Mohammad Mahdi Najafpour

List of Publications by Year in Descending Order

179 papers	4,812 citations	38 h-index	61 g-index
195 ext. papers	5,660 ext. citations	5.5 avg, IF	6.27 L-index

#	Paper	IF	Citations
179	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	6.7	1
178	Dendrimer-Ni-Based Material: Toward an Efficient Ni-Fe Layered Double Hydroxide for Oxygen-Evolution Reaction. *Inorganic Chemistry*, **2021**, 60, 6073-6085	5.1	5
177	Oxygen-Evolution Reaction by a Palladium Foil in the Presence of Iron. *Inorganic Chemistry*, **2021**, 60, 5682-5693	5.1	2
176	Mechanistic Understanding of Water Oxidation in the Presence of a Copper Complex by Electrochemical Liquid Transmission Electron Microscopy. *ACS Applied Materials & Interfaces*, **2021**, 13, 19927-19937	9.5	8
175	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	6.7	8
174	Photo-electrochemistry of metallic titanium/mixed phase titanium oxide. *International Journal of Hydrogen Energy*, **2021**, 46, 19433-19445	6.7	5
173	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	8.3	4
172	Oxygen-evolution reaction by gold and cobalt in iron and nickel free electrolyte. *International Journal of Hydrogen Energy*, **2021**, 46, 1509-1516	6.7	3
171	In Situ Synthesis of Manganese Oxide as an Oxygen-Evolving Catalyst: A New Strategy. *Chemistry - A European Journal*, **2021**, 27, 1330-1336	4.8	4
170	A chromium complex under water oxidation: A conversion mechanism and a comprehensive hypothesis. *International Journal of Hydrogen Energy*, **2021**, 46, 3954-3963	6.7	2
169	Aggregated manganese complex-nanolayered manganese oxide: a new hybrid molecular-inorganic material. *Dalton Transactions*, **2021**, 50, 3324-3336	4.3	
168	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	6.7	10
167	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	4.9	4
166	A dinuclear iron complex as a precatalyst for water oxidation under alkaline conditions. *International Journal of Hydrogen Energy*, **2021**, 46, 29896-29904	6.7	5
165	The importance of identifying the true catalyst when using Randles-Sevcik equation to calculate turnover frequency. *International Journal of Hydrogen Energy*, **2021**, 46, 37774-37774	6.7	4
164	New findings and current controversies on oxidation of benzyl alcohol by a copper complex. *Materials Advances*, **2020**, 1, 441-449	3.3	1
163	Water splitting by a pentanuclear iron complex. *International Journal of Hydrogen Energy*, **2020**, 45, 17434-17443	6.7	20

162	Oxygen-evolution reaction by nickel/nickel oxide interface in the presence of ferrate(VI). *Scientific Reports*, **2020**, 10, 8757	4.9	13
161	New findings and current controversies in the reaction of ruthenium red and ammonium cerium(IV) nitrate: focus on the precipitated compound. *Catalysis Science and Technology*, **2020**, 10, 2491-2502	5.5	1
160	A synthetic manganese-calcium cluster similar to the catalyst of Photosystem II: challenges for biomimetic water oxidation. *Dalton Transactions*, **2020**, 49, 5597-5605	4.3	4
159	Photoelectrochemistry of manganese oxide/mixed phase titanium oxide heterojunction. *New Journal of Chemistry*, **2020**, 44, 3514-3523	3.6	8
158	Water-oxidizing complex in Photosystem II: Its structure and relation to manganese-oxide based catalysts. *Coordination Chemistry Reviews*, **2020**, 409, 213183	23.2	33
157	Iron–nickel oxide: a promising strategy for water oxidation. *New Journal of Chemistry*, **2020**, 44, 1517-1523	3.6	5
156	Is nickel phosphide an efficient catalyst for the oxygen-evolution reaction at low overpotentials?. *New Journal of Chemistry*, **2020**, 44, 19630-19641	3.6	3
155	Water oxidation by a nickel complex: New challenges and an alternative mechanism. *International Journal of Hydrogen Energy*, **2020**, 45, 33563-33573	6.7	21
154	Revisiting Metal-Organic Frameworks for Oxygen Evolution: A Case Study. *Inorganic Chemistry*, **2020**, 59, 15335-15342	5.1	8
153	Electrochemical alcohols oxidation mediated by N-hydroxyphthalimide on nickel foam surface. *Scientific Reports*, **2020**, 10, 19378	4.9	7
152	Electrochemical Synthesis of Sulfinate Esters: Nickel(II)-Catalyzed Oxidative Esterification of Thiols with Alcohols in an Undivided Cell. *ACS Omega*, **2020**, 5, 17947-17954	3.9	5
151	A Simple Method for Synthesizing Highly Active Amorphous Iridium Oxide for Oxygen Evolution under Acidic Conditions. *Chemistry - A European Journal*, **2020**, 26, 17063-17068	4.8	3
150	An iridium-based nanocomposite prepared from an iridium complex with a hydrocarbon-based ligand. *New Journal of Chemistry*, **2020**, 44, 15636-15645	3.6	2
149	Nickel–Vanadium Layered Double Hydroxide under Water-Oxidation Reaction: New Findings and Challenges. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 17252-17262	8.3	19
148	A nickel(ii) complex under water-oxidation reaction: what is the true catalyst?. *Dalton Transactions*, **2019**, 48, 547-557	4.3	21
147	Investigation of the photoelectrochemical properties of layered manganese oxide. *New Journal of Chemistry*, **2019**, 43, 4049-4058	3.6	4
146	Nanosized (Ni1−xZnx)Fe2O4 for water oxidation. *Nanoscale Advances*, **2019**, 1, 686-695	5.1	5
145	Electrochemical water oxidation by simple manganese salts. *Scientific Reports*, **2019**, 9, 7749	4.9	7

144	Unsupervised classification of PSII with and without water-oxidizing complex samples by PARAFAC resolution of excitation-emission fluorescence images. *Journal of Photochemistry and Photobiology B: Biology*, **2019**, 195, 58-66	6.7	1
143	A new decomposition mechanism for metal complexes under water-oxidation conditions. *Scientific Reports*, **2019**, 9, 7483	4.9	5
142	Water oxidation by manganese oxides. *Advances in Inorganic Chemistry*, **2019**, 74, 115-150	2.1	1
141	A trimetallic organometallic precursor for efficient water oxidation. *Scientific Reports*, **2019**, 9, 3734	4.9	6
140	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	3.6	6
139	Water oxidation by Ferritin: A semi-natural electrode. *Scientific Reports*, **2019**, 9, 11499	4.9	2
138	A manganese(ii) phthalocyanine under water-oxidation reaction: new findings. *Dalton Transactions*, **2019**, 48, 12147-12158	4.3	6
137	Influence of osmolytes on the stability of thylakoid-based dye-sensitized solar cells. *International Journal of Energy Research*, **2019**, 43, 8878	4.5	1
136	Oxidation of alkylarenes by modified graphite. *Materials Research Express*, **2019**, 6, 125607	1.7	3
135	Cobalt/Cobalt Oxide Surface for Water Oxidation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6093-6105	8.3	22
134	Molybdenum carbide as an efficient and durable catalyst for aqueous Knoevenagel condensation. *New Journal of Chemistry*, **2019**, 43, 16437-16440	3.6	5
133	A tetranuclear nickel(II) complex for water oxidation: Meeting new challenges. *International Journal of Hydrogen Energy*, **2019**, 44, 2857-2867	6.7	40
132	Water oxidation catalyzed by two cobalt complexes: new challenges and questions. *Catalysis Science and Technology*, **2018**, 8, 1840-1848	5.5	34
131	Biohybrid solar cells: Fundamentals, progress, and challenges. *Journal of Photochemistry and Photobiology C: Photochemistry Reviews*, **2018**, 35, 134-156	16.4	47
130	Water oxidation by Ni(1,4,8,11-tetraazacyclotetradecane) in the presence of carbonate: new findings and an alternative mechanism. *Dalton Transactions*, **2018**, 47, 6519-6527	4.3	25
129	An aluminum/cobalt/iron/nickel alloy as a precatalyst for water oxidation. *International Journal of Hydrogen Energy*, **2018**, 43, 2083-2090	6.7	35
128	Water oxidation by simple manganese salts in the presence of cerium(iv) ammonium nitrate: towards a complete picture. *Dalton Transactions*, **2018**, 47, 1557-1565	4.3	5
127	Toward Escherichia coli bacteria machine for water oxidation. *Photosynthesis Research*, **2018**, 136, 257-267	3.7	1

126	Water oxidation by a manganese–potassium cluster: Mn oxide as a kinetically dominant "true" catalyst for water oxidation. *Catalysis Science and Technology*, **2018**, 8, 4390-4398	5.5	9
125	Links between peptides and Mn oxide: nano-sized manganese oxide embedded in a peptide matrix. *New Journal of Chemistry*, **2018**, 42, 10067-10077	3.6	1
124	Water oxidation by a copper(ii) complex: new findings, questions, challenges and a new hypothesis. *Dalton Transactions*, **2018**, 47, 9021-9029	4.3	28
123	Nanosized silver bromide: an efficient catalyst for alcohol oxidation in the presence of a multinuclear silver complex. *New Journal of Chemistry*, **2018**, 42, 12172-12179	3.6	1
122	Nanosized rhodium oxide for water oxidation: An organometallic precursor for the preparation of rhodium oxide. *Applied Organometallic Chemistry*, **2018**, 32, e4118	3.1	3
121	A mononuclear cobalt complex for water oxidation: new controversies and puzzles. *Dalton Transactions*, **2018**, 47, 16668-16673	4.3	11
120	A transparent electrode with water-oxidizing activity. *International Journal of Hydrogen Energy*, **2018**, 43, 22896-22904	6.7	20
119	The application of a nickel(II) Schiff base complex in water oxidation: the importance of nanosized materials. *Catalysis Science and Technology*, **2018**, 8, 3954-3968	5.5	23
118	An efficient nickel oxides/nickel structure for water oxidation: a new strategy. *New Journal of Chemistry*, **2017**, 41, 1909-1913	3.6	12
117	Iron oxide deposited on metallic nickel for water oxidation. *Sustainable Energy and Fuels*, **2017**, 1, 658-663	5.8	8
116	Transformation of La0.65Sr0.35MnO3 in electrochemical water oxidation. *International Journal of Hydrogen Energy*, **2017**, 42, 8560-8568	6.7	14
115	Nanolayered manganese oxides: insights from inorganic electrochemistry. *Catalysis Science and Technology*, **2017**, 7, 3499-3510	5.5	19
114	Iron oxide on carbon-based supports as efficient catalysts for organic compounds oxidation. *Applied Organometallic Chemistry*, **2017**, 31, e3892	3.1	3
113	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	6.7	9
112	A proposed mechanism to form nanosized Mn oxides from the decomposition of β-cyclodextrin-Mn complex: Toward nanosized water-splitting catalysts with special morphology. *International Journal of Hydrogen Energy*, **2017**, 42, 11187-11198	6.7	5
111	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	6.7	8
110	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	6.7	12
109	Nanosized manganese oxide/holmium oxide: a new composite for water oxidation. *New Journal of Chemistry*, **2017**, 41, 13732-13741	3.6	5

108	A new strategy to make an artificial enzyme: photosystem II around nanosized manganese oxide. *Catalysis Science and Technology*, **2017**, 7, 4451-4461	5.5	7
107	A nanosized Mn oxide/boron nitride composite as a catalyst for water oxidation. *New Journal of Chemistry*, **2017**, 41, 10627-10633	3.6	10
106	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	6.7	18
105	Treated Nanolayered Mn Oxide by Oxidizable Compounds: A Strategy To Improve the Catalytic Activity toward Water Oxidation. *Inorganic Chemistry*, **2016**, 55, 8827-32	5.1	24
104	Engineered polypeptide around nano-sized manganese□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	6.7	18
103	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	6.7	7
102	An efficient and inexpensive water-oxidizing manganese-based oxide electrode. *Dalton Transactions*, **2016**, 45, 16948-16954	4.3	10
101	Nano-sized manganese oxide coated sea sand: A□new water-oxidizing catalyst. *International Journal of Hydrogen Energy*, **2016**, 41, 22866-22875	6.7	9
100	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	6.7	8
99	Nanostructured manganese oxide on silica aerogel: a new catalyst toward water oxidation. *Photosynthesis Research*, **2016**, 130, 225-235	3.7	4
98	Highly dispersed PtO2 on layered Mn oxide as water-oxidizing catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 6798-6804	6.7	5
97	Manganese Compounds as Water-Oxidizing Catalysts: From the Natural Water-Oxidizing Complex to Nanosized Manganese Oxide Structures. *Chemical Reviews*, **2016**, 116, 2886-936	68.1	442
96	Water oxidation by a soluble iron(III)-cyclen complex: new findings. *Dalton Transactions*, **2016**, 45, 2618-23	4.3	37
95	Polypeptide and Mn□a oxide: Toward a biomimetic catalyst for water-splitting systems. *International Journal of Hydrogen Energy*, **2016**, 41, 5504-5512	6.7	23
94	A highly dispersible, magnetically separable and environmentally friendly nano-sized catalyst for water oxidation. *International Journal of Hydrogen Energy*, **2016**, 41, 4616-4623	6.7	24
93	Nano-sized Mn oxide/agglomerated silsesquioxane composite as a good catalyst for water oxidation. *Photosynthesis Research*, **2016**, 130, 73-81	3.7	2
92	Manganese oxides as water-oxidizing catalysts for artificial photosynthetic systems: The effect of support. *International Journal of Hydrogen Energy*, **2016**, 41, 5475-5483	6.7	12
91	Manganese oxide supported on gold/iron as a water-oxidizing catalyst in artificial photosynthetic systems. *Dalton Transactions*, **2016**, 45, 9201-8	4.3	3

90	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	6.7	6
89	Toward a nanosized iron based water-oxidizing catalyst. *International Journal of Hydrogen Energy*, **2016**, 41, 22635-22642	6.7	7
88	The conversion of CoSe 2 to Co oxide under the electrochemical water oxidation condition. *International Journal of Hydrogen Energy*, **2016**, 41, 13469-13475	6.7	21
87	QSAR analysis for nano-sized layered manganese-calcium oxide in water oxidation: An application of chemometric methods in artificial photosynthesis. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 146-55	6.7	8
86	Nano-sized Mn3O4 and δMnOOH from the decomposition of βcyclodextrin-Mn: 2. The water-oxidizing activities. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 112-8	6.7	9
85	The effect of lanthanum(III) and cerium(III) ions between layers of manganese oxide on water oxidation. *Photosynthesis Research*, **2015**, 126, 489-98	3.7	3
84	Nano-sized Mn3O4 and δMnOOH from the decomposition of βcyclodextrin-Mn: 1. Synthesis and characterization. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 106-11	6.7	7
83	Platinum/manganese oxide nanocomposites as water-oxidizing catalysts: New findings and current controversies. *International Journal of Hydrogen Energy*, **2015**, 40, 10825-10832	6.7	42
82	New findings and the current controversies for water oxidation by a copper(ii)-azo complex: homogeneous or heterogeneous?. *Dalton Transactions*, **2015**, 44, 15435-40	4.3	41
81	Gold nanorods or nanoparticles deposited on layered manganese oxide: new findings. *New Journal of Chemistry*, **2015**, 39, 7260-7267	3.6	7
80	Nano-sized Mn oxides on halloysite or high surface area montmorillonite as efficient catalysts for water oxidation with cerium(iv) ammonium nitrate: support from natural sources. *Dalton Transactions*, **2015**, 44, 15441-9	4.3	15
79	The biological water-oxidizing complex at the nano-bio interface. *Trends in Plant Science*, **2015**, 20, 559-68	13.1	39
78	Manganese oxides supported on gold nanoparticles: new findings and current controversies for the role of gold. *Photosynthesis Research*, **2015**, 126, 477-87	3.7	10
77	Self-healing for nanolayered manganese oxides in the presence of cerium(IV) ammonium nitrate: new findings. *New Journal of Chemistry*, **2015**, 39, 2547-2550	3.6	20
76	Nano-sized Mn oxides as true catalysts for alcohol oxidation by a mononuclear manganese(II) complex. *Dalton Transactions*, **2015**, 44, 15121-5	4.3	15
75	An engineered polypeptide around nano-sized manganese-calcium oxide: copying plants for water oxidation. *Dalton Transactions*, **2015**, 44, 15271-8	4.3	18
74	Carbon for engineering of a water-oxidizing catalyst. *Dalton Transactions*, **2015**, 44, 20991-8	4.3	5
73	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	4.6	25

72	Applications of the nano to bulk Mn oxides: Mn oxide as a Swiss army knife. *Coordination Chemistry Reviews*, **2015**, 285, 65-75	23.2	48
71	A very simple and high-yield method to synthesize nanolayered Mn oxide. *Dalton Transactions*, **2015**, 44, 1039-45	4.3	8
70	Nano-sized Mn oxide: A true catalyst in the water-oxidation reaction. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 127-32	6.7	12
69	Damage Management in Water-Oxidizing Catalysts: From Photosystem II to Nanosized Metal Oxides. *ACS Catalysis*, **2015**, 5, 1499-1512	13.1	51
68	The mechanism of water oxidation catalyzed by nanolayered manganese oxides: New insights. *Journal of Photochemistry and Photobiology B: Biology*, **2015**, 152, 133-8	6.7	5
67	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, 1395-410	4.6	13
66	A nano-sized manganese oxide in a protein matrix as a natural water-oxidizing site. *Plant Physiology and Biochemistry*, **2014**, 81, 3-15	5.4	9
65	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, 124-39	6.7	26
64	Nanostructured manganese oxide/carbon nanotubes, graphene and graphene oxide as water-oxidizing composites in artificial photosynthesis. *Dalton Transactions*, **2014**, 43, 10866-76	4.3	43
63	The effect of different metal ions between nanolayers of manganese oxide on water oxidation. *Journal of Photochemistry and Photobiology B: Biology*, **2014**, 141, 247-52	6.7	13
62	Antimicrobial effects of silver deposited on nanolayered manganese oxide. *RSC Advances*, **2014**, 4, 64688-64691	3.7	1
61	A hexanuclear manganese(II) complex: synthesis, characterization and catalytic activity toward organic sulfide oxidation. *New Journal of Chemistry*, **2014**, 38, 5069-5074	3.6	10
60	Nanolayered manganese calcium oxide as an efficient catalyst toward organic sulfide oxidation. *RSC Advances*, **2014**, 4, 10851-10855	3.7	8
59	Mn oxide/nanodiamond composite: a new water-oxidizing catalyst for water oxidation. *RSC Advances*, **2014**, 4, 37613-37619	3.7	23
58	A dinuclear iron complex with a single oxo bridge as an efficient water-oxidizing catalyst in the presence of cerium(IV) ammonium nitrate: new findings and current controversies. *Catalysis Science and Technology*, **2014**, 4, 30-33	5.5	48
57	Nanolayered manganese oxides as water-oxidizing catalysts: the effects of Cu(II) and Ni(II) ions. *RSC Advances*, **2014**, 4, 36017-36023	3.7	16
56	Nano-sized layered manganese oxide in a poly-L-glutamic acid matrix: a biomimetic, homogenized, heterogeneous structural model for the water-oxidizing complex in photosystem II. *RSC Advances*, **2014**, 4, 39077-39081	3.7	7
55	Manganese oxide as a water-oxidizing catalyst: from the bulk to ngstrm-scale. *New Journal of Chemistry*, **2014**, 38, 852	3.6	18

54	A water-oxidizing dinuclear iron complex as an efficient catalyst toward organic sulfide oxidation. *Journal of Coordination Chemistry*, **2014**, 67, 3026-3032	1.6	6
53	Mechanism of water oxidation by nanolayered manganese oxide: a step forward. *RSC Advances*, **2014**, 4, 6375-6378	3.7	23
52	The role of nano-sized manganese oxides in the oxygen-evolution reactions by manganese complexes: towards a complete picture. *Dalton Transactions*, **2014**, 43, 13122-35	4.3	38
51	Nanolayered manganese-calcium oxide as an efficient and environmentally friendly catalyst for alcohol oxidation. *Journal of Molecular Catalysis A*, **2014**, 394, 303-308		17
50	Nanolayered manganese oxide/C(60) composite: a good water-oxidizing catalyst for artificial photosynthetic systems. *Dalton Transactions*, **2014**, 43, 12058-64	4.3	27
49	Catalyst Design Based on Nano-Sized Inorganic Core of Enzymes **2014**, 429-442		
48	Current challenges in photosynthesis: from natural to artificial. *Frontiers in Plant Science*, **2014**, 5, 232	6.2	11
47	Gold or silver deposited on layered manganese oxide: a functional model for the water-oxidizing complex in photosystem II. *Photosynthesis Research*, **2013**, 117, 423-9	3.7	25
46	An approach for catalyst design in artificial photosynthetic systems: focus on nanosized inorganic cores within proteins. *Photosynthesis Research*, **2013**, 117, 197-205	3.7	8
45	Mechanism, decomposition pathway and new evidence for self-healing of manganese oxides as efficient water oxidizing catalysts: new insights. *Dalton Transactions*, **2013**, 42, 14603-11	4.3	47
44	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, 11012-20	4.3	15
43	Water oxidation by manganese oxides, a new step towards a complete picture: simplicity is the ultimate sophistication. *Dalton Transactions*, **2013**, 42, 12173-8	4.3	77
42	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, 413-21	3.7	6
41	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, 8824-6	5.8	51
40	Activated layered manganese oxides with deposited nano-sized gold or silver as an efficient catalyst for epoxidation of olefins. *RSC Advances*, **2013**, 3, 24069	3.7	22
39	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, 16683-6	4.3	56
38	Photodamage of the manganese-calcium oxide: a model for UV-induced photodamage of the water oxidizing complex in photosystem II. *Dalton Transactions*, **2013**, 42, 4772-6	4.3	9
37	Nano-size layered manganese-calcium oxide as an efficient and biomimetic catalyst for water oxidation under acidic conditions: comparable to platinum. *Dalton Transactions*, **2013**, 42, 5085-91	4.3	38

36	A 2-(2-hydroxyphenyl)-1H-benzimidazole-manganese oxide hybrid as a promising structural model for the tyrosine 161/histidine 190-manganese cluster in photosystem II. *Dalton Transactions*, **2013**, 42, 879-84	4.3	38
35	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	3.6	64
34	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, 8801-6	11.5	86
33	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	6.7	171
32	Biological water oxidation: lessons from nature. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 1110-21	4.6	76
31	New mononuclear manganese(II) complexes with 2,4,6-tris(2-pyridyl)-1,3,5-triazine (tptz) as selective catalyst in UHP oxidation of sulfides. *Polyhedron*, **2012**, 34, 202-209	2.7	17
30	Nano-layered manganese oxides as low-cost, easily synthesized, environmentally friendly and efficient catalysts for epoxidation of olefins. *RSC Advances*, **2012**, 2, 3654	3.7	22
29	A very simple method to synthesize nano-sized manganese oxide: an efficient catalyst for water oxidation and epoxidation of olefins. *Dalton Transactions*, **2012**, 41, 11026-31	4.3	83
28	Biological water-oxidizing complex: a nano-sized manganese-calcium oxide in a protein environment. *Photosynthesis Research*, **2012**, 114, 1-13	3.7	39
27	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, 10292-7	4.3	82
26	Nanoscale manganese oxide within Faujasite zeolite as an efficient and biomimetic water oxidizing catalyst. *Dalton Transactions*, **2012**, 41, 10156-60	4.3	52
25	A manganese oxide with phenol groups as a promising structural model for water oxidizing complex in Photosystem II: a 'golden fish'. *Dalton Transactions*, **2012**, 41, 3906-10	4.3	52
24	Nano-sized layered aluminium or zinc-manganese oxides as efficient water oxidizing catalysts. *Dalton Transactions*, **2012**, 41, 7134-40	4.3	64
23	Biomineralization: a proposed evolutionary origin for inorganic cofactors of enzymes. *Theory in Biosciences*, **2012**, 131, 265-72	1.3	10
22	Nano-sized manganese oxide–bovine serum albumin was synthesized and characterized. It is promising and biomimetic catalyst for water oxidation. *RSC Advances*, **2012**, 2, 11253	3.7	35
21	Amorphous manganese oxide-coated montmorillonite as an efficient catalyst for water oxidation. *New Journal of Chemistry*, **2012**, 36, 2514	3.6	42
20	Calcium manganese(IV) oxides: biomimetic and efficient catalysts for water oxidation. *Dalton Transactions*, **2012**, 41, 4799-805	4.3	87
19	Nano-sized manganese oxides as biomimetic catalysts for water oxidation in artificial photosynthesis: a review. *Journal of the Royal Society Interface*, **2012**, 9, 2383-95	4.1	116

18	Mixed-valence manganese calcium oxides as efficient catalysts for water oxidation. *Dalton Transactions*, **2011**, 40, 3793-5	4.3	89
17	Nano-size amorphous calcium-manganese oxide as an efficient and biomimetic water oxidizing catalyst for artificial photosynthesis: back to manganese. *Dalton Transactions*, **2011**, 40, 9374-8	4.3	89
16	Self-assembled layered hybrid [Ru(bpy)3]2+/manganese(III,IV) oxide: a new and efficient strategy for water oxidation. *Chemical Communications*, **2011**, 47, 11724-6	5.8	57
15	Oxygen evolving complex in photosystem II: better than excellent. *Dalton Transactions*, **2011**, 40, 9076-84	4.3	75
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2	Guanidinium Bis(pyridine-2,6-dicarboxylato-N,O,O)manganese(II). *Analytical Sciences: X-ray Structure Analysis Online*, **2008**, 24, X23-X24		
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