Jie Yu

List of Publications by Year in descending order

84 papers	3,456 citations	126708 33 h-index	149479 56 g-index
84 all docs	84 docs citations	84 times ranked	4871 citing authors

#	Article	IF	Citations
1	Vertically Aligned Boron Nitride Nanosheets: Chemical Vapor Synthesis, Ultraviolet Light Emission, and Superhydrophobicity. ACS Nano, 2010, 4, 414-422.	7.3	291
2	Graphene/MoS2/FeCoNi(OH)x and Graphene/MoS2/FeCoNiPx multilayer-stacked vertical nanosheets on carbon fibers for highly efficient overall water splitting. Nature Communications, 2021, 12, 1380.	5.8	194
3	A flexible, electrochromic, rechargeable Zn//PPy battery with a short circuit chromatic warning function. Journal of Materials Chemistry A, 2018, 6, 11113-11118.	5.2	120
4	Nitrogen-doped ultrathin carbon nanofibers derived from electrospinning: Large-scale production, unique structure, and application as electrocatalysts for oxygen reduction. Journal of Power Sources, 2011, 196, 9862-9867.	4.0	119
5	Nanosheet-Structured Boron Nitride Spheres with a Versatile Adsorption Capacity for Water Cleaning. ACS Applied Materials & Interfaces, 2015, 7, 1824-1832.	4.0	117
6	3D Graphene Fibers Grown by Thermal Chemical Vapor Deposition. Advanced Materials, 2018, 30, e1705380.	11.1	116
7	Carbon nanofibers with radially grown graphene sheets derived from electrospinning for aqueous supercapacitors with high working voltage and energy density. Nanoscale, 2013, 5, 4902.	2.8	112
8	Honeycomb porous MnO2 nanofibers assembled from radially grown nanosheets for aqueous supercapacitors with high working voltage and energy density. Nano Energy, 2014, 4, 39-48.	8.2	112
9	Synthesis and field-emission behavior of highly oriented boron carbonitride nanofibers. Applied Physics Letters, 2000, 76, 2624-2626.	1.5	104
10	Semiconducting boron carbonitride nanostructures: Nanotubes and nanofibers. Applied Physics Letters, 2000, 77, 1949-1951.	1.5	102
11	Interfacial electronic structure engineering on molybdenum sulfide for robust dual-pH hydrogen evolution. Nature Communications, 2021, 12, 5260.	5.8	93
12	Magnetization and Raman scattering studies of (Co,Mn) codoped ZnO nanoparticles. Journal of Applied Physics, 2008, 104, .	1.1	86
13	Ultrathin MoS₂ nanosheets homogenously embedded in aÂN,O-codoped carbon matrix for high-performance lithium and sodium storage. Journal of Materials Chemistry A, 2019, 7, 4804-4812.	5.2	82
14	Aligned polyaniline nanowires grown on the internal surface of macroporous carbon for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23307-23315.	5.2	77
15	Large-Scale Production of Aligned Long Boron Nitride Nanofibers by Multijet/Multicollector Electrospinning. Journal of Physical Chemistry C, 2009, 113, 11228-11234.	1.5	71
16	Tungsten carbide nanofibers prepared by electrospinning with high electrocatalytic activity for oxygen reduction. International Journal of Hydrogen Energy, 2011, 36, 7398-7404.	3.8	68
17	Growing vertical graphene sheets on natural graphite for fast charging lithium-ion batteries. Carbon, 2021, 173, 477-484.	5.4	68
18	Few-atomic-layered boron carbonitride nanosheets prepared by chemical vapor deposition. Nanoscale, 2012, 4, 120-123.	2.8	66

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19	Large-scale synthesis of hybrid metal oxides through metal redox mechanism for high-performance pseudocapacitors. Scientific Reports, 2016, 6, 20021.	1.6	63
20	Nitrogen-doped activated carbon with micrometer-scale channels derived from luffa sponge fibers as electrocatalysts for oxygen reduction reaction with high stability in acidic media. Electrochimica Acta, 2014, 149, 56-64.	2.6	61
21	Vertical graphene growth on uniformly dispersed sub-nanoscale SiO_x/N-doped carbon composite microspheres with a 3D conductive network and an ultra-low volume deformation for fast and stable lithium-ion storage. Journal of Materials Chemistry A, 2020, 8, 3822-3833.	5.2	59
22	Cotton-based hollow carbon fibers with high specific surface area prepared by ammonia etching for supercapacitor application. RSC Advances, 2014, 4, 31300-31307.	1.7	58
23	Subnanoscopically and homogeneously dispersed SiOx/C composite spheres for high-performance lithium ion battery anodes. Journal of Power Sources, 2019, 414, 435-443.	4.0	58
24	The effect of different nitrogen sources on the electrocatalytic properties of nitrogen-doped electrospun carbon nanofibers for the oxygen reduction reaction. International Journal of Hydrogen Energy, 2015, 40, 4673-4682.	3.8	50
25	Electron field emission from carbon nanoparticles prepared by microwave-plasma chemical-vapor deposition. Applied Physics Letters, 2001, 78, 2226-2228.	1.5	49
26	Transition metal doped MnO2 nanosheets grown on internal surface of macroporous carbon for supercapacitors and oxygen reduction reaction electrocatalysts. Applied Materials Today, 2016, 3, 63-72.	2.3	49
27	Electrospinning highly aligned long polymer nanofibers on large scale by using a tip collector. Applied Physics Letters, 2007, 91, .	1.5	45
28	Enhanced electrochemical performance of TiO2 by Ti3+ doping using a facile solvothermal method as anode materials for lithium-ion batteries. Electrochimica Acta, 2014, 138, 41-47.	2.6	45
29	Turbostratic boron carbonitride film and its field-emitting behavior. Applied Physics Letters, 1999, 74, 2948-2950.	1.5	42
30	Activated carbon with micrometer-scale channels prepared from luffa sponge fibers and their application for supercapacitors. RSC Advances, 2014, 4, 35789-35796.	1.7	42
31	Highly Active Carbon/Î±â€MnO₂ Hybrid Oxygen Reduction Reaction Electrocatalysts. ChemElectroChem, 2016, 3, 1760-1767.	1.7	42
32	Catalyst-free growth of mono- and few-atomic-layer boron nitride sheets by chemical vapor deposition. Nanotechnology, 2011, 22, 215602.	1.3	36
33	High yield production of 3D graphene powders by thermal chemical vapor deposition and application as highly efficient conductive additive of lithium ion battery electrodes. Carbon, 2021, 176, 21-30.	5.4	35
34	Feâ€“N/C nanofiber electrocatalysts with improved activity and stability for oxygen reduction in alkaline and acid solutions. Journal of Solid State Electrochemistry, 2013, 17, 565-573.	1.2	33
35	MnO2 Nanosheets Grown on Internal Surface of Macroporous Carbon with Enhanced Electrochemical Performance for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2016, 4, 3641-3648.	3.2	33
36	Enhancement of electrocatalytic activity for oxygen reduction reaction in alkaline and acid media from electrospun nitrogen-doped carbon nanofibers by surface modification. RSC Advances, 2013, 3, 15655.	1.7	32

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37	Preparation of nitrogen-doped carbon submicrotubes by coaxial electrospinning and their electrocatalytic activity for oxygen reduction reaction in acid media. Electrochimica Acta, 2013, 96, 225-229.	2.6	32
38	Vapor pressure-assisted synthesis of chemically bonded TiO2/C nanocomposites with highly mesoporous structure for lithium-ion battery anode with high capacity, ultralong cycling lifetime, and superior rate capability. Journal of Power Sources, 2020, 465, 228206.	4.0	32
39	Tunable Freeâ€Standing Ultrathin Porous Nickel Film for High Performance Flexible Nickelâ€“Metal Hydride Batteries. Advanced Energy Materials, 2018, 8, 1702467.	10.2	31
40	Flexible electrospun carbon nanofibers/silicone composite films for electromagnetic interference shielding, electrothermal and photothermal applications. Chemical Engineering Journal, 2021, 420, 129826.	6.6	31
41	Synergistic enhancement of electrochemical performance of electrospun TiC/C hybrid nanofibers for supercapacitor application. Electrochimica Acta, 2015, 176, 402-409.	2.6	30
42	Growth of flexible and porous surface layers of vertical graphene sheets for accommodating huge volume change of silicon in lithium-ion battery anodes. Materials Today Energy, 2020, 17, 100445.	2.5	29
43	Anchoring Mo2C nanoparticles on vertical graphene nanosheets as a highly efficient catalytic interlayer for Li-S batteries. Chemical Engineering Journal, 2022, 433, 134306.	6.6	27
44	Synthesis of thick and high quality cubic boron nitride films by r.f. bias assisted d.c. jet plasma chemical vapor deposition. Diamond and Related Materials, 2004, 13, 1704-1708.	1.8	20
45	Thermal Stability of Cubic Boron Nitride Films Deposited by Chemical Vapor Deposition. Journal of Physical Chemistry B, 2006, 110, 21073-21076.	1.2	19
46	A Flexible Supercapacitor with High True Performance. IScience, 2018, 9, 138-148.	1.9	17
47	Pressureâ€Induced Vapor Synthesis of Carbonâ€Encapsulated SiO_x/C Composite Spheres with Optimized Composition for Longâ€Life, Highâ€Rate, and Highâ€Arealâ€Capacity Lithiumâ€Ion Battery Anodes. Energy Technology, 2019, 7, 1900084.	1.8	16
48	Controlling structure of vertically grown graphene sheets on carbon fibers for hosting Li and Na metals as rechargeable battery anodes. Carbon, 2020, 158, 394-405.	5.4	16
49	Vertical Graphene Nanosheet/Polyimide Composite Films for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2021, 4, 7461-7470.	2.4	16
50	Synthesis and characterization of Bâ€“Câ€“N compounds on molybdenum. Journal of Materials Research, 1999, 14, 1137-1141.	1.2	15
51	Fabrication of ultra thin and aligned carbon nanofibres from electrospun polyacrylonitrile nanofibres. Bulletin of Materials Science, 2010, 33, 553-559.	0.8	15
52	N,O-codoped 3D graphene fibers with densely arranged sharp edges as highly efficient electrocatalyst for oxygen reduction reaction. Journal of Materials Science, 2019, 54, 14495-14503.	1.7	15
53	Porous composites of vertical graphene sheets and Fe3O4 nanorods grown on Fe/Fe3C particle embedded graphene-structured carbon walls for highly efficient microwave absorption. Journal of Alloys and Compounds, 2022, 905, 164232.	2.8	15
54	Mechanical, thermal, and dielectric properties of SiCf/SiC composites reinforced with electrospun SiC fibers by PIP. Journal of the European Ceramic Society, 2021, 41, 6859-6868.	2.8	14

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55	Nitrogen-doped porous carbon fiber/vertical graphene as an efficient polysulfide conversion catalyst for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 690-698.	5.2	14
56	High electrochemical activity from hybrid materials of electrospun tungsten oxide nanofibers and carbon black. Journal of Materials Science, 2012, 47, 6607-6613.	1.7	13
57	Pressure-induced vapor synthesis, formation mechanism, and thermal stability of well-dispersed boron nitride spheres. Diamond and Related Materials, 2018, 87, 10-17.	1.8	13
58	Nanoscopically and uniformly distributed SnO₂@TiO₂/C composite with highly mesoporous structure and bichemical bonds for enhanced lithium ion storage performances. Materials Advances, 2020, 1, 421-429.	2.6	13
59	Nano Carbon/Vertical Graphene/MnO₂ Nanosheets Composite Particles for Highâ€Performance Supercapacitors. Energy Technology, 2022, 10, 2100884.	1.8	13
60	Rapid synthesis and morphology control of nickel powders via a microwave-assisted chemical reduction method. Journal of Materials Science, 2009, 44, 108-113.	1.7	12
61	Synthesis of poly(1,5-diaminonaphthalene) microparticles with abundant amino and imino groups as strong adsorbers for heavy metal ions. Mikrochimica Acta, 2019, 186, 208.	2.5	12
62	In-situ formation of 3D vertical graphene by carbonizing organic precursor in ammonia. Carbon, 2021, 171, 111-118.	5.4	12
63	Substrate-orientation dependent epitaxial growth of highly ordered diamond nanosheet arrays by chemical vapor deposition. Nanoscale, 2018, 10, 2812-2819.	2.8	11
64	Highly emissive phenylene-expanded [5]radialene. Chemical Communications, 2020, 56, 3911-3914.	2.2	11
65	A novel route towards well-dispersed short nanofibers and nanoparticles via electrospinning. RSC Advances, 2016, 6, 30139-30147.	1.7	10
66	Vertically Aligned N-Doped Diamond/Graphite Hybrid Nanosheets Epitaxially Grown on B-Doped Diamond Films as Electrocatalysts for Oxygen Reduction Reaction in an Alkaline Medium. ACS Applied Materials & Interfaces, 2018, 10, 29866-29875.	4.0	10
67	Graphene-Based Flexible Sensors for Simultaneous Detection of Ascorbic Acid, Dopamine, and Uric Acid. Frontiers in Bioengineering and Biotechnology, 2021, 9, 726071.	2.0	10
68	Microspheres integrating Ti2O3 nanocrystals, carbon matrix, and vertical graphene enable fast ion transport for fast-charging lithium-ion batteries. Journal of Energy Storage, 2021, 43, 103179.	3.9	10
69	Controlled Growth of Largeâ€Sized and Phaseâ€Selectivity 2D GaTe Crystals. Small, 2021, 17, e2007909.	5.2	9
70	Electrodeposition of Mo-doped NiFex nanospheres on 3D graphene fibers for efficient overall alkaline water splitting. International Journal of Hydrogen Energy, 2022, 47, 13850-13861.	3.8	9
71	3D Vertical Graphene@SiO x /Bâ€Doped Carbon Composite Microspheres for Highâ€Energy Lithiumâ€Ion Batteries. Energy Technology, 2020, 8, 2000351.	1.8	8
72	Atomicâ€Scale Laminated Structure of Oâ€Doped WS₂ and Carbon Layers with Highly Enhanced Ion Transfer for Fastâ€Charging Lithiumâ€Ion Batteries. Small, 2022, 18, .	5.2	8

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73	Growth and structure of aligned Bâ€“Câ€“N nanotubes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 671.	1.6	7
74	Crystallinity improvement of hexagonal boron nitride films by molybdenum catalysts during microwave plasma chemical vapor deposition and post-annealing. Applied Surface Science, 2012, 258, 10191-10194.	3.1	7
75	Vertical Graphene Nanosheets on Porous Microsilicon Particles for Anodes of Lithium-Ion Batteries. ACS Applied Nano Materials, 2022, 5, 8205-8213.	2.4	6
76	Effect of potassium chloride amount on structures of hydrothermally grown KNbO₃ nanostructure. Materials Research Innovations, 2014, 18, S2-696-S2-699.	1.0	4
77	Porous Cu Film Enables Thick Slurry-Cast Anodes with Enhanced Charge Transfer Efficiency for High-Performance Li-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 47623-47633.	4.0	4
78	Effects and Control of Polymerâ€Converted Carbon Impurity in Synthesizing Continuous Boron Nitride Nanofibers by Electrospinning. International Journal of Applied Ceramic Technology, 2012, 9, 823-832.	1.1	3
79	Pressureâ€Induced Synthesis of Homogeneously Dispersed Sn/SnO₂/C Nanocomposites as Advanced Anodes for Lithiumâ€Ion Batteries. Energy Technology, 2020, 8, 1901202.	1.8	3
80	Highly flexible and strong SiC fibre mats prepared by electrospinning and hot-drawing. Advances in Applied Ceramics, 2021, 120, 144-155.	0.6	2
81	Facile Gold-Nanoparticle Boosted Graphene Sensor Fabrication Enhanced Biochemical Signal Detection. Nanomaterials, 2022, 12, 1327.	1.9	2
82	Potential-mediated growth of ultrathin hydrated tungsten oxide nanosheets with high electrochemical activity from amorphous precursor nanofibers. Journal of Materials Science, 2015, 50, 66-73.	1.7	0
83	A Self-Supported Flexible Electrode Based on Graphene Modified Carbon Cloth for Glucose Detection. , 2021, , .		0
84	Vapor-pressured induced synthesis of chemically bonded Fe1-xS/N-doped carbon composite nanoflakes as high-capacity, ultralong-cycle-life, and high-rate lithium-ion-battery anode. IOP Conference Series: Earth and Environmental Science, 2021, 680, 012077.	0.2	0