrylamide)-clay Hydrogels with Superior Modulus, Strength, and Toughness. <i>ACS Nano</i> , 2016, 10, 413-420.	7.3	57
45	Antibody-Modified Reduced Graphene Oxide Films with Extreme Sensitivity to Circulating Tumor Cells. <i>Advanced Materials</i> , 2015, 27, 6848-6854.	11.1	126
46	Superwettability Controlled Overflow. <i>Advanced Materials</i> , 2015, 27, 1745-1750.	11.1	49
47	Nanoasperity: Structure Origin of Nacre-Inspired Nanocomposites. <i>ACS Nano</i> , 2015, 9, 2167-2172.	7.3	68
48	Stable underwater superoleophobic and low adhesive polypyrrole nanowire mesh in highly corrosive environments. <i>Soft Matter</i> , 2015, 11, 4290-4294.	1.2	19
49	Bioinspired Hierarchical Alumina-Graphene Oxide-Poly(vinyl alcohol) Artificial Nacre with Optimized Strength and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9281-9286.	4.0	82
50	Synergistic Toughening of Bioinspired Poly(vinyl alcohol)-Clay-Nanofibrillar Cellulose Artificial Nacre. <i>ACS Nano</i> , 2014, 8, 2739-2745.	7.3	282
51	Bioinspired Nacre-like Heparin/Layered Double Hydroxide Film with Superior Mechanical, Fire-Shielding, and UV-Blocking Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3820-3826.	1.8	37
52	Effects of minor Cu addition on glass-forming ability and magnetic properties of FePCBCu alloys with high saturation magnetization. <i>Philosophical Magazine</i> , 2013, 93, 2182-2189.	0.7	32
53	Understanding the relationship of performance with nanofiller content in the biomimetic layered nanocomposites. <i>Nanoscale</i> , 2013, 5, 6356.	2.8	97
54	Biocompatible Zr-Al-Fe bulk metallic glasses with large plasticity. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1664-1669.	2.0	22

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55	Layered nanocomposites inspired by the structure and mechanical properties of nacre. <i>Chemical Society Reviews</i> , 2012, 41, 1111-1129.	18.7	454
56	A Strong Bio-Inspired Layered PNIPAM-Clay Nanocomposite Hydrogel. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4676-4680.	7.2	198
57	Inside Cover: A Strong Bio-Inspired Layered PNIPAM-Clay Nanocomposite Hydrogel (<i>Angew. Chem. Int.</i>)	7.2	198
58	Functionalization of Multiwalled Carbon Nanotubes with Thermotropic Liquid-Crystalline Polymer and Thermal Properties of Composites. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 891-897.	1.8	13
59	Centimeter-scale-diameter Co-based bulk metallic glasses with fracture strength exceeding 5000 MPa. <i>Science Bulletin</i> , 2011, 56, 3972-3977.	1.7	31
60	Co-based ternary bulk metallic glasses with ultrahigh strength and plasticity. <i>Journal of Materials Research</i> , 2011, 26, 2072-2079.	1.2	151
61	Compressibility and hardness of Co-based bulk metallic glass: A combined experimental and density functional theory study. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	49
62	Mechanical and thermal properties of functionalized multiwalled carbon nanotubes and multiwalled carbon nanotube-polyurethane composites. <i>Journal of Applied Polymer Science</i> , 2009, 114, 3407-3413.	1.3	30
63	Concise route to styryl-modified multi-walled carbon nanotubes for polystyrene matrix and enhanced mechanical properties and thermal stability of composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 499, 469-475.	2.6	23
64	A Scalable Route to Highly Functionalized Multi-Walled Carbon Nanotubes on a Large Scale. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 846-853.	1.1	25
65	Mechanical and thermal properties of epoxy nanocomposites reinforced with amino-functionalized multi-walled carbon nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 492, 236-242.	2.6	133
66	Microstructure and Mechanical Properties of Friction Stir Welded 1.5 GPa Martensitic High-Strength Steel Plates. <i>Acta Metallurgica Sinica (English Letters)</i> , 0, , 1.	1.5	3
67	Friction Stir Processed High Purity Mg Coating on MgZnYNd Alloy with Improved Corrosion Resistance. <i>Journal of Materials Engineering and Performance</i> , 0, , 1.	1.2	0