

Zhiqiang Su

List of Publications by Year in descending order

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100
papers

7,344
citations

38742

50
h-index

54911

84
g-index

100
all docs

100
docs citations

100
times ranked

9890
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. <i>Chemical Society Reviews</i> , 2017, 46, 4661-4708.	38.1	670
2	Recent advances in the synthesis and applications of graphene-polymer nanocomposites. <i>Polymer Chemistry</i> , 2015, 6, 6107-6124.	3.9	237
3	Synthesis and sensor applications of MoS ₂ -based nanocomposites. <i>Nanoscale</i> , 2015, 7, 18364-18378.	5.6	202
4	Electrospinning graphene quantum dots into a nanofibrous membrane for dual-purpose fluorescent and electrochemical biosensors. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2487-2496.	5.8	195
5	When biomolecules meet graphene: from molecular level interactions to material design and applications. <i>Nanoscale</i> , 2016, 8, 19491-19509.	5.6	194
6	Fabrication technologies and sensing applications of graphene-based composite films: Advances and challenges. <i>Biosensors and Bioelectronics</i> , 2017, 89, 72-84.	10.1	192
7	Biomedical and bioactive engineered nanomaterials for targeted tumor photothermal therapy: A review. <i>Materials Science and Engineering C</i> , 2019, 104, 109891.	7.3	179
8	Electrospinning design of functional nanostructures for biosensor applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1699-1711.	5.8	156
9	Electrospinning: a facile technique for fabricating polymeric nanofibers doped with carbon nanotubes and metallic nanoparticles for sensor applications. <i>RSC Advances</i> , 2014, 4, 52598-52610.	3.6	154
10	Technical synthesis and biomedical applications of graphene quantum dots. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4811-4826.	5.8	151
11	Protein-mimetic peptide nanofibers: Motif design, self-assembly synthesis, and sequence-specific biomedical applications. <i>Progress in Polymer Science</i> , 2018, 80, 94-124.	24.7	145
12	Fabrication of hollow CuO/PANI hybrid nanofibers for non-enzymatic electrochemical detection of H ₂ O ₂ and glucose. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 370-376.	7.8	138
13	Nanoscale Graphene Doped with Highly Dispersed Silver Nanoparticles: Quick Synthesis, Facile Fabrication of 3D Membrane-Modified Electrode, and Super Performance for Electrochemical Sensing. <i>Advanced Functional Materials</i> , 2016, 26, 2122-2134.	14.9	135
14	Motif-Designed Peptide Nanofibers Decorated with Graphene Quantum Dots for Simultaneous Targeting and Imaging of Tumor Cells. <i>Advanced Functional Materials</i> , 2015, 25, 5472-5478.	14.9	128
15	2D transition metal dichalcogenide nanosheets for photo/thermo-based tumor imaging and therapy. <i>Nanoscale Horizons</i> , 2018, 3, 74-89.	8.0	126
16	Tunable Mechanoresponsive Self-Assembly of an Amide-Linked Dyad with Dual Sensitivity of Photochromism and Mechanochromism. <i>Advanced Functional Materials</i> , 2017, 27, 1701210.	14.9	125
17	Hierarchical nanomaterials <i>via</i> biomolecular self-assembly and bioinspiration for energy and environmental applications. <i>Nanoscale</i> , 2019, 11, 4147-4182.	5.6	122
18	Electrostatic Assembly of Peptide Nanofiber-Biomimetic Silver Nanowires onto Graphene for Electrochemical Sensors. <i>ACS Macro Letters</i> , 2014, 3, 529-533.	4.8	117

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19	Recent advances in the fabrication and structure-specific applications of graphene-based inorganic hybrid membranes. <i>Nanoscale</i> , 2015, 7, 5080-5093.	5.6	116
20	Self-assembled peptide nanofibers on graphene oxide as a novel nanohybrid for biomimetic mineralization of hydroxyapatite. <i>Carbon</i> , 2015, 89, 20-30.	10.3	116
21	Electrospun Doping of Carbon Nanotubes and Platinum Nanoparticles into the β -Phase Polyvinylidene Difluoride Nanofibrous Membrane for Biosensor and Catalysis Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7563-7571.	8.0	112
22	One-pot green synthesis, characterizations, and biosensor application of self-assembled reduced graphene oxide-gold nanoparticle hybrid membranes. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6525.	5.8	111
23	The design and biomedical applications of self-assembled two-dimensional organic biomaterials. <i>Chemical Society Reviews</i> , 2019, 48, 5564-5595.	38.1	110
24	Hydrothermal synthesis of zinc oxide-reduced graphene oxide nanocomposites for an electrochemical hydrazine sensor. <i>RSC Advances</i> , 2015, 5, 22935-22942.	3.6	109
25	Fabrication, characterization and sensor application of electrospun polyurethane nanofibers filled with carbon nanotubes and silver nanoparticles. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2415.	5.8	107
26	MoS ₂ nanosheets decorated with gold nanoparticles for rechargeable Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14562-14566.	10.3	107
27	Supramolecular Self-Assembly Bioinspired Synthesis of Luminescent Gold Nanocluster-Embedded Peptide Nanofibers for Temperature Sensing and Cellular Imaging. <i>Bioconjugate Chemistry</i> , 2017, 28, 2224-2229.	3.6	101
28	Reduced graphene oxide (rGO) hybridized hydrogel as a near-infrared (NIR)/pH dual-responsive platform for combined chemo-photothermal therapy. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 160-170.	9.4	99
29	One-Step Synthesis of Large-Scale Graphene Film Doped with Gold Nanoparticles at Liquid-Air Interface for Electrochemistry and Raman Detection Applications. <i>Langmuir</i> , 2014, 30, 8980-8989.	3.5	97
30	Interactive Oxidation-Reduction Reaction for the in Situ Synthesis of Graphene-Phenol Formaldehyde Composites with Enhanced Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4254-4263.	8.0	95
31	A facile fabrication of large-scale reduced graphene oxide-silver nanoparticle hybrid film as a highly active surface-enhanced Raman scattering substrate. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4126-4133.	5.5	91
32	Enzyme-Triggered Disassembly of Perylene Monoimide-based Nanoclusters for Activatable and Deep Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14014-14018.	13.8	89
33	Graphene Foams for Electromagnetic Interference Shielding: A Review. <i>ACS Applied Nano Materials</i> , 2020, 3, 6140-6155.	5.0	87
34	Crystallization behavior and morphological development of isotactic polypropylene with an aryl amide derivative as β -form nucleating agent. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1725-1733.	2.1	85
35	Cuprous oxide microspheres on graphene nanosheets: an enhanced material for non-enzymatic electrochemical detection of H ₂ O ₂ and glucose. <i>RSC Advances</i> , 2015, 5, 35338-35345.	3.6	79
36	Fabrication of Multiwalled Carbon Nanotube/Polypropylene Conductive Fibrous Membranes by Melt Electrospinning. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 2308-2317.	3.7	75

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37	Graphene film doped with silver nanoparticles: self-assembly formation, structural characterizations, antibacterial ability, and biocompatibility. <i>Biomaterials Science</i> , 2015, 3, 852-860.	5.4	75
38	Alternate layer-by-layer assembly of graphene oxide nanosheets and fibrinogen nanofibers on a silicon substrate for a biomimetic three-dimensional hydroxyapatite scaffold. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7360-7368.	5.8	72
39	Thermo-sensitive graphene oxide-polymer nanoparticle hybrids: synthesis, characterization, biocompatibility and drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1362.	5.8	71
40	Recent advances in the synthesis and energy applications of TiO ₂ -graphene nanohybrids. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 252-269.	6.2	71
41	Recent advances in the fabrication, functionalization, and bioapplications of peptide hydrogels. <i>Soft Matter</i> , 2020, 16, 10029-10045.	2.7	71
42	Biomimetic graphene-FePt nanohybrids with high solubility, ferromagnetism, fluorescence, and enhanced electrocatalytic activity. <i>Journal of Materials Chemistry</i> , 2012, 22, 17190.	6.7	66
43	Biomimetic Ultralight, Highly Porous, Shape-Adjustable, and Biocompatible 3D Graphene Minerals via Incorporation of Self-Assembled Peptide Nanosheets. <i>Advanced Functional Materials</i> , 2018, 28, 1801056.	14.9	65
44	Sequence-Designed Peptide Nanofibers Bridged Conjugation of Graphene Quantum Dots with Graphene Oxide for High Performance Electrochemical Hydrogen Peroxide Biosensor. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600895.	3.7	64
45	Design, fabrication, and biomedical applications of bioinspired peptide-inorganic nanomaterial hybrids. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1130-1142.	5.8	59
46	Gold nanocluster embedded bovine serum albumin nanofibers-graphene hybrid membranes for the efficient detection and separation of mercury ion. <i>Chemical Engineering Journal</i> , 2018, 335, 176-184.	12.7	59
47	Developing Graphene-Based Nanohybrids for Electrochemical Sensing. <i>Chemical Record</i> , 2019, 19, 534-549.	5.8	58
48	Synthesis and biomedical applications of fluorescent nanogels. <i>Polymer Chemistry</i> , 2016, 7, 5749-5762.	3.9	55
49	Nanoporous Carbon Nanofibers Decorated with Platinum Nanoparticles for Non-Enzymatic Electrochemical Sensing of H ₂ O ₂ . <i>Nanomaterials</i> , 2015, 5, 1891-1905.	4.1	53
50	Fast preparation of MoS ₂ nanoflowers decorated with platinum nanoparticles for electrochemical detection of hydrogen peroxide. <i>RSC Advances</i> , 2016, 6, 52739-52745.	3.6	53
51	Exposed high-energy facets in ultradispersed sub-10 nm SnO ₂ nanocrystals anchored on graphene for pseudocapacitive sodium storage and high-performance quasi-solid-state sodium-ion capacitors. <i>NPG Asia Materials</i> , 2018, 10, 429-440.	7.9	50
52	Fabrication of graphene-biomacromolecule hybrid materials for tissue engineering application. <i>Polymer Chemistry</i> , 2017, 8, 4309-4321.	3.9	49
53	Graphene-based hybrid aerogels for energy and environmental applications. <i>Chemical Engineering Journal</i> , 2021, 420, 129700.	12.7	49
54	Three-dimensional porous reduced graphene oxide decorated with MoS ₂ quantum dots for electrochemical determination of hydrogen peroxide. <i>Materials Today Chemistry</i> , 2018, 7, 76-83.	3.5	48

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55	Electrospinning Nanoparticles-Based Materials Interfaces for Sensor Applications. <i>Sensors</i> , 2019, 19, 3977.	3.8	48
56	Self-assembling peptide-based hydrogels: Fabrication, properties, and applications. <i>Biotechnology Advances</i> , 2021, 49, 107752.	11.7	48
57	Crystallization-Induced Emission Enhancement of a Deep-Blue Luminescence Material with Tunable Mechano- and Thermo-chromism. <i>Small</i> , 2018, 14, e1802524.	10.0	46
58	Enzyme-based hybrid nanoflowers with high performances for biocatalytic, biomedical, and environmental applications. <i>Coordination Chemistry Reviews</i> , 2020, 416, 213342.	18.8	46
59	Surface-bioengineered Gold Nanoparticles for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2018, 25, 1920-1944.	2.4	44
60	<i>In Situ</i> Formation of Nanohybrid Shish-Kebabs during Electrospinning for the Creation of Hierarchical Shish-Kebab Structures. <i>Macromolecules</i> , 2016, 49, 3550-3558.	4.8	43
61	Recent Advances in the Cancer Bioimaging with Graphene Quantum Dots. <i>Current Medicinal Chemistry</i> , 2018, 25, 2876-2893.	2.4	43
62	Biomimetic 3D hydroxyapatite architectures with interconnected pores based on electrospun biaxially orientated PCL nanofibers. <i>RSC Advances</i> , 2014, 4, 14833-14839.	3.6	41
63	Study of the crystallization behaviors of isotactic polypropylene with sodium benzoate as a specific versatile nucleating agent. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1183-1192.	2.1	39
64	Highly fluorescent carbon dots as novel theranostic agents for biomedical applications. <i>Nanoscale</i> , 2021, 13, 17236-17253.	5.6	38
65	Synthesis, characterization and drug release application of carbon nanotube-polymer nanosphere composites. <i>RSC Advances</i> , 2013, 3, 9304.	3.6	36
66	Fabrication of polypyrrole nanoplates decorated with silver and gold nanoparticles for sensor applications. <i>RSC Advances</i> , 2015, 5, 69745-69752.	3.6	36
67	Coral-Like MoS ₂ /Cu ₂ O Porous Nanohybrid with Dual-Electrocatalyst Performances. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600658.	3.7	34
68	Electrochemical sensor based on novel two-dimensional nanohybrids: MoS ₂ nanosheets conjugated with organic copper nanowires for simultaneous detection of hydrogen peroxide and ascorbic acid. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 112-119.	6.0	33
69	Fabrication of 3D MoS ₂ -TiO ₂ @PAN electro-spun membrane for efficient and recyclable photocatalytic degradation of organic dyes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 269, 115179.	3.5	30
70	Supramolecular peptide nano-assemblies for cancer diagnosis and therapy: from molecular design to material synthesis and function-specific applications. <i>Journal of Nanobiotechnology</i> , 2021, 19, 253.	9.1	30
71	Recent Advances in the Construction of Flexible Sensors for Biomedical Applications. <i>Biotechnology Journal</i> , 2020, 15, e2000094.	3.5	27
72	Biomolecule conjugated metal nanoclusters: bio-inspiration strategies, targeted therapeutics, and diagnostics. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4176-4194.	5.8	26

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73	Enzyme-triggered Disassembly of Perylene Monoimide-based Nanoclusters for Activatable and Deep Photodynamic Therapy. <i>Angewandte Chemie</i> , 2020, 132, 14118-14122.	2.0	24
74	Removing Metal Ions from Water with Graphene-Bovine Serum Albumin Hybrid Membrane. <i>Nanomaterials</i> , 2019, 9, 276.	4.1	23
75	Green synthesis and fabrication of an electrochemical and colorimetric sensor based on self-assembled peptide-Au nanofibril architecture. <i>Arabian Journal of Chemistry</i> , 2020, 13, 1406-1414.	4.9	23
76	Self-assembled thermosensitive luminescent nanoparticles with peptide-Au conjugates for cellular imaging and drug delivery. <i>Chinese Chemical Letters</i> , 2020, 31, 859-864.	9.0	21
77	The future of freshwater access: functional material-based nano-membranes for desalination. <i>Materials Today Energy</i> , 2021, 22, 100856.	4.7	20
78	Reduced Graphene Oxide-Based Double Network Polymeric Hydrogels for Pressure and Temperature Sensing. <i>Sensors</i> , 2018, 18, 3162.	3.8	19
79	Mechanically controlled FRET to achieve high-contrast fluorescence switching. <i>Science China Chemistry</i> , 2018, 61, 1587-1593.	8.2	19
80	Polyurethane-Supported Graphene Oxide Foam Functionalized with Carbon Dots and TiO ₂ Particles for Photocatalytic Degradation of Dyes. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 293.	2.5	19
81	Electrostatic Assembly of Platinum Nanoparticles along Electrospun Polymeric Nanofibers for High Performance Electrochemical Sensors. <i>Nanomaterials</i> , 2017, 7, 236.	4.1	18
82	Synthesis of water-soluble dye-cored poly(amidoamine) dendrimers for long-term live cell imaging. <i>Science China Materials</i> , 2018, 61, 1475-1483.	6.3	18
83	Design of metal-organic framework composites in anti-cancer therapies. <i>Nanoscale</i> , 2021, 13, 12102-12118.	5.6	18
84	When MoS ₂ meets TiO ₂ : facile synthesis strategies, hybrid nanostructures, synergistic properties, and photocatalytic applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8466-8482.	5.5	18
85	Influence of Network Structure on the Crystallization Behavior in Chemically Crosslinked Hydrogels. <i>Polymers</i> , 2018, 10, 970.	4.5	17
86	Enzyme-mediated reversible deactivation radical polymerization for functional materials: principles, synthesis, and applications. <i>Polymer Chemistry</i> , 2020, 11, 1673-1690.	3.9	17
87	Biological nanoscale fluorescent probes: From structure and performance to bioimaging. <i>Reviews in Analytical Chemistry</i> , 2020, 39, 209-221.	3.2	17
88	Isothermal and nonisothermal crystallization kinetics of novel biobased poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (suc and Calorimetry, 2017, 129, 801-808.	3.6	16
89	Optimal hydrothermal synthesis, characterization, and sensor application of sulfur-doped β -MnOOH microrods. <i>RSC Advances</i> , 2015, 5, 80719-80727.	3.6	15
90	Advanced 3D nanohybrid foam based on graphene oxide: Facile fabrication strategy, interfacial synergetic mechanism, and excellent photocatalytic performance. <i>Science China Materials</i> , 2019, 62, 1888-1897.	6.3	15

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91	Fabrication of Co ₃ O ₄ /NiCo ₂ O ₄ Nanocomposite for Detection of H ₂ O ₂ and Dopamine. Biosensors, 2021, 11, 452.	4.7	15
92	Self-Assembly of Gold Nanoparticles on Gold Core-Induced Polypyrrole Nanohybrids for Electrochemical Sensor of Dopamine. Nano, 2015, 10, 1550115.	1.0	11
93	One-Pot, In-Situ Synthesis of 8-Armed Poly(Ethylene Glycol)-Coated Ag Nanoclusters as a Fluorescent Sensor for Selective Detection of Cu ²⁺ . Biosensors, 2020, 10, 131.	4.7	11
94	Stimulus-responsive nanomaterials under physical regulation for biomedical applications. Journal of Materials Chemistry B, 2021, 9, 9642-9657.	5.8	10
95	Investigation of the complexation of proteins with neutral water soluble polymers through model analysis method. Polymer, 2011, 52, 1084-1091.	3.8	9
96	Pathway mediated microstructures and phase morphologies of asymmetric double crystalline co-oligomers. RSC Advances, 2014, 4, 7900.	3.6	9
97	Adamantane-Modified Graphene Oxide for Cyanate Ester Resin Composites with Improved Properties. Applied Sciences (Switzerland), 2019, 9, 881.	2.5	8
98	Motif-Tailoring Enriches the Biofunctions of Self-assembled Peptide Superstructures. Current Organic Chemistry, 2018, 22, 1947-1948.	1.6	3
99	MoS ₂ QDs/8-Armed Poly(Ethylene Glycol) Fluorescence Sensor for Three Nitrotoluenes (TNT) Detection. Biosensors, 2021, 11, 475.	4.7	2
100	Design of functional peptide nanofibers based on amyloid motifs. , 2020, , 163-183.		1