Kenichi Oyaizu

List of Publications by Year
in descending order

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265 papers	9,687 citations	50244 46 h-index	48277 88 g-index
279 all docs	279 docs citations	279 times ranked	7473 citing authors

#	Article	IF	Citations
1	Toward Flexible Batteries. Science, 2008, 319, 737-738.	6.0	1,017
2	Radical Polymers for Organic Electronic Devices: A Radical Departure from Conjugated Polymers?. Advanced Materials, 2009, 21, 2339-2344.	11.1	417
3	Emerging Nâ€Type Redoxâ€Active Radical Polymer for a Totally Organic Polymerâ€Based Rechargeable Battery. Advanced Materials, 2009, 21, 1627-1630.	11.1	360
4	Organic Radical Battery Approaching Practical Use. Chemistry Letters, 2011, 40, 222-227.	0.7	254
5	Modifying Carbon Particles with Polypyrrole for Adsorption of Cobalt Ions as Electrocatatytic Site for Oxygen Reduction. Chemistry of Materials, 2005, 17, 4278-4281.	3.2	226
6	pâ€•and nâ€Type Bipolar Redoxâ€Active Radical Polymer: Toward Totally Organic Polymerâ€Based Rechargeable Devices with Variable Configuration. Advanced Materials, 2011, 23, 751-754.	11.1	226
7	Nernstian Adsorbate-like Bulk Layer of Organic Radical Polymers for High-Density Charge Storage Purposes. Journal of the American Chemical Society, 2008, 130, 14459-14461.	6.6	209
8	Aqueous Electrochemistry of Poly(vinylanthraquinone) for Anode-Active Materials in High-Density and Rechargeable Polymer/Air Batteries. Journal of the American Chemical Society, 2011, 133, 19839-19843.	6.6	206
9	Electron-Transfer Kinetics of Nitroxide Radicals as an Electrode-Active Material. Bulletin of the Chemical Society of Japan, 2004, 77, 2203-2204.	2.0	171
10	Synthesis and Properties of Novel Sulfonated Arylene Ether/Fluorinated Alkane Copolymers. Macromolecules, 2001, 34, 2065-2071.	2.2	169
11	An ultrafast chargeable polymer electrode based on the combination of nitroxide radical and aqueous electrolyte. Chemical Communications, 2009, , 836-838.	2.2	164
12	Battery-Inspired, Nonvolatile, and Rewritable Memory Architecture:â€‰ a Radical Polymer-Based Organic Device. Journal of the American Chemical Society, 2007, 129, 14128-14129.	6.6	158
13	A TEMPO-substituted polyacrylamide as a new cathode material: an organic rechargeable device composed of polymer electrodes and aqueous electrolyte. Green Chemistry, 2010, 12, 1573.	4.6	153
14	Synthesis and Characterization of Radical-Bearing Polyethers as an Electrode-Active Material for Organic Secondary Batteries. Macromolecules, 2008, 41, 6646-6652.	2.2	145
15	Diffusion-Cooperative Model for Charge Transport by Redox-Active Nonconjugated Polymers. Journal of the American Chemical Society, 2018, 140, 1049-1056.	6.6	130
16	Synthesis and Charge Transport Properties of Redox-Active Nitroxide Polyethers with Large Site Density. Macromolecules, 2010, 43, 10382-10389.	2.2	121
17	An Aqueous, Electrolyteâ€Type, Rechargeable Device Utilizing a Hydrophilic Radical Polymerâ€Cathode. Macromolecular Chemistry and Physics, 2009, 210, 1989-1995.	1.1	116
18	Oxovanadium(IIIâ€“V) mononuclear complexes and their linear assemblies bearing tetradentate Schiff base ligands: structure and reactivity as multielectron redox catalysts. Coordination Chemistry Reviews, 2003, 237, 213-228.	9.5	106

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19	Radical Polymerâ€Wrapped SWNTs at a Molecular Level: Highâ€Rate Redox Mediation Through a Percolation Network for a Transparent Chargeâ€Storage Material. Advanced Materials, 2011, 23, 4440-4443.	11.1	103
20	Polyviologen Hydrogel with High-Rate Capability for Anodes toward an Aqueous Electrolyte-Type and Organic-Based Rechargeable Device. ACS Applied Materials & Interfaces, 2013, 5, 1355-1361.	4.0	102
21	Linear Ladder-Type Ï€-Conjugated Polymers Composed of Fused Thiophene Ring Systems. Macromolecules, 2004, 37, 1257-1270.	2.2	98
22	Catalytic Cycle of a Divanadium Complex with Salen Ligands in O2Reduction:Â Two-Electron Redox Process of the Dinuclear Center (salen =N,Nâ€˜-Ethylenebis(salicylideneamine)). Journal of the American Chemical Society, 1996, 118, 12665-12672.	6.6	95
23	Nitroxide Radicals as Highly Reactive Redox Mediators in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2012, 51, 10177-10180.	7.2	93
24	Structural Implication of Oxoammonium Cations for Reversible Organic One-electron Redox Reaction to Nitroxide Radicals. Chemistry Letters, 2007, 36, 866-867.	0.7	92
25	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. Macromolecules, 2014, 47, 8611-8617.	2.2	91
26	Synthesis of Pendant Nitronyl Nitroxide Radical-Containing Poly(norbornene)s as Ambipolar Electrode-Active Materials. Macromolecules, 2013, 46, 1361-1367.	2.2	87
27	Electrochemical Investigations of the Complexes Resulting from the Acid-Promoted Deoxygenation and Dimerization of (N,N'-Ethylenebis(salicylideneaminato))oxovanadium(IV). Inorganic Chemistry, 1994, 33, 1056-1063.	1.9	85
28	Redox-active polyimide/carbon nanocomposite electrodes for reversible charge storage at negative potentials: expanding the functional horizon of polyimides. Journal of Materials Chemistry, 2010, 20, 5404.	6.7	83
29	Environmentally benign batteries based on organic radical polymers. Pure and Applied Chemistry, 2009, 81, 1961-1970.	0.9	79
30	High-Density and Robust Charge Storage with Poly(anthraquinone-substituted norbornene) for Organic Electrode-Active Materials in Polymerâ€“Air Secondary Batteries. Macromolecules, 2015, 48, 2429-2434.	2.2	78
31	Totally Organic Polymer-Based Electrochromic Cell Using TEMPO-Substituted Polynorbornene as a Counter Electrode-Active Material. Polymer Journal, 2008, 40, 763-767.	1.3	73
32	A Quasi-Solid State DSSC with 10.1% Efficiency through Molecular Design of the Charge-Separation and -Transport. Scientific Reports, 2016, 6, 28022.	1.6	73
33	An Ultrahigh Output Rechargeable Electrode of a Hydrophilic Radical Polymer/Nanocarbon Hybrid with an Exceptionally Large Current Density beyond 1 A cm^{â^’2}. Advanced Materials, 2018, 30, e1800900.	11.1	73
34	Cationic polysulfonium membrane as separator in zincâ€“air cell. Journal of Power Sources, 2003, 115, 149-152.	4.0	70
35	Micellar Cobaltporphyrin Nanorods in Alcohols. Journal of the American Chemical Society, 2004, 126, 11128-11129.	6.6	69
36	Nitroxide radical polymers for emerging plastic energy storage and organic electronics: fundamentals, materials, and applications. Materials Horizons, 2021, 8, 803-829.	6.4	69

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37	Oxovanadium-catalyzed oxidative polymerization of diphenyl disulfides with oxygen. Macromolecules, 1993, 26, 3432-3437.	2.2	64
38	Functionalization of poly(4â€chloromethylstyrene) with anthraquinone pendants for organic anodeâ€active materials. Polymers for Advanced Technologies, 2011, 22, 1242-1247.	1.6	62
39	Efficient charge transport of a radical polyether/SWCNT composite electrode for an organic radical battery with high charge-storage density. RSC Advances, 2015, 5, 15448-15452.	1.7	60
40	Nitroxide Radicals for Highly Efficient Redox Mediation in Dye-sensitized Solar Cells. Chemistry Letters, 2010, 39, 464-465.	0.7	59
41	AI-Assisted Exploration of Superionic Glass-Type Li⁺ Conductors with Aromatic Structures. Journal of the American Chemical Society, 2020, 142, 3301-3305.	6.6	59
42	Multielectron Redox Process of Vanadium Complexes in Oxidation of Low-Coordinate Vanadium(III) to Oxovanadium(V) with Dioxygen. Inorganic Chemistry, 1996, 35, 6634-6635.	1.9	58
43	Catalysis of the Electroreduction of O2 to H2O by Vanadiumâ”salen Complexes in Acidified Dichloromethane. Inorganic Chemistry, 1999, 38, 3704-3708.	1.9	57
44	Improving Charge/Discharge Properties of Radical Polymer Electrodes Influenced Strongly by Current Collector/Carbon Fiber Interface. Journal of Physical Chemistry B, 2010, 114, 8335-8340.	1.2	57
45	Anionic Polymerization of 4-Methacryloyloxy-TEMPO Using an MMA-Capped Initiator. ACS Macro Letters, 2014, 3, 240-243.	2.3	57
46	Dual Dopable Poly(phenylacetylene) with Nitronyl Nitroxide Pendants for Reversible Ambipolar Charging and Discharging. Chemistry Letters, 2011, 40, 184-185.	0.7	50
47	Robust and efficient charge storage by uniform grafting of TEMPO radical polymer around multi-walled carbon nanotubes. Journal of Materials Chemistry A, 2013, 1, 2999.	5.2	46
48	Poly(vinyldibenzothiophenesulfone): Its Redox Capability at Very Negative Potential Toward an Allâ€Organic Rechargeable Device with Highâ€Energy Density. Advanced Functional Materials, 2018, 28, 1805858.	7.8	45
49	Electrochemical sensor for superoxide anion radical using polymeric iron porphyrin complexes containing axial 1-methylimidazole ligand as cytochromec mimics. Polymers for Advanced Technologies, 2005, 16, 287-292.	1.6	44
50	Electrolyte anion-assisted charge transportation in poly(oxoammonium cation/nitroxyl radical) redox gels. Journal of Materials Chemistry, 2012, 22, 13669.	6.7	42
51	Self-doping inspired zwitterionic pendant design of radical polymers toward a rocking-chair-type organic cathode-active material. Journal of Materials Chemistry A, 2013, 1, 1326-1333.	5.2	42
52	Full Organic Aqueous Battery Based on TEMPO Small Molecule with Millimeter-Thick Electrodes. Chemistry of Materials, 2019, 31, 1869-1880.	3.2	42
53	Synthetic Routes to Polyheteroacenes:Â Characterization of a Heterocyclic Ladder Polymer Containing Phenoxathiinium-type Building Blocks. Macromolecules, 2002, 35, 67-78.	2.2	41
54	Electrochemical Detection and Sensing of Reactive Oxygen Species. Current Organic Chemistry, 2005, 9, 1685-1697.	0.9	41

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55	Hydrophilic Organic Redox-Active Polymer Nanoparticles for Higher Energy Density Flow Batteries. ACS Applied Polymer Materials, 2019, 1, 188-196.	2.0	40
56	High-Spin Polyphenoxyl Based on Poly(1,4-phenyleneethynylene). Journal of Organic Chemistry, 1999, 64, 7129-7134.	1.7	39
57	First Synthesis of High Molecular Weight Poly(2,6-difluoro-1,4-phenylene oxide) by Oxidative Polymerization. Macromolecules, 2000, 33, 5766-5769.	2.2	39
58	Chargeâ€“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. Macromolecules, 2017, 50, 1950-1958.	2.2	39
59	Lowâ€Cost, Organic Lightâ€Emitting Electrochemical Cells with Massâ€Producible Nanoimprinted Substrates Made Using Rollâ€toâ€Roll Methods. Advanced Materials Technologies, 2017, 2, 1600293.	3.0	38
60	Synthesis of Reactive Functionalized Oligo(p-phenylene sulfide)s. Macromolecules, 1995, 28, 409-416.	2.2	37
61	Reversible Reduction of the TEMPO Radical: One Step Closer to an All-Organic Redox Flow Battery. ACS Sustainable Chemistry and Engineering, 2020, 8, 17988-17996.	3.2	37
62	Redox equilibrium of a zwitterionic radical polymer in a non-aqueous electrolyte as a novel Li+ host material in a Li-ion battery. Journal of Materials Chemistry A, 2013, 1, 9608.	5.2	36
63	Designing current collector/composite electrode interfacial structure of organic radical battery. Journal of Power Sources, 2011, 196, 7806-7811.	4.0	35
64	Rechargeable proton exchange membrane fuel cell containing an intrinsic hydrogen storage polymer. Communications Chemistry, 2020, 3, .	2.0	35
65	Synthesis of amphiphilic block copolymers bearing stable nitroxyl radicals. Journal of Polymer Science Part A, 2010, 48, 5404-5410.	2.5	33
66	TEMPO-substituted polyacrylamide for an aqueous electrolyte-typed and organic-based rechargeable device. Science China Chemistry, 2012, 55, 822-829.	4.2	32
67	Synthesis of Lithium-ion Conducting Polymers Designed by Machine Learning-based Prediction and Screening. Chemistry Letters, 2019, 48, 130-132.	0.7	32
68	Liposomal Surface-Loading of Water-Soluble Cationic Iron(III) Porphyrins as Anticancer Drugs. Molecular Pharmaceutics, 2004, 1, 387-389.	2.3	31
69	Structure and redox properties of electropolymerized film obtained from ironmeso-tetrakis(3-thienyl)porphyrin. Polymers for Advanced Technologies, 2005, 16, 616-621.	1.6	31
70	Highly Stable Gold(III) Complex with a Hydantoin Ligand in Alkaline Media. Inorganic Chemistry, 2005, 44, 6915-6917.	1.9	31
71	Facilitated oxygen transport through a Nafion membrane containing cobaltporphyrin as a fixed oxygen carrier. Polymer, 2008, 49, 5659-5664.	1.8	31
72	A Novel Decavanadium(V) Cluster with a Chiral Framework:Â [(OV)10(Î¼2-O)9(Î¼3-O)3(C5H7O2)6] Having an ApproximateC3Symmetry. Journal of the American Chemical Society, 1998, 120, 237-238.	6.6	30

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73	A Î¼-oxo diiron(III) complex with a short Feâ€“Fe distance: crystal structure of (Î¼-oxo)bis[N,Nâ€²-o-phenylenebis(salicylideneiminato)iron(III)]. Inorganica Chimica Acta, 2001, 321, 205-208.	1.2	30
74	Synthesis of Poly(oxoammonium salt)s and Their Electrical Properties in the Organic Thin Film Device. Chemistry Letters, 2009, 38, 1160-1161.	0.7	30
75	Synthesis and Chargeâ€“Discharge Properties of Organometallic CoÂpolymers of Ferrocene and TriphenÂylamine as Cathode Active Materials for Organicâ€Battery Applications. European Journal of Inorganic Chemistry, 2016, 2016, 1030-1035.	1.0	30
76	Characterization of PEDOT-Quinone conducting redox polymers in water-in-salt electrolytes for safe and high-energy Li-ion batteries. Electrochemistry Communications, 2019, 105, 106489.	2.3	30
77	Ultrathin and Stretchable Rechargeable Devices with Organic Polymer Nanosheets Conformable to Skin Surface. Small, 2019, 15, 1805296.	5.2	30
78	Alkylsulfonioarylene and Thioarylene Polymers Derived from Sulfonium Electrophiles. Bulletin of the Chemical Society of Japan, 2003, 76, 15-47.	2.0	29
79	Oxygen-enriched electrolytes based on perfluorochemicals for high-capacity lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 10845-10850.	5.2	29
80	Facile charge transport and storage by a TEMPO-populated redox mediating polymer integrated with polyaniline as electrical conducting path. Polymer Journal, 2015, 47, 212-219.	1.3	29
81	Poly(dihydroxybenzoquinone): its high-density and robust charge storage capability in rechargeable acidic polymerâ€“air batteries. Chemical Communications, 2020, 56, 4055-4058.	2.2	29
82	Electrochemical Synthesis of a Polypyrrole Thin Film with Supercritical Carbon Dioxide as a Solvent. Langmuir, 2005, 21, 12303-12308.	1.6	28
83	Nanolithographic patterning via electrochemical oxidation of stable poly(nitroxide radical)s to poly(oxoammonium salt)s. Journal of Materials Chemistry, 2010, 20, 9616.	6.7	28
84	A ketone/alcohol polymer for cycle of electrolytic hydrogen-fixing with water and releasing under mild conditions. Nature Communications, 2016, 7, 13032.	5.8	28
85	Coordination of BF4- to Oxovanadium(V) Complexes, Evidenced by the Redox Potential of Oxovanadium(IV/V) Couples in CH2Cl2. Inorganic Chemistry, 2003, 42, 1070-1075.	1.9	27
86	TEMPO/Viologen Electrochemical Heterojunction for Diffusion-Controlled Redox Mediation: A Highly Rectifying Bilayer-Sandwiched Device Based on Cross-Reaction at the Interface between Dissimilar Redox Polymers. ACS Applied Materials & Interfaces, 2014, 6, 4043-4049.	4.0	27
87	Metallopolyyne polymers with ferrocenyl pendant ligands as cathode-active materials for organic battery application. Journal of Organometallic Chemistry, 2016, 812, 51-55.	0.8	27
88	Nonconjugated Redox-Active Polymer Mediators for Rapid Electrocatalytic Charging of Lithium Metal Oxides. ACS Applied Energy Materials, 2019, 2, 6375-6382.	2.5	27
89	Toward Improved Performance of All-Organic Nitroxide Radical Batteries with Ionic Liquids: A Theoretical Perspective. ACS Sustainable Chemistry and Engineering, 2019, 7, 5367-5375.	3.2	27
90	Perovskite/TiO₂ Interface Passivation Using Poly(vinylcarbazole) and Fullerene for the Photovoltaic Conversion Efficiency of 21%. ACS Applied Energy Materials, 2019, 2, 2848-2853.	2.5	27

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91	Depolymerization of Poly(2,6-dimethyl-1,4-phenylene oxide) under Oxidative Conditions. Chemistry - A European Journal, 2003, 9, 4240-4246.	1.7	26
92	Preparation of pH-sensitive liposomes retaining SOD mimic and their anticancer effect. Colloids and Surfaces B: Biointerfaces, 2008, 67, 54-58.	2.5	26
93	Supramolecular Organic Radical Gels Formed with 2,2,6,6-Tetramethylpiperidin-1-oxyl-Substituted Cyclohexanediamines: A Very Efficient Charge-Transporting and -Storable Soft Material. Chemistry of Materials, 2017, 29, 5942-5947.	3.2	26
94	Electroreduction ofÎ¼-Oxo Iron(III) Porphyrins Adsorbed on an Electrode Leading to a Cofacial Geometry for the Iron(II) Complex: Unexpected Active Site for the Catalytic Reduction of O2to H2O. Bulletin of the Chemical Society of Japan, 2000, 73, 1153-1163.	2.0	25
95	Facile grafting-onto-preparation of block copolymers of TEMPO and glycidyl methacrylates on an oxide substrate as an electrode-active layer. Polymer, 2015, 68, 310-314.	1.8	25
96	Conducting Redox Polymer as a Robust Organic Electrodeâ€Active Material in Acidic Aqueous Electrolyte towards Polymerâ€“Air Secondary Batteries. ChemSusChem, 2020, 13, 2280-2285.	3.6	25
97	Electrocatalysis for dioxygen reduction by a Î¼-oxo decavanadium complex in alkaline medium and its application to a cathode catalyst in air batteries. Journal of Power Sources, 2004, 130, 286-290.	4.0	24
98	Emerging Organosulfonium Electrophiles as Unique Reagents for Carbonâ€“Sulfur Bond Formation: Prospects in Synthetic Chemistry of Organosulfur Compounds. Chemistry Letters, 2016, 45, 102-109.	0.7	24
99	Electrochemical and Ferromagnetic Couplings in 4,4â€˜,4â€˜Ââ€˜-(1,3,5-Benzenetriyl)tris(phenoxyl) Radical Formation. Journal of Organic Chemistry, 2001, 66, 1680-1685.	1.7	23
100	Ultrafast Charge/Discharge by a 99.9% Conventional Lithium Iron Phosphate Electrode Containing 0.1% Redox-Active Fluoflavin Polymer. ACS Energy Letters, 2020, 5, 1712-1717.	8.8	23
101	Catalytic behavior of a Î¼-oxo dimanganese(III) octaethylporphyrin in O2 reduction. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3393-3399.	1.7	22
102	Crystal structure and reactivity of a five-coordinate chloroiron(III) complex with a bulky tetradentate Schiff base ligand. Inorganica Chimica Acta, 2003, 355, 414-419.	1.2	22
103	Biodegradable and Electroactive TEMPOâ€Substituted Acrylamide/Lactide Copolymers. Macromolecular Bioscience, 2010, 10, 1203-1209.	2.1	22
104	Polymerization of lactic O-carboxylic anhydride using organometallic catalysts. Chinese Journal of Polymer Science (English Edition), 2011, 29, 197-202.	2.0	22
105	Redox-active Hydroxy-TEMPO Radical Immobilized in Nafion Layer for an Aqueous Electrolyte-based and Dye-sensitized Solar Cell. Chemistry Letters, 2014, 43, 480-482.	0.7	22
106	Integrating multiple materials science projects in a single neural network. Communications Materials, 2020, 1, .	2.9	22
107	Oxidative polymerization of pyrrole with a vanadium dinuclear complex as a two-electron redox catalyst. Journal of Electroanalytical Chemistry, 1997, 438, 167-171.	1.9	21
108	The First Oxovanadium Ring in [{OV(salen)}2(Î¼-F)][VO(salen)][BF4]Â·(CH2Cl2)xCrystals. Journal of the American Chemical Society, 2003, 125, 5630-5631.	6.6	21

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109	Reduction of 2,3,5-Triphenyl-2H-tetrazolium Chloride in the Presence of Polyelectrolytes Containing 4-Styrenesulfonate Moieties. Journal of Physical Chemistry B, 2008, 112, 5350-5354.	1.2	21
110	Synthesis of Poly(TEMPOâ€Substituted Glycidyl Ether) by Utilizing tâ€BuOK/18â€Crownâ€6 for an Organic Cathodeâ€Active Material. Macromolecular Symposia, 2015, 351, 90-96.	0.4	21
111	Metalâ€Free, Solidâ€State, Paperlike Rechargeable Batteries Consisting of Redoxâ€Active Polyethers. ChemSusChem, 2020, 13, 2443-2448.	3.6	21
112	Unravelling kinetic and mass transport effects on two-electron storage in radical polymer batteries. Journal of Materials Chemistry A, 2021, 9, 13071-13079.	5.2	21
113	Acid-Promoted Electron Transfer to Facilitate Oxidative Polymerization of Diaryl Disulfides. Bulletin of the Chemical Society of Japan, 1994, 67, 1456-1461.	2.0	20
114	(Î¼-Peroxo)bis[pyridine(phthalocyaninato)iron(III)] as a convenient catalyst for the four-electron reduction of dioxygen. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3737-3742.	1.7	20
115	Antiâ€Oxidizing Radical Polymerâ€Incorporated Perovskite Layers and their Photovoltaic Characteristics in Solar Cells. ChemSusChem, 2019, 12, 5207-5212.	3.6	20
116	Structure and redox properties of a novel decavanadium cluster [(V˜...O)10(Î¼2-O)9(Î¼3-O)3(C5H7O2)6] in dichloromethane. Journal of Electroanalytical Chemistry, 2001, 498, 136-141.	1.9	19
117	Synthesis and Electrochemistry of Schiff Base Cobalt(III) Complexes and Their Catalytic Activity for Copolymerization of Epoxide and Carbon Dioxide. Macromolecular Chemistry and Physics, 2010, 211, 669-676.	1.1	19
118	Enhanced bimolecular exchange reaction through programmed coordination of a five-coordinate oxovanadium complex for efficient redox mediation in dye-sensitized solar cells. Dalton Transactions, 2013, 42, 16090.	1.6	19
119	BODIPY-Sensitized Photocharging of Anthraquinone-Populated Polymer Layers for Organic Photorechargeable Air Battery. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 243-250.	1.9	19
120	Dynamic switching of ionic conductivity by cooperative interaction of polyviologen and liquid crystals for efficient charge storage. Journal of Materials Chemistry A, 2016, 4, 3249-3252.	5.2	19
121	Polymerâ€Based Whiteâ€Lightâ€Emitting Electrochemical Cells with Very High Colorâ€Rendering Index Based on Blueâ€Green Fluorescent Polyfluorenes and Redâ€Phosphorescent Iridium Complexes. ChemPlusChem, 2018, 83, 463-469.	1.3	19
122	Crystal structures of dimeric manganese(III) complexes of tetradentate Schiff-base ligands with ancillary axial donors. Inorganica Chimica Acta, 2000, 305, 184-188.	1.2	18
123	Polymerization of Methyl Phenyl Sulfoxide under Acidic Conditions:Â Synthesis and X-ray Structure Analysis of a Phenylene Sulfonium Polymer. Macromolecules, 2001, 34, 1172-1179.	2.2	18
124	Low-Energy Driven Electrochromic Devices Using Radical Polymer as Transparent Counter Electroactive Material. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2007, 20, 29-34.	0.1	18
125	Reversible Hydrogen Releasing and Fixing with Poly(Vinylfluorenol) through a Mild Irâ€Catalyzed Dehydrogenation and Electrochemical Hydrogenation. Macromolecular Rapid Communications, 2019, 40, e1900139.	2.0	18
126	Synthesis and Characterization of Nickel Dithiocarbamate Complexes Bearing Ferrocenyl Subunits. Chemistry - A European Journal, 1999, 5, 3193-3201.	1.7	17

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127	Copper-Catalyzed Oxidative Coupling of 2,4,6-Trimethylphenol with Oxygen. Chemistry Letters, 2000, 29, 1318-1319.	0.7	17
128	Conducting Redox Polymer as Organic Anode Material for Polymerâ€Manganese Secondary Batteries. ChemElectroChem, 2020, 7, 3336-3340.	1.7	17
129	Preparation of Poly(thio-1,4-phenylene)s by Oxygen-Oxidative Polymerization of Diaryl Disulfides. Bulletin of the Chemical Society of Japan, 1994, 67, 251-256.	2.0	16
130	Palladium-catalyzed synthesis of oligo(methylthio)aniline and conversion to polyacene-type electrolytes bearing phenothiazinium repeating units. Macromolecular Chemistry and Physics, 2002, 203, 1328-1336.	1.1	16
131	Porphyrin-Dye Sensitized Solar Cell Utilizing Nitroxide Radical Mediator. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2010, 23, 353-355.	0.1	16
132	Polyviologen as the charge-storage electrode of an aqueous electrolyte- and organic-based dye-sensitized solar cell. Polymer, 2015, 68, 353-357.	1.8	16
133	Charge- and Proton-Storage Capability of Naphthoquinone-Substituted Poly(allylamine) as Electrode-Active Material for Polymerâ€“Air Secondary Batteries. ACS Applied Energy Materials, 2020, 3, 12019-12024.	2.5	16
134	Electrocatalytic Reduction of Dioxygen to Water by a Carbon Electrode Coated with (Î¼-Oxo)bis[(meso-tetraphenylporphyrinato)iron(III)]: a Convenient Template for Cofacially Oriented Iron(II) Porphyrins. Chemistry Letters, 1998, 27, 233-234.	0.7	15
135	Molecular Structure of aÎ¼-Oxo Chromiumâ€“Iron Complex: Rare Example of a Crystallographically CharacterizedÎ¼-Oxo Heterometallic Porphyrin. Bulletin of the Chemical Society of Japan, 1999, 72, 1781-1784.	2.0	15
136	Cobaltporphyrin-adsorbed carbon black: highly efficient electrocatalysts for oxygen reduction. Polymers for Advanced Technologies, 2005, 16, 702-705.	1.6	15
137	A rechargeable battery based on hydrophilic radical polymer electrode and its green assessment. Green Chemistry Letters and Reviews, 2009, 2, 169-174.	2.1	15
138	Ag nanocluster-based color converters for white organic light-emitting devices. Journal of Applied Physics, 2017, 122, .	1.1	15
139	Hole-transporting diketopyrrolopyrrole-thiophene polymers and their additive-free application for a perovskite-type solar cell with an efficiency of 16.3%. Polymer Journal, 2019, 51, 91-96.	1.3	15
140	Hydrophilic Anthraquinone-Substituted Polymer: Its Environmentally Friendly Preparation and Efficient Charge/Proton-Storage Capability for Polymerâ€“Air Secondary Batteries. Macromolecules, 2021, 54, 4854-4859.	2.2	15
141	Tackling the Challenge of a Huge Materials Science Search Space with Quantumâ€Inspired Annealing. Advanced Intelligent Systems, 2021, 3, 2000209.	3.3	15
142	Poly(norbornyl-NDIs) as a potential cathode-active material in rechargeable charge storage devices. RSC Advances, 2016, 6, 42911-42916.	1.7	14
143	Command Surface of Self-Organizing Structures by Radical Polymers with Cooperative Redox Reactivity. Journal of the American Chemical Society, 2017, 139, 13600-13603.	6.6	14
144	Polysulfonium as a new electrode-modifying polyelectrolyte. Journal of Electroanalytical Chemistry, 2001, 498, 232-236.	1.9	13

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145	Enhanced catalytic activity of oxovanadium complexes in oxidative polymerization of diphenyl disulfide. Polymer Chemistry, 2016, 7, 2087-2091.	1.9	13
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