

Yuezhong Meng

List of Publications by Year in descending order

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183
papers

7,865
citations

47006

47
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66911

78
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184
all docs

184
docs citations

184
times ranked

8333
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer electrolytes for lithium polymer batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10038-10069.	10.3	1,048
2	Polymer-Based Solid Electrolytes: Material Selection, Design, and Application. <i>Advanced Functional Materials</i> , 2021, 31, 2007598.	14.9	164
3	Synthesis and properties of CO ₂ -based plastics: Environmentally-friendly, energy-saving and biomedical polymeric materials. <i>Progress in Polymer Science</i> , 2018, 80, 163-182.	24.7	162
4	Single-ion conducting gel polymer electrolytes: design, preparation and application. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1557-1577.	10.3	154
5	Structural characterization and thermal and mechanical properties of poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Technology, 2006, 66, 913-918.	7.8	149
6	Sulfur-rich polymeric materials with semi-interpenetrating network structure as a novel lithium-sulfur cathode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9280.	10.3	149
7	In Situ Preparation of Thin and Rigid COF Film on Li Anode as Artificial Solid Electrolyte Interphase Layer Resisting Li Dendrite Puncture. <i>Advanced Functional Materials</i> , 2020, 30, 1907717.	14.9	136
8	Novel Hierarchically Porous Carbon Materials Obtained from Natural Biopolymer as Host Matrixes for Lithium-Sulfur Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13174-13182.	8.0	133
9	Effective Suppression of Lithium Dendrite Growth Using a Flexible Single-Ion Conducting Polymer Electrolyte. <i>Small</i> , 2018, 14, e1801420.	10.0	129
10	Nonflammable organic electrolytes for high-safety lithium-ion batteries. <i>Energy Storage Materials</i> , 2020, 32, 425-447.	18.0	127
11	Highly effective synthesis of dimethyl carbonate from methanol and carbon dioxide using a novel copper-nickel/graphite bimetallic nanocomposite catalyst. <i>Chemical Engineering Journal</i> , 2009, 147, 287-296.	12.7	116
12	Synthesis and characterization of novel sulfonated poly(arylene thioether) ionomers for vanadium redox flow battery applications. <i>Energy and Environmental Science</i> , 2010, 3, 622-628.	30.8	115
13	Membranes from Poly(aryl ether)-Based Ionomers Containing Randomly Distributed Nanoclusters of 6 or 12 Sulfonic Acid Groups. <i>Macromolecules</i> , 2009, 42, 1153-1160.	4.8	111
14	Sulfonic Acid-Functionalized β -Zirconium Phosphate Single-Layer Nanosheets as a Strong Solid Acid for Heterogeneous Catalysis Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7417-7425.	8.0	107
15	Polymers for high performance Li-S batteries: Material selection and structure design. <i>Progress in Polymer Science</i> , 2019, 89, 19-60.	24.7	103
16	Graphene-encapsulated sulfur (GES) composites with a core-shell structure as superior cathode materials for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15142.	10.3	102
17	Proton exchange membranes for high temperature proton exchange membrane fuel cells: Challenges and perspectives. <i>Journal of Power Sources</i> , 2022, 533, 231386.	7.8	99
18	Nearly 100% internal phosphorescence efficiency in a polymer light-emitting diode using a new iridium complex phosphor. <i>Journal of Materials Chemistry</i> , 2008, 18, 1636.	6.7	98

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19	TiO ₂ -Doped CeO ₂ Nanorod Catalyst for Direct Conversion of CO ₂ and CH ₃ OH to Dimethyl Carbonate: Catalytic Performance and Kinetic Study. ACS Omega, 2018, 3, 198-207.	3.5	89
20	Sulfur@graphene oxide core-shell particles as a rechargeable lithium-sulfur battery cathode material with high cycling stability and capacity. RSC Advances, 2013, 3, 4914.	3.6	88
21	A Robust PtNi Nanoframe/Doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. Angewandte Chemie - International Edition, 2021, 60, 9590-9597.	13.8	88
22	Mesoporous carbon materials prepared from litchi shell as sulfur encapsulator for lithium-sulfur battery application. Journal of Power Sources, 2016, 324, 547-555.	7.8	83
23	Catalytic materials for direct synthesis of dimethyl carbonate (DMC) from CO ₂ . Journal of Cleaner Production, 2021, 279, 123344.	9.3	81
24	A Novel Single-Ion-Conducting Polymer Electrolyte Derived from CO ₂ -Based Multifunctional Polycarbonate. ACS Applied Materials & Interfaces, 2016, 8, 33642-33648.	8.0	80
25	Sulfonated poly(fluorenyl ether ketone) membrane prepared via direct polymerization for PEM fuel cell application. Journal of Membrane Science, 2006, 280, 433-441.	8.2	76
26	Quaternized poly(arylene ether) ionomers containing triphenyl methane groups for alkaline anion exchange membranes. Journal of Materials Chemistry A, 2013, 1, 4324.	10.3	74
27	Ionically cross-linked PEDOT:PSS as a multi-functional conductive binder for high-performance lithium-sulfur batteries. Sustainable Energy and Fuels, 2018, 2, 1574-1581.	4.9	74
28	Direct synthesis of DMC from CH ₃ OH and CO ₂ over V-doped Cu-Ni/AC catalysts. Catalysis Communications, 2009, 10, 1142-1145.	3.3	66
29	Nonstrained γ -Butyrolactone to High-Molecular-Weight Poly(γ -butyrolactone): Facile Bulk Polymerization Using Economical Ureas/Alkoxides. Macromolecules, 2018, 51, 9317-9322.	4.8	66
30	Single-ion conducting artificial solid electrolyte interphase layers for dendrite-free and highly stable lithium metal anodes. Journal of Materials Chemistry A, 2019, 7, 13113-13119.	10.3	66
31	Comprehensive evaluation of safety performance and failure mechanism analysis for lithium sulfur pouch cells. Energy Storage Materials, 2020, 30, 87-97.	18.0	65
32	Highly safe lithium-ion batteries: High strength separator from polyformaldehyde/cellulose nanofibers blend. Journal of Power Sources, 2018, 400, 502-510.	7.8	64
33	Designing Supported Ionic Liquids (ILs) within Inorganic Nanosheets for CO ₂ Capture Applications. ACS Applied Materials & Interfaces, 2016, 8, 5547-5555.	8.0	63
34	Organic liquid electrolytes in Li-S batteries: actualities and perspectives. Energy Storage Materials, 2021, 34, 128-147.	18.0	63
35	Hierarchical Fe ₂ O ₃ @CNF fabric decorated with MoS ₂ nanosheets as a robust anode for flexible lithium-ion batteries exhibiting ultrahigh areal capacity. Journal of Materials Chemistry A, 2018, 6, 16890-16899.	10.3	61
36	Fully alternating sustainable polyesters from epoxides and cyclic anhydrides: economical and metal-free dual catalysis. Green Chemistry, 2019, 21, 2469-2477.	9.0	61

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37	Lithium (4-styrenesulfonyl) (trifluoromethanesulfonyl) imide based single-ion polymer electrolyte with superior battery performance. <i>Energy Storage Materials</i> , 2020, 24, 579-587.	18.0	61
38	Ultrastrong and Heat-Resistant Poly(ether ether ketone) Separator for Dendrite-Proof and Heat-Resistant Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 3886-3895.	5.1	60
39	Network type sp ³ boron-based single-ion conducting polymer electrolytes for lithium ion batteries. <i>Journal of Power Sources</i> , 2017, 360, 98-105.	7.8	59
40	Layer-by-layer self-assembly of PDDA/PSS-SPFEK composite membrane with low vanadium permeability for vanadium redox flow battery. <i>RSC Advances</i> , 2013, 3, 15467.	3.6	54
41	Effectively suppressing vanadium permeation in vanadium redox flow battery application with modified Nafion membrane with nacre-like nanoarchitectures. <i>Journal of Power Sources</i> , 2017, 352, 111-117.	7.8	54
42	Strategies for inhibiting anode dendrite growth in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4629-4646.	10.3	54
43	Novel Cu-Fe bimetal catalyst for the formation of dimethyl carbonate from carbon dioxide and methanol. <i>RSC Advances</i> , 2012, 2, 6831.	3.6	53
44	Mechanism studies of terpolymerization of phthalic anhydride, propylene epoxide, and carbon dioxide catalyzed by ZnGa. <i>RSC Advances</i> , 2014, 4, 9503-9508.	3.6	52
45	Influence of side chain length and bifurcation point on the crystalline structure and charge transport of diketopyrrolopyrrole-quaterthiophene copolymers (PDQTs). <i>Journal of Materials Chemistry C</i> , 2014, 2, 2183-2190.	5.5	51
46	Metal-Free Approach for a One-Pot Construction of Biodegradable Block Copolymers from Epoxides, Phthalic Anhydride, and CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17860-17867.	6.7	51
47	Cerium oxide-based catalysts made by template-precipitation for the dimethyl carbonate synthesis from Carbon dioxide and methanol. <i>Journal of Cleaner Production</i> , 2015, 103, 847-853.	9.3	49
48	Preparation and properties of biodegradable blend containing poly (propylene carbonate) and starch acetate with different degrees of substitution. <i>Carbohydrate Polymers</i> , 2011, 86, 1260-1265.	10.2	48
49	Immobilization of Ionic Liquids in Layered Compounds via Mechanochemical Intercalation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5509-5514.	3.1	47
50	Is a polymer semiconductor having a "perfect" regular structure desirable for organic thin film transistors?. <i>Chemical Science</i> , 2015, 6, 3225-3235.	7.4	47
51	A novel epoxy resin-based cathode binder for low cost, long cycling life, and high-energy lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14315-14323.	10.3	47
52	Solid Acid Catalyst Based on Single-Layer Î±-Zirconium Phosphate Nanosheets for Biodiesel Production via Esterification. <i>Catalysts</i> , 2018, 8, 17.	3.5	47
53	Recent progress in dimethyl carbonate synthesis using different feedstock and techniques in the presence of heterogeneous catalysts. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 363-421.	12.9	47
54	Carbon felt interlayer derived from rice paper and its synergistic encapsulation of polysulfides for lithium-sulfur batteries. <i>Applied Surface Science</i> , 2018, 441, 914-922.	6.1	46

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55	Specially designed carbon black nanoparticle-sulfur composite cathode materials with a novel structure for lithium-sulfur battery application. <i>Journal of Power Sources</i> , 2015, 285, 478-484.	7.8	45
56	CO ₂ Nanoenrichment and Nanoconfinement in Cage of Imine Covalent Organic Frameworks for High-Performance CO ₂ Cathodes in Li- ⁺ CO ₂ Batteries. <i>Small</i> , 2019, 15, e1904830.	10.0	45
57	Colored Poly(arylene ether)s Containing Benzoylenebenzimidazole, Phthaloperinone, and Phthalocyanine Moieties. <i>Macromolecules</i> , 2000, 33, 9185-9191.	4.8	44
58	A high ion-conducting, self-healing and nonflammable polymer electrolyte with dynamic imine bonds for dendrite-free lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 131224.	12.7	44
59	Layered zirconium phosphate sulfophenylphosphonates reinforced sulfonated poly (fluorenyl ether) Tj ETQq1 1 0.784314 rgBT /Overl of Membrane Science, 2013, 443, 19-27.	8.2	42
60	Electrostatic shield effect: an effective way to suppress dissolution of polysulfide anions in lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15938-15944.	10.3	42
61	Synergetic Covalent and Spatial Confinement of Sulfur Species by Phthalazinone-Containing Covalent Triazine Frameworks for Ultrahigh Performance of Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8296-8305.	8.0	42
62	Ultrahigh Li-ion conductive single-ion polymer electrolyte containing fluorinated polysulfonamide for quasi-solid-state Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24251-24261.	10.3	41
63	A novel biodegradable polymeric surfactant synthesized from carbon dioxide, maleic anhydride and propylene epoxide. <i>Polymer Chemistry</i> , 2015, 6, 2076-2083.	3.9	40
64	A proton exchange membrane fabricated from a chemically heterogeneous nonwoven with sandwich structure by the program-controlled co-electrospinning process. <i>Chemical Communications</i> , 2012, 48, 3415.	4.1	39
65	Derivatization of diamondoids for functional applications. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6947-6961.	5.5	39
66	Novel polyaromatic ionomers with large hydrophilic domain and long hydrophobic chain targeting at highly proton conductive and stable membranes. <i>Journal of Materials Chemistry</i> , 2011, 21, 12068.	6.7	38
67	A Review on Sulfonated Polymer Composite/Organic-Inorganic Hybrid Membranes to Address Methanol Barrier Issue for Methanol Fuel Cells. <i>Nanomaterials</i> , 2019, 9, 668.	4.1	38
68	Design of dental implants at materials level: An overview. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1634-1661.	4.0	38
69	Pseudocapacitive Sodium Storage by Ferroelectric Sn ₂ P ₂ S ₆ with Layered Nanostructure. <i>Small</i> , 2018, 14, e1704367.	10.0	37
70	Sulfonated poly(fluorenyl ether ketone)/Sulfonated β -zirconium phosphate Nanocomposite membranes for proton exchange membrane fuel cells. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 498-507.	21.1	37
71	Mechanical, Thermal, and Morphological Properties of Glass Fiber-reinforced Biodegradable Poly(propylene carbonate) Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 1545-1550.	3.1	36
72	One-pot synthesis of terpolymers with long α -lactide rich sequence derived from propylene oxide, CO ₂ , and α -lactide catalyzed by zinc adipate. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1734-1741.	2.3	35

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73	Immobilization of ionic liquids in β -zirconium phosphate for catalyzing the coupling of CO ₂ and epoxides. <i>RSC Advances</i> , 2012, 2, 3810.	3.6	34
74	Flame-retardant single-ion conducting polymer electrolytes based on anion acceptors for high-safety lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7692-7702.	10.3	33
75	CO ₂ derived biodegradable polycarbonates: Synthesis, modification and applications. <i>Advanced Industrial and Engineering Polymer Research</i> , 2019, 2, 143-160.	4.7	32
76	Stable and ultrafast lithium storage for LiFePO ₄ /C nanocomposites enabled by instantaneously carbonized acetylenic carbon-rich polymer. <i>Carbon</i> , 2019, 147, 19-26.	10.3	31
77	Macrodiols Derived from CO ₂ -Based Polycarbonate as an Environmentally Friendly and Sustainable PVC Plasticizer: Effect of Hydrogen-Bond Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8476-8484.	6.7	30
78	Multi-shell tin phosphide nanospheres as high performance anode material for a sodium ion battery. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1944-1949.	4.9	29
79	Oppositely Charged Polyurethane Microspheres with Tunable Zeta Potentials as an Injectable Dual-Loaded System for Bone Repair. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25808-25817.	8.0	29
80	One-Pot Synthesis of Dimethyl Hexane-1,6-diylidicarbamate from CO ₂ , Methanol, and Diamine over CeO ₂ Catalysts: A Route to an Isocyanate-Free Feedstock for Polyurethanes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10708-10715.	6.7	29
81	Nonflammable highly-fluorinated polymer electrolytes with enhanced interfacial compatibility for dendrite-free lithium metal batteries. <i>Journal of Power Sources</i> , 2021, 510, 230411.	7.8	29
82	Semi-crystalline terpolymers with varying chain sequence structures derived from CO ₂ , cyclohexene oxide and ϵ -caprolactone: one-step synthesis catalyzed by tri-zinc complexes. <i>Polymer Chemistry</i> , 2015, 6, 1533-1540.	3.9	28
83	Interphase Building of Organic-Inorganic Hybrid Polymer Solid Electrolyte with Uniform Intermolecular Li ⁺ Path for Stable Lithium Metal Batteries. <i>Small</i> , 2021, 17, e2102454.	10.0	28
84	Polybenzimidazole-Based Semi-Interpenetrating Proton Exchange Membrane with Enhanced Stability and Excellent Performance for High-Temperature Proton Exchange Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 13316-13326.	5.1	28
85	Thermal runaway features of lithium sulfur pouch cells at various states of charge evaluated by extended volume-accelerating rate calorimetry. <i>Journal of Power Sources</i> , 2021, 489, 229503.	7.8	27
86	Thermal degradation of poly(lactide-co-propylene carbonate) measured by TG/FTIR and Py-GC/MS. <i>Polymer Degradation and Stability</i> , 2015, 117, 16-21.	5.8	26
87	Instantaneous carbonization of an acetylenic polymer into highly conductive graphene-like carbon and its application in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7015-7025.	10.3	26
88	Sulfonated poly(flourene ether ketone) (SPFEK)/ β -zirconium phosphate (ZrP) nanocomposite membranes for fuel cell applications. <i>Advanced Composites and Hybrid Materials</i> , 2020, 3, 546-550.	21.1	26
89	A phosphonated phenol-formaldehyde-based high-temperature proton exchange membrane with intrinsic protonic conductors and proton transport channels. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10916-10925.	10.3	26
90	Formation of Dimethyl Carbonate on Nature Clay Supported Bimetallic Copper-Nickel Catalysts. <i>Journal of Cleaner Production</i> , 2015, 103, 925-933.	9.3	25

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91	Covalently immobilized ionic liquids on single layer nanosheets for heterogeneous catalysis applications. Dalton Transactions, 2017, 46, 13126-13134.	3.3	25
92	Nonisocyanate CO ₂ -Based Poly(ester-co-urethane)s with Tunable Performances: A Potential Alternative to Improve the Biodegradability of PBAT. ACS Sustainable Chemistry and Engineering, 2020, 8, 1923-1932.	6.7	25
93	Design and structure of catalysts: syntheses of carbon dioxide-based copolymers with cyclic anhydrides and/or cyclic esters. Polymer Journal, 2021, 53, 3-27.	2.7	25
94	Membranes from poly(aryl ether)â€based ionomers containing multiblock segments of randomly distributed nanoclusters of 18 sulfonic acid groups. Journal of Polymer Science Part A, 2009, 47, 4762-4773.	2.3	24
95	Surface Reduced CeO ₂ Nanowires for Direct Conversion of CO ₂ and Methanol to Dimethyl Carbonate: Catalytic Performance and Role of Oxygen Vacancy. Catalysts, 2018, 8, 164.	3.5	24
96	Lithium Borate Containing Bifunctional Binder To Address Both Ion Transporting and Polysulfide Trapping for High-Performance Liâ€S Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28968-28977.	8.0	24
97	Foldable and High Sulfur Loading 3D Carbon Electrode for High-performance Li-S Battery Application. Scientific Reports, 2016, 6, 33871.	3.3	23
98	Synthesis of Aliphatic Carbonate Macrodiols and Their Application as Sustainable Feedstock for Polyurethane. ACS Omega, 2017, 2, 3205-3213.	3.5	23
99	In Situ Laminated Separator Using Nitrogenâ€Sulfur Codoped Two-Dimensional Carbon Material to Anchor Polysulfides for High-Performance Liâ€S Batteries. ACS Applied Nano Materials, 2018, 1, 3807-3816.	5.0	23
100	Covalent Organic Frameworks with Low Surface Work Function Enabled Stable Lithium Anode. Small, 2021, 17, e2101496.	10.0	23
101	Performance tailorable terpolymers synthesized from carbon dioxide, phthalic anhydride and propylene oxide using Lewis acid-base dual catalysts. Journal of CO ₂ Utilization, 2021, 49, 101558.	6.8	23
102	Ring-opening polymerization of L-lactide and Î¼-caprolactone catalyzed by versatile tri-zinc complex: Synthesis of biodegradable polyester with gradient sequence structure. European Polymer Journal, 2016, 74, 109-119.	5.4	22
103	Addressing interface elimination: Boosting comprehensive performance of all-solid-state Li-S battery. Energy Storage Materials, 2021, 41, 563-570.	18.0	22
104	Mechanic properties and thermal degradation kinetics of terpolymer poly(propylene cyclohexene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	21
105	Zinc adipate/tertiary amine catalytic system: efficient synthesis of high molecular weight poly(propylene carbonate). Journal of Polymer Research, 2013, 20, 1.	2.4	21
106	Activities comparison of Schiff base zinc and tri-zinc complexes for alternating copolymerization of CO ₂ and epoxides. Polymer Chemistry, 2014, 5, 3838.	3.9	21
107	A Functional Separator Coated with Sulfonated Poly(Styrene-ethylene-butylene-styrene) to Synergistically Enhance the Electrochemical Performance and Anti-Self-Discharge Behavior of Liâ€S Batteries. ACS Applied Energy Materials, 2018, 1, 2555-2564.	5.1	21
108	Aqueous sodium alginate as binder: Dramatically improving the performance of dilithium terephthalate-based organic lithium ion batteries. Journal of Power Sources, 2019, 438, 227007.	7.8	21

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109	Transparency Change Mechanochromism Based on a Robust PDMS/Hydrogel Bilayer Structure. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000446.	3.9	21
110	Transparent and super-gas-barrier PET film with surface coated by a polyelectrolyte and Borax. <i>Polymer Journal</i> , 2018, 50, 239-250.	2.7	20
111	Synthesis of Polylactide Nanocomposites Using an H^+ -Zirconium Phosphate Nanosheet-Supported Zinc Catalyst via in Situ Polymerization. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1382-1389.	4.4	20
112	Biodegradable and Toughened Composite of Poly(Propylene Carbonate)/Thermoplastic Polyurethane (PPC/TPU): Effect of Hydrogen Bonding. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2032.	4.1	19
113	A Highly Immobilized Organic Anode Material for High Performance Rechargeable Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36237-36246.	8.0	19
114	Gradient terpolymers with long H^+ -caprolactone rich sequence derived from propylene oxide, CO_2 , and H^+ -caprolactone catalyzed by zinc glutarate. <i>European Polymer Journal</i> , 2016, 84, 245-255.	5.4	18
115	Toward Theoretically Cycling-Stable Lithium/Sulfur Battery Using a Foldable and Compositionally Heterogeneous Cathode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43640-43647.	8.0	18
116	Polyphenylene Sulfide Separator for High Safety Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1644-A1652.	2.9	18
117	Artificial Single-Ion Conducting Polymer Solid Electrolyte Interphase Layer toward Highly Stable Lithium Anode. <i>ACS Applied Energy Materials</i> , 2021, 4, 862-869.	5.1	18
118	Highly conductive self-healing polymer electrolytes based on synergetic dynamic bonds for highly safe lithium metal batteries. <i>Chemical Engineering Journal</i> , 2022, 442, 136083.	12.7	18
119	Impact of N-substitution of a carbazole unit on molecular packing and charge transport of DPP-carbazole copolymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1683.	5.5	17
120	Gold nanoparticles immobilized on single-layer H^+ -zirconium phosphate nanosheets as a highly effective heterogeneous catalyst. <i>Advanced Composites and Hybrid Materials</i> , 2019, 2, 520-529.	21.1	17
121	Synthesis of poly(arylene disulfide)-vermiculite nanocomposites via in situ ring-opening polymerization of macrocyclic oligomers. <i>Polymer International</i> , 2004, 53, 789-793.	3.1	16
122	Polysulfide rubber-based sulfur-rich composites as cathode material for high energy lithium/sulfur batteries. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16067-16072.	7.1	16
123	Hierarchical NiCoP/C Hollow Nanoflowers for Enhanced Lithium Storage. <i>ACS Applied Nano Materials</i> , 2019, 2, 6880-6888.	5.0	16
124	Heteropolyacid Salt Catalysts for Methanol Conversion to Hydrocarbons and Dimethyl Ether: Effect of Reaction Temperature. <i>Catalysts</i> , 2019, 9, 320.	3.5	16
125	Miscibility, properties and morphology of biodegradable blends of UHMW-PPC/PVA/EVOH. <i>Journal of Polymer Research</i> , 2011, 18, 715-720.	2.4	15
126	Copolymerization of propylene oxide and carbon dioxide in the presence of diphenylmethane diisocyanate. <i>Journal of Polymer Research</i> , 2011, 18, 1479-1486.	2.4	15

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127	Biodegradable PPC/(PVA-TPU) ternary blend blown films with enhanced mechanical properties. Journal of Polymer Research, 2016, 23, 1.	2.4	15
128	Kinetic and mechanistic investigation for the copolymerization of CO ₂ and cyclohexene oxide catalyzed by zinc complexes. Polymer Chemistry, 2017, 8, 3632-3640.	3.9	15
129	Thermal degradation behavior of Copoly(propylene carbonate ϵ -caprolactone) investigated using TG/FTIR and Py-GC/MS methodologies. Polymer Testing, 2017, 58, 13-20.	4.8	15
130	High performance poly(urethane-co-amide) from CO ₂ -based dicarbamate: an alternative to long chain polyamide. RSC Advances, 2019, 9, 26080-26090.	3.6	15
131	Fabrication and properties of crosslinked poly(propylene carbonate maleate) gel polymer electrolyte for lithium-ion battery. Journal of Applied Polymer Science, 2010, 118, 2078-2083.	2.6	14
132	Sulfonated poly(flourenyl ether ketone) ionomers containing aliphatic functional segments for fuel cell applications. International Journal of Hydrogen Energy, 2012, 37, 4553-4562.	7.1	14
133	Nano-Brick Wall Architectures Account for Super Oxygen Barrier PET Film by Quadlayer Assembly of Polyelectrolytes and ϵ -ZrP Nanoplatelets. Polymers, 2018, 10, 1082.	4.5	14
134	Continuous Dimethyl Carbonate Synthesis from CO ₂ and Methanol Using Cu-Ni@VSiO as Catalyst Synthesized by a Novel Sulfuration Method. Catalysts, 2018, 8, 142.	3.5	14
135	Poly(propylene carbonate)/aluminum flake composite films with enhanced gas barrier properties. Journal of Applied Polymer Science, 2015, 132, .	2.6	13
136	<i>In situ</i> template synthesis of hierarchical porous carbon used for high performance lithium-sulfur batteries. RSC Advances, 2018, 8, 4503-4513.	3.6	13
137	A rechargeable Li-CO ₂ battery based on the preservation of dimethyl sulfoxide. Journal of Materials Chemistry A, 2022, 10, 13821-13828.	10.3	13
138	Electrochemical synthesis of dimethyl carbonate from CO ₂ and methanol over carbonaceous material supported DBU in a capacitor-like cell reactor. RSC Advances, 2016, 6, 40010-40016.	3.6	12
139	A Novel Multiblock Copolymer of CO ₂ -Based PPC- <i>mb</i> -PBS: From Simulation to Experiment. ACS Sustainable Chemistry and Engineering, 2017, 5, 5922-5930.	6.7	12
140	Study on Thermal Decomposition Behaviors of Terpolymers of Carbon Dioxide, Propylene Oxide, and Cyclohexene Oxide. International Journal of Molecular Sciences, 2018, 19, 3723.	4.1	12
141	Co-Ni Cyanide Bi-Metal Catalysts: Copolymerization of Carbon Dioxide with Propylene Oxide and Chain Transfer Agents. Catalysts, 2019, 9, 632.	3.5	12
142	A Robust Composite Proton Exchange Membrane of Sulfonated Poly (Flourenyl Ether Ketone) with an Electrospun Polyimide Mat for Direct Methanol Fuel Cells Application. Polymers, 2021, 13, 523.	4.5	12
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