Yiyong Mai

List of Publications by Citations

113 papers	7,253 citations	40 h-index	84 g-index
119 ext. papers	8,509 ext. citations	9.4 avg, IF	6.59 L-index

#	Paper	IF	Citations
113	Self-assembly of block copolymers. *Chemical Society Reviews*, **2012**, 41, 5969-85	58.5	2318
112	Two-dimensional soft nanomaterials: a fascinating world of materials. *Advanced Materials*, **2015**, 27, 403-27	24	374
111	Porous carbon nanosheets: Synthetic strategies and electrochemical energy related applications. *Nano Today*, **2019**, 24, 103-119	17.9	241
110	Ultrathin Metal-Organic Framework Nanosheets with Ultrahigh Loading of Single Pt Atoms for Efficient Visible-Light-Driven Photocatalytic H Evolution. *Angewandte Chemie - International Edition*, **2019**, 58, 10198-10203	16.4	239
109	Self-Assembly of Large Multimolecular Micelles from Hyperbranched Star Copolymers. *Macromolecular Rapid Communications*, **2007**, 28, 591-596	4.8	178
108	Patterning two-dimensional free-standing surfaces with mesoporous conducting polymers. *Nature Communications*, **2015**, 6, 8817	17.4	151
107	Controlled incorporation of particles into the central portion of vesicle walls. *Journal of the American Chemical Society*, **2010**, 132, 10078-84	16.4	141
106	Self-assembly of block copolymers towards mesoporous materials for energy storage and conversion systems. *Chemical Society Reviews*, **2020**, 49, 4681-4736	58.5	136
105	Superhydrophobic and superoleophilic graphene aerogel prepared by facile chemical reduction. *Journal of Materials Chemistry A*, **2015**, 3, 7498-7504	13	132
104	Selective localization of preformed nanoparticles in morphologically controllable block copolymer aggregates in solution. *Accounts of Chemical Research*, **2012**, 45, 1657-66	24.3	128
103	Synthesis and Size-Controllable Self-Assembly of a Novel Amphiphilic Hyperbranched Multiarm Copolyether. *Macromolecules*, **2005**, 38, 8679-8686	5.5	119
102	Dual-Template Synthesis of 2D Mesoporous Polypyrrole Nanosheets with Controlled Pore Size. *Advanced Materials*, **2016**, 28, 8365-8370	24	119
101	Multicompartment micelles from hyperbranched star-block copolymers containing polycations and fluoropolymer segment. *Langmuir*, **2007**, 23, 5127-34	4	106
100	Synthesis and supramolecular self-assembly of thermosensitive amphiphilic star copolymers based on a hyperbranched polyether core. *Journal of Polymer Science Part A*, **2008**, 46, 668-681	2.5	95
99	Quantitative Control of Pore Size of Mesoporous Carbon Nanospheres through the Self-Assembly of Diblock Copolymer Micelles in Solution. *Small*, **2016**, 12, 3155-63	11	92
98	Highly Crumpled Hybrids of Nitrogen/Sulfur Dual-Doped Graphene and CoS Nanoplates as Efficient Bifunctional Oxygen Electrocatalysts. *ACS Applied Materials & Interfaces*, **2017**, 9, 12340-12347	9.5	87
97	Honeycomb-structured microporous films made from hyperbranched polymers by the breath figure method. *Langmuir*, **2009**, 25, 173-8	4	84

96	Tunable Self-Assembly of Diblock Copolymers into Colloidal Particles with Triply Periodic Minimal Surfaces. *Angewandte Chemie - International Edition*, **2017**, 56, 7135-7140	16.4	83
95	Bio-based green composites with high performance from poly(lactic acid) and surface-modified microcrystalline cellulose. *Journal of Materials Chemistry*, **2012**, 22, 15732		76
94	Real-time hierarchical self-assembly of large compound vesicles from an amphiphilic hyperbranched multiarm copolymer. *Small*, **2007**, 3, 1170-3	11	75
93	Two-Dimensional Mesoscale-Ordered Conducting Polymers. *Angewandte Chemie - International Edition*, **2016**, 55, 12516-21	16.4	74
92	Controlled Incorporation of Particles into the Central Portion of Block Copolymer Rods and Micelles. *Macromolecules*, **2011**, 44, 3179-3183	5.5	71
91	Poly(ethylene oxide) Functionalized Graphene Nanoribbons with Excellent Solution Processability. *Journal of the American Chemical Society*, **2016**, 138, 10136-9	16.4	63
90	Effect of Reaction Temperature on Degree of Branching in Cationic Polymerization of 3-Ethyl-3-(hydroxymethyl)oxetane. *Macromolecules*, **2003**, 36, 9667-9669	5.5	62
89	Patterning Graphene Surfaces with Iron-Oxide-Embedded Mesoporous Polypyrrole and Derived N-Doped Carbon of Tunable Pore Size. *Small*, **2018**, 14, 1702755	11	61
88	A two-dimensional hybrid with molybdenum disulfide nanocrystals strongly coupled on nitrogen-enriched graphene via mild temperature pyrolysis for high performance lithium storage. *Nanoscale*, **2014**, 6, 14679-85	7.7	59
87	Temperature-Dependent Multidimensional Self-Assembly of Polyphenylene-Based "Rod-Coil" Graft Polymers. *Journal of the American Chemical Society*, **2015**, 137, 11602-5	16.4	57
86	Ultrathin Metal□Organic Framework Nanosheets with Ultrahigh Loading of Single Pt Atoms for Efficient Visible-Light-Driven Photocatalytic H2 Evolution. *Angewandte Chemie*, **2019**, 131, 10304-10309	3.6	56
85	Nitrogen-doped carbon nanosheets and nanoflowers with holey mesopores for efficient oxygen reduction catalysis. *Journal of Materials Chemistry A*, **2018**, 6, 10354-10360	13	55
84	Facile template-free synthesis of vertically aligned polypyrrole nanosheets on nickel foams for flexible all-solid-state asymmetric supercapacitors. *Nanoscale*, **2016**, 8, 8650-7	7.7	55
83	General Interfacial Self-Assembly Engineering for Patterning Two-Dimensional Polymers with Cylindrical Mesopores on Graphene. *Angewandte Chemie - International Edition*, **2019**, 58, 10173-10178	16.4	53
82	Facile synthesis of bowl-shaped nitrogen-doped carbon hollow particles templated by block copolymer □ippah vesicles□for high performance supercapacitors. *Polymer Chemistry*, **2016**, 7, 2092-2098	4.9	52
81	Effect of the Degree of Branching on Atomic-Scale Free Volume in Hyperbranched Poly[3-ethyl-3-(hydroxymethyl)oxetane]. A Positron Study. *Macromolecules*, **2005**, 38, 9644-9649	5.5	51
80	All-organic covalent organic framework/polyaniline composites as stable electrode for high-performance supercapacitors. *Materials Letters*, **2019**, 236, 354-357	3.3	51
79	A Supramolecular-Based Dual-Wavelength Phototherapeutic Agent with Broad-Spectrum Antimicrobial Activity Against Drug-Resistant Bacteria. *Angewandte Chemie - International Edition*, **2020**, 59, 3658-3664	16.4	50

78	Metal-nitrogen doping of mesoporous carbon/graphene nanosheets by self-templating for oxygen reduction electrocatalysts. *ChemSusChem*, **2014**, 7, 3002-6	8.3	49
77	Synthesis of core-shell covalent organic frameworks/multi-walled carbon nanotubes nanocomposite and application in lithium-sulfur batteries. *Materials Letters*, **2018**, 213, 143-147	3.3	49
76	Nitrogen-enriched hierarchically porous carbon materials fabricated by graphene aerogel templated Schiff-base chemistry for high performance electrochemical capacitors. *Polymer Chemistry*, **2015**, 6, 1088-1095	4.9	46
75	Highly oriented macroporous graphene hybrid monoliths for lithium ion battery electrodes with ultrahigh capacity and rate capability. *Nano Energy*, **2015**, 12, 287-295	17.1	45
74	One-Pot Synthesis of Amphiphilic Core□Shell Suprabranched Macromolecules. *Macromolecules*, **2004**, 37, 6264-6267	5.5	43
73	Core-shell nanostructure of single-wall carbon nanotubes and covalent organic frameworks for supercapacitors. *Chinese Chemical Letters*, **2017**, 28, 2269-2273	8.1	40
72	A single-ion conducting hyperbranched polymer as a high performance solid-state electrolyte for lithium ion batteries. *Chemical Communications*, **2019**, 55, 6715-6718	5.8	37
71	Polymer-directed synthesis of metal oxide-containing nanomaterials for electrochemical energy storage. *Nanoscale*, **2014**, 6, 106-21	7.7	36
70	A dual-boron-cored luminogen capable of sensing and imaging. *Chemical Communications*, **2015**, 51, 5298-801	5.8	35
69	Growth of 2D Mesoporous Polyaniline with Controlled Pore Structures on Ultrathin MoS Nanosheets by Block Copolymer Self-Assembly in Solution. *ACS Applied Materials & Interfaces*, **2017**, 9, 43975-43982	9.5	35
68	Two-Dimensional Sandwich-Structured Mesoporous MoC/Carbon/Graphene Nanohybrids for Efficient Hydrogen Production Electrocatalysts. *ACS Applied Materials & Interfaces*, **2018**, 10, 40800-40807	9.5	35
67	Supramolecular Nanostructures of Structurally Defined Graphene Nanoribbons in the Aqueous Phase. *Angewandte Chemie - International Edition*, **2018**, 57, 3366-3371	16.4	34
66	Synthesis and Characterization of Macroporous Photonic Structure that Consists of Azimuthally Shifted Double-Diamond Silica Frameworks. *Chemistry of Materials*, **2014**, 26, 7020-7028	9.6	34
65	Intrinsic Properties of Single Graphene Nanoribbons in Solution: Synthetic and Spectroscopic Studies. *Journal of the American Chemical Society*, **2018**, 140, 10416-10420	16.4	31
64	Synthesis of novel multi-arm star azobenzene side-chain liquid crystalline copolymers with a hyperbranched core. *European Polymer Journal*, **2004**, 40, 1759-1765	5.2	31
63	Two-Dimensional MXene-Polymer Heterostructure with Ordered In-Plane Mesochannels for High-Performance Capacitive Deionization. *Angewandte Chemie - International Edition*, **2021**, 60, 26528-26534	16.4	30
62	Recent advances in the solution self-assembly of amphiphilic □od-coil□ copolymers. *Journal of Polymer Science Part A*, **2017**, 55, 1459-1477	2.5	29
61	Soft-Template Construction of 3D Macroporous Polypyrrole Scaffolds. *Small*, **2017**, 13, 1604099	11	28

60	Multi-Dimensional Self-Assembly of a Dual-Responsive ABC Miktoarm Star Terpolymer. *ACS Macro Letters*, **2017**, 6, 426-430	6.6	28
59	Tunable Superstructures of Dendronized Graphene Nanoribbons in Liquid Phase. *Journal of the American Chemical Society*, **2019**, 141, 10972-10977	16.4	28
58	Cross-linked polymer-derived B/N co-doped carbon materials with selective capture of CO2. *Journal of Materials Chemistry A*, **2015**, 3, 23352-23359	13	27
57	Tunable Self-Assembly of Diblock Copolymers into Colloidal Particles with Triply Periodic Minimal Surfaces. *Angewandte Chemie*, **2017**, 129, 7241-7246	3.6	26
56	Water-Insensitive Synthesis of Poly-Peptides with Defined Architecture. *Angewandte Chemie - International Edition*, **2020**, 59, 7240-7244	16.4	26
55	Synthetic Engineering of Graphene Nanoribbons with Excellent Liquid-Phase Processability. *Trends in Chemistry*, **2019**, 1, 549-558	14.8	26
54	Experimental Observation of Strong Exciton Effects in Graphene Nanoribbons. *Nano Letters*, **2020**, 20, 2993-3002	11.5	24
53	High-performance lithium sulfur batteries based on nitrogen-doped graphitic carbon derived from covalent organic frameworks. *Materials Today Energy*, **2018**, 7, 141-148	7	24
52	Morphological Control in Aggregates of Amphiphilic Cylindrical Metal Polymer Brushes *Macromolecules*, **2013**, 46, 3183-3189	5.5	24
51	Rod oil copolymers get self-assembled in solution. *Materials Chemistry Frontiers*, **2019**, 3, 2283-2307	7.8	21
50	Effect of Side Chains on the Low-Dimensional Self-Assembly of Polyphenylene-Based Rod Coil Graft Copolymers in Solution. *Macromolecules*, **2018**, 51, 161-172	5.5	21
49	Two-Dimensional Interface Engineering of Mesoporous Polydopamine on Graphene for Novel Organic Cathodes. *ACS Applied Energy Materials*, **2019**, 2, 5816-5823	6.1	21
48	Solution Self-Assembly of an Alternating Copolymer toward Hollow Carbon Nanospheres with Uniform Micropores. *ACS Macro Letters*, **2019**, 8, 331-336	6.6	20
47	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. *JPhys Materials*, **2020**, 3, 034009	4.2	20
46	Mesoporous MoC/Carbon Hybrid Nanotubes Synthesized by a Dual-Template Self-Assembly Approach for an Efficient Hydrogen Production Electrocatalyst. *Langmuir*, **2018**, 34, 10924-10931	4	20
45	Quantitative dependence of crystallinity on degree of branching for hyperbranched poly[3-ethyl-3-(hydroxymethyl)oxetane]. *New Journal of Physics*, **2005**, 7, 42-42	2.9	20
44	Ordered Bicontinuous Mesoporous Polymeric Semiconductor Photocatalyst. *ACS Nano*, **2020**, 14, 13652-13662	13.9	19
43	Disk-like micelles with cylindrical pores from amphiphilic polypeptide block copolymers. *Polymer Chemistry*, **2016**, 7, 2815-2820	4.9	18

42	Formation of Diverse Ordered Structures in ABC Triblock Terpolymer Templated Macroporous Silicas. *Macromolecules*, **2018**, 51, 4381-4396	5.5	18
41	Bipolar nitrogen-doped graphene frameworks as high-performance cathodes for lithium ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 1588-1594	13	17
40	Crystallization-Driven Two-Dimensional Self-Assembly of Amphiphilic PCL-b-PEO Coated Gold Nanoparticles in Aqueous Solution. *ACS Macro Letters*, **2018**, 7, 1062-1067	6.6	17
39	A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. *Journal of the American Chemical Society*, **2020**, 142, 18293-18298	16.4	16
38	General Interfacial Self-Assembly Engineering for Patterning Two-Dimensional Polymers with Cylindrical Mesopores on Graphene. *Angewandte Chemie*, **2019**, 131, 10279-10284	3.6	15
37	Degradation of Structurally Defined Graphene Nanoribbons by Myeloperoxidase and the Photo-Fenton Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 18515-18521	16.4	15
36	Preparation and characterization of the crystalline inclusion complexes of □and □cyclodextrins with poly(butylene carbonate). *Colloid and Polymer Science*, **2003**, 281, 267-274	2.4	15
35	Pore Engineering of 2D Mesoporous Nitrogen-Doped Carbon on Graphene through Block Copolymer Self-Assembly. *Advanced Materials Interfaces*, **2019**, 6, 1901476	4.6	15
34	Two-Dimensional Mesoscale-Ordered Conducting Polymers. *Angewandte Chemie*, **2016**, 128, 12704-12709	3.6	13
33	Single-Metal-Atom Polymeric Unimolecular Micelles for Switchable Photocatalytic H 2 Evolution. *CCS Chemistry*, **2021**, 3, 1963-1971	7.2	13
32	The ordered mesoporous carbon coated graphene as a high-performance broadband microwave absorbent. *Carbon*, **2021**, 179, 435-444	10.4	13
31	Double diamond structured bicontinuous mesoporous titania templated by a block copolymer for anode material of lithium-ion battery. *Nano Research*, **2021**, 14, 992-997	10	12
30	Ultra-large sheet formation by 1D to 2D hierarchical self-assembly of a □od□oil□graft copolymer with a polyphenylene backbone. *Polymer Chemistry*, **2016**, 7, 1234-1238	4.9	11
29	Control of pore size in mesoporous silica templated by a multiarm hyperbranched copolyether in water and cosolvent. *Microporous and Mesoporous Materials*, **2008**, 114, 222-228	5.3	10
28	A Supramolecular-Based Dual-Wavelength Phototherapeutic Agent with Broad-Spectrum Antimicrobial Activity Against Drug-Resistant Bacteria. *Angewandte Chemie*, **2020**, 132, 3687-3693	3.6	9
27	Controlled Synthesis of Porous Carbon Nanostructures with Tunable Closed Mesopores via a Silica-Assisted Coassembly Strategy. *CCS Chemistry*, **2021**, 3, 1410-1422	7.2	9
26	Resolving Quinoid Structure in Poly(-phenylene) Chains. *Journal of the American Chemical Society*, **2020**, 142, 10034-10041	16.4	8
25	Poly(ionic liquid)-based polymer composites as high-performance solid-state electrolytes: benefiting from nanophase separation and alternating polymer architecture. *Chemical Communications*, **2020**, 56, 7929-7932	5.8	8

24	Supramolecular Nanostructures of Structurally Defined Graphene Nanoribbons in the Aqueous Phase. *Angewandte Chemie*, **2018**, 130, 3424-3429	3.6	8
23	Multi-template synthesis of hierarchically porous carbon spheres with potential application in supercapacitors. *RSC Advances*, **2016**, 6, 111406-111414	3.7	7
22	Nonplanar Ladder-Type Polycyclic Conjugated Molecules: Structures and Solid-State Properties. *Crystal Growth and Design*, **2015**, 15, 3332-3338	3.5	7
21	Two-Dimensional MXene-Polymer Heterostructure with Ordered In-Plane Mesochannels for High-Performance Capacitive Deionization. *Angewandte Chemie*, **2021**, 133, 26732	3.6	7
20	Bowl-shaped NiCo2O4 nanosheet clusters as electrode materials for high-performance asymmetric supercapacitors. *Science China Materials*, **2020**, 63, 2456-2464	7.1	7
19	Janus quantum dot vesicles generated through membrane fusion. *Materials Chemistry Frontiers*, **2018**, 2, 1040-1045	7.8	6
18	Tunable low-dimensional self-assembly of H-shaped bichromophoric perylenediimide Gemini in solution. *Nanoscale*, **2020**, 12, 3058-3067	7.7	6
17	Porphyrin-Based Conjugated Microporous Polymer Tubes: Template-Free Synthesis and A Photocatalyst for Visible-Light-Driven Thiocyanation of Anilines. *Macromolecules*, **2021**, 54, 3543-3553	5.5	6
16	Emulsion-Guided Controllable Construction of Anisotropic Particles: Droplet Size Determines Particle Structure. *Advanced Materials*, **2021**, 33, e2102930	24	6
15	Multiwavelength Raman spectroscopy of ultranarrow nanoribbons made by solution-mediated bottom-up approach. *Physical Review B*, **2019**, 100,	3.3	5
14	A supramolecular single-site photocatalyst based on multi-to-one Förster resonance energy transfer. *Chemical Communications*, **2021**, 57, 4174-4177	5.8	5
13	Three-dimensional Carbon Nitride/Graphene Framework as a High-Performance Cathode for Lithium-Ion Batteries. *Chemistry - an Asian Journal*, **2016**, 11, 1194-8	4.5	4
12	Graphene nanoribbon-based supramolecular ensembles with dual-receptor targeting function for targeted photothermal tumor therapy. *Chemical Science*, **2021**, 12, 11089-11097	9.4	4
11	Sulfur-Doped Nanographenes Containing Multiple Subhelicenes. *Organic Letters*, **2021**, 23, 2069-2073	6.2	4
10	On-Surface Synthesis of Iron Phthalocyanine Using Metal-Organic Coordination Templates. *ChemPhysChem*, **2019**, 20, 2394-2397	3.2	3
9	Azobenzene-functionalized graphene nanoribbons: bottom-up synthesis, photoisomerization behaviour and self-assembled structures. *Journal of Materials Chemistry C*, **2020**, 8, 10837-10843	7.1	3
8	Bis-Anthracene Fused Porphyrin as an Efficient Photocatalyst: Facile Synthesis and Visible-Light-Driven Oxidative Coupling of Amines. *Chemistry - A European Journal*, **2020**, 26, 16497-16503	4.8	2
7	A π-extended luminogen with colorimetric and off/on fluorescent multi-channel detection for Cu2+ with extremely high selectivity and sensitivity via nonarylamine-based organic mixed valence. *RSC Advances*, **2016**, 6, 76691-76695	3.7	2

6	Near-Infrared Light-Triggered Bacterial Eradication Using a Nanowire Nanocomposite of Graphene Nanoribbons and Chitosan-Coated Silver Nanoparticles. *Frontiers in Chemistry*, **2021**, 9, 767847	5	1
5	Water-Insensitive Synthesis of Poly-Peptides with Defined Architecture. *Angewandte Chemie*, **2020**, 132, 7307-7311	3.6	0
4	Degradation of Structurally Defined Graphene Nanoribbons by Myeloperoxidase and the Photo-Fenton Reaction. *Angewandte Chemie*, **2020**, 132, 18673-18679	3.6	0
3	Fabrication of sulfur-doped cove-edged graphene nanoribbons on Au(111)*. *Chinese Physics B*, **2021**, 30, 077306	1.2	0
2	Block Copolymer Self-Assembly Guided Synthesis of Mesoporous Carbons with In-Plane Holey Pores for Efficient Oxygen Reduction Reaction.. *Macromolecular Rapid Communications*, **2022**, e2100884	4.8	0
1	Two-dimensional electronic spectroscopy of graphene nanoribbons in organic solution. *EPJ Web of Conferences*, **2019**, 205, 05005	0.3	