Jinyin Yuan

List of Publications by Year in descending order

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225	14,326	19657 61	23533 111
papers	citations	h-index	g-index

240	240	240	13791
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Poly(ionic liquid)s: An update. Progress in Polymer Science, 2013, 38, 1009-1036.	24.7	1,110
2	Poly(ionic liquid)s: Polymers expanding classical property profiles. Polymer, 2011, 52, 1469-1482.	3.8	805
3	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. Chemical Reviews, 2020, 120, 9363-9419.	47.7	492
4	An instant multi-responsive porous polymer actuator driven by solvent molecule sorption. Nature Communications, 2014, 5, 4293.	12.8	446
5	Microstructural and Dynamical Heterogeneities in Ionic Liquids. Chemical Reviews, 2020, 120, 5798-5877.	47.7	277
6	Efficient Electrocatalytic Reduction of CO₂ by Nitrogenâ€Đoped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO₂ Refinery. Angewandte Chemie - International Edition, 2017, 56, 7847-7852.	13.8	252
7	Poly(ionic liquid) composites. Chemical Society Reviews, 2020, 49, 1726-1755.	38.1	234
8	Water-soluble organo-silica hybrid nanowires. Nature Materials, 2008, 7, 718-722.	27.5	217
9	Hierarchically Structured Nanoporous Poly(Ionic Liquid) Membranes: Facile Preparation and Application in Fiber-Optic pH Sensing. Journal of the American Chemical Society, 2013, 135, 5549-5552.	13.7	204
10	Ionic Liquid Monomers and Polymers as Precursors of Highly Conductive, Mesoporous, Graphitic Carbon Nanostructures. Chemistry of Materials, 2010, 22, 5003-5012.	6.7	202
11	Nitrogen-Doped Nanoporous Carbon Membranes with Co/CoP Janus-Type Nanocrystals as Hydrogen Evolution Electrode in Both Acidic and Alkaline Environments. ACS Nano, 2017, 11, 4358-4364.	14.6	199
12	A pillar[5]arene/imidazolium [2]rotaxane: solvent- and thermo-driven molecular motions and supramolecular gel formation. Chemical Science, 2014, 5, 247-252.	7.4	196
13	One-dimensional magnetic inorganicâ€“organic hybrid nanomaterials. Chemical Society Reviews, 2011, 40, 640.	38.1	194
14	Thermoresponsive polyelectrolytes derived from ionic liquids. Polymer Chemistry, 2015, 6, 2163-2178.	3.9	184
15	25th Anniversary Article: â€œCooking Carbon with Saltâ€• Carbon Materials and Carbonaceous Frameworks from Ionic Liquids and Poly(ionic liquid)s. Advanced Materials, 2013, 25, 5838-5855.	21.0	177
16	Poly(ionic liquid) Complex with Spontaneous Micro-/Mesoporosity: Template-Free Synthesis and Application as Catalyst Support. Journal of the American Chemical Society, 2012, 134, 11852-11855.	13.7	170
17	In Situ Growth of Catalytic Active Auâ^'Pt Bimetallic Nanorods in Thermoresponsive Coreâ^'Shell Microgels. ACS Nano, 2010, 4, 7078-7086.	14.6	164
18	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. Angewandte Chemie - International Edition, 2018, 57, 12360-12364.	13.8	160

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19	Self-Assembly of Poly(ionic liquid)s: Polymerization, Mesostructure Formation, and Directional Alignment in One Step. Journal of the American Chemical Society, 2011, 133, 17556-17559.	13.7	157
20	Nitrogen-doped porous carbon nanosheets derived from poly(ionic liquid)s: hierarchical pore structures for efficient CO₂capture and dye removal. Journal of Materials Chemistry A, 2016, 4, 7313-7321.	10.3	157
21	Enhanced Carbon Dioxide Adsorption by a Mesoporous Poly(ionic liquid). ACS Macro Letters, 2012, 1, 1028-1031.	4.8	155
22	Poly(ionic liquid) Latexes Prepared by Dispersion Polymerization of Ionic Liquid Monomers. Macromolecules, 2011, 44, 744-750.	4.8	153
23	Thermo-Reversible Formation of Wormlike Micelles with a Microphase-Separated Corona from a Semicrystalline Triblock Terpolymer. Macromolecules, 2008, 41, 3235-3242.	4.8	152
24	Nanoporous ionic organic networks: from synthesis to materials applications. Chemical Society Reviews, 2016, 45, 6627-6656.	38.1	152
25	pH and salt responsive poly(N,N-dimethylaminoethyl methacrylate) cylindrical brushes and their quaternized derivatives. Polymer, 2008, 49, 3957-3964.	3.8	148
26	Synthesis of single-crystal-like nanoporous carbon membranes and their application in overall water splitting. Nature Communications, 2017, 8, 13592.	12.8	142
27	Sensing Solvents with Ultrasensitive Porous Poly(ionic liquid) Actuators. Advanced Materials, 2015, 27, 2913-2917.	21.0	141
28	Linear and Hyperbranched Glycopolymer-Functionalized Carbon Nanotubes:Â Synthesis, Kinetics, and Characterization. Macromolecules, 2007, 40, 1803-1815.	4.8	139
29	Improving Hydrothermal Carbonization by Using Poly(ionic liquid)s. Angewandte Chemie - International Edition, 2013, 52, 6028-6032.	13.8	137
30	Water-Soluble Organoâ"Silica Hybrid Nanotubes Templated by Cylindrical Polymer Brushes. Journal of the American Chemical Society, 2010, 132, 16587-16592.	13.7	131
31	Porous Polyelectrolytes: The Interplay of Charge and Pores for New Functionalities. Angewandte Chemie - International Edition, 2018, 57, 6754-6773.	13.8	122
32	Janus-interface engineering boosting solar steam towards high-efficiency water collection. Energy and Environmental Science, 2021, 14, 5330-5338.	30.8	122
33	One-dimensional organicâ€"inorganic hybrid nanomaterials. Polymer, 2010, 51, 4015-4036.	3.8	121
34	Poly(Ionic Liquid)â€Derived Carbon with Siteâ€Specific Nâ€Doping and Biphasic Heterojunction for Enhanced CO₂ Capture and Sensing. Angewandte Chemie - International Edition, 2017, 56, 7557-7563.	13.8	119
35	Undulated Multicompartment Cylinders by the Controlled and Directed Stacking of Polymer Micelles with a Compartmentalized Corona. Angewandte Chemie - International Edition, 2009, 48, 2877-2880.	13.8	118
36	Cationic Poly(ionic liquid) with Tunable Lower Critical Solution Temperature-Type Phase Transition. ACS Macro Letters, 2013, 2, 456-459.	4.8	114

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37	LCSTâ€Type Phase Behavior Induced by Pillar[5]arene/Ionic Liquid Hostâ€“Guest Complexation. Advanced Materials, 2013, 25, 6864-6867.	21.0	113
38	General Synthetic Route toward Highly Dispersed Metal Clusters Enabled by Poly(ionic liquid)s. Journal of the American Chemical Society, 2017, 139, 8971-8976.	13.7	110
39	Double hydrophilic diblock copolymers containing a poly(ionic liquid) segment: Controlled synthesis, solution property, and application as carbon precursor. European Polymer Journal, 2011, 47, 772-781.	5.4	106
40	All-Poly(ionic liquid) Membrane-Derived Porous Carbon Membranes: Scalable Synthesis and Application for Photothermal Conversion in Seawater Desalination. ACS Nano, 2018, 12, 11704-11710.	14.6	104
41	Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells. Angewandte Chemie - International Edition, 2019, 58, 13466-13471.	13.8	99
42	A General Carboxylateâ€Assisted Approach to Boost the ORR Performance of ZIFâ€Derived Fe/N/C Catalysts for Proton Exchange Membrane Fuel Cells. Advanced Functional Materials, 2021, 31, 2009645.	14.9	98
43	Poly(tetrabutylphosphonium 4-styrenesulfonate): a poly(ionic liquid) stabilizer for graphene being multi-responsive. Polymer Chemistry, 2012, 3, 871.	3.9	90
44	Activated CO₂ Sorption in Mesoporous Imidazolium-Type Poly(ionic liquid)-Based Polyampholytes. Chemistry of Materials, 2013, 25, 3003-3010.	6.7	88
45	When Nanoparticles Meet Poly(Ionic Liquid)s: Chemoresistive CO₂ Sensing at Room Temperature. Advanced Functional Materials, 2015, 25, 2537-2542.	14.9	85
46	Functional mesoporous poly(ionic liquid)-based copolymer monoliths: From synthesis to catalysis and microporous carbon production. Polymer, 2014, 55, 3423-3430.	3.8	82
47	Heterophase Photocatalysts from Waterâ€Soluble Conjugated Polyelectrolytes: An Example of Selfâ€Initiation under Visible Light. Angewandte Chemie - International Edition, 2015, 54, 14549-14553.	13.8	80
48	Nitrogen-doped carbon fibers and membranes by carbonization of electrospun poly(ionic liquid)s. Polymer Chemistry, 2011, 2, 1654.	3.9	79
49	Efficient Electrocatalytic Reduction of CO₂ by Nitrogenâ€Doped Nanoporous Carbon/Carbon Nanotube Membranes: A Step Towards the Electrochemical CO₂ Refinery. Angewandte Chemie, 2017, 129, 7955-7960.	2.0	78
50	Telechelic Hybrid Poly(acrylic acid)s Containing Polyhedral Oligomeric Silsesquioxane (POSS) and Their Self-Assembly in Water. Macromolecules, 2011, 44, 6891-6898.	4.8	73
51	Double Stimuli-Responsive Copolymer Stabilizers for Multiwalled Carbon Nanotubes. ACS Macro Letters, 2012, 1, 84-87.	4.8	72
52	Ionic Liquids and Poly(ionic liquid)s for Morphosynthesis of Inorganic Materials. Chemistry - A European Journal, 2017, 23, 5391-5403.	3.3	72
53	Thiazolium Poly(ionic liquid)s: Synthesis and Application as Binder for Lithium-Ion Batteries. ACS Macro Letters, 2015, 4, 1312-1316.	4.8	70
54	Hybrids of Magnetic Nanoparticles with Doubleâ€Hydrophilic Core/Shell Cylindrical Polymer Brushes and Their Alignment in a Magnetic Field. Advanced Functional Materials, 2010, 20, 4182-4189.	14.9	69

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55	Spherical polymer brushes with vinylimidazolium-type poly(ionic liquid) chains as support for metallic nanoparticles. Polymer, 2012, 53, 43-49.	3.8	69
56	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	2.2	69
57	Manipulating cylindrical polyelectrolyte brushes on the nanoscale by counterions: collapse transition to helical structures. Soft Matter, 2009, 5, 379-384.	2.7	68
58	A hybrid porous material from a pillar[5]arene and a poly(ionic liquid): selective adsorption of n-alkylene diols. Chemical Communications, 2014, 50, 2595.	4.1	68
59	Internal Morphology-Controllable Self-Assembly in Poly(Ionic Liquid) Nanoparticles. ACS Nano, 2016, 10, 7731-7737.	14.6	64
60	Stimuli-Responsive Organosilica Hybrid Nanowires Decorated with Metal Nanoparticles. Chemistry of Materials, 2010, 22, 2626-2634.	6.7	63
61	In situ Î¼-printed optical fiber-tip CO2 sensor using a photocrosslinkable poly(ionic liquid). Sensors and Actuators B: Chemical, 2018, 259, 833-839.	7.8	62
62	Poly(ionic liquid) colloidal particles. Current Opinion in Colloid and Interface Science, 2014, 19, 76-83.	7.4	61
63	Preparation and characterization of polymer-capped CdS nanocrystals. Journal of Physics and Chemistry of Solids, 2003, 64, 455-458.	4.0	60
64	Biomimetic Mussel Adhesive Inspired Clickable Anchors Applied to the Functionalization of Fe₃O₄ Nanoparticles. Macromolecular Rapid Communications, 2010, 31, 1608-1615.	3.9	60
65	Synthesis, characterization, and bulk crosslinking of polybutadiene-block-poly(2-vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342	3.8	60
66	A novel polymeric precursor for micro/mesoporous nitrogen-doped carbons. Journal of Materials Chemistry A, 2013, 1, 5113.	10.3	60
67	Click-based porous cationic polymers for enhanced carbon dioxide capture. Journal of Materials Chemistry A, 2017, 5, 372-383.	10.3	60
68	Mesoporous nitrogen-doped carbon for copper-mediated Ullmann-type Câ€“O/â€“N/â€“S cross-coupling reactions. RSC Advances, 2013, 3, 1890-1895.	3.6	59
69	Doubleâ€Stimuliâ€Responsive Spherical Polymer Brushes with a Poly(ionic liquid) Core and a Thermoresponsive Shell. Macromolecular Rapid Communications, 2013, 34, 1721-1727.	3.9	57
70	Vacancyâ€Rich MXeneâ€Immobilized Ni Single Atoms as a Highâ€Performance Electrocatalyst for the Hydrazine Oxidation Reaction. Advanced Materials, 2022, 34, .	21.0	57
71	Cadmium selenide nanowires within coreâ€“shell cylindrical polymer brushes: Synthesis, characterization and the double-loading process. Polymer, 2008, 49, 1547-1554.	3.8	56
72	Doubleâ€Grafted Cylindrical Brushes: Synthesis and Characterization of Poly(lauryl methacrylate) Brushes. Macromolecular Chemistry and Physics, 2007, 208, 1666-1675.	2.2	53

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73	Template-Directed Synthesis of Hybrid Titania Nanowires within Coreâ^'Shell Bishydrophilic Cylindrical Polymer Brushes. Chemistry of Materials, 2009, 21, 4146-4154.	6.7	53
74	Roomâ€Temperature Growth of Uniform Tellurium Nanorods and the Assembly of Tellurium or Fe₃O₄ Nanoparticles on the Nanorods. Advanced Materials, 2008, 20, 947-952.	21.0	52
75	Hierarchically Arranged Helical Fiber Actuators Derived from Commercial Cloth. Advanced Materials, 2017, 29, 1605103.	21.0	51
76	One-pot synthesis of an ionic porous organic framework for metal-free catalytic CO2 fixation under ambient conditions. Chemical Engineering Journal, 2018, 350, 867-871.	12.7	51
77	Low fractions of ionic liquid or poly(ionic liquid) can activate polysaccharide biomass into shaped, flexible and fire-retardant porous carbons. Journal of Materials Chemistry A, 2013, 1, 11887.	10.3	49
78	Organic acids can crosslink poly(ionic liquid)s into mesoporous polyelectrolyte complexes. Polymer Chemistry, 2013, 4, 2432.	3.9	49
79	Nitrogen-Doped Carbon Electrodes: Influence of Microstructure and Nitrogen Configuration on the Electrical Conductivity of Carbonized Polyacrylonitrile and Poly(ionic liquid) Blends. Macromolecular Chemistry and Physics, 2015, 216, 1930-1944.	2.2	49
80	Alignment of Tellurium Nanorods via a Magnetizationâ^'Alignmentâ^' Demagnetization (â€œMADâ€) Process Assisted by an External Magnetic Field. ACS Nano, 2009, 3, 1441-1450.	14.6	48
81	Thermodynamic Description of the LCST of Charged Thermoresponsive Copolymers. Macromolecules, 2014, 47, 2096-2102.	4.8	47
82	Thermoresponsive polymerized gemini dicationic ionic liquid. Polymer Chemistry, 2014, 5, 3719.	3.9	47
83	Poly(ionic liquid)s: Platform for CO2 capture and catalysis. Current Opinion in Green and Sustainable Chemistry, 2019, 16, 39-46.	5.9	47
84	Tuning the Pore Size in Gradient Poly(ionic liquid) Membranes by Small Organic Acids. ACS Macro Letters, 2015, 4, 39-42.	4.8	46
85	Lightweight, Room-Temperature CO₂ Gas Sensor Based on Rare-Earth Metal-Free Compositesâ€"An Impedance Study. ACS Applied Materials & Interfaces, 2017, 9, 25553-25558.	8.0	46
86	Poly(Ionic Liquid)-Derived Graphitic Nanoporous Carbon Membrane Enables Superior Supercapacitive Energy Storage. ACS Nano, 2019, 13, 10261-10271.	14.6	46
87	Polyelectrolyte as Solvent and Reaction Medium. Journal of the American Chemical Society, 2014, 136, 12-15.	13.7	45
88	Mesoporous zwitterionic poly(ionic liquid)s: intrinsic complexation and efficient catalytic fixation of CO2. Polymer Chemistry, 2013, 4, 5048.	3.9	44
89	Conducting, Self-Assembled, Nacre-Mimetic Polymer/Clay Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 15681-15685.	8.0	44
90	Flexible and Actuating Nanoporous Poly(Ionic Liquid)â€"Paper-Based Hybrid Membranes. ACS Applied Materials & Interfaces, 2017, 9, 15148-15155.	8.0	44

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91	Lower critical solution temperature (LCST) phase behaviour of an ionic liquid and its control by supramolecular hostâ€“guest interactions. Chemical Communications, 2016, 52, 7970-7973.	4.1	43
92	Structure-Tunable Bidirectional Hybrid Nanowires via Multicompartment Cylinders. Nano Letters, 2009, 9, 2026-2030.	9.1	42
93	Innovative polyelectrolytes/poly(ionic liquid)s for energy and the environment. Polymer International, 2017, 66, 1119-1128.	3.1	42
94	Main-chain poly(ionic liquid)-derived nitrogen-doped micro/mesoporous carbons for CO 2 capture and selective aerobic oxidation of alcohols. Applied Materials Today, 2017, 7, 159-168.	4.3	42
95	Porous polycarbene-bearing membrane actuator for ultrasensitive weak-acid detection and real-time chemical reaction monitoring. Nature Communications, 2018, 9, 1717.	12.8	42
96	Ionic organic cage-encapsulating phase-transferable metal clusters. Chemical Science, 2019, 10, 1450-1456.	7.4	42
97	Microporous organic polymers as CO2 adsorbents: advances and challenges. Materials Today Advances, 2020, 6, 100052.	5.2	42
98	Crosslinked Poly(ionic liquid) Nanoparticles: Inner Structure, Size, and Morphology. Macromolecular Rapid Communications, 2012, 33, 646-651.	3.9	41
99	Organic/inorganic hybrid star-shaped block copolymers of poly(l-lactide) and poly(N-isopropylacrylamide) with a polyhedral oligomeric silsesquioxane core: Synthesis and self-assembly. European Polymer Journal, 2012, 48, 720-729.	5.4	40
100	Novel polyvinylimidazolium nanoparticles as high-performance binders for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 7229-7234.	10.3	39
101	A tale of two membranes: from poly (ionic liquid) to metalâ€“organic framework hybrid nanoporous membranesviapseudomorphic replacement. Materials Horizons, 2017, 4, 681-687.	12.2	39
102	Poly(ionic liquid)s with engineered nanopores for energy and environmental applications. Polymer, 2020, 202, 122640.	3.8	39
103	Towards nanoscale composite particles of dual complexity. Journal of Colloid and Interface Science, 2011, 355, 115-123.	9.4	38
104	Controlled radical polymerization and in-depth mass-spectrometric characterization of poly(ionic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.9	38
105	Nitrogenâ€Doped Carbon Capsules via Poly(ionic liquid)â€Based Layerâ€byâ€Layer Assembly. Macromolecular Rapid Communications, 2012, 33, 1149-1153.	3.9	37
106	Poly(ionic liquid)-derived nitrogen-doped hollow carbon spheres: synthesis and loading with Fe2O3 for high-performance lithium ion batteries. RSC Advances, 2013, 3, 7979.	3.6	37
107	Poly(ionic liquid)-derived nanoporous carbon analyzed by combination of gas physisorption and small-angle neutron scattering. Carbon, 2015, 82, 425-435.	10.3	37
108	Synthesis of Dispersible Mesoporous Nitrogen-Doped Hollow Carbon Nanoplates with Uniform Hexagonal Morphologies for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 29628-29636.	8.0	37

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109	Harnessing Poly(ionic liquid)s for Sensing Applications. Macromolecular Rapid Communications, 2016, 37, 1106-1115.	3.9	37
110	Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. Angewandte Chemie - International Edition, 2020, 59, 22109-22116.	13.8	37
111	Iron Nitride and Carbide: from Crystalline Nanoparticles to Stable Aqueous Dispersions. Chemistry of Materials, 2012, 24, 2716-2721.	6.7	36
112	Water Dispersible, Highly Graphitic and Nitrogenâ€Doped Carbon Nanobubbles. Small, 2013, 9, 4135-4141.	10.0	36
113	Omnidispersible poly(ionic liquid)-functionalized cellulose nanofibrils: surface grafting and polymer membrane reinforcement. Chemical Communications, 2014, 50, 12486-12489.	4.1	35
114	Poly(ionic liquid) binders as Li⁺ conducting mediators for enhanced electrochemical performance. RSC Advances, 2015, 5, 85517-85522.	3.6	35
115	Programmable Actuation of Porous Poly(Ionic Liquid) Membranes by Aligned Carbon Nanotubes. Advanced Materials Interfaces, 2017, 4, 1600768.	3.7	35
116	A Cationâ€Methyleneâ€Phenyl Sequence Encodes Programmable Poly(Ionic Liquid) Coacervation and Robust Underwater Adhesion. Advanced Functional Materials, 2022, 32, 2105464.	14.9	35
117	Poly(1â€Vinylâ€1,2,4â€triazolium) Poly(Ionic Liquid)s: Synthesis and the Unique Behavior in Loading Metal Ions. Macromolecular Rapid Communications, 2016, 37, 1124-1129.	3.9	34
118	Poly(ionic liquid)â€Mediated Morphogenesis of Bismuth Sulfide with a Tunable Band Gap and Enhanced Electrocatalytic Properties. Angewandte Chemie - International Edition, 2016, 55, 12812-12816.	13.8	34
119	Porous Carbon Membraneâ€Supported Atomically Dispersed Pyrroleâ€Type Feï£¿N₄ as Active Sites for Electrochemical Hydrazine Oxidation Reaction. Small, 2020, 16, e2002203.	10.0	34
120	Molecular Dynamics and Charge Transport in Highly Conductive Polymeric Ionic Liquids. Macromolecules, 2017, 50, 4022-4029.	4.8	33
121	Poly(ionic liquid) Core Turns Hollow Silica Spheres into Amphiphilic Nanoreactor in Water. Chemistry of Materials, 2015, 27, 127-132.	6.7	32
122	Atomically Dispersed Semimetallic Selenium on Porous Carbon Membrane as an Electrode for Hydrazine Fuel Cells. Angewandte Chemie, 2019, 131, 13600-13605.	2.0	32
123	Long-term stable poly(ionic liquid)/MWCNTs inks enable enhanced surface modification for electrooxidative detection and quantification of dsDNA. Polymer, 2019, 168, 95-103.	3.8	32
124	A cationitrile sequence encodes mild poly(ionic liquid) crosslinking for advanced composite membranes. Materials Horizons, 2020, 7, 2683-2689.	12.2	32
125	Porous Membranes Built Up from Hydrophilic Poly(ionic liquid)s. Macromolecular Rapid Communications, 2015, 36, 2176-2180.	3.9	30
126	Largeâ€Area Crystalline Zeolitic Imidazolate Framework Thin Films. Angewandte Chemie - International Edition, 2021, 60, 14124-14130.	13.8	30

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127	Covalent Cross-Linking of Porous Poly(ionic liquid) Membrane via a Triazine Network. ACS Macro Letters, 2017, 6, 1-5.	4.8	29
128	Wormlike Morphology Formation and Stabilization of â€œPluronic P123â€•Micelles by Solubilization of Pentaerythritol Tetraacrylate. Journal of Physical Chemistry B, 2008, 112, 8879-8883.	2.6	28
129	Construction of a pillar[6]arene based water-soluble supramolecular pseudopolyrotaxane driven by cucurbit[8]uril-enhanced Ï€â€“Ï€ interaction. Chemical Communications, 2016, 52, 12510-12512.	4.1	28
130	Polymerized Ionic Liquid as Stabilizer in Aqueous Emulsion Polymerization Enables a Hydrophilicâ€“Hydrophobic Transition during Film Formation. Macromolecular Rapid Communications, 2013, 34, 665-671.	3.9	27
131	From Filter Paper to Functional Actuator by Poly(Ionic Liquid)â€Modified Graphene Oxide. Advanced Materials Interfaces, 2016, 3, 1500743.	3.7	27
132	Poly(Ionic Liquid)â€Derived Carbon with Siteâ€Specific Nâ€Doping and Biphasic Heterojunction for Enhanced CO₂ Capture and Sensing. Angewandte Chemie, 2017, 129, 7665-7671.	2.0	27
133	Crosslinking of a Single Poly(ionic liquid) by Water into Porous Supramolecular Membranes. Angewandte Chemie - International Edition, 2020, 59, 17187-17191.	13.8	27
134	Poly(ionic liquid)â€Armored MXene Membrane: Interlayer Engineering for Facilitated Water Transport. Angewandte Chemie - International Edition, 2022, 61, e202202515.	13.8	27
135	Precise Micropatterning of a Porous Poly(ionic liquid) via Maskless Photolithography for High-Performance Nonenzymatic H₂O₂ Sensing. ACS Nano, 2018, 12, 12551-12557.	14.6	26
136	â€œMix-Then-On-Demand-Complexâ€• In Situ Cascade Anionization and Complexation of Graphene Oxide for High-Performance Nanofiltration Membranes. ACS Nano, 2021, 15, 4440-4449.	14.6	26
137	Single-molecular hybrid nano-cylinders: Attaching polyhedral oligomeric silsesquioxane covalently to poly(glycidyl methacrylate) cylindrical brushes. Polymer, 2009, 50, 5933-5939.	3.8	25
138	From wood to thin porous carbon membrane: Ancient materials for modern ultrafast electrochemical capacitors in alternating current line filtering. Energy Storage Materials, 2021, 35, 327-333.	18.0	25
139	Advanced Heteroatom-Doped Porous Carbon Membranes Assisted by Poly(ionic liquid) Design and Engineering. Accounts of Materials Research, 2020, 1, 16-29.	11.7	24
140	The Colloidal Stabilization of Carbon with Carbon: Carbon Nanobubbles as both Dispersant and Glue for Carbon Nanotubes. Angewandte Chemie - International Edition, 2014, 53, 1062-1066.	13.8	23
141	Polyvinylpyridinium-type gradient porous membranes: synthesis, actuation and intrinsic cell growth inhibition. Polymer Chemistry, 2015, 6, 4855-4858.	3.9	23
142	Poly(ionic liquid)â€Derived Nâ€Doped Carbons with Hierarchical Porosity for Lithiumâ€and Sodiumâ€Ion Batteries. Macromolecular Rapid Communications, 2019, 40, e1800545.	3.9	23
143	Synthesis of porous polymer/tissue paper hybrid membranes for switchable oil/water separation. Scientific Reports, 2017, 7, 3101.	3.3	21
144	Fully Biobased Photothermal Films and Coatings for Indoor Ultraviolet Radiation and Heat Management. ACS Applied Materials & Interfaces, 2022, 14, 12693-12702.	8.0	21

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145	Mainâ€Chain Polyimidazolium Polymers by Oneâ€Pot Synthesis and Application as Nitrogenâ€Doped Carbon Precursors. Macromolecular Chemistry and Physics, 2017, 218, 1600586.	2.2	19
146	â€œCooking carbon in a solid saltâ€: Synthesis of porous heteroatom-doped carbon foams for enhanced organic pollutant degradation under visible light. Applied Materials Today, 2018, 12, 168-176.	4.3	19
147	Multitasking tartaric-acid-enabled, highly conductive, and stable MXene/conducting polymer composite for ultrafast supercapacitor. Cell Reports Physical Science, 2021, 2, 100449.	5.6	19
148	Synthesis of monodispersed CdSe nanocrystals in poly(styrene-alt-maleic anhydride) at room temperature. Materials Research Bulletin, 2003, 38, 1359-1366.	5.2	18
149	Poly(ethylene oxide)-b-poly(3-sulfopropyl methacrylate) Block Copolymers for Calcium Phosphate Mineralization and Biofilm Inhibition. Biomacromolecules, 2014, 15, 3901-3914.	5.4	18
150	Thermo-sensitive Microgels Supported Gold Nanoparticles as Temperature-mediated Catalyst. Chinese Journal of Polymer Science (English Edition), 2019, 37, 235-242.	3.8	18
151	Nano-confinement-inspired metal organic framework/polymer composite separation membranes. Journal of Materials Chemistry A, 2020, 8, 17212-17218.	10.3	18
152	Poly(ionic liquid) Nanovesicle-Templated Carbon Nanocapsules Functionalized with Uniform Iron Nitride Nanoparticles as Catalytic Sulfur Host for Liâ€“S Batteries. ACS Nano, 2022, 16, 10554-10565.	14.6	18
153	Diversified Applications of Chemically Modified 1,2â€Polybutadiene. Macromolecular Rapid Communications, 2011, 32, 1157-1162.	3.9	17
154	Crosslinked 1,2,4-triazolium-type poly(ionic liquid) nanoparticles. Polymer, 2016, 107, 509-516.	3.8	17
155	Organic Moleculeâ€Driven Polymeric Actuators. Macromolecular Rapid Communications, 2019, 40, e1800896.	3.9	17
156	A transport channel-regulated MXene membrane via organic phosphonic acids for efficient water permeation. Chemical Communications, 2021, 57, 6245-6248.	4.1	17
157	Generation Pathway of Hydroxyl Radical in Fe/N/C-Based Oxygen Reduction Electrocatalysts under Acidic Media. Journal of Physical Chemistry Letters, 2021, 12, 7797-7803.	4.6	17
158	A Mild CO₂ Etching Method To Tailor the Pore Structure of Platinum-Free Oxygen Reduction Catalysts in Proton Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2021, 13, 45661-45669.	8.0	17
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