

Ronny Neumann

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167
papers

8,530
citations

58
h-index

87
g-index

179
ext. papers

9,077
ext. citations

8.7
avg, IF

6.38
L-index

#	Paper	IF	Citations
167	Electrochemical Formation and Activation of Hydrogen Peroxide from Water on Fluorinated Tin Oxide for Baeyer-Villiger Oxidation Reactions. <i>ACS Catalysis</i> , 2022 , 12, 4149-4155	13.1	0
166	Residue analysis evidence for wine enriched with vanilla consumed in Jerusalem on the eve of the Babylonian destruction in 586 BCE.. <i>PLoS ONE</i> , 2022 , 17, e0266085	3.7	1
165	Molecular Transition Metal Oxide Electrocatalysts for the Reversible Carbon Dioxide-Carbon Monoxide Transformation. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	1
164	Photoelectrochemical Reduction of Carbon Dioxide with a Copper Graphitic Carbon Nitride Photocathode. <i>Chemistry - A European Journal</i> , 2021 , 27, 13513-13517	4.8	0
163	Electrocatalytic Oxyesterification of Hydrocarbons by Tetravalent Lead. <i>ACS Catalysis</i> , 2021 , 11, 10494-10501	5.1	0
162	Photoreduction Mechanism of CO ₂ to CO Catalyzed by a Three-Component Hybrid Construct with a Bimetallic Rhenium Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 1495-1504	13.1	5
161	Reductive Electrochemical Activation of Molecular Oxygen Catalyzed by an Iron-Tungstate Oxide Capsule: Reactivity Studies Consistent with Compound I Type Oxidants. <i>ACS Catalysis</i> , 2020 , 10, 4227-4237	13.1	7
160	Selective Oxidation by H[PVMoO] in a Highly Acidic Medium. <i>Inorganic Chemistry</i> , 2020 , 59, 11945-11952	5.1	5
159	Visible-Light Photochemical Reduction of CO ₂ to CO Coupled to Hydrocarbon Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 6278-6282	3.6	11
158	Visible-Light Photochemical Reduction of CO ₂ to CO Coupled to Hydrocarbon Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6219-6223	16.4	24
157	The formyloxyl radical: electrophilicity, C-H bond activation and anti-Markovnikov selectivity in the oxidation of aliphatic alkenes. <i>Chemical Science</i> , 2020 , 11, 11584-11591	9.4	0
156	Guest Transition Metals in Host Inorganic Nanocapsules: Single Sites, Discrete Electron Transfer, and Atomic Scale Structure. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14504-14512	16.4	6
155	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
154	Aerobic oxygenation catalyzed by first row transition metal complexes coordinated by tetradentate mono-carbon bridged bis-phenanthroline ligands: intra- versus intermolecular carbon-hydrogen bond activation. <i>Dalton Transactions</i> , 2019 , 48, 6396-6407	4.3	3
153	Reversible Temperature Dependent Dimerization of Transition Metal Substituted Quasi Wells-Dawson Polyfluoroxometalates. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 482-485	2.3	2
152	Selective Visible Light Aerobic Photocatalytic Oxygenation of Alkanes to the Corresponding Carbonyl Compounds. <i>ACS Catalysis</i> , 2019 , 9, 8819-8824	13.1	17
151	The kinetics and mechanism of oxidation of reduced phosphovanadomolybdates by molecular oxygen: theory and experiment in concert. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7579-7587	3.6	6

150	Aerobic Electrochemical Oxygenation of Light Hydrocarbons Catalyzed by an Iron Tungsten Oxide Molecular Capsule. <i>ACS Catalysis</i> , 2018 , 8, 3232-3236	13.1	7
149	Coordination of Carbon Dioxide to the Lewis Acid Site of a Zinc-Substituted Polyoxometalate and Formation of an Adduct Using a Polyoxometalate α ,4,6-Trimethylpyridine Frustrated Lewis Pair. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 791-794	2.3	5
148	Electrochemical Hydroxylation of Arenes Catalyzed by a Keggin Polyoxometalate with a Cobalt(IV) Heteroatom. <i>Angewandte Chemie</i> , 2018 , 130, 5501-5505	3.6	3
147	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
146	Self-Assembly through Noncovalent Preorganization of Reactants: Explaining the Formation of a Polyfluoroxometalate. <i>Chemistry - A European Journal</i> , 2018 , 24, 369-379	4.8	4
145	Dioxygen in Polyoxometalate Mediated Reactions. <i>Chemical Reviews</i> , 2018 , 118, 2680-2717	68.1	181
144	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
143	Formation of Alkanes by Aerobic Carbon-Carbon Bond Coupling Reactions Catalyzed by a Phosphovanadomolybdic Acid. <i>ACS Catalysis</i> , 2017 , 7, 2725-2729	13.1	8
142	Hydrogen-Atom Transfer Oxidation with HO Catalyzed by [FeII(1,2-bis(2,2'-bipyridyl-6-yl)ethane(HO))]: Likely Involvement of a (H-Hydroxo)(H ₂ O ₂ -peroxo)diiron(III) Intermediate. <i>Israel Journal of Chemistry</i> , 2017 , 57, 990-998	3.4	
141	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
140	Real-time molecular scale observation of crystal formation. <i>Nature Chemistry</i> , 2017 , 9, 369-373	17.6	54
139	Encapsulation of Arenes within a Porous Molybdenum Oxide {Mo } Nanocapsule. <i>Chemistry - A European Journal</i> , 2016 , 22, 15231-15236	4.8	8
138	Electron Transfer Oxidation of Benzene and Aerobic Oxidation to Phenol. <i>ACS Catalysis</i> , 2016 , 6, 6403-6407	19.1	41
137	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
136	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
135	Aerobic epoxidation catalysed by transition metal substituted polyfluorooxometalates. <i>Dalton Transactions</i> , 2016 , 45, 14534-7	4.3	2
134	Electronic Control of RuII Complexes with Proximal Oxophilic Phenylselenium Tethers: Synthesis, Characterization, and Activation of Molecular Oxygen. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 2757-2763	2.3	2
133	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 , 789, 134-138	2.3	11

132	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
131	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
130	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
129	Dicobalt- β -xo polyoxometalate compound, [(β)-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
128	Formation of persulphate from sodium sulphite and molecular oxygen catalysed by H ₅ PV ₂ Mo ₁₀ O ₄₀ --aerobic epoxidation and hydrolysis. <i>Chemical Communications</i> , 2014 , 50, 13247-9	5.8	11
127	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
126	The Synthesis and Characterization of the Tri-rhenium(VI) Capped WellsDawson Polyoxometalate, [(C ₄ H ₉) ₄ N] ₅ (C ₂ H ₅) ₃ NH}{Re ₃ P ₂ W ₁₅ O ₆₂ }. <i>Journal of Cluster Science</i> , 2014 , 25, 687-693	3	1
125	Polyoxometalate-mediated electron transfer-oxygen transfer oxidation of cellulose and hemicellulose to synthesis gas. <i>Nature Communications</i> , 2014 , 5, 4621	17.4	59
124	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
123	Platinum complexes of cationic ligands for the aerobic oxidation of "inert" perfluoro-substituted alcohols. <i>Chemical Communications</i> , 2013 , 49, 1720-2	5.8	7
122	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
121	Hexagonal Supramolecular Assemblies Based on a RuII(DMSO) ₃ - or OsII(DMSO) ₃ -Capped {HW ₉ O ₃₃ } Isopolyanion with Potassium Cations as Linkers. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1649-1653	2.3	2
120	An antimony(V) substituted Keggin heteropolyacid, H ₄ PSbMo ₁₁ O ₄₀ : Why is its catalytic activity in oxidation reactions so different from that of H ₄ PVMo ₁₁ O ₄₀ ?. <i>Journal of Molecular Catalysis A</i> , 2012 , 356, 152-157		12
119	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
118	Manganese Salen Compounds Embedded within Cross-Linked Chiral Polyethylenimine: Asymmetric Epoxidation in an Aqueous Biphasic Medium. <i>ChemPlusChem</i> , 2012 , 77, 977-981	2.8	4
117	Achiral Ruthenium Catalyst Encapsulated in Titanium Phosphonate Homochiral Peptide-Based Solids for Enantioselective Hydrogenation of Ketones to Secondary Alcohols. <i>ACS Catalysis</i> , 2012 , 2, 2531-2536 ⁵	13.1	5
116	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
115	Copper(I) Complexes of Bipyridine and Terpyridine with Fluorous Tails and the Formation of Crystalline Materials with Fluorous Layers. <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 1792-1796 ²	2.3	2

114	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
113	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
112	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
111	Protonation of phosphovanadomolybdates H(3+x)PV(x)Mo(12-x)O ₄₀ : computational insight into reactivity. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 4811-26	2.8	35
110	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
109	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
108	Activation of molecular oxygen, polyoxometalates, and liquid-phase catalytic oxidation. <i>Inorganic Chemistry</i> , 2010 , 49, 3594-601	5.1	165
107	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
106	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
105	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
104	Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates 2010 , 315-352		2
103	Photochemical reduction of carbon dioxide catalyzed by a ruthenium-substituted polyoxometalate. <i>Chemistry - A European Journal</i> , 2010 , 16, 1356-64	4.8	123
102	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
101	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
100	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
99	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
98	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
97	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

96	Fine-Tuning and Recycling of Homogeneous Tungstate and Polytungstate Epoxidation Catalysts 2008 , 415-428		4
95	Iron Age beehives at Tel Rehov in the Jordan valley. <i>Antiquity</i> , 2008 , 82, 629-639	1	20
94	Direct Aerobic Oxidation of Secondary Alcohols Catalysed by Pt(0) Nanoparticles Stabilized by PV2Mo10O40 5[Polyoxometalate. <i>Catalysis Letters</i> , 2008 , 123, 41-45	2.8	33
93	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
92	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	2.6	39
91	Closed and open framework architectures in copper(II) complexes with triazine substituted N,N'-bis-pyridin-2-ylmethyl-ethane-1,2-diamine ligands. <i>Journal of Molecular Structure</i> , 2008 , 891, 491-497	7	7
90	Polyoxometalate Complexes in Organic Oxidation Chemistry. <i>Progress in Inorganic Chemistry</i> , 2007 , 317-370		232
89	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
88	Alkane composition variations between darker and lighter colored comb beeswax. <i>Apidologie</i> , 2007 , 38, 453-461	2.3	17
87	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
86	Inorganic compounds and materials as catalysts for oxidations with aqueous hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2006 , 251, 185-193		33
85	Titanium phosphonate porous materials constructed from dendritic tetrakisphosphonates. <i>Chemistry - A European Journal</i> , 2006 , 12, 3507-14	4.8	74
84	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
83	Selective aerobic oxidation in supercritical carbon dioxide catalyzed by the H5PV2Mo10O40 polyoxometalate. <i>Chemical Communications</i> , 2006 , 2230-2	5.8	41
82	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
81	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
80	Preparation, Characterization, and Catalytic Aerobic Oxidation by a Vanadium Phosphonate Mesoporous Material Constructed from a Dendritic Tetrakisphosphonate. <i>Chemistry of Materials</i> , 2006 , 18, 2781-2783	9.6	60
79	Molecular oxygen and oxidation catalysis by phosphovanadomolybdates. <i>Chemical Communications</i> , 2006 , 2529-38	5.8	164

78	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
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	Structural and EPR/ENDOR/ESEEM spectroscopic investigations of a vanadomolybdate Keggin-type polyoxometalate in organic solvent. <i>Inorganica Chimica Acta</i> , 2006 , 359, 3072-3078	2.7	3
75	Synthesis and Characterization of Polyoxometalate-Polyamino Dendritic Hybrid Compounds. <i>Journal of Cluster Science</i> , 2006 , 17, 235-243	3	9
74	Highly efficient recycling of a "sandwich" type polyoxometalate oxidation catalyst using solvent resistant nanofiltration. <i>Chemical Communications</i> , 2005 , 1206-8	5.8	47
73	Selective ortho hydroxylation of nitrobenzene with molecular oxygen catalyzed by the H5PV2Mo10O40 polyoxometalate. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9988-9	16.4	67
72	Direct aerobic epoxidation of alkenes catalyzed by metal nanoparticles stabilized by the H5PV2Mo10O40 polyoxometalate. <i>Chemical Communications</i> , 2005 , 4595-7	5.8	65
71	Phenanthroline-polyoxometalate hybrid compounds and the observation of intramolecular charge transfer. <i>Inorganic Chemistry</i> , 2005 , 44, 4900-2	5.1	60
70	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
69	Liquid Phase Oxidation Reactions Catalyzed by Polyoxometalates 2005 , 223-251		10
68	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
67	Precatalyst separation paradigms: alkane functionalization in water utilizing in situ formed [Fe2O(μ-H2O)(μ-OAc)(TPA)2]3+, embedded in surface-derivatized silica, as an MMO model, and fluoros biphasic catalysis for alkane, alkene, and alcohol oxidation chemistry. <i>Topics in Catalysis</i> , 2005 , 33, 105-106	2.3	7
66	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
65	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
64	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
63	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
62	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
61	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</i> , 2004 , 116, 5779-5783	3.6	9

60	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
59	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
58	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
57	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
56	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
55	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
54	Activation of nitrous oxide and selective oxidation of alcohols and alkylarenes catalyzed by the [PV2Mo10O40]5(-) polyoxometalate ion. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 92-5	16.4	70
53	Inorganic-organic hybrid materials based on keggin type polyoxometalates and organic polyammonium cations. <i>Journal of Molecular Structure</i> , 2003 , 656, 27-35	3.4	26
52	An efficient, catalytic, aerobic, oxidative iodination of arenes using the H5PV2Mo10O40 polyoxometalate as catalyst. <i>Journal of Organic Chemistry</i> , 2003 , 68, 9510-2	4.2	67
51	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
50	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> , 2003 , 68, 1721-8	4.2	96
49	Organometallic-polyoxometalate hybrid compounds: metallosalen compounds modified by Keggin type polyoxometalates. <i>Inorganic Chemistry</i> , 2003 , 42, 3677-84	5.1	118
48	Oxidation of Dienes and Polyenes 2003 , 889-926		1
47	Preparation and characterization of new ruthenium and osmium containing polyoxometalates, [M(DMSO)3Mo7O24](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
46	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
45	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
44	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
43	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

42	Oxygen transfer from sulfoxides: selective oxidation of alcohols catalyzed by polyoxomolybdates. <i>Journal of Organic Chemistry</i> , 2002 , 67, 7075-9	4.2	57
41	Polyethylene glycol as a non-ionic liquid solvent for polyoxometalate catalyzed aerobic oxidation. <i>Chemical Communications</i> , 2002 , 876-7	5.8	149
40	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
39	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
38	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
37	Aerobic Oxidation of Vicinal Diols Catalyzed by an Anderson-Type Polyoxometalate, [IMo6O24]5- 2002 , 344, 1017		1
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35	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
34	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
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28	Low-Temperature Activation of Dioxygen and Hydrocarbon Oxidation Catalyzed by a Phosphovanadomolybdate: Evidence for a Mars-van Krevelen Type Mechanism in a Homogeneous Liquid Phase. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 4088-4090	16.4	75
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26	Electrophilic activation of hydrogen peroxide: selective oxidation reactions in perfluorinated alcohol solvents. <i>Organic Letters</i> , 2000 , 2, 2861-3	6.2	126
25	Mixed-addenda vanadium-substituted polyfluoroxometalates: synthesis, characterization, and catalytic aerobic oxidation. <i>Inorganic Chemistry</i> , 2000 , 39, 3455-62	5.1	19

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12	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
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