

# Ting Kai Zhao

## List of Publications by Year in descending order

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71  
papers

2,019  
citations

172457

29  
h-index

254184

43  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2592  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic Wave Absorbing Properties of Amorphous Carbon Nanotubes. <i>Scientific Reports</i> , 2014, 4, 5619.	3.3	148
2	Two-step approach of fabrication of three-dimensional MnO <sub>2</sub> -graphene-carbon nanotube hybrid as a binder-free supercapacitor electrode. <i>Journal of Power Sources</i> , 2016, 306, 602-610.	7.8	141
3	Well-constructed silicon-based materials as high-performance lithium-ion battery anodes. <i>Nanoscale</i> , 2016, 8, 701-722.	5.6	113
4	Functionalized nano diamond composites for photocatalytic hydrogen evolution and effective pollutant degradation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29070-29081.	7.1	67
5	Surface optimization of detonation nanodiamonds for the enhanced mechanical properties of polymer/nanodiamond composites. <i>Diamond and Related Materials</i> , 2020, 107, 107897.	3.9	58
6	Temperature and catalyst effects on the production of amorphous carbon nanotubes by a modified arc discharge. <i>Carbon</i> , 2005, 43, 2907-2912.	10.3	57
7	In situ synthesis of interlinked three-dimensional graphene foam/polyaniline nanorod supercapacitor. <i>Electrochimica Acta</i> , 2017, 230, 342-349.	5.2	53
8	Long-life electrochemical supercapacitor based on a novel hierarchically carbon foam templated carbon nanotube electrode. <i>Composites Part B: Engineering</i> , 2018, 141, 250-257.	12.0	53
9	Dispersion behavior and the influences of ball milling technique on functionalization of detonated nano-diamonds. <i>Diamond and Related Materials</i> , 2016, 61, 32-40.	3.9	52
10	Triboelectric Nanogenerator Based Smart Electronics via Machine Learning. <i>Advanced Materials Technologies</i> , 2020, 5, 1900921.	5.8	52
11	Synthesis and electromagnetic wave absorption property of amorphous carbon nanotube networks on a 3D graphene aerogel/BaFe <sub>12</sub> O <sub>19</sub> nanocomposite. <i>Journal of Alloys and Compounds</i> , 2017, 708, 115-122.	5.5	50
12	Preparation and characterization of carbon foams with high mechanical strength using modified coal tar pitches. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 110, 442-447.	5.5	49
13	Growth of coiled amorphous carbon nanotube array forest and its electromagnetic wave absorbing properties. <i>Composites Part B: Engineering</i> , 2018, 134, 91-97.	12.0	46
14	Performance Evaluation of Graphene Oxide Based Co <sub>3</sub> O <sub>4</sub> @GO, MnO <sub>2</sub> @GO and Co <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> @GO Electrodes for Supercapacitors. <i>Electroanalysis</i> , 2020, 32, 2786-2794.	2.9	45
15	Expanded graphite embedded with aluminum nanoparticles as superior thermal conductivity anodes for high-performance lithium-ion batteries. <i>Scientific Reports</i> , 2016, 6, 33833.	3.3	43
16	Synergistic effect of organic and inorganic nano fillers on the dielectric and mechanical properties of epoxy composites. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2424-2430.	10.7	43
17	Large scale and high purity synthesis of single-walled carbon nanotubes by arc discharge at controlled temperatures. <i>Carbon</i> , 2004, 42, 2765-2768.	10.3	42
18	A three-dimensional MnO <sub>2</sub> /graphene hybrid as a binder-free supercapacitor electrode. <i>RSC Advances</i> , 2015, 5, 85613-85619.	3.6	41

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19	In-situ growth amorphous carbon nanotube on silicon particles as lithium-ion battery anode materials. <i>Journal of Alloys and Compounds</i> , 2017, 708, 500-507.	5.5	41
20	Electromagnetic wave absorbing properties of aligned amorphous carbon nanotube/BaFe <sub>12</sub> O <sub>19</sub> nanorod composite. <i>Journal of Alloys and Compounds</i> , 2017, 703, 424-430.	5.5	40
21	Three-Dimensional Graphene/MnO <sub>2</sub> Nanowalls Hybrid for High-Efficiency Electrochemical Supercapacitors. <i>Nano</i> , 2018, 13, 1850013.	1.0	40
22	Three-Dimensional Heterostructured Reduced Graphene Oxide-Hexagonal Boron Nitride-Stacking Material for Silicone Thermal Grease with Enhanced Thermally Conductive Properties. <i>Nanomaterials</i> , 2019, 9, 938.	4.1	38
23	Reduced Graphene Oxide Embedded with MQ Silicone Resin Nano-Aggregates for Silicone Rubber Composites with Enhanced Thermal Conductivity and Mechanical Performance. <i>Polymers</i> , 2018, 10, 1254.	4.5	37
24	Preparation and the electromagnetic interference shielding in the X-band of carbon foams with Ni-Zn ferrite additive. <i>Journal of the European Ceramic Society</i> , 2016, 36, 3939-3946.	5.7	36
25	Comparative study of the ball milling and acid treatment of functionalized nanodiamond composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 73, 46-52.	3.8	36
26	Fabrication of PANI@Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /PVA hydrogel composite as flexible supercapacitor electrode with good electrochemical performance. <i>Ceramics International</i> , 2022, 48, 15721-15728.	4.8	35
27	Preparation and characterization of graphene derived from low-temperature and pressure promoted thermal reduction. <i>Composites Part B: Engineering</i> , 2016, 99, 106-111.	12.0	33
28	Hydrogen storage capacity of single-walled carbon nanotube prepared by a modified arc discharge. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 355-358.	2.1	32
29	Preparation and electrochemical property of Fe <sub>3</sub> O <sub>4</sub> /MWCNT nanocomposite. <i>Chemical Physics Letters</i> , 2016, 653, 202-206.	2.6	30
30	Preparation and pyrolysis behavior of modified coal tar pitch as C/C composites matrix precursor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 119, 18-23.	5.5	27
31	Synthesis and electromagnetic wave absorption properties of 3D spherical NiCo <sub>2</sub> S <sub>4</sub> composites. <i>Journal of Alloys and Compounds</i> , 2019, 795, 327-335.	5.5	26
32	In-situ synthesis of expanded graphite embedded with CuO nanospheres coated with carbon for supercapacitors. <i>Applied Surface Science</i> , 2018, 460, 58-64.	6.1	25
33	Direct in situ synthesis of a 3D interlinked amorphous carbon nanotube/graphene/BaFe <sub>12</sub> O <sub>19</sub> composite and its electromagnetic wave absorbing properties. <i>RSC Advances</i> , 2017, 7, 15903-15910.	3.6	22
34	The effect of electric current on the synthesis of single-walled carbon nanotubes by temperature controlled arc discharge. <i>Diamond and Related Materials</i> , 2007, 16, 1722-1726.	3.9	19
35	In situ synthesis and electromagnetic wave absorbing properties of sandwich microstructured graphene/La-doped barium ferrite nanocomposite. <i>RSC Advances</i> , 2017, 7, 37276-37285.	3.6	19
36	Growth of well-aligned carbon nanotubes with different shapes. <i>Applied Surface Science</i> , 2015, 357, 2136-2140.	6.1	15

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37	A three-dimensional vertically aligned carbon nanotube/polyaniline composite as a supercapacitor electrode. <i>RSC Advances</i> , 2016, 6, 110592-110599.	3.6	15
38	Effect of Phenolic Resin on Micropores Development in Carbon Foam with High Performance. <i>Materials</i> , 2019, 12, 1213.	2.9	15
39	Facile Fabrication of Multifunctional Aramid Nanofiber Films by Spin Coating. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4757-4763.	2.5	14
40	Facile synthesis of graphene nanosheets via barium ferrite assisted intercalation and secondary expansion of graphite. <i>Materials Letters</i> , 2018, 212, 1-3.	2.6	14
41	A Facile Method of Preparing the Asymmetric Supercapacitor with Two Electrodes Assembled on a Sheet of Filter Paper. <i>Nanomaterials</i> , 2019, 9, 1338.	4.1	14
42	Enhanced electromagnetic wave absorption properties integrating diverse loss mechanism of 3D porous Ni/NiO microspheres. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163227.	5.5	14
43	Flower-like Co@CoO nanohybrids assembled by crisp-rice-like quadrate flakes as high-performance electromagnetic wave absorber. <i>Applied Surface Science</i> , 2022, 597, 153754.	6.1	14
44	A Facile Method to Prepare Silver Doped Graphene Combined with Polyaniline for High Performances of Filter Paper Based Flexible Electrode. <i>Nanomaterials</i> , 2019, 9, 1434.	4.1	12
45	In situ synthesis of expanded graphite embedded with amorphous carbon-coated aluminum particles as anode materials for lithium-ion batteries. <i>Nanotechnology Reviews</i> , 2020, 9, 436-444.	5.8	12
46	Electrochemical Performance of Amorphous Carbon Nanotube as Anode Materials for Lithium Ion Battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3873-3877.	0.9	11
47	Preparation and electrochemical property of CMC/MWCNT composite using ionic liquid as solvent. <i>Science Bulletin</i> , 2012, 57, 1620-1625.	1.7	10
48	A novel hierarchically carbon foam templated carbon nanotubes/polyaniline electrode for efficient electrochemical supercapacitor. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 440-445.	2.1	10
49	Catalyst effect on the preparation of single-walled carbon nanotubes by a modified arc discharge. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 52-57.	2.1	10
50	Evaluation of 8.0â€¦MeV Carbon ( $C^{2+}$ ) Irradiation Effects on Hydrothermally Synthesized $Co_3O_4 \sim CuO \sim ZnO@GO$ Electrodes for Supercapacitor Applications. <i>Electroanalysis</i> , 2020, 32, 2958-2968.	2.9	10
51	3D dendritic- $Fe_2O_3@C$ nanoparticles as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2017, 7, 18508-18511.	3.6	9
52	Preparation and electromagnetic wave absorbing properties of 3D graphene/pine needle-like iron nano-acicular whisker composites. <i>RSC Advances</i> , 2017, 7, 16196-16203.	3.6	8
53	Hydrogen Storage Behavior of Amorphous Carbon Nanotubes at Low Pressure and Room Temperature. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2011, 19, 677-683.	2.1	7
54	Synthesis and electrochemical property of amorphous carbon nanotubes wrapped sulfur particles as cathode material for lithium-sulfur batteries. <i>Chemical Physics Letters</i> , 2017, 688, 59-65.	2.6	7

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55	Self-propagating Combustion Triggered Synthesis of 3D Lamellar Graphene/BaFe <sub>2</sub> O <sub>4</sub> Composite and Its Electromagnetic Wave Absorption Properties. <i>Nanomaterials</i> , 2017, 7, 55.	4.1	7
56	Pt nanoparticles decorated rose-like Bi <sub>2</sub> O <sub>3</sub> CO <sub>3</sub> configurations for efficient photocatalytic removal of water organic pollutants. <i>RSC Advances</i> , 2018, 8, 914-920.	3.6	7
57	Materials Engineering of High-Performance Anodes as Layered Composites with Self-Assembled Conductive Networks. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14014-14028.	3.1	7
58	Synthesis of novel nicotinamide substituted phthalocyanine and photodynamic antimicrobial chemotherapy evaluation potentiated by potassium iodide against the gram positive <i>S. aureus</i> and gram negative <i>E. coli</i> . <i>Biotechnology Letters</i> , 2021, 43, 781-790.	2.2	7
59	Current and Arc Pushing Force Effects on the Synthesis of Single-Walled Carbon Nanotubes by Arc Discharge. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 4078-4081.	0.9	6
60	Electrochemical Property of Multi-Walled Carbon Nanotubes/Chitosan Composites by Electrostatic Interactions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2011, 19, 452-460.	2.1	6
61	Effect of the graphene derived from thermal reduction within matrix on the performance of graphene/poly (methyl methacrylate) composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 120, 215-221.	5.5	6
62	Coral-like amorphous carbon nanotubes synthesized by a modified arc discharge. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 359-362.	2.1	6
63	Three-dimensional heterostructured MnO <sub>2</sub> /graphene/carbon nanotube composite on Ni foam for binder-free supercapacitor electrode. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017, 25, 391-396.	2.1	6
64	Effect of metal oxide and oxygen on the growth of single-walled carbon nanotubes by electric arc discharge. <i>Journal of Nanoparticle Research</i> , 2008, 10, 409-414.	1.9	5
65	Effect of the graphene sheets derived from multistep oxidized carbon nanotubes on the performance of graphene sheets/poly(methyl methacrylate) composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 114, 243-249.	5.5	5
66	Facile and Green Preparation of Three-Dimensionally Nanoporous Copper Films by Low-Current Electrical Field-Induced Assembly of Copper Nanoparticles for Lithium-Ion Battery Applications. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4680-4692.	2.5	4
67	Catalyst Composition and Content Effects on the Synthesis of Single-Walled Carbon Nanotubes by Arc Discharge. <i>Journal of Nanomaterials</i> , 2007, 2007, 1-4.	2.7	3
68	High-strength Lightweight Bird's Nest-like Mullite Whisker 3-D Network. <i>Chemistry Letters</i> , 2018, 47, 243-246.	1.3	3
69	Stable and Homogenous Functionality on PDMS Surface and the Kinetic of Gold Nanoparticle Adsorption on Its Surface. <i>Soft Materials</i> , 2014, 12, 334-338.	1.7	2
70	Bistability and pH Hysteresis of Graphene Oxide Solution in Circle Acid-Base Titration. <i>Chemistry Letters</i> , 2015, 44, 454-456.	1.3	1
71	In situ synthesis of semiconducting single-walled carbon nanotubes by modified arc discharging method. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	1