

# Zuo-wan Zhou

## List of Publications by Year in descending order

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101  
papers

4,648  
citations

136950

32  
h-index

106344

65  
g-index

103  
all docs

103  
docs citations

103  
times ranked

4805  
citing authors

#	ARTICLE	IF	CITATIONS
1	Super-stretchable and adhesive cellulose Nanofiber-reinforced conductive nanocomposite hydrogel for wearable Motion-monitoring sensor. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 215-226.	9.4	39
2	Excited-state geometry relaxation of pyrene-modified cellulose nanocrystals under UV-light excitation for detecting Fe <sup>3+</sup> . <i>Nanotechnology Reviews</i> , 2022, 11, 2526-2534.	5.8	2
3	Constructing cellulose nanocrystal/graphene nanoplatelet networks in phase change materials toward intelligent thermal management. <i>Carbohydrate Polymers</i> , 2021, 253, 117290.	10.2	43
4	An approach to effectively improve the interfacial bonding of nano-perfused composites by <i>in situ</i> growth of CNTs. <i>Nanotechnology Reviews</i> , 2021, 10, 282-291.	5.8	5
5	Improved impedance matching by multi-componential metal-hybridized rGO toward high performance of microwave absorption. <i>Nanotechnology Reviews</i> , 2021, 10, 1-9.	5.8	23
6	Polypyrrole/Helical Carbon Nanotube Composite with Marvelous Photothermoelectric Performance for Longevous and Intelligent Internet of Things Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8808-8822.	8.0	29
7	Defect-Enhanced Electromagnetic Wave Absorption Property of Hierarchical Graphite Capsules@Helical Carbon Nanotube Hybrid Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28710-28720.	8.0	31
8	Effect of storage time and temperature on dissolved state of cellulose in TBAH-based solvents and mechanical property of regenerated films. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 466-478.	3.3	5
9	Controllable modification of helical carbon nanotubes for high-performance microwave absorption. <i>Nanotechnology Reviews</i> , 2021, 10, 671-679.	5.8	10
10	High Sensitivity of Ammonia Sensor through 2D Black Phosphorus/Polyaniline Nanocomposite. <i>Nanomaterials</i> , 2021, 11, 3026.	4.1	11
11	Ultrastrong Carbon Nanotubes/Graphene Papers via Multiple $\pi$ - $\pi$ Cross-Linking. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47811-47819.	8.0	21
12	An eco-friendly approach to preparing cellulose nanocrystals by precisely controlling the dissolution of natural cellulose in TBAH/H <sub>2</sub> O solvent. <i>Cellulose</i> , 2020, 27, 9311-9324.	4.9	8
13	Ultrafast physical bacterial inactivation and photocatalytic self-cleaning of ZnO nanoarrays for rapid and sustainable bactericidal applications. <i>Science of the Total Environment</i> , 2020, 738, 139714.	8.0	38
14	Multiaxial electrospun generation of hollow graphene aerogel spheres for broadband high-performance microwave absorption. <i>Nano Research</i> , 2020, 13, 477-484.	10.4	135
15	Excellent antibacterial activities in the dark of ZnO nanoflakes with oxygen vacancies on exposed {211,11,0} facets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11511-11514.	10.3	24
16	Cellulose hydrogel skeleton by extrusion 3D printing of solution. <i>Nanotechnology Reviews</i> , 2020, 9, 345-353.	5.8	35
17	Superior Fe <sub>x</sub> N electrocatalyst derived from 1,1'-diacetylferrocene for oxygen reduction reaction in alkaline and acidic media. <i>Nanotechnology Reviews</i> , 2020, 9, 843-852.	5.8	8
18	Progress in construction of bio-inspired physico-antimicrobial surfaces. <i>Nanotechnology Reviews</i> , 2020, 9, 1562-1575.	5.8	23

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19	Naturally or artificially constructed nanocellulose architectures for epoxy composites: A review. <i>Nanotechnology Reviews</i> , 2020, 9, 1643-1659.	5.8	19
20	A facile method to graphene oxide/polyaniline nanocomposite with sandwich-like structure for enhanced electrical properties of humidity detection. <i>Analytica Chimica Acta</i> , 2019, 1080, 178-188.	5.4	29
21	Elucidation of the Relationship between Intrinsic Viscosity and Molecular Weight of Cellulose Dissolved in Tetra-N-Butyl Ammonium Hydroxide/Dimethyl Sulfoxide. <i>Polymers</i> , 2019, 11, 1605.	4.5	10
22	Construction of highly aligned graphene-based aerogels and their epoxy composites towards high thermal conductivity. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11783-11789.	5.5	33
23	<i>Nepenthes</i> -inspired multifunctional nanoblades with mechanical bactericidal, self-cleaning and insect anti-adhesive characteristics. <i>RSC Advances</i> , 2019, 9, 27904-27910.	3.6	11
24	TBAH/Urea/H <sub>2</sub> O solvent for room temperature wet-spinning of cellulose and optimization of drawing process. <i>Cellulose</i> , 2019, 26, 6959-6977.	4.9	16
25	Preparation, characterization and antibacterial properties of cellulose membrane containing N-halamine. <i>Cellulose</i> , 2019, 26, 5621-5633.	4.9	25
26	Ultra-robust and high-toughness graphene oxide papers via synergistic strengthening by addition of carbon-nanotubes and copper ions. <i>Carbon</i> , 2019, 147, 490-500.	10.3	21
27	Interface Modulating CNTs@PANi Hybrids by Controlled Unzipping of the Walls of CNTs To Achieve Tunable High-Performance Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12142-12153.	8.0	299
28	High-Temperature Oxidation-Resistant ZrN <sub>0.4</sub> /B <sub>0.6</sub> /SiC Nanohybrid for Enhanced Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15869-15880.	8.0	150
29	Hybridization-Induced Polarization of Graphene Sheets by Intercalation-Polymerized Polyaniline toward High Performance of Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17100-17107.	8.0	64
30	Wheat straw-derived magnetic carbon foams: In-situ preparation and tunable high-performance microwave absorption. <i>Nano Research</i> , 2019, 12, 1423-1429.	10.4	99
31	Polyethylenimine grafted H <sub>2</sub> O <sub>2</sub> -oxidized cellulose membrane as a novel biosorbent for Cr(VI) adsorption and detoxification from aqueous solution. <i>Cellulose</i> , 2019, 26, 3437-3453.	4.9	29
32	Electric-field assisted growth and mechanical bactericidal performance of ZnO nanoarrays with gradient morphologies. <i>Nanotechnology Reviews</i> , 2019, 8, 315-326.	5.8	6
33	Electrospun Fibrous Membranes with Dual-Scaled Porous Structure: Super Hydrophobicity, Super Lipophilicity, Excellent Water Adhesion, and Anti-Icing for Highly Efficient Oil Adsorption/Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5073-5083.	8.0	111
34	Recent advances in surface-functionalised photosensitive antibacterials with synergistic effects. <i>Biosurface and Biotribology</i> , 2019, 5, 97-103.	1.5	2
35	Cellulose films from the aqueous DMSO/TBAH-system. <i>Cellulose</i> , 2018, 25, 1975-1986.	4.9	15
36	Magnetic Activated Carbon for Efficient Removal of Pb(II) from Aqueous Solution. <i>Environmental Engineering Science</i> , 2018, 35, 111-120.	1.6	9

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37	Generation of graphene-based aerogel microspheres for broadband and tunable high-performance microwave absorption by electrospinning-freeze drying process. <i>Nano Research</i> , 2018, 11, 2847-2861.	10.4	109
38	Graphene-based microwave absorbing composites: A review and prospective. <i>Composites Part B: Engineering</i> , 2018, 137, 260-277.	12.0	574
39	High-purity helical carbon nanotubes by trace-water-assisted chemical vapor deposition: Large-scale synthesis and growth mechanism. <i>Nano Research</i> , 2018, 11, 3327-3339.	10.4	24
40	Remarkable Improvement in the Mechanical Properties of Epoxy Composites Achieved by a Small Amount of Modified Helical Carbon Nanotubes. <i>Polymers</i> , 2018, 10, 1103.	4.5	19
41	Intercalating Hybrids of Sandwich-like Fe <sub>3</sub> O <sub>4</sub> @ Graphite: Synthesis and Their Synergistic Enhancement of Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16744-16753.	6.7	63
42	Bio-inspired functionalization of microcrystalline cellulose aerogel with high adsorption performance toward dyes. <i>Carbohydrate Polymers</i> , 2018, 198, 546-555.	10.2	100
43	Intercalation Polymerization Approach for Preparing Graphene/Polymer Composites. <i>Polymers</i> , 2018, 10, 61.	4.5	28
44	Carbonized Design of Hierarchical Porous Carbon/Fe <sub>3</sub> O <sub>4</sub> @Fe Derived from Loofah Sponge to Achieve Tunable High-Performance Microwave Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11801-11810.	6.7	256
45	Remarkably Improvement in Antibacterial Activity of Carbon Nanotubes by Hybridizing with Silver Nanodots. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5704-5710.	0.9	12
46	Preparation of hybrid graphene oxide/nano-silica nanofillers and their application in poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	4.6	14
47	Green synthesis of hybrid graphene oxide/microcrystalline cellulose aerogels and their use as superabsorbents. <i>Journal of Hazardous Materials</i> , 2017, 335, 28-38.	12.4	156
48	Synergistic Enhancement of Microwave Absorption Using Hybridized Polyaniline@helical CNTs with Dual Chirality. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15711-15718.	8.0	173
49	Blend-electrospun poly(vinylidene fluoride)/polydopamine membranes: self-polymerization of dopamine and the excellent adsorption/separation abilities. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14430-14443.	10.3	115
50	Electrically/infrared actuated shape memory composites based on a bio-based polyester blend and graphene nanoplatelets and their excellent self-driven ability. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4145-4158.	5.5	63
51	Room temperature dissolution of cellulose in tetra-butylammonium hydroxide aqueous solvent through adjustment of solvent amphiphilicity. <i>Cellulose</i> , 2017, 24, 49-59.	4.9	34
52	Degradation of lignin in ionic liquid with HCl as catalyst. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 809-814.	2.3	21
53	Heterostructured g-C <sub>3</sub> N <sub>4</sub> /Ag/TiO <sub>2</sub> nanocomposites for enhancing the photoelectric conversion efficiency of spiro-OMeTAD-based solid-state dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 102444-102452.	3.6	25
54	All-cellulose composites with ultra-high mechanical properties prepared through using straw cellulose fiber. <i>RSC Advances</i> , 2016, 6, 93428-93435.	3.6	10

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55	Preparation and photocatalytic activities of 3D flower-like CuO nanostructures. Journal of Semiconductors, 2016, 37, 083002.	3.7	6
56	Effects of bath pH on structural and electrochemical performance of Cu <sub>2</sub> O. Ionics, 2016, 22, 2213-2223.	2.4	9
57	Largely enhanced effective porosity of uniaxial stretched polypropylene membrane achieved by pore-forming agent. Journal of Polymer Research, 2016, 23, 1.	2.4	4
58	Design of porous C@Fe <sub>3</sub> O <sub>4</sub> hybrid nanotubes with excellent microwave absorption. Physical Chemistry Chemical Physics, 2016, 18, 2510-2516.	2.8	111
59	Growth of Fe <sub>3</sub> O <sub>4</sub> nanosheet arrays on graphene by a mussel-inspired polydopamine adhesive for remarkable enhancement in electromagnetic absorptions. RSC Advances, 2015, 5, 101121-101126.	3.6	41
60	Greatly enhanced porosity of stretched polypropylene/graphene oxide composite membrane achieved by adding pore-forming agent. RSC Advances, 2015, 5, 20663-20673.	3.6	11
61	Improved dissolution of cellulose in quaternary ammonium hydroxide by adjusting temperature. RSC Advances, 2015, 5, 39080-39083.	3.6	22
62	High hydrophilicity and excellent adsorption ability of a stretched polypropylene/graphene oxide composite membrane achieved by plasma assisted surface modification. RSC Advances, 2015, 5, 71240-71252.	3.6	7
63	Remarkable improvement in microwave absorption by cloaking a micro-scaled tetrapod hollow with helical carbon nanofibers. Physical Chemistry Chemical Physics, 2015, 17, 3024-3031.	2.8	54
64	Super toughened immiscible polycarbonate/poly(L-lactide) blend achieved by simultaneous addition of compatibilizer and carbon nanotubes. RSC Advances, 2014, 4, 59194-59203.	3.6	21
65	Carbon nanotubes induced poly(vinylidene fluoride) crystallization from a miscible poly(vinylidene fluoride)/poly(L-lactide) blend. Journal of Applied Polymer Science, 2014, 114, 2114-2121.	2.1	14
66	The effects on mechanical properties and crystallization of poly(L-lactide) reinforced by cellulosic fibers with different scales. Journal of Applied Polymer Science, 2014, 131, .	2.6	5
67	Combined effect of compatibilizer and carbon nanotubes on the morphology and electrical conductivity of PP/PS blend. Polymers for Advanced Technologies, 2014, 25, 624-630.	3.2	13
68	Hydrothermal synthesis of oriented ZnO nanorod/nanosheets hierarchical architecture on zinc foil as flexible photoanodes for dye-sensitized solar cells. Ceramics International, 2014, 40, 11663-11670.	4.8	37
69	High yield synthesis of helical carbon nanotubes catalyzed by porous precursor with terrace morphology. Diamond and Related Materials, 2014, 50, 123-128.	3.9	3
70	One-step synthesis of graphene/polyaniline hybrids by in situ intercalation polymerization and their electromagnetic properties. Nanoscale, 2014, 6, 8140-8148.	5.6	221
71	Tuning the interaction of an immiscible poly(L-lactide)/poly(vinylidene fluoride) blend by adding poly(methyl methacrylate) via a competition mechanism and the resultant mechanical properties. RSC Advances, 2014, 4, 40569-40579.	3.6	13
72	A Facile Approach to Construct Multiple Structured ZnO Crystals by Trisodium Citrate-Assisted Hydrothermal Growth Toward Performance Enhancement of Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16401-16407.	3.1	31

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73	Controllable preparation of Ni nanoparticles for catalysis of coiled carbon fibers growth. <i>Nanoscale Research Letters</i> , 2014, 9, 370.	5.7	10
74	Trapping carbon nanotubes at the interface of a polymer blend through adding graphene oxide: a facile strategy to reduce electrical resistivity. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7808.	5.5	36
75	Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. <i>IEEE Sensors Journal</i> , 2013, 13, 777-782.	4.7	92
76	Hierarchical ZnO architectures consisting of nanorods and nanosheets prepared via a solution route for photovoltaic enhancement in dye-sensitized solar cells. <i>RSC Advances</i> , 2013, 3, 2910.	3.6	50
77	Unique pressure-crystallized structures in ternary bisphenol-A polycarbonate/dioctyl phthalate/fullerene C60 composites. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1362-1373.	2.6	6
78	Overview in the principles of smart mobile devices. , 2012, , .		0
79	Spherulitic Growth of Poly (Ether Ether Ketone) Crystallized at High Pressure. <i>Journal of Macromolecular Science - Physics</i> , 2012, 51, 510-524.	1.0	5
80	A simple strategy to achieve very low percolation threshold via the selective distribution of carbon nanotubes at the interface of polymer blends. <i>Journal of Materials Chemistry</i> , 2012, 22, 22398.	6.7	141
81	Synthesis and mechanism of polyaniline nanotubes with rectangular cross section via <i>in situ</i> polymerization. <i>Polymers for Advanced Technologies</i> , 2012, 23, 796-802.	3.2	17
82	Theoretical analysis of the conversion from electrical into thermal energy in piezoelectric-conductive damping composites. <i>Journal of Modern Transportation</i> , 2011, 19, 143-146.	2.5	3
83	Photocatalytic activity and stability of ZnO particles with different morphologies. <i>Rare Metals</i> , 2011, 30, 183-187.	7.1	19
84	Evaluation of photocatalytic production of active oxygen and decomposition of phenol in ZnO suspensions. <i>Rare Metals</i> , 2011, 30, 188-191.	7.1	16
85	Study on mechanical properties and phase morphology of polypropylene/polyolefin elastomer/magnesium hydroxide ternary composites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 657-663.	3.2	21
86	Crystallization, rheological, and mechanical properties of PLLA/PEG blend with multiwalled carbon nanotubes. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1959-1970.	3.2	29
87	Largely enhanced ductility of immiscible high density polyethylene/polyamide 6 blends via nano-bridge effect of functionalized multiwalled carbon nanotubes. <i>Polymers for Advanced Technologies</i> , 2011, 22, 2533-2542.	3.2	35
88	Theoretical analysis of fracture of tetra-needle-like ZnO whisker in polymer composite. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2767-2771.	2.6	3
89	Morphology, rheological, crystallization behavior, and mechanical properties of poly(L-lactide)/ethylene-co-vinyl acetate blends with different VA contents. <i>Journal of Applied Polymer Science</i> , 2011, 121, 2688-2698.	2.6	27
90	Effect of Ni <sup>2+</sup> as a codopant on the structure, morphology, and conductivity of nanostructured polyaniline. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3439-3445.	2.6	13

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91	Transformation of polypropylene during tensile deformation: effect of crystalline morphology. <i>Colloid and Polymer Science</i> , 2010, 288, 1539-1549.	2.1	33
92	Crystallization, mechanical and thermal properties of sorbitol derivatives nucleated polypropylene/calcium carbonate composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2010, 28, 457-466.	3.8	11
93	Crystallization and melting behaviors of maleic anhydride grafted poly(propylene) nucleated by an aryl amide derivative. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 563-570.	3.6	15
94	Annealing induced microstructure and fracture resistance changes in isotactic polypropylene/ethylene-octene copolymer blends with and without phase nucleating agent. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2108-2120.	2.1	27
95	A comparative study of polypropylene nucleated by individual and compounding nucleating agents. I. Melting and isothermal crystallization. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1624-1637.	2.6	21
96	Kinetics of thermo-oxidative degradation of zinc borate/microcapsulated red phosphorus with magnesium hydroxide in flame retarded polypropylene composites. <i>Journal of Polymer Research</i> , 2009, 16, 745-753.	2.4	15
97	Nucleating agent induced impact fracture behavior change in PP/POE blend. <i>Polymer Bulletin</i> , 2009, 62, 405-419.	3.3	22
98	Crystallization improvement of poly(L-lactide) induced by functionalized multiwalled carbon nanotubes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 326-339.	2.1	76
99	Studies on fracture behaviors of immiscible polypropylene/ethylene-vinyl acetate blends with multiwalled carbon nanotubes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1331-1344.	2.1	13
100	Effects of functionalized multiwalled carbon nanotubes on the morphologies and mechanical properties of PP/EVA blend. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1481-1491.	2.1	21
101	Fractal analysis of worn surfaces of ZnO whisker/natural rubber-styrene butadiene rubber-butyl rubber composites. <i>Journal of Applied Polymer Science</i> , 2003, 90, 667-670.	2.6	9