

Hiroyuki Nishide

List of Publications by Year in descending order

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633
papers

17,538
citations

20817

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29157

104
g-index

664
all docs

664
docs citations

664
times ranked

10444
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Flexible Batteries. <i>Science</i> , 2008, 319, 737-738.	12.6	1,017
2	Organic radical battery: nitroxide polymers as a cathode-active material. <i>Electrochimica Acta</i> , 2004, 50, 827-831.	5.2	460
3	Radical Polymers for Organic Electronic Devices: A Radical Departure from Conjugated Polymers?. <i>Advanced Materials</i> , 2009, 21, 2339-2344.	21.0	417
4	Emerging n-Type Redox-Active Radical Polymer for a Totally Organic Polymer-Based Rechargeable Battery. <i>Advanced Materials</i> , 2009, 21, 1627-1630.	21.0	360
5	Photocrosslinked nitroxide polymer cathode-active materials for application in an organic-based paper battery. <i>Chemical Communications</i> , 2007, , 1730.	4.1	270
6	Organic Radical Battery Approaching Practical Use. <i>Chemistry Letters</i> , 2011, 40, 222-227.	1.3	254
7	p- and n-Type Bipolar Redox-Active Radical Polymer: Toward Totally Organic Polymer-Based Rechargeable Devices with Variable Configuration. <i>Advanced Materials</i> , 2011, 23, 751-754.	21.0	226
8	Polymer-metal complexes and their catalytic activity. <i>Advances in Polymer Science</i> , 1977, , 1-87.	0.8	211
9	Nernstian Adsorbate-like Bulk Layer of Organic Radical Polymers for High-Density Charge Storage Purposes. <i>Journal of the American Chemical Society</i> , 2008, 130, 14459-14461.	13.7	209
10	Aqueous Electrochemistry of Poly(vinylanthraquinone) for Anode-Active Materials in High-Density and Rechargeable Polymer/Air Batteries. <i>Journal of the American Chemical Society</i> , 2011, 133, 19839-19843.	13.7	206
11	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1976, 177, 2295-2310.	1.1	184
12	Organic Radical Battery. <i>Electrochemical Society Interface</i> , 2005, 14, 32-36.	0.4	176
13	Electron-Transfer Kinetics of Nitroxide Radicals as an Electrode-Active Material. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 2203-2204.	3.2	171
14	An ultrafast chargeable polymer electrode based on the combination of nitroxide radical and aqueous electrolyte. <i>Chemical Communications</i> , 2009, , 836-838.	4.1	164
15	Battery-Inspired, Nonvolatile, and Rewritable Memory Architecture: a Radical Polymer-Based Organic Device. <i>Journal of the American Chemical Society</i> , 2007, 129, 14128-14129.	13.7	158
16	A TEMPO-substituted polyacrylamide as a new cathode material: an organic rechargeable device composed of polymer electrodes and aqueous electrolyte. <i>Green Chemistry</i> , 2010, 12, 1573.	9.0	153
17	SELECTIVE ADSORPTION OF METAL IONS ON CROSSLINKED POLY(VINYLPYRIDINE) RESIN PREPARED WITH A METAL ION AS A TEMPLATE. <i>Chemistry Letters</i> , 1976, 5, 169-174.	1.3	151
18	Cathode- and Anode-Active Poly(nitroxylstyrene)s for Rechargeable Batteries: p- and n-Type Redox Switching via Substituent Effects. <i>Macromolecules</i> , 2007, 40, 3167-3173.	4.8	148

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19	Synthesis and Characterization of Radical-Bearing Polyethers as an Electrode-Active Material for Organic Secondary Batteries. <i>Macromolecules</i> , 2008, 41, 6646-6652.	4.8	145
20	Surface Modification of Hemoglobin Vesicles with Poly(ethylene glycol) and Effects on Aggregation, Viscosity, and Blood Flow during 90 Exchange Transfusion in Anesthetized Rats. <i>Bioconjugate Chemistry</i> , 1997, 8, 23-30.	3.6	140
21	Diffusion-Cooperative Model for Charge Transport by Redox-Active Nonconjugated Polymers. <i>Journal of the American Chemical Society</i> , 2018, 140, 1049-1056.	13.7	130
22	Synthesis and Charge Transport Properties of Redox-Active Nitroxide Polyethers with Large Site Density. <i>Macromolecules</i> , 2010, 43, 10382-10389.	4.8	121
23	An Aqueous, Electrolyte-Type, Rechargeable Device Utilizing a Hydrophilic Radical Polymer Cathode. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1989-1995.	2.2	116
24	Dual-mode transport of molecular oxygen in a membrane containing a cobalt porphyrin complex as a fixed carrier. <i>Macromolecules</i> , 1987, 20, 417-422.	4.8	113
25	Synthesis and electroluminescent property of poly(p-phenylenevinylene)s bearing triarylamine pendants. <i>Polymer</i> , 2005, 46, 3767-3775.	3.8	104
26	Radical Polymer-Wrapped SWNTs at a Molecular Level: High-Rate Redox Mediation Through a Percolation Network for a Transparent Charge-Storage Material. <i>Advanced Materials</i> , 2011, 23, 4440-4443.	21.0	103
27	Polyviologen Hydrogel with High-Rate Capability for Anodes toward an Aqueous Electrolyte-Type and Organic-Based Rechargeable Device. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1355-1361.	8.0	102
28	Poly(phenylenevinylene)-Attached Phenoxy Radicals: Ferromagnetic Interaction through Planarized and π -Conjugated Skeletons. <i>Journal of the American Chemical Society</i> , 1996, 118, 9695-9704.	13.7	101
29	Room-Temperature High-Spin Organic Single Molecule: Nanometer-Sized and Hyperbranched Poly[1,2,(4)-phenylenevinyleneaminium]. <i>Journal of the American Chemical Society</i> , 2006, 128, 996-1001.	13.7	101
30	The kinetics of the oxidative polymerization of 2,6-xyleneol with a copper-amine complex. <i>Die Makromolekulare Chemie</i> , 1972, 151, 221-234.	1.1	98
31	Corrosion of carbon supports at cathode during hydrogen/air replacement at anode studied by visualization of oxygen partial pressures in a PEFC Start-up/shut-down simulation. <i>Journal of Power Sources</i> , 2011, 196, 3003-3008.	7.8	98
32	Reversible coordination and facilitated transport of molecular nitrogen in poly((vinylcyclopentadienyl)manganese) membrane. <i>Journal of the American Chemical Society</i> , 1989, 111, 7175-7179.	13.7	96
33	Physical Properties of Hemoglobin Vesicles as Red Cell Substitutes. <i>Biotechnology Progress</i> , 1996, 12, 119-125.	2.6	93
34	Nitroxide Radicals as Highly Reactive Redox Mediators in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10177-10180.	13.8	93
35	Structural Implication of Oxoammonium Cations for Reversible Organic One-electron Redox Reaction to Nitroxide Radicals. <i>Chemistry Letters</i> , 2007, 36, 866-867.	1.3	92
36	Expanding the Dimensionality of Polymers Populated with Organic Robust Radicals toward Flow Cell Application: Synthesis of TEMPO-Crowded Bottlebrush Polymers Using Anionic Polymerization and ROMP. <i>Macromolecules</i> , 2014, 47, 8611-8617.	4.8	91

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37	Synthesis of Pendant Nitronyl Nitroxide Radical-Containing Poly(norbornene)s as Ambipolar Electrode-Active Materials. <i>Macromolecules</i> , 2013, 46, 1361-1367.	4.8	87
38	A Novel Triphenylamine-Substituted Poly(p-phenylenevinylene): $\hat{\text{A}}$ Improved Photo- and Electroluminescent Properties. <i>Chemistry of Materials</i> , 2001, 13, 3817-3819.	6.7	84
39	Redox-active polyimide/carbon nanocomposite electrodes for reversible charge storage at negative potentials: expanding the functional horizon of polyimides. <i>Journal of Materials Chemistry</i> , 2010, 20, 5404.	6.7	83
40	Highly selective transport of molecular oxygen in a polymer containing a cobalt porphyrin complex as a fixed carrier. <i>Macromolecules</i> , 1986, 19, 494-496.	4.8	80
41	The catalytic effects of the poly(vinylpyridine)-ligand in the oxidative polymerization of phenols. <i>Die Makromolekulare Chemie</i> , 1973, 164, 203-213.	1.1	79
42	Ladderlike Ferromagnetic Spin Coupling Network on a $\hat{\text{I}}$ -Conjugated Pendant Polyradical. <i>Journal of the American Chemical Society</i> , 2003, 125, 3554-3557.	13.7	79
43	Environmentally benign batteries based on organic radical polymers. <i>Pure and Applied Chemistry</i> , 2009, 81, 1961-1970.	1.9	79
44	Purification of Concentrated Hemoglobin Using Organic Solvent and Heat Treatment. <i>Protein Expression and Purification</i> , 1993, 4, 563-569.	1.3	78
45	Aryl sulfide bond formation using the sulfoxide-acid system for synthesis of poly(p-phenylene sulfide) via poly(sulfonium cation) as a precursor. <i>Journal of the American Chemical Society</i> , 1993, 115, 5819-5820.	13.7	78
46	High-Density and Robust Charge Storage with Poly(anthraquinone-substituted norbornene) for Organic Electrode-Active Materials in Polymer $\hat{\text{A}}$ Air Secondary Batteries. <i>Macromolecules</i> , 2015, 48, 2429-2434.	4.8	78
47	Through-Bond and Long-Range Ferromagnetic Spin Alignment in a $\hat{\text{p}}$ -Conjugated Polyradical with a Poly(phenylenevinylene) Skeleton. <i>Journal of the American Chemical Society</i> , 1995, 117, 548-549.	13.7	75
48	Totally Organic Polymer-Based Electrochromic Cell Using TEMPO-Substituted Polynorbornene as a Counter Electrode-Active Material. <i>Polymer Journal</i> , 2008, 40, 763-767.	2.7	73
49	Synthesis of Pendant Radical- and Ion-Containing Block Copolymers via Ring-Opening Metathesis Polymerization for Organic Resistive Memory. <i>ACS Macro Letters</i> , 2014, 3, 703-707.	4.8	73
50	A Quasi-Solid State DSSC with 10.1% Efficiency through Molecular Design of the Charge-Separation and -Transport. <i>Scientific Reports</i> , 2016, 6, 28022.	3.3	73
51	An Ultrahigh Output Rechargeable Electrode of a Hydrophilic Radical Polymer/Nanocarbon Hybrid with an Exceptionally Large Current Density beyond 1 A cm ⁻² . <i>Advanced Materials</i> , 2018, 30, e1800900.	21.0	73
52	High-spin alignment in $\hat{\text{I}}$ -conjugated Polyradicals: A Magnetic polymer. <i>Advanced Materials</i> , 1995, 7, 937-941.	21.0	72
53	A Nanometer-Sized High-Spin Polyradical: $\hat{\text{A}}$ Poly(4-phenoxy-1,2-phenylenevinylene) Planarily Extended in a Non-Kekul $\hat{\text{A}}$ Fashion and Its Magnetic Force Microscopic Images. <i>Journal of the American Chemical Society</i> , 2001, 123, 5942-5946.	13.7	72
54	Cationic polysulfonium membrane as separator in zinc $\hat{\text{A}}$ air cell. <i>Journal of Power Sources</i> , 2003, 115, 149-152.	7.8	70

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55	Poly(thiaheterohelicene): A Stiff Conjugated Helical Polymer Comprised of Fused Benzothiophene Rings. <i>Organic Letters</i> , 2005, 7, 755-758.	4.6	68
56	Subcutaneous microvascular responses to hemodilution with a red cell substitute consisting of polyethyleneglycol-modified vesicles encapsulating hemoglobin. <i>Journal of Biomedical Materials Research Part B</i> , 1998, 40, 66-78.	3.1	65
57	Oxovanadium-catalyzed oxidative polymerization of diphenyl disulfides with oxygen. <i>Macromolecules</i> , 1993, 26, 3432-3437.	4.8	64
58	Novel Pressure-Sensitive Paint for Cryogenic and Unsteady Wind-Tunnel Testing. <i>Journal of Thermophysics and Heat Transfer</i> , 2002, 16, 109-115.	1.6	64
59	m-Phenylene-Linked Aromatic Poly(aminium cationic radical)s: Persistent High-Spin Organic Polyradicals. <i>Organic Letters</i> , 2003, 5, 2165-2168.	4.6	63
60	Physiologic responses to exchange transfusion with hemoglobin vesicles as an artificial oxygen carrier in anesthetized rats. <i>Critical Care Medicine</i> , 1996, 24, 1869-1873.	0.9	63
61	Functionalization of poly(4-chloromethylstyrene) with anthraquinone pendants for organic anode active materials. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1242-1247.	3.2	62
62	Adsorption of metal ions on crosslinked poly(4-vinylpyridine) resins prepared with a metal ion as template. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1977, 15, 3023-3029.	0.8	60
63	Platinum porphyrin embedded in poly(1-trimethylsilyl-1-propyne) film as an optical sensor for trace analysis of oxygen. <i>Analyst, The</i> , 2000, 125, 1911-1914.	3.5	60
64	Oxidative Polymerization of 2,6-Dimethylphenol To Form Poly(2,6-dimethyl-1,4-phenyleneoxide) in Water. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 730-733.	13.8	60
65	Binding of Methylene Blue to Polyelectrolytes Containing Sulfonate Groups. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1167-1175.	2.2	60
66	Efficient charge transport of a radical polyether/SWCNT composite electrode for an organic radical battery with high charge-storage density. <i>RSC Advances</i> , 2015, 5, 15448-15452.	3.6	60
67	Quantifying TEMPO Redox Polymer Charge Transport toward the Organic Radical Battery. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10692-10698.	8.0	60
68	Nitroxide Radicals for Highly Efficient Redox Mediation in Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , 2010, 39, 464-465.	1.3	59
69	Average Octet Radical Polymer: A Stable Polyphenoxyl with Star-Shaped π -Conjugation. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2400-2402.	13.8	58
70	Influence of the Linear Aromatic Density on Methylene Blue Aggregation around Polyanions Containing Sulfonate Groups. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4151-4158.	2.6	58
71	Electrochemical Preparation of Poly(p-phenylene) Using Trifluoromethane Sulfonic Acid as a Catalytic Electrolyte. <i>Chemistry Letters</i> , 1987, 16, 1541-1544.	1.3	57
72	Membranes of the Picket Fence Cobalt Porphyrin Complexed with Poly(vinylimidazole and -pyridine)s: A Selective Optical Response to Oxygen. <i>Macromolecules</i> , 2000, 33, 2530-2534.	4.8	57

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73	Improving Charge/Discharge Properties of Radical Polymer Electrodes Influenced Strongly by Current Collector/Carbon Fiber Interface. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8335-8340.	2.6	57
74	Anionic Polymerization of 4-Methacryloyloxy-TEMPO Using an MMA-Capped Initiator. <i>ACS Macro Letters</i> , 2014, 3, 240-243.	4.8	57
75	Regioregular Polythiophene with Pendant Phenoxy Radicals: A New High-Spin Organic Polymer. <i>Macromolecules</i> , 2000, 33, 8211-8217.	4.8	56
76	A High-Spin and Helical Organic Polymer: Poly{[4-(dianisylaminium)phenyl]acetylene}. <i>Macromolecules</i> , 2006, 39, 6331-6335.	4.8	56
77	Light-assisted electrochemical water-splitting at very low bias voltage using metal-free polythiophene as photocathode at high pH in a full-cell setup. <i>Energy and Environmental Science</i> , 2018, 11, 1335-1342.	30.8	56
78	Facilitated transport of molecular oxygen in the membranes of polymer-coordinated cobalt Schiff base complexes. <i>Macromolecules</i> , 1987, 20, 1907-1912.	4.8	55
79	Nitroxide polymer networks formed by Michael addition: on site-cured electrode-active organic coating. <i>Chemical Communications</i> , 2010, 46, 3475.	4.1	55
80	Magnetic Characterization and Computational Modeling of Poly(phenylacetylenes) Bearing Stable Radical Groups. <i>Macromolecules</i> , 1994, 27, 3082-3086.	4.8	53
81	Semiempirical Investigation of Stilbene-Linked Diradicals and Magnetic Study of Their Bis(N-tert-butyl nitroxide) Variants. <i>Journal of Organic Chemistry</i> , 1994, 59, 4272-4280.	3.2	52
82	Highly Selective Oxygen Permeation through a Poly(vinylidene dichloride)-Cobalt Porphyrin Membrane: Hopping Transport of Oxygen via the Fixed Cobalt Porphyrin Carrier. <i>Journal of Physical Chemistry B</i> , 1998, 102, 8766-8770.	2.6	52
83	A High-Spin and Durable Polyradical: Poly(4-diphenylaminium-1,2-phenylenevinylene). <i>Journal of Organic Chemistry</i> , 2004, 69, 631-638.	3.2	52
84	The Cu-catalyzed oxidative polymerization of phenols. <i>Die Makromolekulare Chemie</i> , 1975, 176, 1349-1358.	1.1	50
85	Polymerization of diphenyl disulfide by the S-S bond cleavage with a Lewis acid: a novel preparation route to poly(p-phenylene sulfide). <i>Macromolecules</i> , 1990, 23, 2101-2106.	4.8	50
86	Dual Dopable Poly(phenylacetylene) with Nitronyl Nitroxide Pendants for Reversible Ambipolar Charging and Discharging. <i>Chemistry Letters</i> , 2011, 40, 184-185.	1.3	50
87	Cyclic Tetramer of a Metalloporphyrin Based on a Quadruple Hydrogen Bond. <i>Organic Letters</i> , 2006, 8, 2225-2228.	4.6	49
88	Ambient-Light-Promoted Three-Component Annulation: Synthesis of Perfluoroalkylated Pyrimidines. <i>Organic Letters</i> , 2017, 19, 2358-2361.	4.6	49
89	Application of Pressure-Sensitive Paints to Low-Pressure Range. <i>Journal of Thermophysics and Heat Transfer</i> , 2005, 19, 9-16.	1.6	48
90	π -Stacking of rhodamine B onto water-soluble polymers containing aromatic groups. <i>Polymer</i> , 2006, 47, 6496-6500.	3.8	48

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91	Poly(p-ethynylphenyl)galvinoxyl: formation of a new conjugated polyradical with an extraordinarily high spin concentration. <i>Macromolecules</i> , 1990, 23, 4487-4488.	4.8	47
92	Synthesis of and Ferromagnetic Coupling in Poly(phenylenevinylene)s Bearing Built-in-Butyl Nitroxides. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 499-508.	3.2	47
93	Robust and efficient charge storage by uniform grafting of TEMPO radical polymer around multi-walled carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2999.	10.3	46
94	Comparative Study of the Self-Aggregation of Rhodamine 6G in the Presence of Poly(sodium Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 632 Poly(styrene- <i>alt</i> -maleic acid), and Poly(sodium acrylate). <i>Journal of Physical Chemistry B</i> , 2010, 114, 11983-11992.	2.6	45
95	Poly(vinylidenebenzothiophenesulfone): Its Redox Capability at Very Negative Potential Toward an All-Organic Rechargeable Device with High Energy Density. <i>Advanced Functional Materials</i> , 2018, 28, 1805858.	14.9	45
96	Poly [(3,5-di-tert-butyl-4-hydroxyphenyl)acetylene]: formation of a conjugated stable polyradical. <i>Macromolecules</i> , 1988, 21, 3119-3120.	4.8	44
97	TEMPO radical polymer grafted silicas as solid state catalysts for the oxidation of alcohols. <i>RSC Advances</i> , 2013, 3, 9752.	3.6	44
98	Hemoglobin model " Artificial oxygen carrier composed of porphyratoiron complexes. , 1986, , 63-99.		43
99	New synthesis of poly(phenylene sulfide)s through oxygen oxidative polymerization of diphenyl disulfide with vanadium oxide catalyst. <i>Macromolecules</i> , 1989, 22, 4138-4140.	4.8	43
100	Oxidative polymerization of diphenyl disulfides with quinones: formation of ultrapure poly(p-phenylene sulfide)s. <i>Macromolecules</i> , 1990, 23, 930-934.	4.8	43
101	Evaluation of the Capabilities of a Hemoglobin Vesicle as an Artificial Oxygen Carrier in a Rat Exchange Transfusion Model. <i>ASAIO Journal</i> , 1997, 43, 289-297.	1.6	43
102	Tuning the pKa of the antihistaminic drug chlorpheniramine maleate by supramolecular interactions with water-soluble polymers. <i>Polymer</i> , 2007, 48, 799-804.	3.8	42
103	Direct Visualization of Oxygen Distribution in Operating Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2792-2795.	13.8	42
104	Electrolyte anion-assisted charge transportation in poly(oxoammonium cation/nitroxyl radical) redox gels. <i>Journal of Materials Chemistry</i> , 2012, 22, 13669.	6.7	42
105	Self-doping inspired zwitterionic pendant design of radical polymers toward a rocking-chair-type organic cathode-active material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1326-1333.	10.3	42
106	Phenothiazine-functionalized redox polymers for a new cathode-active material. <i>RSC Advances</i> , 2015, 5, 22947-22950.	3.6	42
107	Catalyzed oxidative polymerization to form poly(2,6-dimethyl-1,4-phenylene oxide) in water using water-soluble copper complex. <i>Polymer</i> , 2006, 47, 6581-6584.	3.8	41
108	Poly[(3,5-di-tert-butyl-4-hydroxyphenyl)acetylene] and its polyradical derivative. <i>Macromolecules</i> , 1992, 25, 569-575.	4.8	40

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109	Complex Formation between Rhodamine B and Poly(sodium 4-styrenesulfonate) Studied by ¹ H-NMR. <i>Journal of Physical Chemistry B</i> , 2006, 110, 21576-21581.	2.6	40
110	Hydrophilic Organic Redox-Active Polymer Nanoparticles for Higher Energy Density Flow Batteries. <i>ACS Applied Polymer Materials</i> , 2019, 1, 188-196.	4.4	40
111	Effect of polymer matrix on the oxygen diffusion via a cobalt porphyrin fixed in a membrane. <i>Macromolecules</i> , 1991, 24, 6306-6309.	4.8	39
112	High-Spin Polyphenoxyl Based on Poly(1,4-phenyleneethynylene). <i>Journal of Organic Chemistry</i> , 1999, 64, 7129-7134.	3.2	39
113	Electronic transport of benzothiophene-based chiral molecular solenoids studied by theoretical simulations. <i>Journal of Chemical Physics</i> , 2003, 119, 7491-7497.	3.0	39
114	Charge-Discharge with Rocking-Chair-Type Li ⁺ Migration Characteristics in a Zwitterionic Radical Copolymer Composed of TEMPO and Trifluoromethanesulfonylimide with Carbonate Electrolytes for a High-Rate Li-Ion Battery. <i>Macromolecules</i> , 2017, 50, 1950-1958.	4.8	39
115	Complexation of metal ion with poly(1-vinylimidazole) resin prepared by radiation-induced polymerization with template metal ion. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1981, 19, 1803-1809.	0.8	38
116	Poly(p-phenylene sulfide)-yielding polymerization of diphenyl disulfide by S-S bond cleavage with a Lewis acid. <i>Macromolecules</i> , 1987, 20, 2030-2031.	4.8	38
117	Methemoglobin Formation in Hemoglobin Vesicles and Reduction by Encapsulated Thiols. <i>Bioconjugate Chemistry</i> , 1997, 8, 539-544.	3.6	38
118	Robust Triplet Molecule: A Cationic Diradical of 3,4-Bis(diphenylamino)stilbene. <i>Chemistry of Materials</i> , 1999, 11, 1969-1971.	6.7	38
119	Low-Cost, Organic Light-Emitting Electrochemical Cells with Mass-Produced Nanoimprinted Substrates Made Using Roll-to-Roll Methods. <i>Advanced Materials Technologies</i> , 2017, 2, 1600293.	5.8	38
120	The Preparation of Poly(dihydroxyphenylene) through the Electro-Oxidative Polymerization of Hydroquinone. <i>Bulletin of the Chemical Society of Japan</i> , 1990, 63, 1211-1216.	3.2	37
121	Poly[(p-ethynylphenyl)hydrogalvinoxyl] and its polyradical derivative with high spin concentration. <i>Macromolecules</i> , 1992, 25, 3838-3842.	4.8	37
122	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1972, 151, 235-244.	1.1	36
123	Preparation of Poly(p-phenylene) by Electrooxidative Polymerization in Acidic Media. <i>Bulletin of the Chemical Society of Japan</i> , 1988, 61, 1731-1734.	3.2	36
124	Redox equilibrium of a zwitterionic radical polymer in a non-aqueous electrolyte as a novel Li ⁺ host material in a Li-ion battery. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9608.	10.3	36
125	Controlling the aggregation of 5,10,15,20-tetrakis-(4-sulfonatophenyl)-porphyrin by the use of polycations derived from polyketones bearing charged aromatic groups. <i>Dyes and Pigments</i> , 2013, 98, 51-63.	3.7	36
126	Organic Conjugated Polymers as Photocathode Materials for Visible-Light-Enhanced Hydrogen and Hydrogen Peroxide Production from Water. <i>Advanced Energy Materials</i> , 2021, 11, 2003724.	19.5	36

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127	Reversible oxygen-binding and facilitated oxygen transport in membranes of polyvinylimidazole complexed with cobalt-phthalocyanine. <i>Reactive and Functional Polymers</i> , 2006, 66, 851-855.	4.1	35
128	Designing current collector/composite electrode interfacial structure of organic radical battery. <i>Journal of Power Sources</i> , 2011, 196, 7806-7811.	7.8	35
129	Chelating resin: Pyridine derivatives attached to poly(styrene) beads with spacer group. <i>Journal of Applied Polymer Science</i> , 1982, 27, 4161-4169.	2.6	34
130	Poly[[4-(N-tert-butyl-N-hydroxyamino)phenyl]acetylene] and the magnetic property of its radical derivative. <i>Macromolecules</i> , 1993, 26, 4567-4571.	4.8	34
131	Enhanced Oxygen Diffusion through a Porous Membrane Chemically Modified with Cobalt Porphyrin on Its Pore Surface. <i>Journal of the American Chemical Society</i> , 1994, 116, 4503-4504.	13.7	34
132	Aromatic ^π -Aromatic Interaction between 2,3,5-Triphenyl-2H-tetrazolium Chloride and Poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.6	34
133	White Polymer Light-Emitting Electrochemical Cells Fabricated Using Energy Donor and Acceptor Fluorescent π -Conjugated Polymers Based on Concepts of Band-Structure Engineering. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28701-28710.	3.1	34
134	Electrooxidative polymerization of thiophenol to yield poly(p-phenylene sulfide). <i>Macromolecules</i> , 1987, 20, 2315-2316.	4.8	33
135	Self-Assembled Lipidporphyrin Bilayer Vesicles. Microstructure and Dioxygen Binding in Aqueous Medium. <i>Langmuir</i> , 1995, 11, 1877-1884.	3.5	33
136	High-Spin Polyphenoxyls Attached to Star-Shaped Poly(phenylenevinylene)s. <i>Journal of Organic Chemistry</i> , 1998, 63, 7399-7407.	3.2	33
137	Acyclic and Cyclic Di- and Tri(4-oxyphenyl-1,2-phenyleneethynylene)s: Their Synthesis and Ferromagnetic Spin Interaction. <i>Journal of Organic Chemistry</i> , 1999, 64, 7375-7380.	3.2	33
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