

Ronny Neumann

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
167	A ruthenium-substituted polyoxometalate as an inorganic dioxygenase for activation of molecular oxygen. <i>Nature</i> , 1997 , 388, 353-355	50.4	314
166	Polyoxometalate Complexes in Organic Oxidation Chemistry. <i>Progress in Inorganic Chemistry</i> , 2007 , 317-370		232
165	New heterogeneous polyoxometalate based mesoporous catalysts for hydrogen peroxide mediated oxidation reactions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 884-90	16.4	217
164	A water-soluble and "self-assembled" polyoxometalate as a recyclable catalyst for oxidation of alcohols in water with hydrogen peroxide. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5280-1	16.4	181
163	Dioxygen in Polyoxometalate Mediated Reactions. <i>Chemical Reviews</i> , 2018 , 118, 2680-2717	68.1	181
162	Photoreduction of carbon dioxide to carbon monoxide with hydrogen catalyzed by a rhenium(I) phenanthroline-polyoxometalate hybrid complex. <i>Journal of the American Chemical Society</i> , 2011 , 133, 188-90	16.4	179
161	Carbon-carbon and carbon-nitrogen coupling reactions catalyzed by palladium nanoparticles derived from a palladium substituted Keggin-type polyoxometalate. <i>Organic Letters</i> , 2002 , 4, 3529-32	6.2	175
160	Mild, aqueous, aerobic, catalytic oxidation of methane to methanol and acetaldehyde catalyzed by a supported bipyrimidinylplatinum-polyoxometalate hybrid compound. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10236-7	16.4	170
159	Activation of molecular oxygen, polyoxometalates, and liquid-phase catalytic oxidation. <i>Inorganic Chemistry</i> , 2010 , 49, 3594-601	5.1	165
158	Molecular oxygen and oxidation catalysis by phosphovanadomolybdates. <i>Chemical Communications</i> , 2006 , 2529-38	5.8	164
157	Electron and oxygen transfer in polyoxometalate, H(5)PV(2)Mo(10)O(40), catalyzed oxidation of aromatic and alkyl aromatic compounds: evidence for aerobic Mars-van Krevelen-type reactions in the liquid homogeneous phase. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8531-42	16.4	157
156	Polyethylene glycol as a non-ionic liquid solvent for polyoxometalate catalyzed aerobic oxidation. <i>Chemical Communications</i> , 2002 , 876-7	5.8	149
155	Alkene oxidation catalyzed by a ruthenium-substituted heteropolyanion, SiRu(L)W11O39: the mechanism of the periodate-mediated oxidative cleavage. <i>Journal of the American Chemical Society</i> , 1990 , 112, 6025-6031	16.4	147
154	Selective aerobic oxidative dehydrogenation of alcohols and amines catalyzed by a supported molybdenum-vanadium heteropolyanion salt Na5PMo2V2O40. <i>Journal of Organic Chemistry</i> , 1991 , 56, 5707-5710	4.2	146
153	Phenanthroline decorated by a crown ether as a module for metallorganic-polyoxometalate hybrid catalysts: the Wacker type oxidation of alkenes with nitrous oxide as terminal oxidant. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4-5	16.4	134
152	Aerobic oxidative dehydrogenations catalyzed by the mixed-addenda heteropolyanion PV2Mo10O405-: a kinetic and mechanistic study.. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7278-7286	16.4	132
151	Electrophilic activation of hydrogen peroxide: selective oxidation reactions in perfluorinated alcohol solvents. <i>Organic Letters</i> , 2000 , 2, 2861-3	6.2	126

150	Alkylated polyethyleneimine/polyoxometalate synzymes as catalysts for the oxidation of hydrophobic substrates in water with hydrogen peroxide. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11762-3	16.4	124
149	Molecular Oxygen Activation by a Ruthenium-Substituted Sandwich-Type Polyoxometalate. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11969-11976	16.4	124
148	Photochemical reduction of carbon dioxide catalyzed by a ruthenium-substituted polyoxometalate. <i>Chemistry - A European Journal</i> , 2010 , 16, 1356-64	4.8	123
147	Synthesis of dendritic polyoxometalate complexes assembled by ionic bonding and their function as recoverable and reusable oxidation catalysts. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2924-8	16.4	121
146	Organometallic[bond]polyoxometalate hybrid compounds: metallosalen compounds modified by Keggin type polyoxometalates. <i>Inorganic Chemistry</i> , 2003 , 42, 3677-84	5.1	118
145	Aqueous Biphasic Oxidation: A Water-Soluble Polyoxometalate Catalyst for Selective Oxidation of Various Functional Groups with Hydrogen Peroxide. <i>Advanced Synthesis and Catalysis</i> , 2004 , 346, 339-345	5.6	115
144	Oxygen transfer from sulfoxides: oxidation of alkylarenes catalyzed by a polyoxomolybdate, [PMo12O40]3-. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4198-9	16.4	115
143	Selective aerobic oxidation of alcohols with a combination of a polyoxometalate and nitroxyl radical as catalysts. <i>Journal of Organic Chemistry</i> , 2001 , 66, 8650-3	4.2	115
142	Strategies for oxidation catalyzed by polyoxometalates at the interface of homogeneous and heterogeneous catalysis. <i>Topics in Catalysis</i> , 2005 , 34, 93-99	2.3	104
141	Oxidative C-C bond cleavage of primary alcohols and vicinal diols catalyzed by H5PV2Mo10O40 by an electron transfer and oxygen transfer reaction mechanism. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14474-6	16.4	100
140	Electron transfer-oxygen transfer oxygenation of sulfides catalyzed by the H5PV2Mo10O40 polyoxometalate. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11446-8	16.4	96
139	A highly chemoselective, diastereoselective, and regioselective epoxidation of chiral allylic alcohols with hydrogen peroxide, catalyzed by sandwich-type polyoxometalates: enhancement of reactivity and control of selectivity by the hydroxy group through metal-alcoholate bonding. <i>Journal of Organic Chemistry</i> , 2002 , 67, 1701-8	4.2	96
138	Aromatization of hydrocarbons by oxidative dehydrogenation catalyzed by the mixed addenda heteropoly acid H5PMo10V2O40. <i>Journal of Organic Chemistry</i> , 1989 , 54, 4607-4610	4.2	96
137	Activation of nitrous oxide and selective epoxidation of alkenes catalyzed by the manganese-substituted polyoxometalate, [Mn(III)2ZnW(Zn2W9O34)2]10-. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8788-9	16.4	93
136	Hydroxylation of Alkanes with Molecular Oxygen Catalyzed by a New Ruthenium-Substituted Polyoxometalate, [WZnRu(OH)(H2O)(ZnW9O34)2]11- <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1587-1589		91
135	Characterization of manganese(V)-oxo polyoxometalate intermediates and their properties in oxygen-transfer reactions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15451-60	16.4	89
134	The high-valent iron-oxo species of polyoxometalate, if it can be made, will be a highly potent catalyst for C-H hydroxylation and double-bond epoxidation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17712-8	16.4	87
133	A Thiourea Tether in the Second Coordination Sphere as a Binding Site for CO and a Proton Donor Promotes the Electrochemical Reduction of CO to CO Catalyzed by a Rhenium Bipyridine-Type Complex. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12451-12456	16.4	83

132	Electrophilic aromatic chlorination and haloperoxidation of chloride catalyzed by polyfluorinated alcohols: a new manifestation of template catalysis. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12116-7	16.4	81
131	Solvent-Anchored Supported Liquid Phase Catalysis: Polyoxometalate-Catalyzed Oxidations. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1738-1740		75
130	Low-Temperature Activation of Dioxygen and Hydrocarbon Oxidation Catalyzed by a Phosphovanadomolybdate: Evidence for a Mars-Mann Krevelen Type Mechanism in a Homogeneous Liquid Phase. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4088-4090	16.4	75
129	Titanium phosphonate porous materials constructed from dendritic tetraphosphonates. <i>Chemistry - A European Journal</i> , 2006 , 12, 3507-14	4.8	74
128	Preparation and characterization of new ruthenium and osmium containing polyoxometalates, [M(DMSO) ₃ Mo ₇ O ₂₄](4-) (M = Ru(II), Os(II)), and their use as catalysts for the aerobic oxidation of alcohols. <i>Inorganic Chemistry</i> , 2003 , 42, 3331-9	5.1	72
127	Synthesis, characterization and catalytic activity of a Wilkinson's type metal-organic-polyoxometalate hybrid compound. <i>Chemical Communications</i> , 2003 , 2690-1	5.8	71
126	Activation of nitrous oxide and selective oxidation of alcohols and alkylarenes catalyzed by the [PV ₂ Mo ₁₀ O ₄₀] ⁵⁻ polyoxometalate ion. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 92-5	16.4	70
125	Oxidations with hydrogen peroxide catalysed by the [WZnMn(II) ₂ (ZnW ₉ O ₃₄) ₂] ¹²⁻ polyoxometalate. <i>Tetrahedron</i> , 1996 , 52, 8781-8788	2.4	69
124	Oxidation of activated phenols by dioxygen catalysed by the H ₅ PV ₂ Mo ₁₀ O ₄₀ heteropolyanion. <i>Tetrahedron Letters</i> , 1992 , 33, 1795-1798	2	69
123	Selective ortho hydroxylation of nitrobenzene with molecular oxygen catalyzed by the H ₅ PV ₂ Mo ₁₀ O ₄₀ polyoxometalate. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9988-9	16.4	67
122	An efficient, catalytic, aerobic, oxidative iodination of arenes using the H ₅ PV ₂ Mo ₁₀ O ₄₀ polyoxometalate as catalyst. <i>Journal of Organic Chemistry</i> , 2003 , 68, 9510-2	4.2	67
121	An example of lipophiloselectivity: the preferred oxidation, in water, of hydrophobic 2-alkanols catalyzed by a cross-linked polyethyleneimine-polyoxometalate catalyst assembly. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15697-700	16.4	66
120	Direct aerobic epoxidation of alkenes catalyzed by metal nanoparticles stabilized by the H ₅ PV ₂ Mo ₁₀ O ₄₀ polyoxometalate. <i>Chemical Communications</i> , 2005 , 4595-7	5.8	65
119	Polyfluorinated quaternary ammonium salts of polyoxometalate anions: fluorous biphasic oxidation catalysis with and without fluorous solvents. <i>Organic Letters</i> , 2003 , 5, 3547-50	6.2	64
118	Computer-generated high-valent iron-oxo and manganese-oxo species with polyoxometalate ligands: how do they compare with the iron-oxo active species of heme enzymes?. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5661-5	16.4	63
117	Oxygenation of methylarenes to benzaldehyde derivatives by a polyoxometalate mediated electron transfer-oxygen transfer reaction in aqueous sulfuric Acid. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5916-22	16.4	62
116	Aerobic carbon-carbon bond cleavage of alkenes to aldehydes catalyzed by first-row transition-metal-substituted polyoxometalates in the presence of nitrogen dioxide. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10941-8	16.4	61
115	Polyoxometalates as Reduction Catalysts: Deoxygenation and Hydrogenation of Carbonyl Compounds. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3331-3334	16.4	61

114	Phenanthroline-polyoxometalate hybrid compounds and the observation of intramolecular charge transfer. <i>Inorganic Chemistry</i> , 2005 , 44, 4900-2	5.1	60
113	Preparation, Characterization, and Catalytic Aerobic Oxidation by a Vanadium Phosphonate Mesoporous Material Constructed from a Dendritic Tetraphosphonate. <i>Chemistry of Materials</i> , 2006 , 18, 2781-2783	9.6	60
112	Polyoxometalate-mediated electron transfer-oxygen transfer oxidation of cellulose and hemicellulose to synthesis gas. <i>Nature Communications</i> , 2014 , 5, 4621	17.4	59
111	Reaction of Aldehydes with the H5PV2Mo10O40 Polyoxometalate and Cooxidation of Alkanes with Molecular Oxygen. <i>Journal of Catalysis</i> , 1999 , 182, 82-91	7.3	59
110	Oxybromination catalysed by the heteropolyanion compound H5PMo10V2O40 in an organic medium: selective para-bromination of phenol. <i>Journal of the Chemical Society Chemical Communications</i> , 1988 , 1285		59
109	Oxygen transfer from sulfoxides: selective oxidation of alcohols catalyzed by polyoxomolybdates. <i>Journal of Organic Chemistry</i> , 2002 , 67, 7075-9	4.2	57
108	Alkene oxidation in water using hydrophobic silica particles derivatized with polyoxometalates as catalysts. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 2277		57
107	Palladium nanoparticles stabilized by alkylated polyethyleneimine as aqueous biphasic catalysts for the chemoselective stereocontrolled hydrogenation of alkenes. <i>Organic Letters</i> , 2006 , 8, 5445-8	6.2	55
106	Aerobic Oxidation of Vicinal Diols Catalyzed by an Anderson-Type Polyoxometalate, [IMo6O24]5- ⁻ . <i>Advanced Synthesis and Catalysis</i> , 2002 , 344, 1017-1021	5.6	55
105	Quinones as co-catalysts and models for the surface of active carbon in the phosphovanadomolybdate-catalyzed aerobic oxidation of benzylic and allylic alcohols: synthetic, kinetic, and mechanistic aspects. <i>Chemistry - A European Journal</i> , 2000 , 6, 875-82	4.8	55
104	Real-time molecular scale observation of crystal formation. <i>Nature Chemistry</i> , 2017 , 9, 369-373	17.6	54
103	Photochemical Reduction of CO with Visible Light Using a Polyoxometalate as Photoreductant. <i>Chemistry - A European Journal</i> , 2017 , 23, 92-95	4.8	52
102	Synthesis, Catalytic Activity in Oxidation Reactions, and Recyclability of Stable Polyoxometalate-Centred Dendrimers. <i>Advanced Synthesis and Catalysis</i> , 2004 , 346, 1445-1448	5.6	50
101	Preferential catalytic hydrogenation of aromatic compounds versus ketones with a palladium substituted polyoxometalate as pre-catalyst. <i>New Journal of Chemistry</i> , 2002 , 26, 272-274	3.6	48
100	Aerobic hydrocarbon oxidation catalyzed by the vanadomolybdophosphate polyoxometalate, H5PV2Mo10O40, supported on mesoporous MCM-41. <i>Catalysis Letters</i> , 1999 , 63, 189-192	2.8	48
99	Aerobic Oxidation of Primary Aliphatic Alcohols to Aldehydes Catalyzed by a Palladium(II) Polyoxometalate Catalyst. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 293-298	5.6	47
98	Highly efficient recycling of a "sandwich" type polyoxometalate oxidation catalyst using solvent resistant nanofiltration. <i>Chemical Communications</i> , 2005 , 1206-8	5.8	47
97	Computational insight into the initial steps of the Mars-van Krevelen mechanism: electron transfer and surface defects in the reduction of polyoxometalates. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20669-80	16.4	45

96	The nickel-substituted quasi-Wells-Dawson-type polyfluoroxometalate., <i>Chemistry - A European Journal</i> , 2000 , 6, 3722-8	4.8	43
95	Ruthenium substituted Keggin type polyoxomolybdates: synthesis, characterization and use as bifunctional catalysts for the epoxidation of alkenes by molecular oxygen. <i>Polyhedron</i> , 1998 , 17, 3557-3564	2.7	42
94	Switch of the Rate-Determining Step of Water Oxidation by Spin-Selected Electron Transfer in Spinel Oxides. <i>Chemistry of Materials</i> , 2019 , 31, 8106-8111	9.6	41
93	Electron Transfer Oxidation of Benzene and Aerobic Oxidation to Phenol. <i>ACS Catalysis</i> , 2016 , 6, 6403-6407	4.1	41
92	Selective aerobic oxidation in supercritical carbon dioxide catalyzed by the H5PV2Mo10O40 polyoxometalate. <i>Chemical Communications</i> , 2006 , 2230-2	5.8	41
91	A new non-metal heterogeneous catalyst for the activation of hydrogen peroxide: a perfluorinated ketone attached to silica for oxidation of aromatic amines and alkenes. <i>Chemical Communications</i> , 2001 , 487-488	5.8	40
90	Photoreduction Mechanism of CO ₂ to CO Catalyzed by a Rhenium(I) Polyoxometalate Hybrid Compound. <i>ACS Catalysis</i> , 2016 , 6, 6422-6428	13.1	39
89	A stable "end-on" iron(III)-hydroperoxo complex in water derived from a multi-iron(II)-substituted polyoxometalate and molecular oxygen. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9908-12	16.4	39
88	Polyoxometalate-catalyzed insertion of oxygen from O(2) into tin-alkyl bonds. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19304-10	16.4	38
87	Aqueous biphasic catalysis with polyoxometalates: Oximation of ketones and aldehydes with aqueous ammonia and hydrogen peroxide. <i>Green Chemistry</i> , 2006 , 8, 679	10	37
86	Desulfurization of hydrocarbons by electron transfer oxidative polymerization of heteroaromatic sulfides catalyzed by H5PV2Mo10O40 polyoxometalate. <i>ChemSusChem</i> , 2011 , 4, 346-8	8.3	35
85	Protonation of phosphovanadomolybdates H(3+x)PV(x)Mo(12-x)O40: computational insight into reactivity. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 4811-26	2.8	35
84	Oxidation of alkylarenes by nitrate catalyzed by polyoxophosphomolybdates: synthetic applications and mechanistic insights. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6356-62	16.4	35
83	Stabilization of Palladium Nanoparticles by Polyoxometalates Appended with Alkylthiol Tethers and their Use as Binary Catalysts for Liquid Phase Aerobic Oxidation. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 1624-1628	5.6	34
82	Dendritic Phosphonates and the in situ Assembly of Polyperoxophosphotungstates: Synthesis and Catalytic Epoxidation of Alkenes with Hydrogen Peroxide. <i>Advanced Synthesis and Catalysis</i> , 2005 , 347, 39-44	5.6	34
81	High-field pulsed EPR spectroscopy for the speciation of the reduced [PV(2)Mo(10)O(40)](6-) polyoxometalate catalyst used in electron-transfer oxidations. <i>Chemistry - A European Journal</i> , 2010 , 16, 10014-20	4.8	33
80	Direct Aerobic Oxidation of Secondary Alcohols Catalysed by Pt(0) Nanoparticles Stabilized by PV2Mo10O40 Polyoxometalate. <i>Catalysis Letters</i> , 2008 , 123, 41-45	2.8	33
79	Inorganic compounds and materials as catalysts for oxidations with aqueous hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2006 , 251, 185-193		33

78	Redirection of oxidation reactions by a polyoxomolybdate: oxydehydrogenation instead of oxygenation of alkanes with tert-butylhydroperoxide in acetic acid. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6437-8	16.4	32
77	Catalysts for monooxygenations made from polyoxometalate: an iron(V)-oxo derivative of the Lindqvist anion. <i>Inorganic Chemistry</i> , 2006 , 45, 8655-63	5.1	29
76	Antimony-Substituted Keggin-Type Polyoxomolybdates: Polar Crystals and Catalytic Oxidative Dehydrogenation of Alcohols. <i>European Journal of Inorganic Chemistry</i> , 2001 , 2001, 789-794	2.3	29
75	Reactivity and O ₂ Formation by Mn(IV)- and Mn(V)-Hydroxo Species Stabilized within a Polyfluoroxometalate Framework. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8738-48	16.4	26
74	Oxidation of carbon monoxide cocatalyzed by palladium(0) and the H(5)PV(2)Mo(10)O(40) polyoxometalate probed by electron paramagnetic resonance and aerobic catalysis. <i>Inorganic Chemistry</i> , 2009 , 48, 7947-52	5.1	26
73	Inorganic-organic hybrid materials based on kegginn type polyoxometalates and organic polyammonium cations. <i>Journal of Molecular Structure</i> , 2003 , 656, 27-35	3.4	26
72	Dicobalt-oxo polyoxometalate compound, [(P)-P ₂ W ₁₇ O ₆₁ Co ₂ O] ₁₄ : a potent species for water oxidation, C-H bond activation, and oxygen transfer. <i>Inorganic Chemistry</i> , 2014 , 53, 1779-87	5.1	25
71	Structural variability in manganese(II) complexes of N,N'-bis(2-pyridinylmethylene) ethane (and propane) diamine ligands. <i>Inorganica Chimica Acta</i> , 2009 , 362, 4713-4720	2.7	24
70	Visible-Light Photochemical Reduction of CO to CO Coupled to Hydrocarbon Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6219-6223	16.4	24
69	Electrochemical Hydroxylation of Arenes Catalyzed by a Keggin Polyoxometalate with a Cobalt(IV) Heteroatom. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5403-5407	16.4	23
68	Oxidative dehydrogenation of 4-vinylcyclohexene to styrene catalyzed by PV ₂ Mo ₁₀ O ₅₄ heteropolyacids. <i>Applied Catalysis A: General</i> , 1998 , 172, 67-72	5.1	22
67	Solid-State crystal-to-crystal phase transitions and reversible structure-temperature behavior of phosphovanadomolybdic acid, H ₅ PV ₂ Mo ₁₀ O ₄₀ . <i>Inorganic Chemistry</i> , 2015 , 54, 628-34	5.1	21
66	Iron Age beehives at Tel Rehov in the Jordan valley. <i>Antiquity</i> , 2008 , 82, 629-639	1	20
65	Silica tethered with poly(ethylene and/propylene) oxide as supports for polyoxometalates in catalytic oxidation. <i>Journal of Molecular Catalysis A</i> , 1999 , 146, 291-298		20
64	Diastereoselective and Enantiospecific Direct Reductive Amination in Water Catalyzed by Palladium Nanoparticles Stabilized by Polyethyleneimine Derivatives. <i>ACS Catalysis</i> , 2013 , 3, 1915-1918	13.1	19
63	The Electronic Structure of Reduced Phosphovanadomolybdates and the Implications on Their Use in Catalytic Oxidation Initiated by Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7711-7719	3.8	19
62	Mixed-addenda vanadium-substituted polyfluorooxometalates: synthesis, characterization, and catalytic aerobic oxidation. <i>Inorganic Chemistry</i> , 2000 , 39, 3455-62	5.1	19
61	Selective Visible Light Aerobic Photocatalytic Oxygenation of Alkanes to the Corresponding Carbonyl Compounds. <i>ACS Catalysis</i> , 2019 , 9, 8819-8824	13.1	17

60	Alkane composition variations between darker and lighter colored comb beeswax. <i>Apidologie</i> , 2007 , 38, 453-461	2.3	17
59	Activation of Nitrous Oxide and Selective Oxidation of Alcohols and Alkylarenes Catalyzed by the [PV2Mo10O40]5[Polyoxometalate Ion. <i>Angewandte Chemie</i> , 2003 , 115, 96-99	3.6	16
58	An achiral manganese salen catalyst encapsulated in a peptidic phosphonate homochiral solid for the enantioselective formation of diols by consecutive epoxidation and hydration reactions. <i>Chemical Communications</i> , 2011 , 47, 2535-7	5.8	14
57	An oxonium cation complexed by a noncyclic polyether: the structure of tetraglymeH ⁺ 3O+. <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 547-548		14
56	Structural diversity in manganese, iron and cobalt complexes of the ditopic 1,2-bis(2,2'-bipyridyl-6-yl)ethyne ligand and observation of epoxidation and catalase activity of manganese compounds. <i>Dalton Transactions</i> , 2010 , 39, 7266-75	4.3	13
55	A Tripodal Peptidic Titanium Phosphonate as a Homochiral Porous Solid Medium for the Heterogeneous Enantioselective Hydration of Epoxides. <i>Advanced Synthesis and Catalysis</i> , 2010 , 352, 2159-2165	5.6	13
54	An antimony(V) substituted Keggin heteropolyacid, H4PSbMo11O40: Why is its catalytic activity in oxidation reactions so different from that of H4PVMo11O40?. <i>Journal of Molecular Catalysis A</i> , 2012 , 356, 152-157		12
53	Activation of molecular oxygen by a dioxygenase pathway by a ruthenium bis-bipyridine compound with a proximal selenium site. <i>Journal of the American Chemical Society</i> , 2010 , 132, 517-23	16.4	12
52	Carbon-Hydrogen bond activation of arenes and alkylarenes by electron transfer followed by oxygen transfer catalyzed by vanadium substituted polyoxometalates A comparative study of the reactivity of different polyoxometalate compounds. <i>Journal of Organometallic Chemistry</i> , 2015 , 793, 134-138	2.3	11
51	Visible-Light Photochemical Reduction of CO ₂ to CO Coupled to Hydrocarbon Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 6278-6282	3.6	11
50	On the effect of ion pairing of Keggin type polyanions with quaternary ammonium cations on redox potentials in organic solvents. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22487-93	3.6	11
49	Formation of persulphate from sodium sulphite and molecular oxygen catalysed by H5PV2Mo10O40--aerobic epoxidation and hydrolysis. <i>Chemical Communications</i> , 2014 , 50, 13247-9	5.8	11
48	Structural and magnetic behavior of mono- and dinuclear nickel (II) complexes of N,N'-bis-(3,5-dipiperidin-1-yl-[2,4,6]triazin-1-yl)-pyridin-2-ylmethyl-ethane-1,2-diamine. <i>Inorganica Chimica Acta</i> , 2009 , 362, 4760-4766	2.7	11
47	Aerobic photochemical oxidation in mesoporous Ti-MCM-41: epoxidation of alkenes and oxidation of sulfides. <i>Catalysis Letters</i> , 2000 , 68, 109-111	2.8	11
46	X-ray induced visible luminescence of porphyrins. <i>Photochemistry and Photobiology</i> , 1994 , 59, 385-7	3.6	11
45	Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates 2005 , 223-251		10
44	Polyoxometallate als Reduktionskatalysatoren: Desoxygenierungen und Hydrierungen von Carbonylverbindungen. <i>Angewandte Chemie</i> , 1999 , 111, 3551-3554	3.6	10
43	Photocatalytic splitting of CS ₂ to S ₈ and a carbon-sulfur polymer catalyzed by a bimetallic ruthenium(II) compound with a tertiary amine binding site: toward photocatalytic splitting of CO ₂ ?. <i>Inorganic Chemistry</i> , 2011 , 50, 11273-5	5.1	9

42	A Stable End-On-Iron(III)Hydroperoxo Complex in Water Derived from a Multi-Iron(II)-Substituted Polyoxometalate and Molecular Oxygen. <i>Angewandte Chemie</i> , 2008 , 120, 10056-10060	3.6	8
41	Synthesis and Characterization of Polyoxometalate-Polyamino Dendritic Hybrid Compounds. <i>Journal of Cluster Science</i> , 2006 , 17, 235-243	3	9
40	Computer-Generated High-Valent IronOxo and ManganeseOxo Species with Polyoxometalate Ligands: How do they Compare with the IronOxo Active Species of Heme Enzymes?. <i>Angewandte Chemie</i> , 2004 , 116, 5779-5783	3.6	9
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