Mohammad Mahdi Najafpour

List of Publications by Year
in descending order

189 papers	6,361 citations	53794 45 h-index	88630 70 g-index
195 all docs	195 docs citations	195 times ranked	4171 citing authors

#	Article	IF	Citations
1	Manganese Compounds as Water-Oxidizing Catalysts: From the Natural Water-Oxidizing Complex to Nanosized Manganese Oxide Structures. Chemical Reviews, 2016, 116, 2886-2936.	47.7	549
2	Calcium Manganese(III) Oxides (CaMn₂O₄â‹…<i>x</i>â€‰H₂O) as Biomimetic Oxygenâ€Evolving Catalysts. Angewandte Chemie - International Edition, 2010, 49, 2233-2237.	13.8	478
3	Manganese compounds as water oxidizing catalysts for hydrogen production via water splitting: From manganese complexes to nano-sized manganese oxides. International Journal of Hydrogen Energy, 2012, 37, 8753-8764.	7.1	206
4	Nano-sized manganese oxides as biomimetic catalysts for water oxidation in artificial photosynthesis: a review. Journal of the Royal Society Interface, 2012, 9, 2383-2395.	3.4	126
5	Energetic basis of catalytic activity of layered nanophase calcium manganese oxides for water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8801-8806.	7.1	99
6	Nano-size amorphous calciumâ€“manganese oxide as an efficient and biomimetic water oxidizing catalyst for artificial photosynthesis: back to manganese. Dalton Transactions, 2011, 40, 9374.	3.3	94
7	Mixed-valence manganese calcium oxides as efficient catalysts for water oxidation. Dalton Transactions, 2011, 40, 3793-3795.	3.3	91
8	Nano-sized manganese oxide: a proposed catalyst for water oxidation in the reaction of some manganese complexes and cerium(iv) ammonium nitrate. Dalton Transactions, 2012, 41, 10292.	3.3	91
9	Calcium manganese(iv) oxides: biomimetic and efficient catalysts for water oxidation. Dalton Transactions, 2012, 41, 4799.	3.3	90
10	Investigation of photo-electrochemical response of iron oxide/mixed-phase titanium oxide heterojunction toward possible solar energy conversion. International Journal of Hydrogen Energy, 2021, 46, 7241-7253.	7.1	90
11	A very simple method to synthesize nano-sized manganese oxide: an efficient catalyst for water oxidation and epoxidation of olefins. Dalton Transactions, 2012, 41, 11026.	3.3	89
12	Water oxidation by manganese oxides, a new step towards a complete picture: simplicity is the ultimate sophistication. Dalton Transactions, 2013, 42, 12173.	3.3	85
13	Oxygen evolving complex in Photosystem II: Better than excellent. Dalton Transactions, 2011, 40, 9076.	3.3	83
14	Biological water oxidation: Lessons from Nature. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1110-1121.	1.0	82
15	Calcium-manganese oxides as structural and functional models for active site in oxygen evolving complex in photosystem II: Lessons from simple models. Journal of Photochemistry and Photobiology B: Biology, 2011, 104, 111-117.	3.8	78
16	A soluble form of nano-sized colloidal manganese(iv) oxide as an efficient catalyst for water oxidation. Dalton Transactions, 2011, 40, 3805.	3.3	76
17	Biohybrid solar cells: Fundamentals, progress, and challenges. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2018, 35, 134-156.	11.6	76
18	Photo-electrochemistry of metallic titanium/mixed phase titanium oxide. International Journal of Hydrogen Energy, 2021, 46, 19433-19445.	7.1	74

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19	Nano-sized layered aluminium or zincâ€“manganese oxides as efficient water oxidizing catalysts. Dalton Transactions, 2012, 41, 7134.	3.3	67
20	Water oxidation by nano-layered manganese oxides in the presence of cerium(iv) ammonium nitrate: important factors and a proposed self-repair mechanism. New Journal of Chemistry, 2013, 37, 2448.	2.8	67
21	Water oxidation by a nickel complex: New challenges and an alternative mechanism. International Journal of Hydrogen Energy, 2020, 45, 33563-33573.	7.1	64
22	An aluminum/cobalt/iron/nickel alloy as a precatalyst for water oxidation. International Journal of Hydrogen Energy, 2018, 43, 2083-2090.	7.1	62
23	Conversions of Mn oxides to nanolayered Mn oxide in electrochemical water oxidation at near neutral pH, all to a better catalyst: catalyst evolution. Dalton Transactions, 2013, 42, 16683.	3.3	61
24	Water-oxidizing complex in Photosystem II: Its structure and relation to manganese-oxide based catalysts. Coordination Chemistry Reviews, 2020, 409, 213183.	18.8	61
25	A tetranuclear nickel(II) complex for water oxidation: Meeting new challenges. International Journal of Hydrogen Energy, 2019, 44, 2857-2867.	7.1	59
26	Oxygen-evolution reaction by nickel/nickel oxide interface in the presence of ferrate(VI). Scientific Reports, 2020, 10, 8757.	3.3	59
27	Self-assembled layered hybrid [Ru(bpy)3]2+/manganese(iii,iv) oxide: a new and efficient strategy for water oxidation. Chemical Communications, 2011, 47, 11724.	4.1	58
28	Photoelectrochemistry of manganese oxide/mixed phase titanium oxide heterojunction. New Journal of Chemistry, 2020, 44, 3514-3523.	2.8	58
29	Amorphous Manganese-Calcium Oxides as a Possible Evolutionary Origin for the CaMn4 Cluster in Photosystem II. Origins of Life and Evolution of Biospheres, 2011, 41, 237-247.	1.9	57
30	A manganese oxide with phenol groups as a promising structural model for water oxidizing complex in Photosystem II: a â€˜golden fishâ€™. Dalton Transactions, 2012, 41, 3906.	3.3	57
31	Applications of the â€œnano to bulkâ€•Mn oxides: Mn oxide as a Swiss army knife. Coordination Chemistry Reviews, 2015, 285, 65-75.	18.8	57
32	A dinuclear iron complex with a single oxo bridge as an efficient water-oxidizing catalyst in the presence of cerium(<scp>iv</scp>) ammonium nitrate: new findings and current controversies. Catalysis Science and Technology, 2014, 4, 30-33.	4.1	55
33	Damage Management in Water-Oxidizing Catalysts: From Photosystem II to Nanosized Metal Oxides. ACS Catalysis, 2015, 5, 1499-1512.	11.2	55
34	Platinum/manganese oxide nanocomposites as water-oxidizing catalysts: New findings and current controversies. International Journal of Hydrogen Energy, 2015, 40, 10825-10832.	7.1	54
35	Mechanism, decomposition pathway and new evidence for self-healing of manganese oxides as efficient water oxidizing catalysts: new insights. Dalton Transactions, 2013, 42, 14603.	3.3	53
36	Hollandite as a Functional and Structural Model for the Biological Water Oxidizing Complex: Manganese-Calcium Oxide Minerals as a Possible Evolutionary Origin for the CaMn₄Cluster of the Biological Water Oxidizing Complex. Geomicrobiology Journal, 2011, 28, 714-718.	2.0	52

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37	Nanoscale manganese oxide within Faujasite zeolite as an efficient and biomimetic water oxidizing catalyst. Dalton Transactions, 2012, 41, 10156.	3.3	52
38	Nanolayered manganese oxide/poly(4-vinylpyridine) as a biomimetic and very efficient water oxidizing catalyst: toward an artificial enzyme in artificial photosynthesis. Chemical Communications, 2013, 49, 8824.	4.1	52
39	Nano-size layered manganeseâ€“calcium oxide as an efficient and biomimetic catalyst for water oxidation under acidic conditions: comparable to platinum. Dalton Transactions, 2013, 42, 5085.	3.3	50
40	Amorphous manganese oxide-coated montmorillonite as an efficient catalyst for water oxidation. New Journal of Chemistry, 2012, 36, 2514.	2.8	49
41	Nanostructured manganese oxide/carbon nanotubes, graphene and graphene oxide as water-oxidizing composites in artificial photosynthesis. Dalton Transactions, 2014, 43, 10866-10876.	3.3	49
42	New findings and the current controversies for water oxidation by a copper(<scp>ii</scp>)-azo complex: homogeneous or heterogeneous?. Dalton Transactions, 2015, 44, 15435-15440.	3.3	48
43	Water splitting by a pentanuclear iron complex. International Journal of Hydrogen Energy, 2020, 45, 17434-17443.	7.1	48
44	The role of nano-sized manganese oxides in the oxygen-evolution reactions by manganese complexes: towards a complete picture. Dalton Transactions, 2014, 43, 13122-13135.	3.3	47
45	Biological water-oxidizing complex: a nano-sized manganeseâ€“calcium oxide in a protein environment. Photosynthesis Research, 2012, 114, 1-13.	2.9	46
46	A 2-(2-hydroxyphenyl)-1H-benzimidazoleâ€“manganese oxide hybrid as a promising structural model for the tyrosine 161/histidine 190-manganese cluster in photosystem II. Dalton Transactions, 2013, 42, 879.	3.3	46
47	The biological water-oxidizing complex at the nanoâ€“bio interface. Trends in Plant Science, 2015, 20, 559-568.	8.8	46
48	Cobalt/Cobalt Oxide Surface for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 6093-6105.	6.7	44
49	Structural changes of a NiFe-based metal-organic framework during the oxygen-evolution reaction under alkaline conditions. International Journal of Hydrogen Energy, 2021, 46, 19245-19253.	7.1	44
50	The first pentanuclear heterobimetallic coordination cation with CeIII, CeIV and MnII. Inorganic Chemistry Communication, 2011, 14, 125-127.	3.9	43
51	Water oxidation by a soluble iron(<scp>iii</scp>)â€“cyclen complex: new findings. Dalton Transactions, 2016, 45, 2618-2623.	3.3	43
52	Water oxidation catalyzed by two cobalt complexes: new challenges and questions. Catalysis Science and Technology, 2018, 8, 1840-1848.	4.1	43
53	Two new silver(I) complexes with 2,4,6-tris(2-pyridyl)-1,3,5-triazine (tptz): Preparation, characterization, crystal structure and alcohol oxidation activity in the presence of oxone. Polyhedron, 2010, 29, 2837-2843.	2.2	38
54	Nano-sized manganese oxideâ€“bovine serum albumin was synthesized and characterized. It is promising and biomimetic catalyst for water oxidation. RSC Advances, 2012, 2, 11253.	3.6	38

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55	Water oxidation by a copper(<scp>ii</scp>) complex: new findings, questions, challenges and a new hypothesis. Dalton Transactions, 2018, 47, 9021-9029.	3.3	37
56	A highly dispersible, magnetically separable and environmentally friendly nano-sized catalyst for water oxidation. International Journal of Hydrogen Energy, 2016, 41, 4616-4623.	7.1	36
57	Nickelâ€“Vanadium Layered Double Hydroxide under Water-Oxidation Reaction: New Findings and Challenges. ACS Sustainable Chemistry and Engineering, 2019, 7, 17252-17262.	6.7	35
58	The conversion of CoSe 2 to Co oxide under the electrochemical water oxidation condition. International Journal of Hydrogen Energy, 2016, 41, 13469-13475.	7.1	34
59	The application of a nickel(<scp>ii</scp>) Schiff base complex in water oxidation: the importance of nanosized materials. Catalysis Science and Technology, 2018, 8, 3954-3968.	4.1	34
60	Recent progress in the studies of structure and function of photosystems I and II. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 173-175.	3.8	32
61	A dinuclear iron complex as a precatalyst for water oxidation under alkaline conditions. International Journal of Hydrogen Energy, 2021, 46, 29896-29904.	7.1	31
62	Nanolayered manganese oxide/C₆₀composite: a good water-oxidizing catalyst for artificial photosynthetic systems. Dalton Transactions, 2014, 43, 12058-12064.	3.3	30
63	Water oxidation by Ni(1,4,8,11-tetraazacyclotetradecane)2+ in the presence of carbonate: new findings and an alternative mechanism. Dalton Transactions, 2018, 47, 6519-6527.	3.3	30
64	A transparent electrode with water-oxidizing activity. International Journal of Hydrogen Energy, 2018, 43, 22896-22904.	7.1	30
65	A nickel(<scp>ii</scp>) complex under water-oxidation reaction: what is the true catalyst?. Dalton Transactions, 2019, 48, 547-557.	3.3	30
66	Treated Nanolayered Mn Oxide by Oxidizable Compounds: A Strategy To Improve the Catalytic Activity toward Water Oxidation. Inorganic Chemistry, 2016, 55, 8827-8832.	4.0	29
67	Revisiting Metalâ€“Organic Frameworks for Oxygen Evolution: A Case Study. Inorganic Chemistry, 2020, 59, 15335-15342.	4.0	29
68	The importance of identifying the true catalyst when using Randles-Sevcik equation to calculate turnover frequency. International Journal of Hydrogen Energy, 2021, 46, 37774-37781.	7.1	28
69	Gold or silver deposited on layered manganese oxide: a functional model for the water-oxidizing complex in photosystem II. Photosynthesis Research, 2013, 117, 423-429.	2.9	27
70	Activated layered manganese oxides with deposited nano-sized gold or silver as an efficient catalyst for epoxidation of olefins. RSC Advances, 2013, 3, 24069.	3.6	27
71	Nano-sized layered Mn oxides as promising and biomimetic water oxidizing catalysts for water splitting in artificial photosynthetic systems. Journal of Photochemistry and Photobiology B: Biology, 2014, 133, 124-139.	3.8	27
72	Nanolayered manganese oxides: insights from inorganic electrochemistry. Catalysis Science and Technology, 2017, 7, 3499-3510.	4.1	27

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73	Mechanistic Understanding of Water Oxidation in the Presence of a Copper Complex by <i>In Situ</i> Electrochemical Liquid Transmission Electron Microscopy. ACS Applied Materials & Interfaces, 2021, 13, 19927-19937.	8.0	27
74	Nano-layered manganese oxides as low-cost, easily synthesized, environmentally friendly and efficient catalysts for epoxidation of olefins. RSC Advances, 2012, 2, 3654.	3.6	26
75	Oxygen-Evolution Reaction by a Palladium Foil in the Presence of Iron. Inorganic Chemistry, 2021, 60, 5682-5693.	4.0	26
76	Synthesis, Xâ€ray structure, characterization and catalytic activity of a polymeric manganese(II) complex with iminodiacetate. Applied Organometallic Chemistry, 2011, 25, 559-563.	3.5	25
77	Mn oxide/nanodiamond composite: a new water-oxidizing catalyst for water oxidation. RSC Advances, 2014, 4, 37613-37619.	3.6	25
78	Mechanism of water oxidation by nanolayered manganese oxide: a step forward. RSC Advances, 2014, 4, 6375-6378.	3.6	25
79	Comparison of nano-sized Mn oxides with the Mn cluster of photosystem II as catalysts for water oxidation. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 294-306.	1.0	25
80	Polypeptide and Mnâ€“Ca oxide: Toward a biomimetic catalystÂforÂwater-splitting systems. International Journal of Hydrogen Energy, 2016, 41, 5504-5512.	7.1	24
81	Nanosized manganese oxide supported on carbon black: A new, cheap and green composite for water oxidation. International Journal of Hydrogen Energy, 2017, 42, 255-264.	7.1	23
82	Dendrimer-Ni-Based Material: Toward an Efficient Niâ€“Fe Layered Double Hydroxide for Oxygen-Evolution Reaction. Inorganic Chemistry, 2021, 60, 6073-6085.	4.0	23
83	Engineered polypeptide around nano-sized manganeseâ€“calcium oxide as an artificial water-oxidizing enzyme mimicking natural photosynthesis: Toward artificial enzymes with highly active site densities. International Journal of Hydrogen Energy, 2016, 41, 17826-17836.	7.1	22
84	Is nickel phosphide an efficient catalyst for the oxygen-evolution reaction at low overpotentials?. New Journal of Chemistry, 2020, 44, 19630-19641.	2.8	22
85	Role of Pt and PtO₂ in the Oxygen-Evolution Reaction in the Presence of Iron under Alkaline Conditions. Inorganic Chemistry, 2022, 61, 613-621.	4.0	22
86	Self-healing for nanolayered manganese oxides in the presence of cerium(<scp>iv</scp>) ammonium nitrate: new findings. New Journal of Chemistry, 2015, 39, 2547-2550.	2.8	21
87	Surprisingly Low Reactivity of Layered Manganese Oxide toward Water Oxidation in Fe/Ni-Free Electrolyte under Alkaline Conditions. Inorganic Chemistry, 2022, 61, 2292-2306.	4.0	21
88	Heterogeneous water oxidation by bidentate Schiff base manganese complexes in the presence of cerium(IV) ammonium nitrate. Transition Metal Chemistry, 2009, 34, 367-372.	1.4	20
89	Synthesis, structural characterization and alcohol oxidation activity of a new mononuclear manganese(II) complex. Transition Metal Chemistry, 2010, 35, 297-303.	1.4	19
90	Synthesis, characterization, crystal structure and oxygen-evolution activity of a manganese(II) complex with 2,4,6-tris (2-pyridyl)-1,3,5-triazine. Polyhedron, 2010, 29, 3246-3250.	2.2	19

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91	An engineered polypeptide around nano-sized manganeseâ€"calcium oxide: copying plants for water oxidation. Dalton Transactions, 2015, 44, 15271-15278.	3.3	19
92	Electrochemical water oxidation by simple manganese salts. Scientific Reports, 2019, 9, 7749.	3.3	19
93	Electrochemical induction of Mn(III) in the structure of Mn(IV) oxide: Toward a new approach for water splitting. International Journal of Hydrogen Energy, 2022, 47, 7813-7822.	7.1	19
94	New mononuclear manganese(II) complexes with 2,4,6-tris(2-pyridyl)-1,3,5-triazine (tptz) â€" selective catalyst in UHP oxidation of sulfides. Polyhedron, 2012, 34, 202-209.	2.2	18
95	Manganese oxide as a water-oxidizing catalyst: from the bulk to Ã…ngstrÃ¶m-scale. New Journal of Chemistry, 2014, 38, 852.	2.8	18
96	Nanolayered manganese-calcium oxide as an efficient and environmentally friendly catalyst for alcohol oxidation. Journal of Molecular Catalysis A, 2014, 394, 303-308.	4.8	18
97	Oxygen-evolution reaction by gold and cobalt in iron and nickel free electrolyte. International Journal of Hydrogen Energy, 2021, 46, 1509-1516.	7.1	18
98	Finding the True Catalyst for Water Oxidation at Low Overpotential in the Presence of a Metal Complex. Inorganic Chemistry, 2022, 61, 3801-3810.	4.0	18
99	Nanolayered manganese oxides as water-oxidizing catalysts: the effects of Cu(<scp>ii</scp>) and Ni(<scp>ii</scp>) ions. RSC Advances, 2014, 4, 36017-36023.	3.6	17
100	Manganese oxides supported on nano-sized metal oxides as water-oxidizing catalysts for water-splitting systems: 3-Electrochemical studies. International Journal of Hydrogen Energy, 2017, 42, 60-67.	7.1	17
101	Understanding the Dynamics of Molecular Water Oxidation Catalysts with Liquid-Phase Transmission Electron Microscopy: The Case of Vitamin B₁₂. ACS Sustainable Chemistry and Engineering, 2021, 9, 9494-9505.	6.7	17
102	Further Insight into the Conversion of a Niâ€"Fe Metalâ€"Organic Framework during Water-Oxidation Reaction. Inorganic Chemistry, 2022, 61, 5112-5123.	4.0	17
103	Solution structure of a seven coordinated manganese(II) complex via electrospray ionization mass spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 1168-1170.	3.9	16
104	Transformation of La0.65Sr0.35MnO3 in electrochemical water oxidation. International Journal of Hydrogen Energy, 2017, 42, 8560-8568.	7.1	16
105	Water oxidation by a manganeseâ€"potassium cluster: Mn oxide as a kinetically dominant â€œtrueâ€•catalyst for water oxidation. Catalysis Science and Technology, 2018, 8, 4390-4398.	4.1	16
106	A simple mathematical model for manganese oxide-coated montmorillonite as a catalyst for water oxidation: from nano to macro sized manganese oxide. Dalton Transactions, 2013, 42, 11012.	3.3	15
107	Current challenges in photosynthesis: from natural to artificial. Frontiers in Plant Science, 2014, 5, 232.	3.6	15
108	Water exchange in manganese-based water-oxidizing catalysts in photosynthetic systems: From the water-oxidizing complex in photosystem II to nano-sized manganese oxides. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1395-1410.	1.0	15

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109	The effect of different metal ions between nanolayers of manganese oxide on water oxidation. Journal of Photochemistry and Photobiology B: Biology, 2014, 141, 247-252.	3.8	15
110	Nano-sized Mn3O4 and Î²-MnOOH from the decomposition of Î²-cyclodextrin-Mn: 2. The water-oxidizing activities. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 112-118.	3.8	15
111	Nano-sized Mn oxides on halloysite or high surface area montmorillonite as efficient catalysts for water oxidation with cerium(<scp>iv</scp>) ammonium nitrate: support from natural sources. Dalton Transactions, 2015, 44, 15441-15449.	3.3	15
112	Nano-sized Mn oxides as true catalysts for alcohol oxidation by a mononuclear manganese(<scp>ii</scp>) complex. Dalton Transactions, 2015, 44, 15121-15125.	3.3	15
113	A mononuclear cobalt complex for water oxidation: new controversies and puzzles. Dalton Transactions, 2018, 47, 16668-16673.	3.3	15
114	An efficient nickel oxides/nickel structure for water oxidation: a new strategy. New Journal of Chemistry, 2017, 41, 1909-1913.	2.8	14
115	Rethink about electrolyte: Potassium fluoride as a promising additive to an electrolyte for the water oxidation by a nanolayered Mn oxide. International Journal of Hydrogen Energy, 2017, 42, 15160-15166.	7.1	14
116	Ultra-small and highly dispersive iron oxide hydroxide as an efficient catalyst for oxidation reactions: a Swiss-army-knife catalyst. Scientific Reports, 2021, 11, 6642.	3.3	14
117	A hexanuclear manganese(<scp>ii</scp>) complex: synthesis, characterization and catalytic activity toward organic sulfide oxidation. New Journal of Chemistry, 2014, 38, 5069-5074.	2.8	13
118	Nano-sized Mn oxide: A true catalyst in the water-oxidation reaction. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 127-132.	3.8	13
119	An efficient and inexpensive water-oxidizing manganese-based oxide electrode. Dalton Transactions, 2016, 45, 16948-16954.	3.3	13
120	Manganese oxides supported on nano-sized metal oxides as water-oxidizing catalysts for water splitting systems: 2-Water-oxidizing activities. International Journal of Hydrogen Energy, 2016, 41, 18472-18477.	7.1	13
121	A manganese(<scp>ii</scp>) phthalocyanine under water-oxidation reaction: new findings. Dalton Transactions, 2019, 48, 12147-12158.	3.3	13
122	Electrochemical alcohols oxidation mediated by N-hydroxyphthalimide on nickel foam surface. Scientific Reports, 2020, 10, 19378.	3.3	13
123	A synthetic manganeseâ€œcalcium cluster similar to the catalyst of Photosystem II: challenges for biomimetic water oxidation. Dalton Transactions, 2020, 49, 5597-5605.	3.3	13
124	Manganese oxides supported on gold nanoparticles: new findings and current controversies for the role of gold. Photosynthesis Research, 2015, 126, 477-487.	2.9	12
125	Manganese oxides as water-oxidizing catalysts for artificial photosynthetic systems: The effect of support. International Journal of Hydrogen Energy, 2016, 41, 5475-5483.	7.1	12
126	PARAFAC study of bovine serum albumin conformational changes in the interaction with nanosized manganese oxide as a biomimetic model for water-oxidizing complex. International Journal of Hydrogen Energy, 2017, 42, 9733-9743.	7.1	12

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127	A Simple Method for Synthesizing Highly Active Amorphous Iridium Oxide for Oxygen Evolution under Acidic Conditions. Chemistry - A European Journal, 2020, 26, 17063-17068.	3.3	12
128	Biomineralization: a proposed evolutionary origin for inorganic cofactors of enzymes. Theory in Biosciences, 2012, 131, 265-272.	1.4	11
129	Photodamage of the manganeseâ€"calcium oxide: a model for UV-induced photodamage of the water oxidizing complex in photosystem II. Dalton Transactions, 2013, 42, 4772.	3.3	11
130	Iron oxide deposited on metallic nickel for water oxidation. Sustainable Energy and Fuels, 2017, 1, 658-663.	4.9	11
131	A nanosized Mn oxide/boron nitride composite as a catalyst for water oxidation. New Journal of Chemistry, 2017, 41, 10627-10633.	2.8	11
132	Water oxidation by simple manganese salts in the presence of cerium(<scp>iv</scp>) ammonium nitrate: towards a complete picture. Dalton Transactions, 2018, 47, 1557-1565.	3.3	11
133	A new decomposition mechanism for metal complexes under water-oxidation conditions. Scientific Reports, 2019, 9, 7483.	3.3	11
134	A simple, facile and low-cost method for the preparation of mixed-phase titanium oxide: toward efficient photoelectrochemical water oxidation. New Journal of Chemistry, 2019, 43, 6989-7000.	2.8	11
135	Toward a nanosized iron based water-oxidizing catalyst. International Journal of Hydrogen Energy, 2016, 41, 22635-22642.	7.1	10
136	Nano-sized manganese oxide coated sea sand: AÂnew water-oxidizing catalyst. International Journal of Hydrogen Energy, 2016, 41, 22866-22875.	7.1	10
137	Molybdenum carbide as an efficient and durable catalyst for aqueous Knoevenagel condensation. New Journal of Chemistry, 2019, 43, 16437-16440.	2.8	10
138	Water Oxidation in the Presence of a Nickel Coordination Compound: Decomposition Products, Fe Impurity in the Electrolyte, and a Candidate as a Catalyst. Journal of Physical Chemistry C, 2022, 126, 9753-9761.	3.1	10
139	An approach for catalyst design in artificial photosynthetic systems: focus on nanosized inorganic cores within proteins. Photosynthesis Research, 2013, 117, 197-205.	2.9	9
140	A nano-sized manganese oxide in a protein matrix as a natural water-oxidizing site. Plant Physiology and Biochemistry, 2014, 81, 3-15.	5.8	9
141	Nanolayered manganeseâ€"calcium oxide as an efficient catalyst toward organic sulfide oxidation. RSC Advances, 2014, 4, 10851-10855.	3.6	9
142	A very simple and high-yield method to synthesize nanolayered Mn oxide. Dalton Transactions, 2015, 44, 1039-1045.	3.3	9
143	Catalysis of the Water Oxidation Reaction in the Presence of Iron and a Copper Foil. Inorganic Chemistry, 2022, 61, 5653-5664.	4.0	9
144	QSAR analysis for nano-sized layered manganeseâ€"calcium oxide in water oxidation: An application of chemometric methods in artificial photosynthesis. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 146-155.	3.8	8

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145	Nano-sized Mn3O4 and Î²-MnOOH from the decomposition of Î²-cyclodextrinâ€"Mn: 1. Synthesis and characterization. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 106-111.	3.8	8
146	Gold nanorods or nanoparticles deposited on layered manganese oxide: new findings. New Journal of Chemistry, 2015, 39, 7260-7267.	2.8	8
147	Treated nanolayered Mn oxide by potassium fluoride: An improvement for nanolayered Mn oxide toward water oxidation. International Journal of Hydrogen Energy, 2016, 41, 21203-21211.	7.1	8
148	Manganese oxides supported on nano-sized metal oxides as water-oxidizing catalysts for water splitting systems: 1-synthesis and characterization. International Journal of Hydrogen Energy, 2016, 41, 18465-18471.	7.1	8
149	Highly dispersed PtO2 on layered Mn oxide as water-oxidizing catalysts. International Journal of Hydrogen Energy, 2016, 41, 6798-6804.	7.1	8
150	Ironâ€"nickel oxide: a promising strategy for water oxidation. New Journal of Chemistry, 2020, 44, 1517-1523.	2.8	8
151	Imidazolium or guanidinium/layered manganese (III, IV) oxide hybrid as a promising structural model for the water-oxidizing complex of Photosystem II for artificial photosynthetic systems. Photosynthesis Research, 2013, 117, 413-421.	2.9	7
152	Nano-sized layered manganese oxide in a poly-<scp>L</scp>-glutamic acid matrix: a biomimetic, homogenized, heterogeneous structural model for the water-oxidizing complex in photosystem II. RSC Advances, 2014, 4, 39077-39081.	3.6	7
153	The mechanism of water oxidation catalyzed by nanolayered manganese oxides: New insights. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 133-138.	3.8	7
154	Artificial photosynthesis. Journal of Photochemistry and Photobiology B: Biology, 2015, 152, 1-3.	3.8	7
155	Carbon for engineering of a water-oxidizing catalyst. Dalton Transactions, 2015, 44, 20991-20998.	3.3	7
156	Nanostructured manganese oxide on silica aerogel: a new catalyst toward water oxidation. Photosynthesis Research, 2016, 130, 225-235.	2.9	7
157	A proposed mechanism to form nanosized Mn oxides from the decomposition of Î²-cyclodextrin-Mn complex: Toward nanosized water-splitting catalysts with special morphology. International Journal of Hydrogen Energy, 2017, 42, 11187-11198.	7.1	7
158	Nanosized manganese oxide/holmium oxide: a new composite for water oxidation. New Journal of Chemistry, 2017, 41, 13732-13741.	2.8	7
159	A new strategy to make an artificial enzyme: photosystem II around nanosized manganese oxide. Catalysis Science and Technology, 2017, 7, 4451-4461.	4.1	7
160	A trimetallic organometallic precursor for efficient water oxidation. Scientific Reports, 2019, 9, 3734.	3.3	7
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