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	Layered nanocomposites inspired by the structure and mechanical properties of nacre. Chemical Society Reviews, 2012, 41, 1111-1129.	18.7	454
2	Synergistic Toughening of Bioinspired Poly(vinyl alcohol)â€“Clayâ€“Nanofibrillar Cellulose Artificial Nacre. ACS Nano, 2014, 8, 2739-2745.	7.3	282
3	Ultrahigh Conductive Graphene Paper Based on Ballâ€Milling Exfoliated Graphene. Advanced Functional Materials, 2017, 27, 1700240.	7.8	241
4	Air-permeable, multifunctional, dual-energy-driven MXene-decorated polymeric textile-based wearable heaters with exceptional electrothermal and photothermal conversion performance. Journal of Materials Chemistry A, 2020, 8, 12526-12537.	5.2	203
5	A Strong Bioâ€Inspired Layered PNIPAMâ€“Clay Nanocomposite Hydrogel. Angewandte Chemie - International Edition, 2012, 51, 4676-4680.	7.2	198
6	Freezing-Tolerant, Highly Sensitive Strain and Pressure Sensors Assembled from Ionic Conductive Hydrogels with Dynamic Cross-Links. ACS Applied Materials & Interfaces, 2020, 12, 25334-25344.	4.0	189
7	Multifunctional MXene-Based Fireproof Electromagnetic Shielding Films with Exceptional Anisotropic Heat Dissipation Capability and Joule Heating Performance. ACS Applied Materials & Interfaces, 2020, 12, 27350-27360.	4.0	157
8	Co-based ternary bulk metallic glasses with ultrahigh strength and plasticity. Journal of Materials Research, 2011, 26, 2072-2079.	1.2	151
9	Ti₃C₂T_x MXene-Decorated Nanoporous Polyethylene Textile for Passive and Active Personal Precision Heating. ACS Nano, 2021, 15, 11396-11405.	7.3	141
10	Mechanical and thermal properties of epoxy nanocomposites reinforced with amino-functionalized multi-walled carbon nanotubes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 236-242.	2.6	133
11	Antibodyâ€Modified Reduced Graphene Oxide Films with Extreme Sensitivity to Circulating Tumor Cells. Advanced Materials, 2015, 27, 6848-6854.	11.1	126
12	Ultrathin Titanium Carbide (MXene) Films for Highâ€Temperature Thermal Camouflage. Advanced Functional Materials, 2021, 31, 2101381.	7.8	118
13	Advances in toughened polymer materials by structured rubber particles. Progress in Polymer Science, 2019, 98, 101160.	11.8	104
14	Tunable, Fast, Robust Hydrogel Actuators Based on Evaporation-Programmed Heterogeneous Structures. Chemistry of Materials, 2017, 29, 9793-9801.	3.2	98
15	Understanding the relationship of performance with nanofiller content in the biomimetic layered nanocomposites. Nanoscale, 2013, 5, 6356.	2.8	97
16	Robust Underwater Oilâ€Repellent Material Inspired by Columnar Nacre. Advanced Materials, 2016, 28, 8505-8510.	11.1	96
17	Conductingâ€Polymerâ€Based Materials for Electrochemical Energy Conversion and Storage. Advanced Materials, 2017, 29, 1703044.	11.1	88
18	A Bioinspired Ultratough Multifunctional Mica-Based Nanopaper with 3D Aramid Nanofiber Framework as an Electrical Insulating Material. ACS Nano, 2020, 14, 611-619.	7.3	85

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19	Bioinspired Hierarchical Aluminaâ€“Graphene Oxideâ€“Poly(vinyl alcohol) Artificial Nacre with Optimized Strength and Toughness. ACS Applied Materials & Interfaces, 2015, 7, 9281-9286.	4.0	82
20	Unprecedentedly Tough, Foldingâ€Endurance, and Multifunctional Grapheneâ€Based Artificial Nacre with Predesigned 3D Nanofiber Network as Matrix. Advanced Functional Materials, 2019, 29, 1903876.	7.8	77
21	Highly thermally conductive, ductile biomimetic boron nitride/aramid nanofiber composite film. Composites Science and Technology, 2020, 189, 108021.	3.8	73
22	Nanoasperity: Structure Origin of Nacre-Inspired Nanocomposites. ACS Nano, 2015, 9, 2167-2172.	7.3	68
23	A multi-model, large range and anti-freezing sensor based on a multi-crosslinked poly(vinyl alcohol) hydrogel for human-motion monitoring. Journal of Materials Chemistry B, 2020, 8, 11010-11020.	2.9	66
24	A strong, underwater superoleophobic PNIPAMâ€“clay nanocomposite hydrogel. Journal of Materials Chemistry A, 2016, 4, 12884-12888.	5.2	64
25	Hierarchical Layered Heterogeneous Graphene-poly(N-isopropylacrylamide)-clay Hydrogels with Superior Modulus, Strength, and Toughness. ACS Nano, 2016, 10, 413-420.	7.3	57
26	Flexible, thermally conductive layered composite films from massively exfoliated boron nitride nanosheets. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105498.	3.8	56
27	Compressibility and hardness of Co-based bulk metallic glass: A combined experimental and density functional theory study. Applied Physics Letters, 2011, 99, .	1.5	49
28	Superwettability Controlled Overflow. Advanced Materials, 2015, 27, 1745-1750.	11.1	49
29	Processing and properties of magnesium alloy micro-tubes for biodegradable vascular stents. Materials Science and Engineering C, 2018, 90, 504-513.	3.8	49
30	Ultrafast yet Controllable Dual-Responsive All-Carbon Actuators for Implementing Unusual Mechanical Movements. ACS Applied Materials & Interfaces, 2019, 11, 10218-10225.	4.0	47
31	Bioinspired Nacre-like Heparin/Layered Double Hydroxide Film with Superior Mechanical, Fire-Shielding, and UV-Blocking Properties. Industrial & Engineering Chemistry Research, 2014, 53, 3820-3826.	1.8	37
32	High-Loading Boron Nitride-Based Bio-Inspired Paper with Plastic-like Ductility and Metal-like Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 13156-13164.	4.0	36
33	Role of poly(ethylene glycol) grafted silica nanoparticle shape in toughened PLA-matrix nanocomposites. Composites Part B: Engineering, 2019, 168, 398-405.	5.9	35
34	Rapid Photothermal Responsive Conductive MXene Nanocomposite Hydrogels for Soft Manipulators and Sensitive Strain Sensors. Macromolecular Rapid Communications, 2021, 42, e2100499.	2.0	33
35	Effects of minor Cu addition on glass-forming ability and magnetic properties of FePCBCu alloys with high saturation magnetization. Philosophical Magazine, 2013, 93, 2182-2189.	0.7	32
36	Centimeter-scale-diameter Co-based bulk metallic glasses with fracture strength exceeding 5000 MPa. Science Bulletin, 2011, 56, 3972-3977.	1.7	31

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37	Mechanical and thermal properties of functionalized multiwalled carbon nanotubes and multiwalled carbon nanotubeâ€“polyurethane composites. Journal of Applied Polymer Science, 2009, 114, 3407-3413.	1.3	30
38	Small molecule hydrogen-bonded toughen nacre-inspired montmorillonite-konjac glucomannan-glycerin film with superior mechanical, transparent and UV-blocking properties. Composites Part B: Engineering, 2021, 204, 108492.	5.9	26
39	A Scalable Route to Highly Functionalized Multiâ€Walled Carbon Nanotubes on a Large Scale. Macromolecular Chemistry and Physics, 2008, 209, 846-853.	1.1	25
40	A mechanically robust all-solid-state supercapacitor based on a highly conductive double-network hydrogel electrolyte and Ti₃C₂T_x MXene electrode with anti-freezing property. Journal of Materials Chemistry A, 2021, 9, 25073-25085.	5.2	25
41	Wettingâ€Induced Climbing for Transferring Interfacially Assembled Largeâ€Area Ultrathin Pristine Graphene Film. Advanced Materials, 2019, 31, e1806742.	11.1	24
42	Concise route to styryl-modified multi-walled carbon nanotubes for polystyrene matrix and enhanced mechanical properties and thermal stability of composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 469-475.	2.6	23
43	Biocompatible Zr-Al-Fe bulk metallic glasses with large plasticity. Science China: Physics, Mechanics and Astronomy, 2012, 55, 1664-1669.	2.0	22
44	Bioinspired modified graphite film with superb mechanical and thermoconductive properties. Carbon, 2021, 181, 40-47.	5.4	21
45	A biodegradable magnesium alloy vascular stent structure: Design, optimisation and evaluation. Acta Biomaterialia, 2022, 142, 402-412.	4.1	20
46	Stable underwater superoleophobic and low adhesive polypyrrole nanowire mesh in highly corrosive environments. Soft Matter, 2015, 11, 4290-4294.	1.2	19
47	Processing aramid nanofiber/modified graphene oxide hydrogel into ultrastrong nanocomposite film. Applied Surface Science, 2021, 545, 149004.	3.1	19
48	The Role of Astaxanthin on Chronic Diseases. Crystals, 2021, 11, 505.	1.0	18
49	Endothelial progenitor cells as the target for cardiovascular disease prediction, personalized prevention, and treatments: progressing beyond the state-of-the-art. EPMA Journal, 2020, 11, 629-643.	3.3	17
50	Influence of the second phase on protein adsorption on biodegradable Mg alloysâ€™ surfaces: Comparative experimental and molecular dynamics simulation studies. Acta Biomaterialia, 2021, 129, 323-332.	4.1	16
51	Co-Solvent Exfoliation of Hexagonal Boron Nitride: Effect of Raw Bulk Boron Nitride Size and Co-Solvent Composition. Nanomaterials, 2020, 10, 1035.	1.9	15
52	A Constrained Assembly Strategy for High-Strength Natural Nanoclay Film. ACS Nano, 2022, 16, 6224-6232.	7.3	15
53	Functionalization of Multiwalled Carbon Nanotubes with Thermotropic Liquid-Crystalline Polymer and Thermal Properties of Composites. Industrial & Engineering Chemistry Research, 2011, 50, 891-897.	1.8	13
54	A biomimetic ion-crosslinked layered double hydroxide/alginate hybrid film. RSC Advances, 2017, 7, 32601-32606.	1.7	11

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55	Total-conversion, high-concentration exfoliation of two-dimensional boron nitride by paste-based sand milling strategy for massively producing high-performance nanocomposites. Composites Science and Technology, 2021, 201, 108545.	3.8	11
56	A scalable hydrogel processing route to high-strength, foldable clay-based artificial nacre. Composites Science and Technology, 2021, 201, 108543.	3.8	10
57	Preparation of Biodegradable Mg/Î²-TCP Biofunctional Gradient Materials by Friction Stir Processing and Pulse Reverse Current Electrodeposition. Acta Metallurgica Sinica (English Letters), 2020, 33, 103-114.	1.5	6
58	Ultrahigh concentration, single-layer of graphene paste as conductive additive for lithium-ion battery. Carbon Trends, 2021, 5, 100104.	1.4	6
59	Total conversion from graphite to few-layer graphene nanocomposite. Carbon Trends, 2021, 2, 100017.	1.4	5
60	Improved mechanical properties of in situ microfibrillar polypropylene/polyamide6 composites through constructing strong interfacial adhesion. Polymers for Advanced Technologies, 2021, 32, 3343-3357.	1.6	5
61	High-efficiency, self-grinding exfoliation of small graphene nanosheets from microcrystalline graphite driven by microbead milling as conductive additives. Science China Materials, 2022, 65, 2463-2471.	3.5	5
62	Ultrahigh concentration and stable dispersion of graphite nanosheet paste as composite nanofillers for thermal management and electromagnetic shielding. Nano Select, 2021, 2, 2159-2167.	1.9	4
63	Microstructure and Mechanical Properties of Friction Stir Welded 1.5 GPa Martensitic High-Strength Steel Plates. Acta Metallurgica Sinica (English Letters), 0, , 1.	1.5	3
64	Inside Cover: A Strong Bio-Inspired Layered PNIPAM-Clay Nanocomposite Hydrogel (Angew. Chem. Int.) Tj ETQq0 0 0 rgBT /Overlock 10 T	7.2	1
65	Atomic structure of <scp>Co_{92â^'x}B_xTa₈</scp> glassy alloys studied by ab initio molecular dynamics simulations. International Journal of Quantum Chemistry, 2020, 120, e26406.	1.0	1
66	Toward Largely Enhanced Toughness and Balanced Strength in PA1012/EPDM Blends via Synergistic Effect of Sacrificial Bonds and Network Structure. Macromolecular Materials and Engineering, 2021, 306, 2000813.	1.7	1
67	Friction Stir Processed High Purity Mg Coating on MgZnYNd Alloy with Improved Corrosion Resistance. Journal of Materials Engineering and Performance, 0, , 1.	1.2	0