Yingkui Yang

List of Publications by Year in Descending Order

101 papers	3,048 citations	32 h-index	52 g-index
108 ext. papers	3,684 ext. citations	9 avg, IF	5.51 L-index

#	Paper	IF	Citations
101	Core‐shell heterostructured composites of carbon nanotubes and imine-linked hyperbranched polymers as metal-free Li-ion anodes. *Nanotechnology Reviews*, **2022**, 11, 824-833	6.3	0
100	Carbon nanotube-supported polyimide nanoarrays as sulfur host with physical/chemical polysulfide-traps for Li‐S batteries. *Composites Communications*, **2022**, 29, 101019	6.7	1
99	Electrospun nanofibers of Co3O4 nanocrystals encapsulated in cyclized-polyacrylonitrile for lithium storage. *Nanotechnology Reviews*, **2022**, 11, 945-956	6.3	
98	Polymers in Lithium-Sulfur Batteries. *Advanced Science*, **2021**, e2103798	13.6	10
97	Electrocatalysis: Simultaneously Crafting Single-Atomic Fe Sites and Graphitic Layer-Wrapped Fe3C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction (Adv. Funct. Mater. 10/2021). *Advanced Functional Materials*, **2021**, 31, 2170064	15.6	
96	Chain structure-dependent electrochemical performance of polyimide cathode materials for lithium-ion batteries. *Journal of Materials Science*, **2021**, 56, 3900-3910	4.3	7
95	Simultaneously Crafting Single-Atomic Fe Sites and Graphitic Layer-Wrapped Fe3C Nanoparticles Encapsulated within Mesoporous Carbon Tubes for Oxygen Reduction. *Advanced Functional Materials*, **2021**, 31, 2009197	15.6	42
94	Polymerization-tailored polyimides as cathodes for lithium-ion batteries. *Materials Advances*, **2021**, 2, 5785-5790	3.3	2
93	Conjugated cyclized-polyacrylonitrile encapsulated carbon nanotubes as core‐sheath heterostructured anodes with favorable lithium storage. *Journal of Materials Chemistry A*, **2021**, 9, 6962-6970	13	5
92	Pyrolysis-free covalent organic framework-based materials for efficient oxygen electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 20985-21004	13	7
91	In-situ confinement of ultrasmall SnO2 nanocrystals into redox-active polyimides for high-rate and long-cycling anode materials. *Composites Communications*, **2021**, 23, 100561	6.7	3
90	Redox-active polymers as organic electrode materials for sustainable supercapacitors. *Renewable and Sustainable Energy Reviews*, **2021**, 147, 111247	16.2	11
89	Chain engineering of carbonyl polymers for sustainable lithium-ion batteries. *Materials Today*, **2021**, 50, 170-170	21.8	7
88	Heteroarchitecturing a novel three-dimensional hierarchical MoO2/MoS2/carbon electrode material for high-energy and long-life lithium storage. *Journal of Materials Chemistry A*, **2021**, 9, 13001-13007	13	8
87	Ultrasmall MoC nanocrystals embedded in N-doped porous carbons as a surface-dominated capacitive anode for lithium-ion capacitors. *Chemical Communications*, **2021**, 57, 4966-4969	5.8	2
86	In situ growth of polyimide nanoarrays on conductive carbon supports for high-rate charge storage and long-lived metal-free cathodes. *Journal of Materials Chemistry A*, **2021**, 9, 10652-10660	13	8
85	One-pot mechanochemical exfoliation of graphite and polymerization of aniline for the production of graphene/polyaniline composites for high-performance supercapacitors.. *RSC Advances*, **2020**, 10, 44688-44698	3.7	9

84	Facile simultaneous polymerization enabled in-situ confinement of size-tailored GeO2 nanocrystals in continuous S-Doped carbons for lithium storage. *Materials Today Chemistry*, **2020**, 17, 100293	6.2	4
83	Conjugated polyimide-coated carbon nanofiber aerogels in a redox electrolyte for binder-free supercapacitors. *Chemical Engineering Journal*, **2020**, 401, 126031	14.7	31
82	Tailoring carrier dynamics in perovskite solar cells via precise dimension and architecture control and interfacial positioning of plasmonic nanoparticles. *Energy and Environmental Science*, **2020**, 13, 1743-1752	35.4	33
81	Vertically aligned VS2 on graphene as a 3D heteroarchitectured anode material with capacitance-dominated lithium storage. *Journal of Materials Chemistry A*, **2020**, 8, 5882-5889	13	45
80	Emerging covalent organic frameworks tailored materials for electrocatalysis. *Nano Energy*, **2020**, 70, 104525	17.1	73
79	Binary carbon-based additives in LiFePO4 cathode with favorable lithium storage. *Nanotechnology Reviews*, **2020**, 9, 934-944	6.3	10
78	Incorporation of redox-active polyimide binder into LiFePO4 cathode for high-rate electrochemical energy storage. *Nanotechnology Reviews*, **2020**, 9, 1350-1358	6.3	6
77	Molten-salt-templated fabrication of N, S co-doped hierarchically porous carbons for high-performance supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10113-10122	2.1	4
76	Scalable mechanochemical coupling of homogeneous Co3O4 nanocrystals onto in-situ exfoliated graphene sheets for asymmetric supercapacitors. *Chemical Engineering Journal*, **2020**, 397, 125503	14.7	29
75	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2020**, 59, 1611-1618	16.4	60
74	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. *Angewandte Chemie*, **2020**, 132, 1628-1635	3.6	28
73	A Simple Glucose-Blowing Approach to Graphene-Like Foam/NiO Composites for Asymmetric Supercapacitors. *Energy Technology*, **2020**, 8, 1900923	3.5	7
72	Hydrothermally self-templated synthesis of rectangular polyimide submicrotubes and promising potentials in electrochemical energy storage. *Chemical Communications*, **2020**, 56, 1429-1432	5.8	22
71	Surfactant-Directed Engineering of Hierarchical Porous Heteroatom-Doped Carbons for High-Energy Supercapacitors. *Energy Technology*, **2020**, 8, 2000690	3.5	2
70	Surfactant-Directed Engineering of Hierarchical Porous Heteroatom-Doped Carbons for High-Energy Supercapacitors. *Energy Technology*, **2020**, 8, 2070123	3.5	6
69	One-pot solvothermal incorporation of graphene into chain-engineered polyquinones for metal-free supercapacitors. *Chemical Communications*, **2020**, 56, 11191-11194	5.8	7
68	Alternating Stacking of Nanocrystals and Nanofibers into Ultrastrong Chiral Biocomposite Laminates. *ACS Nano*, **2020**, 14, 14675-14685	16.7	18
67	Scalable Polymerization Approach to Tailoring Morphologies of Polyimide-Derived N-Doped Carbons for High-Performance Supercapacitors. *Energy Technology*, **2020**, 8, 1901013	3.5	10

66	A facile solvothermal polymerization approach to thermoplastic polymer-based nanocomposites as alternative anodes for high-performance lithium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 23019-23027	13	18
65	Sonochemical synthesis of Co3O4/graphene/Co3O4 sandwich architecture for high-performance supercapacitors. *Journal of Applied Electrochemistry*, **2019**, 49, 1133-1142	2.6	3
64	Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. *Advanced Materials*, **2019**, 31, e1806314	24	139
63	A molecular engineering approach to pore-adjustable nanoporous carbons with narrow distribution for high-performance supercapacitors. *Chemical Communications*, **2019**, 55, 2305-2308	5.8	19
62	In-situ growth of polypyrrole onto bamboo cellulose-derived compressible carbon aerogels for high performance supercapacitors. *Electrochimica Acta*, **2019**, 301, 55-62	6.7	50
61	Development of Direct-Laser-Printable Light-Powered Nanocomposites. *ACS Applied Materials & Interfaces*, **2019**, 11, 19541-19553	9.5	31
60	Environmental Remediation: Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources (Adv. Mater. 15/2019). *Advanced Materials*, **2019**, 31, 1970110	24	4
59	In situ encapsulation of CoO polyhedra in graphene sheets for high-capacitance supercapacitors. *Dalton Transactions*, **2019**, 48, 5773-5778	4.3	29
58	Simultaneous Polymerization Enabled the Confinement of Size-Adjustable TiO2 Nanocrystals in S-Doped Carbons for High-Rate Anode Materials. *Energy Technology*, **2019**, 7, 1900247	3.5	11
57	Multi-functional PEDOT-engineered sodium titanate nanowires for sodium-ion batteries with synchronous improvements in rate capability and structural stability. *Journal of Materials Chemistry A*, **2019**, 7, 19241-19247	13	20
56	In Situ Templating Approach To Fabricate Small-Mesopore-Dominant S-Doped Porous Carbon Electrodes for Supercapacitors and Li-Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 5591-5599	6.1	13
55	One-Pot hydrothermal approach to graphene/Poly(3,4-ethylenedioxythiophene) composites for high-capacitance supercapacitors. *Materials Today Communications*, **2019**, 20, 100549	2.5	11
54	Enabling highly efficient photocatalytic hydrogen generation and organics degradation via a perovskite solar cell-assisted semiconducting nanocomposite photoanode. *Journal of Materials Chemistry A*, **2019**, 7, 165-171	13	25
53	Controlled fabrication of nitrogen-doped carbon hollow nanospheres for high-performance supercapacitors. *Reactive and Functional Polymers*, **2019**, 144, 104349	4.6	1
52	Sonochemistry-enabled uniform coupling of SnO nanocrystals with graphene sheets as anode materials for lithium-ion batteries.. *RSC Advances*, **2019**, 9, 5942-5947	3.7	14
51	Homogeneous coating of carbon nanotubes with tailored N-doped carbon layers for improved electrochemical energy storage.. *RSC Advances*, **2019**, 9, 40933-40939	3.7	9
50	Scalable sonochemical synthesis of petal-like MnO2/graphene hierarchical composites for high-performance supercapacitors. *Composites Part B: Engineering*, **2019**, 161, 37-43	10	39
49	Interface Engineering via Photopolymerization-Induced Phase Separation for Flexible UV-Responsive Phototransistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 7487-7496	9.5	7

48	Combination of 1D Ni(OH)2 nanobelts and 2D graphene sheets to fabricate 3D composite hydrogel electrodes with ultrahigh capacitance and superior rate capability. *Composites Science and Technology*, **2018**, 167, 155-163	8.6	22
47	Electrochemically Active Phosphotungstic Acid Assisted Prevention of Graphene Restacking for High-Capacitance Supercapacitors. *Energy and Environmental Materials*, **2018**, 1, 88-95	13	32
46	Phytic acid assisted fabrication of graphene/polyaniline composite hydrogels for high-capacitance supercapacitors. *Composites Part B: Engineering*, **2018**, 155, 132-137	10	38
45	Rheological phase reaction synthesis and electrochemical performance of rufigallol anode for lithium ion batteries.. *RSC Advances*, **2018**, 8, 19272-19277	3.7	1
44	Bioinspired Co3O4/graphene layered composite films as self-supported electrodes for supercapacitors. *Composites Part B: Engineering*, **2017**, 121, 68-74	10	30
43	Polyoxometalate-enabled photoreduction of graphene oxide to bioinspired nacre-like composite films for supercapacitor electrodes. *Composites Part B: Engineering*, **2017**, 121, 75-82	10	33
42	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. *Angewandte Chemie - International Edition*, **2017**, 56, 4488-4493	16.4	122
41	Highly Branched Metal Alloy Networks with Superior Activities for the Methanol Oxidation Reaction. *Angewandte Chemie*, **2017**, 129, 4559-4564	3.6	33
40	Simultaneous polymerization enabled the facile fabrication of S-doped carbons with tunable mesoporosity for high-capacitance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 23513-23522	13	28
39	Well-structured holographic polymer dispersed liquid crystals by employing acrylamide and doping ZnS nanoparticles. *Materials Chemistry Frontiers*, **2017**, 1, 294-303	7.8	19
38	Room-temperature catalytic growth of hierarchical urchin-like MnO2 spheres on graphene to achieve silver-doped nanocomposites with improved supercapacitor performance. *Electrochimica Acta*, **2016**, 222, 1393-1401	6.7	28
37	Poly(ionic liquid)-assisted reduction of graphene oxide to achieve high-performance composite electrodes. *Composites Part B: Engineering*, **2016**, 106, 81-87	10	36
36	Graphene-based materials with tailored nanostructures for energy conversion and storage. *Materials Science and Engineering Reports*, **2016**, 102, 1-72	30.9	189
35	Facile One Pot Polycondensation Method to Synthesize the Crosslinked Polyethylene glycol-Based Copolymer Electrolytes. *Macromolecular Chemistry and Physics*, **2016**, 217, 1607-1613	2.6	9
34	Non-covalent Exfoliation of Graphite to Produce Graphene **2016**, 413-429		
33	Hollow titanium dioxide spheres as anode material for lithium ion battery with largely improved rate stability and cycle performance by suppressing the formation of solid electrolyte interface layer. *Journal of Materials Chemistry A*, **2015**, 3, 13340-13349	13	63
32	Photomechanically Controlled Encapsulation and Release from pH-Responsive and Photoresponsive Microcapsules. *Langmuir*, **2015**, 31, 5456-63	4	24
31	Nanostructures: Graphene-Enabled Superior and Tunable Photomechanical Actuation in Liquid Crystalline Elastomer Nanocomposites (Adv. Mater. 41/2015). *Advanced Materials*, **2015**, 27, 6535-6535	24	3

30	Graphene-Enabled Superior and Tunable Photomechanical Actuation in Liquid Crystalline Elastomer Nanocomposites. *Advanced Materials*, **2015**, 27, 6376-81	24	111
29	Sulphur, nitrogen-doped TiO2/graphene oxide composites as a high performance photocatalyst. *Journal of Experimental Nanoscience*, **2014**, 9, 749-761	1.9	11
28	Conductive nanocomposite hydrogels with self-healing property. *RSC Advances*, **2014**, 4, 35149-35155	3.7	45
27	Preparation of poly(cyclooctene)-g-poly(ethylene glycol) (PCOE-g-PEG) graft copolymers with tunable PEG side chains via ROMP and its protein adsorption and platelet adhesion properties. *Materials Science and Engineering C*, **2014**, 45, 539-45	8.3	4
26	Judicious selection of bifunctional molecules to chemically modify graphene for improving nanomechanical and thermal properties of polymer composites. *Journal of Materials Chemistry A*, **2014**, 2, 20038-20047	13	33
25	Core/shell rubber toughened polyamide 6: an effective way to get good balance between toughness and yield strength. *RSC Advances*, **2013**, 3, 21563	3.7	28
24	Progress in Imidazolium Ionic Liquids Assisted Fabrication of Carbon Nanotube and Graphene Polymer Composites. *Polymers*, **2013**, 5, 847-872	4.5	72
23	Robust polyazobenzene microcapsules with photoresponsive pore channels and tunable release profiles. *European Polymer Journal*, **2012**, 48, 41-48	5.2	24
22	Synthesis of hemin functionalized graphene and its application as a counter electrode in dye-sensitized solar cells. *Materials Chemistry and Physics*, **2012**, 132, 858-864	4.4	42
21	Improving thermal conductivity while retaining high electrical resistivity of epoxy composites by incorporating silica-coated multi-walled carbon nanotubes. *Carbon*, **2011**, 49, 495-500	10.4	237
20	Synthesis of electroactive tetraaniline-PEO-tetraaniline triblock copolymer and its self-assembled vesicle with acidity response. *Langmuir*, **2010**, 26, 9386-92	4	70
19	Synthesis and photo-responsive behaviors of hollow polyazobenzene micro-spheres. *Science Bulletin*, **2010**, 55, 3441-3447		9
18	A facile method for the synthesis of ZnS/polystyrene composite particles and ZnS hollow micro-spheres. *Journal of Materials Science*, **2010**, 45, 777-782	4.3	27
17	An Effective Method for Bulk Obtaining Graphene Oxide Solids. *Chinese Journal of Chemistry*, **2010**, 28, 1935-1940	4.9	22
16	Green chemical functionalization of multiwalled carbon nanotubes with poly(e-caprolactone) in ionic liquids. *Applied Surface Science*, **2010**, 257, 1010-1014	6.7	31
15	Functionalization of carbon nanotubes with biodegradable supramolecular polypseudorotaxanes from grafted-poly(□caprolactone) and □cyclodextrins. *European Polymer Journal*, **2010**, 46, 145-155	5.2	28
14	A facile, green, and tunable method to functionalize carbon nanotubes with water-soluble azo initiators by one-step free radical addition. *Applied Surface Science*, **2010**, 256, 3286-3292	6.7	45
13	A facile method to fabricate silica-coated carbon nanotubes and silica nanotubes from carbon nanotubes templates. *Journal of Materials Science*, **2009**, 44, 4539-4545	4.3	76

12	Novel all-cellulose ecocomposites prepared in ionic liquids. *Cellulose*, **2009**, 16, 217-226	5.5	74
11	Immobilization of RAFT agents on silica nanoparticles utilizing an alternative functional group and subsequent surface-initiated RAFT polymerization. *Journal of Polymer Science Part A*, **2009**, 47, 467-484	2.5	38
10	Synthesis and electrochemical probing of water-soluble poly(sodium 4-styrenesulfonate-co-acrylic acid)-grafted multiwalled carbon nanotubes. *Nanotechnology*, **2008**, 19, 085716	3.4	36
9	Control on self-assembly structures of rod-coil-rod (PANI)98–(PEG)136–(PANI)98 triblock copolymer. *Frontiers of Chemical Engineering in China*, **2008**, 2, 85-88		6
8	A facile method to prepare CdS/polystyrene composite particles. *Journal of Colloid and Interface Science*, **2008**, 326, 121-8	9.3	33
7	Structure and Photoresponsive Behaviors of Multiwalled Carbon Nanotubes Grafted by Polyurethanes Containing Azobenzene Side Chains. *Journal of Physical Chemistry C*, **2007**, 111, 11231-11239	3.8	61
6	Controlled Synthesis and Novel Solution Rheology of Hyperbranched Poly(urea–urethane)-Functionalized Multiwalled Carbon Nanotubes. *Macromolecules*, **2007**, 40, 5858-5867	5.5	52
5	Multiwalled Carbon Nanotubes Functionalized by Hyperbranched Poly(urea-urethane)s by a One-Pot Polycondensation. *Macromolecular Rapid Communications*, **2006**, 27, 1695-1701	4.8	83
4	Synthesis and self-assembly of polystyrene-grafted multiwalled carbon nanotubes with a hairy-rod nanostructure. *Journal of Polymer Science Part A*, **2006**, 44, 3869-3881	2.5	65
3	Pyrolysis-free synthesis of single-atom cobalt catalysts for efficient oxygen reduction. *Journal of Materials Chemistry A*,	13	4
2	Designing Advanced Aqueous Zinc-Ion Batteries: Principles, Strategies and Perspectives. *Energy and Environmental Materials*,	13	7
1	Emerging Carbonyl Polymers as Sustainable Electrode Materials for Lithium-free Metal-ion Batteries. *Energy and Environmental Materials*,	13	2