

# Steven L Suib

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8652188/steven-l-suib-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

368  
papers

18,625  
citations

75  
h-index

125  
g-index

380  
ext. papers

20,983  
ext. citations

8.6  
avg, IF

6.96  
L-index

#	Paper	IF	Citations
368	Structure-property relationship of bifunctional MnO <sub>2</sub> nanostructures: highly efficient, ultra-stable electrochemical water oxidation and oxygen reduction reaction catalysts identified in alkaline media. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11452-64	16.4	757
367	Manganese Oxide Mesoporous Structures: Mixed-Valent Semiconducting Catalysts. <i>Science</i> , <b>1997</b> , 276, 926-930	33.3	564
366	Manganese oxide octahedral molecular sieves: preparation, characterization, and applications. <i>Science</i> , <b>1993</b> , 260, 511-5	33.3	493
365	A Review of Porous Manganese Oxide Materials. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2619-2628	9.6	459
364	ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2875-2885	9.6	391
363	3D Flowerlike $\gamma$ -Nickel Hydroxide with Enhanced Electrochemical Activity Synthesized by Microwave-Assisted Hydrothermal Method. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 308-316	9.6	371
362	Porous manganese oxide octahedral molecular sieves and octahedral layered materials. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 479-87	24.3	362
361	Photocatalytic Water Splitting-The Untamed Dream: A Review of Recent Advances. <i>Molecules</i> , <b>2016</b> , 21,	4.8	359
360	Synthesis and Characterization of Octahedral Molecular Sieves (OMS-2) Having the Hollandite Structure. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 815-821	9.6	301
359	Efficient, Catalytic, Aerobic Oxidation of Alcohols with Octahedral Molecular Sieves. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 4280-4283	16.4	263
358	Mesoporous MoO <sub>3</sub> Material as an Efficient Electrocatalyst for Hydrogen Evolution Reactions. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600528	21.8	262
357	Water Oxidation Catalysis using Amorphous Manganese Oxides, Octahedral Molecular Sieves (OMS-2), and Octahedral Layered (OL-1) Manganese Oxide Structures. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 6474-6483	3.8	239
356	Mesoporous Co <sub>3</sub> O <sub>4</sub> with Controlled Porosity: Inverse Micelle Synthesis and High-Performance Catalytic CO Oxidation at $\beta$ 0 $^{\circ}$ C. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4629-4639	9.6	235
355	Solvothermal Synthesis of Layered Birnessite-Type Manganese Oxides. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 883-890	5.1	221
354	Shape-controlled synthesis of manganese oxide octahedral molecular sieve three-dimensional nanostructures. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14184-5	16.4	219
353	Highly efficient heterogeneous photooxidation of 2-propanol to acetone with amorphous manganese oxide catalysts. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 5334-5342	16.4	213
352	Synthesis and Catalytic Activity of Cryptomelane-Type Manganese Dioxide Nanomaterials Produced by a Novel Solvent-Free Method. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5382-5389	9.6	209

351	Mesoporous Iron Sulfide for Highly Efficient Electrocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13604-13607	16.4	207
350	Adsorptive and acidic properties, reversible lattice oxygen evolution, and catalytic mechanism of cryptomelane-type manganese oxides as oxidation catalysts. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3198-207	16.4	200
349	Gas-Phase Total Oxidation of Benzene, Toluene, Ethylbenzene, and Xylenes Using Shape-Selective Manganese Oxide and Copper Manganese Oxide Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 12066-12078	3.8	199
348	Controlling the Active Sites of Sulfur-Doped Carbon Nanotube/Graphene Nanolobes for Highly Efficient Oxygen Evolution and Reduction Catalysis. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501966	21.8	198
347	Structure, porosity, and redox in porous manganese oxide octahedral layer and molecular sieve materials. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1623		197
346	A general approach to crystalline and monomodal pore size mesoporous materials. <i>Nature Communications</i> , <b>2013</b> , 4, 2952	17.4	189
345	Crystalline Mixed Phase (Anatase/Rutile) Mesoporous Titanium Dioxides for Visible Light Photocatalytic Activity. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6-17	9.6	179
344	Mesoporous TiO <sub>2</sub> modified with carbon quantum dots as a high-performance visible light photocatalyst. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 189, 26-38	21.8	164
343	Ligand-Free Noble Metal Nanocluster Catalysts on Carbon Supports via "Soft" Nitriding. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 4718-21	16.4	162
342	Monolithically integrated spinel M(x)Co(3-x)O(4) (M=Co, Ni, Zn) nanoarray catalysts: scalable synthesis and cation manipulation for tunable low-temperature CH(4) and CO oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7223-7	16.4	153
341	Robust Mesoporous Manganese Oxide Catalysts for Water Oxidation. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1693-1699	13.1	153
340	Films of Manganese Oxide Nanoparticles with Polycations or Myoglobin from Alternate-Layer Adsorption. <i>Langmuir</i> , <b>2000</b> , 16, 8850-8857	4	146
339	Total oxidation of CO at ambient temperature using copper manganese oxide catalysts prepared by a redox method. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 99, 103-110	21.8	143
338	Ni- and Mn-Promoted Mesoporous Co <sub>3</sub> O <sub>4</sub> : A Stable Bifunctional Catalyst with Surface-Structure-Dependent Activity for Oxygen Reduction Reaction and Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20802-13	9.5	142
337	Sol-Gel Route to the Tunneled Manganese Oxide Cryptomelane. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 750-754	9.6	140
336	Characterization of Manganese Oxide Octahedral Molecular Sieve (MOMS-2) Materials with Different Metal Cation Dopants. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 940-948	9.6	138
335	Novel Urchin-like CuO Synthesized by a Facile Reflux Method with Efficient Olefin Epoxidation Catalytic Performance. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1253-1259	9.6	135
334	Titanium Containing EMnO <sub>2</sub> (TM) Hollow Spheres: One-Step Synthesis and Catalytic Activities in Li/Air Batteries and Oxidative Chemical Reactions. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3373-3382	15.6	135

333	Manganese Oxide Octahedral Molecular Sieves (OMS-2) Multiple Framework Substitutions: A New Route to OMS-2 Particle Size and Morphology Control. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 312-323	15.6	133
332	Cyclohexane oxidation catalyzed by manganese oxide octahedral molecular sieves Effect of acidity of the catalyst. <i>Journal of Catalysis</i> , <b>2009</b> , 262, 304-313	7.3	133
331	Higher valency ion substitution into the manganese oxide framework. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7774-5	16.4	133
330	Low temperature propane oxidation over Co <sub>3</sub> O <sub>4</sub> based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 150-160	21.8	131
329	One-step hydrothermal synthesis of manganese-containing MFI-type zeolite, Mn-ZSM-5, characterization, and catalytic oxidation of hydrocarbons. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 8594-605	16.4	129
328	Aerobic Oxidation of Amines to Imines by Cesium-Promoted Mesoporous Manganese Oxide. <i>ACS Catalysis</i> , <b>2015</b> , 5, 4394-4403	13.1	126
327	Hydrothermal Synthesis of Manganese Oxide Nanomaterials and Their Catalytic and Electrochemical Properties. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3892-3901	9.6	123
326	Heterogeneous acidic TiO <sub>2</sub> nanoparticles for efficient conversion of biomass derived carbohydrates. <i>Green Chemistry</i> , <b>2014</b> , 16, 785	10	115
325	Facile Microwave-Assisted Hydrothermal Synthesis of CuO Nanomaterials and Their Catalytic and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 468-477	3.8	111
324	Preparation of Nanometer-Sized Manganese Oxides by Intercalation of Organic Ammonium Ions in Synthetic Birnessite OL-1. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 778-786	9.6	109
323	Trends in Solid Adsorbent Materials Development for CO Capture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 34533-34559	9.5	108
322	Oxygen Reduction Properties of Bifunctional Manganese Oxide Electrocatalysts in Aqueous and Organic Electrolytes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 22009-22017	3.8	101
321	FeO nanoparticles on graphene oxide sheets for isolation and ultrasensitive amperometric detection of cancer biomarker proteins. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 91, 359-366	11.8	100
320	Manganese Oxide Thin Films with Fast Ion-Exchange Properties. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 9330-9331	16.4	99
319	Machine Learning Using Combined Structural and Chemical Descriptors for Prediction of Methane Adsorption Performance of Metal Organic Frameworks (MOFs). <i>ACS Combinatorial Science</i> , <b>2017</b> , 19, 640-645	3.9	96
318	Direct Sonochemical Synthesis of Manganese Octahedral Molecular Sieve (OMS-2) Nanomaterials Using Cosolvent Systems, Their Characterization, and Catalytic Applications. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 705-712	9.6	96
317	A Strategy for One-Pot Conversion of Organic Pollutants into Useful Hydrocarbons through Coupling Photodegradation of MB with Photoreduction of CO <sub>2</sub> . <i>ACS Catalysis</i> , <b>2016</b> , 6, 6861-6867	13.1	96
316	Tunable mesoporous manganese oxide for high performance oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 620-631	13	94

315	Particle Size Control of Cryptomelane Nanomaterials by Use of H <sub>2</sub> O <sub>2</sub> in Acidic Conditions. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 1910-1918	9.6	90
314	Crystallization of Sodium Birnessite and Accompanied Phase Transformation. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 1561-1568	9.6	90
313	Preparative Parameters, Magnesium Effects, and Anion Effects in the Crystallization of Birnessites. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 10403-10413	3.4	89
312	Multiple-Scattering EXAFS Analysis of Tetraalkylammonium Manganese Oxide Colloids. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 6407-6420	3.4	89
311	Influence of silver on the catalytic properties of the cryptomelane and Ag-hollandite types manganese oxides OMS-2 in the low-temperature CO oxidation. <i>Applied Catalysis A: General</i> , <b>2013</b> , 462-463, 64-74	5.1	88
310	Manganese octahedral molecular sieves catalyzed tandem process for synthesis of quinoxalines. <i>Green Chemistry</i> , <b>2008</b> , 10, 1029	10	88
309	Mechanistic and kinetic studies of crystallization of birnessite. <i>Inorganic Chemistry</i> , <b>2000</b> , 39, 741-7	5.1	87
308	Experimental Study of Carbon Black and Diesel Engine Soot Oxidation Kinetics Using Thermogravimetric Analysis. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 5613-5625	4.1	86
307	Framework Doping of Iron in Tunnel Structure Cryptomelane. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 2413-2422	3.6	86
306	Behavior of H <sub>2</sub> chemisorption on Ru/TiO <sub>2</sub> surface and its application in evaluation of Ru particle sizes compared with TEM and XRD analyses. <i>Applied Catalysis A: General</i> , <b>2008</b> , 335, 187-195	5.1	85
305	Green decomposition of organic dyes using octahedral molecular sieve manganese oxide catalysts. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 1523-30	2.8	84
304	Controlled Synthesis of Self-Assembled Metal Oxide Hollow Spheres Via Tuning Redox Potentials: Versatile Nanostructured Cobalt Oxides. <i>Advanced Materials</i> , <b>2008</b> , 20, 1205-1209	24	84
303	In Situ Growth of Ni <sub>2</sub> P/Cu <sub>3</sub> P Bimetallic Phosphide with Bicontinuous Structure on Self-Supported NiCuC Substrate as an Efficient Hydrogen Evolution Reaction Electrocatalyst. <i>ACS Catalysis</i> , <b>2019</b> , 9, 6919-6928	13.1	83
302	Microwave-Assisted Hydrothermal Synthesis of Nanosized Fe <sub>2</sub> O <sub>3</sub> for Catalysts and Adsorbents. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19626-19631	3.8	83
301	Microwave-Assisted Hydrothermal Synthesis of Cryptomelane-Type Octahedral Molecular Sieves (OMS-2) and Their Catalytic Studies. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3664-3669	9.6	82
300	Three-Dimensional Reduced Graphene Oxide Coupled with Mn <sub>3</sub> O <sub>4</sub> for Highly Efficient Removal of Sb(III) and Sb(V) from Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18140-9	9.5	82
299	Microwave frequency effects on synthesis of cryptomelane-type manganese oxide and catalytic activity of cryptomelane precursor. <i>Journal of Catalysis</i> , <b>2006</b> , 239, 290-298	7.3	81
298	Spontaneous formation of inorganic helices. <i>Nature</i> , <b>2000</b> , 405, 38	50.4	81

297	Ultrathin PdPt bimetallic nanowires with enhanced electrocatalytic performance for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 525-532	21.8	77
296	Low temperature H <sub>2</sub> S dry-desulfurization with zinc oxide. <i>Microporous and Mesoporous Materials</i> , <b>2010</b> , 127, 190-197	5.3	77
295	Mesoporous Manganese Oxide Catalyzed Aerobic Oxidative Coupling of Anilines To Aromatic Azo Compounds. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2171-5	16.4	76
294	Nanoscale manganese oxide octahedral molecular sieves (OMS-2) as efficient photocatalysts in 2-propanol oxidation. <i>Applied Catalysis A: General</i> , <b>2010</b> , 375, 295-302	5.1	75
293	Electrical Resistivity Measurements on Manganese Oxides with Layer and Tunnel Structures: Birnessites, Todorokites, and Cryptomelanes. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 1286-1292	9.6	75
292	Reduced Graphene Oxide Supported Nickel/Manganese/Cobalt Spinel Ternary Oxide Nanocomposites and Their Chemically Converted Sulfide Nanocomposites as Efficient Electrocatalysts for Alkaline Water Splitting. <i>ACS Catalysis</i> , <b>2017</b> , 7, 819-832	13.1	74
291	Role of manganese oxide octahedral molecular sieves in styrene epoxidation. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 7592-9	3.4	74
290	Syntheses of Birnessites Using Alcohols as Reducing Reagents: Effects of Synthesis Parameters on the Formation of Birnessites. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 1972-1979	9.6	74
289	Synthesis and characterization of TM-MCM-48 (TM = Mn, V, Cr) and their catalytic activity in the oxidation of styrene. <i>Journal of Catalysis</i> , <b>2005</b> , 233, 60-67	7.3	70
288	Efficient, Catalytic, Aerobic Oxidation of Alcohols with Octahedral Molecular Sieves. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 4410-4413	3.6	70
287	Mesoporous manganese oxides for NO <sub>2</sub> assisted catalytic soot oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 201, 543-551	21.8	66
286	Fabrication of novel heterostructured few layered WS <sub>2</sub> -Bi <sub>2</sub> WO <sub>6</sub> /Bi <sub>3.84</sub> W <sub>0.16</sub> O <sub>6.24</sub> composites with enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 179, 220-228	21.8	66
285	Tin Oxide Films Made by Physical Vapor Deposition-Thermal Oxidation and Spray Pyrolysis. <i>Chemistry of Materials</i> , <b>1998</b> , 10, 2389-2398	9.6	66
284	Mesoporous Copper/Manganese Oxide Catalyzed Coupling of Alkynes: Evidence for Synergistic Cooperative Catalysis. <i>ACS Catalysis</i> , <b>2016</b> , 6, 5069-5080	13.1	66
283	Au/Carbon Electronic Interaction Mediated Selective Oxidation of Styrene. <i>ACS Catalysis</i> , <b>2017</b> , 7, 3483-3488	9.8	65
282	Hierarchical Mesoporous NiO/MnO@PANI Core-Shell Microspheres, Highly Efficient and Stable Bifunctional Electrocatalysts for Oxygen Evolution and Reduction Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42676-42687	9.5	65
281	Synthesis, Characterization, and Rietveld Refinement of Tungsten-Framework-Doped Porous Manganese Oxide (K-OMS-2) Material. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6382-6388	9.6	65
280	Spontaneous Formation of Inorganic Paper-Like Materials. <i>Advanced Materials</i> , <b>2004</b> , 16, 1729-1732	24	65

- 279 Ultrasonic Nozzle Spray in Situ Mixing and Microwave-Assisted Preparation of Nanocrystalline Spinel Metal Oxides: Nickel Ferrite and Zinc Aluminate. *Journal of Physical Chemistry C*, **2008**, 112, 1407-1414 3.8 63
- 278 Ternary Palladium-Boron-Phosphorus Alloy Mesoporous Nanospheres for Highly Efficient Electrocatalysis. *ACS Nano*, **2019**, 13, 12052-12061 16.7 62
- 277 Systematic Control of Particle Size in Rapid Open-Vessel Microwave Synthesis of K-OMS-2 Nanofibers. *Journal of Physical Chemistry C*, **2008**, 112, 6786-6793 3.8 62
- 276 Degradation of Congo Red dye by a FeO@CeO-ZrO/Palygorskite composite catalyst: Synergetic effects of FeO. *Journal of Colloid and Interface Science*, **2019**, 539, 135-145 9.3 60
- 275 Graphene oxide as structure-directing and morphology-controlling agent for the syntheses of heterostructured graphene-Bi<sub>2</sub>MoO<sub>6</sub>/Bi<sub>3.64</sub>Mo<sub>0.36</sub>O<sub>6.55</sub> composites with high photocatalytic activity. *Applied Catalysis B: Environmental*, **2014**, 156-157, 447-455 21.8 59
- 274 The viability of photocatalysis for air purification. *Molecules*, **2015**, 20, 1319-56 4.8 59
- 273 Structure and Oxidation Activity Correlations for Carbon Blacks and Diesel Soot. *Energy & Fuels*, **2012**, 26, 6757-6764 4.1 57
- 272 Manganese Oxide Nanoarray-Based Monolithic Catalysts: Tunable Morphology and High Efficiency for CO Oxidation. *ACS Applied Materials & Interfaces*, **2016**, 8, 7834-42 9.5 56
- 271 Structural Distortion of Molybdenum-Doped Manganese Oxide Octahedral Molecular Sieves for Enhanced Catalytic Performance. *Inorganic Chemistry*, **2015**, 54, 10163-71 5.1 55
- 270 Synthesis of Mesoporous Iron Oxides by an Inverse Micelle Method and Their Application in the Degradation of Orange II under Visible Light at Neutral pH. *Journal of Physical Chemistry C*, **2015**, 119, 10454-10468 3.8 54
- 269 Ion induced promotion of activity enhancement of mesoporous manganese oxides for aerobic oxidation reactions. *Applied Catalysis B: Environmental*, **2015**, 165, 731-741 21.8 54
- 268 Crystalline mesoporous K<sub>(2-x)</sub>MnO<sub>2</sub> and MnO<sub>2</sub> by mild transformations of amorphous mesoporous manganese oxides and their enhanced redox properties. *ACS Applied Materials & Interfaces*, **2014**, 6, 10986-91 9.5 54
- 267 Cactus-like NiCo<sub>2</sub>S<sub>4</sub>@NiFe LDH hollow spheres as an effective oxygen bifunctional electrocatalyst in alkaline solution. *Applied Catalysis B: Environmental*, **2021**, 286, 119869 21.8 54
- 266 Removal of Azo Dyes: Intercalation into Sonochemically Synthesized NiAl Layered Double Hydroxide. *Journal of Physical Chemistry C*, **2014**, 118, 17801-17809 3.8 53
- 265 A Review of Recent Developments of Mesoporous Materials. *Chemical Record*, **2017**, 17, 1169-1183 6.6 53
- 264 Ligand-Assisted Co-Assembly Approach toward Mesoporous Hybrid Catalysts of Transition-Metal Oxides and Noble Metals: Photochemical Water Splitting. *Angewandte Chemie - International Edition*, **2015**, 54, 9061-5 16.4 53
- 263 Some grand challenges in environmental chemistry. *Frontiers in Chemistry*, **2013**, 1, 1 5 53
- 262 Cadmium Removal from Aqueous Solution by a Deionization Supercapacitor with a Birnessite Electrode. *ACS Applied Materials & Interfaces*, **2016**, 8, 34405-34413 9.5 53

261	Nonaqueous Sol-Gel Syntheses of Microporous Manganese Oxides. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 1292-1299	9.6	52
260	Determination of the Degradation Mechanism from the Kinetic Parameters of Dehydrochlorinated Poly(vinyl chloride) Decomposition. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 3174-3181	3.4	51
259	Tetraalkylammonium Manganese Oxide Gels: Preparation, Structure, and Ion-Exchange Properties. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 5404-5410	3.4	50
258	Effects of Cu <sup>2+</sup> Ions on the Structure and Reactivity of Todorokite- and Cryptomelane-Type Manganese Oxide Octahedral Molecular Sieves. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 1733-1741	9.6	50
257	Characterization of Dip-Coated Boron Nitride on Silicon Carbide Fibers. <i>Journal of the American Ceramic Society</i> , <b>1994</b> , 77, 1011-1016	3.8	50
256	Partial Surface Selenization of Cobalt Sulfide Microspheres for Enhancing the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 456-465	13.1	50
255	Low temperature synthesis of NbC/C nano-composites as visible light photoactive catalyst. <i>Scientific Reports</i> , <b>2018</b> , 8, 13597	4.9	50
254	Shape Evolution of Single-Crystalline Mn <sub>2</sub> O <sub>3</sub> Using a Solvothermal Approach. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 14694-14697	3.8	49
253	A facile synthesis of Fe <sub>3</sub> C@mesoporous carbon nitride nanospheres with superior electrocatalytic activity. <i>Nanoscale</i> , <b>2016</b> , 8, 5441-5	7.7	47
252	Microwave-Assisted Synthesis of Manganese Oxide Octahedral Molecular Sieve (OMS-2) Nanomaterials under Continuous Flow Conditions. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14417-14426	3.8	47
251	Heterogeneous mesoporous manganese/cobalt oxide catalysts for selective oxidation of 5-hydroxymethylfurfural to 2,5-diformylfuran. <i>Chemical Communications</i> , <b>2017</b> , 53, 11751-11754	5.8	46
250	One-pot aqueous synthesis of ultrathin trimetallic PdPtCu nanosheets for the electrooxidation of alcohols. <i>Green Chemistry</i> , <b>2019</b> , 21, 2367-2374	10	46
249	High-Performance Catalytic CH <sub>4</sub> Oxidation at Low Temperatures: Inverse Micelle Synthesis of Amorphous Mesoporous Manganese Oxides and Mild Transformation to K <sub>2</sub> Mn <sub>8</sub> O <sub>16</sub> and $\gamma$ -MnO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1473-1482	3.8	46
248	Controllable synthesis of mesoporous cobalt oxide for peroxide free catalytic epoxidation of alkenes under aerobic conditions. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 221, 681-690	21.8	43
247	Mesoporous Manganese Oxide Catalyzed Aerobic Oxidative Coupling of Anilines To Aromatic Azo Compounds. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 2211-2215	3.6	43
246	Low Temperature Desulfurization of H <sub>2</sub> S: High Sorption Capacities by Mesoporous Cobalt Oxide via Increased H <sub>2</sub> S Diffusion. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6613-6621	9.6	42
245	Room temperature selective reduction of nitrobenzene to azoxybenzene over magnetically separable urchin-like Ni/Graphene nanocomposites. <i>Journal of Catalysis</i> , <b>2016</b> , 336, 41-48	7.3	41
244	Tungsten-Promoted Mesoporous Group 4 (Ti, Zr, and Hf) Transition-Metal Oxides for Room-Temperature Solvent-Free Acetalization and Ketalization Reactions. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2803-2813	9.6	41



243	Synthesis and characterization of iron-substituted hydroxyapatite via a simple ion-exchange procedure. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 665-673	4.3	41
242	Single-Doped and Multidoped Transition-Metal (Mn, Fe, Co, and Ni) ZnO and Their Electrocatalytic Activities for Oxygen Reduction Reaction. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 9977-9987	5.1	40
241	Enhancement of Catalytic Activities of Octahedral Molecular Sieve Manganese Oxide for Total and Preferential CO Oxidation through Vanadium Ion Framework Substitution. <i>ChemCatChem</i> , <b>2013</b> , 5, 2306-2317	5.3	40
240	A magnetic route to measure the average oxidation state of mixed-valent manganese in manganese oxide octahedral molecular sieves (OMS). <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 6166-7	16.4	40
239	Enhanced adsorption removal of arsenic from mining wastewater using birnessite under electrochemical redox reactions. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 122051	14.7	39
238	OMS-2 catalyzed oxidation of tetralin: A comparative study of microwave and conventional heating under open vessel conditions. <i>Applied Catalysis A: General</i> , <b>2008</b> , 348, 214-220	5.1	39
237	Intrafibrillar Mineralized Collagen-Hydroxyapatite-Based Scaffolds for Bone Regeneration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18235-18249	9.5	38
236	Manganese octahedral molecular sieve (OMS-2) catalysts for selective aerobic oxidation of thiols to disulfides. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 147, 124-131	21.8	38
235	Combined experimental and computational study of CO oxidation promoted by Nb in manganese oxide octahedral molecular sieves. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 361-369	21.8	37
234	Characterization of the Fe-Doped Mixed-Valent Tunnel Structure Manganese Oxide KOMS-2. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 21610-21619	3.8	37
233	Influence of Tight Confinement on Selective Oxidative Dehydrogenation of Ethane on MoVTeNb Mixed Oxides. <i>ACS Catalysis</i> , <b>2018</b> , 8, 7051-7067	13.1	37
232	Benchmarking of manganese oxide materials with CO oxidation as catalysts for low temperature selective oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 204, 411-420	21.8	36
231	Synthesis of Cryptomelane-Type Manganese Oxides by Microwave Heating. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 2090-2095	9.6	36
230	Nano-sized manganese oxide/Bovine serum albumin was synthesized and characterized. It is promising and biomimetic catalyst for water oxidation. <i>RSC Advances</i> , <b>2012</b> , 2, 11253	3.7	35
229	Single-step One-pot Synthesis of TiO Nanosheets Doped with Sulfur on Reduced Graphene Oxide with Enhanced Photocatalytic Activity. <i>Scientific Reports</i> , <b>2017</b> , 7, 46610	4.9	34
228	Template-Guided Programmable Janus Heteronanostructure Arrays for Efficient Plasmonic Photocatalysis. <i>Nano Letters</i> , <b>2018</b> , 18, 4914-4921	11.5	34
227	Enhancement of Zn <sup>2+</sup> and Ni <sup>2+</sup> removal performance using a deionization pseudocapacitor with nanostructured birnessite and its carbon nanotube composite electrodes. <i>Chemical Engineering Journal</i> , <b>2017</b> , 328, 464-473	14.7	34
226	Large-Scale Synthesis of Silver Manganese Oxide Nanofibers and Their Oxygen Reduction Properties. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 25352-25359	3.8	34

225	High Performance Composite Polymer Electrolytes for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101380	15.6	34
224	Constructing Bifunctional 3D Holey and Ultrathin CoP Nanosheets for Efficient Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29879-29887	9.5	33
223	Selective Oxidation of Methane to Methanol and Formaldehyde with Nitrous Oxide in a Dielectric-Barrier Discharge Plasma Reactor. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 5304-5308	2.8	33
222	Enhanced visible-light-assisted peroxymonosulfate activation on cobalt-doped mesoporous iron oxide for orange II degradation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 263, 118332	21.8	33
221	Unconventional structural and morphological transitions of nanosheets, nanoflakes and nanorods of AuNP@MnO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6447-6455	13	33
220	Highly active oxygen evolution integrated with efficient CO to CO electroreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 23915-23922	11.5	33
219	Antibody-like Biorecognition Sites for Proteins from Surface Imprinting on Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 28197-206	9.5	32
218	Cross dehydrogenative coupling of N-aryltetrahydroisoquinolines (sp <sup>3</sup> C <sub>H</sub> ) with indoles (sp <sup>2</sup> C <sub>H</sub> ) using a heterogeneous mesoporous manganese oxide catalyst. <i>Green Chemistry</i> , <b>2017</b> , 19, 5350-5355	10	31
217	Siloxane D4 adsorption by mesoporous aluminosilicates. <i>Chemical Engineering Journal</i> , <b>2016</b> , 289, 356-364	14.7	31
216	Synthetic Routes to Microporous Manganese Oxides. <i>Comments on Inorganic Chemistry</i> , <b>1997</b> , 19, 263-282	29	30
215	Spontaneous Formation of Inorganic Helical Fibers and Rings. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 12158-12163	16.4	30
214	Heterogeneous mesoporous manganese oxide catalyst for aerobic and additive-free oxidative aromatization of N-heterocycles. <i>Chemical Communications</i> , <b>2017</b> , 53, 2256-2259	5.8	29
213	Highly Conductive In-SnO <sub>2</sub> /RGO Nano-Heterostructures with Improved Lithium-Ion Battery Performance. <i>Scientific Reports</i> , <b>2016</b> , 6, 25860	4.9	29
212	Ordered mesoporous mixed metal oxides: remarkable effect of pore size on catalytic activity. <i>Langmuir</i> , <b>2014</b> , 30, 8228-37	4	29
211	ZnO/perovskite core-shell nanorod array based monolithic catalysts with enhanced propane oxidation and material utilization efficiency at low temperature. <i>Catalysis Today</i> , <b>2015</b> , 258, 549-555	5.3	28
210	Aerobic oxidative coupling of amines to imines by mesoporous copper aluminum mixed metal oxides via generation of Reactive Oxygen Species (ROS). <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 249, 32-41	21.8	27
209	Graphene Supported Single Atom Transition Metal Catalysts for Methane Activation. <i>ChemCatChem</i> , <b>2018</b> , 10, 3229-3235	5.2	27
208	Au-Cu-M (M = Pt, Pd, Ag) nanorods with enhanced catalytic efficiency by galvanic replacement reaction. <i>Chemical Communications</i> , <b>2019</b> , 55, 1249-1252	5.8	27

207	Ullmann Reaction Catalyzed by Heterogeneous Mesoporous Copper/Manganese Oxide: A Kinetic and Mechanistic Analysis. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 10290-10297	5.1	27
206	A Foaming Esterification Sol-Gel Route for the Synthesis of Magnesia/Alumina Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 367-371	3.8	27
205	Vertical Distribution and Partitioning of Chromium in a Glacioluvial Aquifer. <i>Ground Water Monitoring and Remediation</i> , <b>1994</b> , 14, 150-159	1.4	27
204	Magnetic and magnetocaloric properties of HoCrO <sub>3</sub> tuned by selective rare-earth doping. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	26
203	OxMn-2 for Aerobic, Catalytic, One-pot Alcohol Oxidation-Wittig Reactions: Efficient Access to $\alpha$ -Unsaturated Esters. <i>ChemCatChem</i> , <b>2014</b> , 6, 749-752	5.2	26
202	Synthesis of a new hollandite-type manganese oxide with framework and interstitial Cr(III). <i>Chemical Communications</i> , <b>2001</b> , 2486-7	5.8	26
201	Microwave-assisted synthesis of amine functionalized mesoporous polydivinylbenzene for CO <sub>2</sub> adsorption. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 19, 79-90	7.6	25
200	Colloidal Amphiphile-Templated Growth of Highly Crystalline Mesoporous Nonsiliceous Oxides. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6173-6176	9.6	25
199	Understanding the Role of Gold Nanoparticles in Enhancing the Catalytic Activity of Manganese Oxides in Water Oxidation Reactions. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2375-2380	3.6	25
198	Synthesis and Electrocatalytic Activity of Ammonium Nickel Phosphate, [NH <sub>4</sub> ] <sub>2</sub> NiPO <sub>4</sub> ·H <sub>2</sub> O, and Nickel Pyrophosphate, Ni <sub>2</sub> P <sub>2</sub> O <sub>7</sub> : Catalysts for Electrocatalytic Decomposition of Urea. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 1815-1823	5.1	25
197	Fast nucleation for silica nanoparticle synthesis using a sol-gel method. <i>Nanoscale</i> , <b>2016</b> , 8, 19662-19667	7.7	25
196	Copper aluminum mixed oxide (CuAl <sub>2</sub> O <sub>4</sub> ) catalyst: A green approach for the one-pot synthesis of imines under solvent-free conditions. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 188, 227-234	21.8	25
195	Mesoporous cobalt/manganese oxide: a highly selective bifunctional catalyst for amine-imine transformations. <i>Green Chemistry</i> , <b>2018</b> , 20, 3180-3185	10	25
194	Single-step synthesis of manganese oxide octahedral molecular sieves with large pore sizes. <i>Chemical Communications</i> , <b>2010</b> , 46, 5945-7	5.8	25
193	Kinetics and mechanism of 9H-fluorene oxidation catalyzed by manganese oxide octahedral molecular sieves. <i>ChemSusChem</i> , <b>2008</b> , 1, 182-5	8.3	25
192	Copper manganese oxide enhanced nanoarray-based monolithic catalysts for hydrocarbon oxidation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19047-19057	13	25
191	Microwave-assisted integration of transition metal oxide nanocoatings on manganese oxide nanoarray monoliths for low temperature CO oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 255, 117766	21.8	24
190	Modified Mesoporous Silica for Efficient Siloxane Capture. <i>Langmuir</i> , <b>2016</b> , 32, 2369-77	4	24

189	Synergetic Effects of Ultraviolet and Microwave Radiation for Enhanced Activity of TiO <sub>2</sub> Nanoparticles in Degrading Organic Dyes Using a Continuous-Flow Reactor. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 14040-14051	3.8	24
188	Some novel porous materials for selective catalytic oxidations. <i>Materials Today</i> , <b>2020</b> , 32, 244-259	21.8	24
187	Synthesis of mesoporous Fe <sub>2</sub> O <sub>3</sub> supported palladium nanoparticles and investigation of their roles as magnetically recyclable catalysts for nitrobenzene hydrogenation. <i>Applied Catalysis A: General</i> , <b>2015</b> , 502, 105-113	5.1	23
186	Mesoporous Co <sub>3</sub> O <sub>4</sub> catalysts for VOC elimination: Oxidation of 2-propanol. <i>Applied Catalysis A: General</i> , <b>2020</b> , 590, 117366	5.1	23
185	Photochemical Formation and Transformation of Birnessite: Effects of Cations on Micromorphology and Crystal Structure. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6864-6871	10.3	23
184	Thermal Decomposition of NF <sub>3</sub> with Various Oxides. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 1217-1221	9.6	22
183	Potassium modified layered Ln <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> (Ln: La, Nd, Sm, Eu) materials: efficient and stable heterogeneous catalysts for biofuel production. <i>Green Chemistry</i> , <b>2015</b> , 17, 3600-3608	10	21
182	In Situ Characterization of Mesoporous Co/CeO <sub>2</sub> Catalysts for the High-Temperature Water-Gas Shift. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8998-9008	3.8	21
181	Ultrafine and Ligand-Free Precious Metal (Ru, Ag, Au, Rh and Pd) Nanoclusters Supported on Phosphorus-Doped Carbon. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2565-2569	4.8	21
180	Nanoengineering of aggregation-free and thermally-stable gold nanoparticles in mesoporous frameworks. <i>Nanoscale</i> , <b>2017</b> , 9, 6380-6390	7.7	20
179	Cu supported on mesoporous ceria: water gas shift activity at low Cu loadings through metal-support interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 17708-17717	3.6	20
178	Amorphous Manganese Oxides: An Approach for Reversible Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1627-1633	6.1	20
177	Mesoporous Co <sub>3</sub> O <sub>4</sub> nanostructured material synthesized by one-step soft-templating: A magnetic study. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 114309	2.5	20
176	High-rate and long-life of Li-ion batteries using reduced graphene oxide/Co <sub>3</sub> O <sub>4</sub> as anode materials. <i>RSC Advances</i> , <b>2016</b> , 6, 24320-24330	3.7	18
175	Superhydrophobic and stable mesoporous polymeric adsorbent for siloxane removal: D4 super-adsorbent. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5023-5030	13	18
174	Water Harvesting from the Atmosphere in Arid Areas with Manganese Dioxide. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 48-53	11	18
173	An ultrasonic atomization assisted synthesis of self-assembled manganese oxide octahedral molecular sieve nanostructures and their application in catalysis and water treatment. <i>Nanoscale</i> , <b>2017</b> , 9, 5009-5018	7.7	17
172	TiO <sub>2</sub> Supported gold-palladium catalyst for effective syngas production from methane partial oxidation. <i>Applied Catalysis A: General</i> , <b>2018</b> , 554, 54-63	5.1	17

171	Albumin removal from human serum using surface nanopockets on silica-coated magnetic nanoparticles. <i>Chemical Communications</i> , <b>2017</b> , 53, 9254-9257	5.8	17
170	Facile access to versatile functional groups from alcohol by single multifunctional reusable catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 607-614	21.8	17
169	A Sucrose-Mediated Sol-Gel Technique for the Synthesis of MgO/TiO <sub>2</sub> Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 346-350	3.8	17
168	Partially reduced Ru/RuO <sub>2</sub> composites as efficient and pH-universal electrocatalysts for hydrogen evolution. <i>Energy and Environmental Science</i> ,	35.4	17
167	Zinc removal from aqueous solution using a deionization pseudocapacitor with a high-performance nanostructured birnessite electrode. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 811-823	7.1	16
166	Syntheses of ZnO with Different Morphologies: Catalytic Activity toward Coumarin Synthesis via the Knoevenagel Condensation Reaction. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 5703-5714	5.1	16
165	A Full Account of Holey Material. <i>Science</i> , <b>2003</b> , 302, 1335-1335	33.3	16
164	Lithium promoted mesoporous manganese oxide catalyzed oxidation of allyl ethers. <i>Nature Communications</i> , <b>2019</b> , 10, 655	17.4	15
163	Comprehensive Magnetic Study of Nanostructured Mesoporous Manganese Oxide Materials and Implications for Catalytic Behavior. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1164-1177	9.6	15
162	Catalytic manganese oxide nanostructures for the reverse water gas shift reaction. <i>Nanoscale</i> , <b>2019</b> , 11, 16677-16688	7.7	15
161	Sodium hydroxide catalyzed monodispersed high surface area silica nanoparticles. <i>Materials Research Express</i> , <b>2016</b> , 3,	1.7	15
160	Electrochemical and Surface-Plasmon Correlation of a Serum-Autoantibody Immunoassay with Binding Insights: Graphenyl Surface versus Mercapto-Monolayer Surface. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12456-12463	7.8	15
159	Modified inverse micelle synthesis for mesoporous alumina with a high D4 siloxane adsorption capacity. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 239, 328-335	5.3	14
158	Toward Long-Term Accurate and Continuous Monitoring of Nitrate in Wastewater Using Poly(tetrafluoroethylene) (PTFE)-Solid-State Ion-Selective Electrodes (S-ISEs). <i>ACS Sensors</i> , <b>2020</b> , 5, 3182-3193	9.2	14
157	Identification of Reaction Intermediates and Mechanistic Understandings of Methane Oxidation over Hematite: A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17119-17130	16.4	14
156	Moisture-Induced Structural Degradation in Methylammonium Lead Iodide Perovskite Thin Films. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8240-8248	6.1	14
155	Surface redox characters and synergetic catalytic properties of macroporous ceria-zirconia solid solutions. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 366, 54-64	12.8	14
154	Effect of Solvent Topography and Steric Hindrance on Crystal Morphology. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 12108-12113	3.9	13

153	Scalable continuous flow synthesis of ZnO nanorod arrays in 3-D ceramic honeycomb substrates for low-temperature desulfurization. <i>CrystEngComm</i> , <b>2017</b> , 19, 5128-5136	3.3	13
152	Ligand-Assisted Co-Assembly Approach toward Mesoporous Hybrid Catalysts of Transition-Metal Oxides and Noble Metals: Photochemical Water Splitting. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9189-9193	3.6	13
151	Control of Catalytic Activity Via Porosity, Chemical Composition, and Morphology of Nanostructured Porous Manganese Oxide Materials. <i>Journal of the Chinese Chemical Society</i> , <b>2012</b> , 59, 465-472	1.5	13
150	Bimodification of Mesoporous Silicon Oxide by Coupled In Situ Oxidation at the Interface and Ion Exchange and its Catalytic Activity in the Gas-Phase Toluene Oxidation. <i>ChemCatChem</i> , <b>2013</b> , 5, 920-930	5.2	13
149	Synthesis and characterization of polyvinylsilazane as a precursor for Si <sub>3</sub> N <sub>4</sub> based ceramic materials. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 6538-6544	4.3	13
148	Effects of Water, Cations, and Structure on Energetics of Layer and Framework Phases, Na <sub>x</sub> Mg <sub>y</sub> MnO <sub>2</sub> ·nH <sub>2</sub> O. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 5035-5039	3.4	13
147	Activity and stability of mesoporous CeO <sub>2</sub> and ZrO <sub>2</sub> catalysts for the self-condensation of cyclopentanone. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 267, 118373	21.8	13
146	Synergistic catalysis by Mn promoted ceria for molecular oxygen assisted epoxidation. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119573	21.8	13
145	Water-Gas-Shift over Metal-Free Nanocrystalline Ceria: An Experimental and Theoretical Study. <i>ChemCatChem</i> , <b>2017</b> , 9, 1373-1377	5.2	12
144	Structure-property relationship of graphene coupled metal (Ni, Co, Fe) (oxy)hydroxides for efficient electrochemical evolution of oxygen. <i>Journal of Catalysis</i> , <b>2019</b> , 377, 619-628	7.3	12
143	Solar Irradiation Induced Transformation of Ferrihydrite in the Presence of Aqueous Fe. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8854-8861	10.3	12
142	Magnetic studies of mesoporous nanostructured iron oxide materials synthesized by one-step soft-templating. <i>Dalton Transactions</i> , <b>2015</b> , 44, 11943-53	4.3	12
141	Excitation wavelength dependent photon anti-bunching/bunching from single quantum dots near gold nanostructures. <i>Nanoscale</i> , <b>2018</b> , 10, 1038-1046	7.7	12
140	Heterogeneous Catalytic Oxidation of Amides to Imides by Manganese Oxides. <i>Scientific Reports</i> , <b>2018</b> , 8, 13649	4.9	12
139	Improved Understanding of CO <sub>2</sub> Water Pretreatment of Guayule Biomass by High Solids Ratio Experiments, Rapid Physical Expansion, and Examination of Textural Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 645-652	3.9	11
138	Effect of Gd substitution on the structural, magnetic, and magnetocaloric properties of HoCrO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 053904	2.5	11
137	Preparation and characterization of an oxide-oxide continuous fiber reinforced ceramic matrix composite with a zinc oxide interphase. <i>Ceramics International</i> , <b>2017</b> , 43, 17121-17127	5.1	11
136	Efficient Oxidation of 2,3,6-Trimethyl Phenol using Non-Exchanged and H <sup>+</sup> Exchanged Manganese Oxide Octahedral Molecular Sieves (K-OMS-2 and H <sup>+</sup> -OMS-2) as Catalysts. <i>Catalysis Letters</i> , <b>2012</b> , 142, 427-432	2.8	11

135	Catalyst Nature and Frequency Effects on the Oligomerization of Methane via Microwave Heating. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3663-3670	3.4	11
134	Photo-generated reactive oxygen species assisted tandem amine homocoupling and amine-alcohol cross-coupling reaction on mesoporous spinel cobalt oxide. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118386	21.8	11
133	Solvent effects on the heterogeneous growth of TiO <sub>2</sub> nanostructure arrays by solvothermal synthesis. <i>Catalysis Today</i> , <b>2021</b> , 360, 275-283	5.3	11
132	Self-limiting growth of ligand-free ultrasmall bimetallic nanoparticles on carbon through under temperature reduction for highly efficient methanol electrooxidation and selective hydrogenation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 264, 118553	21.8	10
131	Hydrophobic mesoporous adsorbent based on cyclic amine-divinylbenzene copolymer for highly efficient siloxane removal. <i>RSC Advances</i> , <b>2016</b> , 6, 77310-77320	3.7	10
130	Robust Macroscopic 3D Sponges of Manganese Oxide Molecular Sieves. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16213-16218	4.8	9
129	An initial study into the use of microwave remediation of hexachlorobenzene treated soil using selected oxidants and coated graphite rods. <i>Journal of Soils and Sediments</i> , <b>2007</b> , 7, 147-152	3.4	9
128	Silicon Carbide/Silicon and Silicon Carbide/Silicon Carbide Composites Produced by Chemical Vapor Infiltration. <i>Journal of the American Ceramic Society</i> , <b>1990</b> , 73, 3091-3093	3.8	9
127	X-ray absorption studies of Cu(en) <sub>2</sub> <sup>2+</sup> exchanged Y zeolite. <i>Journal of Chemical Physics</i> , <b>1982</b> , 76, 5665-5668	5.6	9
126	Direct Synthesis of Conformal Layered Protonated Titanate Nanoarray Coatings on Various Substrate Surfaces Boosted by Low-Temperature Microwave-Assisted Hydrothermal Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 35164-35174	9.5	9
125	Thermally activated structural transformations in manganese oxide nanoparticles under air and argon atmospheres. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 7247-7258	4.3	8
124	Atmospheric pressure chemical vapor infiltration of a titanium carbide interphase coating on carbon fiber. <i>Ceramics International</i> , <b>2020</b> , 46, 15084-15091	5.1	8
123	An investigation into a multilayered BN/Si <sub>3</sub> N <sub>4</sub> /BN interfacial coating. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 6194-6202	4.3	8
122	Interactions of Sulfur Oxides with Diesel Oxidation Catalysts (DOCs). <i>ACS Symposium Series</i> , <b>2013</b> , 117-155	4.4	8
121	Titania Condensation by a Bio-Inspired Synthetic Block Copolymer. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2056-2063	6.7	8
120	Hydrogen Evolution from Water Coupled with the Oxidation of As(III) in a Photocatalytic System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 28429-37	9.5	8
119	Significantly increased Raman enhancement on defect-rich O-incorporated 1T-MoS <sub>2</sub> nanosheets. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 16374-16384	4.3	8
118	Insights into the structure-property-activity relationship in molybdenum-doped octahedral molecular sieve manganese oxides for catalytic oxidation. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 6493-6502	5.5	8

117	Structural and chemical state of doped and impregnated mesoporous Ni/CeO <sub>2</sub> catalysts for the water-gas shift. <i>Applied Catalysis A: General</i> , <b>2018</b> , 567, 1-11	5.1	8
116	Ion-Exchange Loading Promoted Stability of Platinum Catalysts Supported on Layered Protonated Titanate-Derived Titania Nanoarrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21515-21525	9.5	7
115	Self-grown NiCuOx hybrids on a porous NiCuC substrate as an HER cathode in alkaline solution. <i>Applied Surface Science</i> , <b>2020</b> , 515, 146117	6.7	7
114	Abiotic photomineralization and transformation of iron oxide nanominerals in aqueous systems. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1169-1178	7.1	7
113	Water splitting in low-temperature ac plasmas at atmospheric pressure. <i>Research on Chemical Intermediates</i> , <b>2000</b> , 26, 849-874	2.8	7
112	Molybdenum Oxycarbide and Tungsten Oxycarbide Coatings on Silicon Carbide Fibers. <i>Journal of the American Ceramic Society</i> , <b>1989</b> , 72, 1523-1524	3.8	7
111	Multifunctional transition metal doped titanium dioxide reduced graphene oxide composites as highly efficient adsorbents and photocatalysts. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 307, 110521	5.3	7
110	Effective Zinc Adsorption Driven by Electrochemical Redox Reactions of Birnessite Nanosheets Generated by Solar Photochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 13907-13914	8.3	7
109	Revealing the effect of interfacial electron transfer in heterostructured Co <sub>9</sub> S <sub>8</sub> @NiFe LDH for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 12244-12254	13	7
108	Self-assembly synthesis of Mn <sub>3</sub> O <sub>4</sub> hierarchical micro/nano architectures as supercapacitor electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 12004-12014	2.1	6
107	Amine/thiol functionalized mesoporous polydivinylbenzene for CO <sub>2</sub> adsorption. <i>Materials Today Energy</i> , <b>2017</b> , 4, 81-88	7	6
106	A Review of Green Synthesis of Nanophase Inorganic Materials for Green Chemistry Applications <b>2012</b> , 217		6
105	Dip Coating of Boron Nitride Thin Films on Nicalon Fibers. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 249, 227		6
104	Oligomerization and Carbon Dioxide Reforming of Methane in a Dielectric-barrier Discharge-plasma System.. <i>Sekiyu Gakkaishi (Journal of the Japan Petroleum Institute)</i> , <b>1999</b> , 42, 383-391		6
103	A novel, mesoporous molybdenum doped titanium dioxide/reduced graphene oxide composite as a green, highly efficient solid acid catalyst for acetalization. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3786-3795	4.3	6
102	Niobium-substituted octahedral molecular sieve (OMS-2) materials in selective oxidation of methanol to dimethoxymethane.. <i>RSC Advances</i> , <b>2019</b> , 9, 32665-32673	3.7	6
101	Mass transport in nanoarray monolithic catalysts: An experimental-theory study. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126906	14.7	6
100	Roles of Enhancement of CH <sub>4</sub> Activation and Diminution of CO Formation Within M1-Phase Pores in Propane Selective Oxidation. <i>ChemCatChem</i> , <b>2021</b> , 13, 882-899	5.2	6



99	High surface area mesoporous tungsten oxide for fast, green oxidation of organosulfur compounds in crude oil. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100616	6.6	5
98	Crystalline Mesoporous Complex Oxides: Porosity-Controlled Electromagnetic Response. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909491	15.6	5
97	End-to-end and side-by-side alignment of short octahedral molecular sieve (OMS-2) nanorods into long microyarn superarchitectures and highly flexible membranes. <i>Nano Structures Nano Objects</i> , <b>2018</b> , 14, 49-56	5.6	5
96	Aluminum Oxide and Chromium Oxide Coatings on Ceramic Fibers via MOCVD. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4823-4829	9.6	5
95	Selectivity in Catalysis. <i>ACS Symposium Series</i> , <b>1993</b> , 1-19	0.4	5
94	Molecular Design of Aluminosilicate Thin Film Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 233, 157		5
93	Mesoporous Molybdenum-Tungsten Mixed Metal Oxide: A Solid Acid Catalyst for Green, Highly Efficient sp-sp C-C Coupling Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 5990-5998	9.5	5
92	A novel generalized metal dissolution approach for the synthesis of mixed valent mesoporous metal oxides. <i>Materials Today</i> , <b>2020</b> , 35, 50-68	21.8	5
91	Polymer-Assisted Co-Assembly towards Synthesis of Mesoporous Titania Encapsulated Monodisperse PdAu for Highly Selective Hydrogenation of Phenylacetylene. <i>ChemCatChem</i> , <b>2020</b> , 12, 1476-1482	5.2	5
90	Mesoporous Crystalline Niobium Oxide with a High Surface Area: A Solid Acid Catalyst for Alkyne Hydration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47389-47396	9.5	5
89	Supported Pt Nanoparticles on Mesoporous Titania for Selective Hydrogenation of Phenylacetylene. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 581512	5	5
88	Synthesis of Large Mesoporous-Macroporous and High Pore Volume, Mixed Crystallographic Phase Manganese Oxide, MnO/MnO Sponge. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6946-6956	5.1	5
87	Fluoride additive in epoxide-initiated sol-gel synthesis enables thin-film applications of SnO <sub>2</sub> aerogels. <i>RSC Advances</i> , <b>2016</b> , 6, 21326-21331	3.7	4
86	Enhanced Catalytic Properties of Molybdenum Promoted Mesoporous Cobalt Oxide: Structure-Surface-Dependent Activity for Selective Synthesis of 2-Substituted Benzimidazoles. <i>ChemCatChem</i> , <b>2019</b> , 11, 528-537	5.2	4
85	Preparation Method and Cation Dopant Effects on the Particle Size and Properties of BaCeO <sub>3</sub> Perovskites. <i>International Studies Review</i> , <b>2005</b> , 7, 478-480	1	4
84	Structure-property correlations and scaling in the magnetic and magnetocaloric properties of GdCrO particles. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	4
83	Comparison of structural and catalytic properties of monometallic Mo and V oxides and M1 phase mixed oxides for oxidative dehydrogenation. <i>Catalysis Today</i> , <b>2021</b> , 368, 28-45	5.3	4
82	Effects of Zr substitution on soot combustion over cubic fluorite-structured nanoceria: Soot-ceria contact and interfacial oxygen evolution. <i>Journal of Environmental Sciences</i> , <b>2021</b> , 101, 293-303	6.4	4

81	A two-electron transfer mechanism of the Zn-doped $\gamma$ -MnO <sub>2</sub> cathode toward aqueous Zn-ion batteries with ultrahigh capacity. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 6762-6771	13	4
80	Enhanced Catalytic Activity of a Vanadium-Doped Mesoporous Octahedral Molecular Sieve-2 (K-OMS-2) toward Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12185-12193	6.1	3
79	Rapid Chemical Vapor Infiltration of Silicon Carbide Minicomposites at Atmospheric Pressure. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 4986-4992	9.5	3
78	Pt/Ferric Hydroxyphosphate: An Effective Catalyst for the Selective Hydrogenation of $\alpha$ -Unsaturated Aldehydes (Ketones) into $\alpha$ -Unsaturated Alcohols. <i>Catalysis Letters</i> , <b>2018</b> , 148, 555-563	2.8	3
77	Photocatalytic Transformation of Amines to Imines by Meso-Porous Copper Sulfides. <i>ChemCatChem</i> , <b>2019</b> , 11, 4262-4265	5.2	3
76	The interaction of mercury and methylmercury with chalcogenide nanoparticles. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113346	9.3	3
75	Substrate control of anisotropic resistivity in heteroepitaxial nanostructured arrays of cryptomelane manganese oxide on strontium titanate. <i>Small</i> , <b>2014</b> , 10, 66-72	11	3
74	Response to Comments on the application of the Scherrer equation in Copper aluminum mixed oxide (CuAl MO) catalyst: A green approach for the one-pot synthesis of imines under solvent-free conditions by Suib et al. [Appl. Catal. B: Environ, 188 [2016] 227-234, doi:10.1016/j.apcatb.2016.02.007], Article Type: Correspondence. <i>Applied Catalysis B: Environmental</i>	21.8	3
73	Magnetic study of the Co-MCM-41 catalyst: Before and after reaction. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 103904	2.5	3
72	Carbon film growth on iron substrates by a CVD method. <i>Surface and Interface Analysis</i> , <b>2005</b> , 37, 310-315	5.5	3
71	Activation of methane in microwave plasmas at high pressure. <i>Research on Chemical Intermediates</i> , <b>2001</b> , 27, 643-658	2.8	3
70	Photodegradation of Dichloromethane with Titanium Catalysts. <i>ACS Symposium Series</i> , <b>1990</b> , 114-118	0.4	3
69	Green Electrochemical Energy Storage Devices Based on Sustainable Manganese Dioxides. <i>ACS ES&amp;T Engineering</i> ,		3
68	Epitaxial growth mechanism of heterogeneous catalytic oxidation of Mn(II) on manganite under oxidic conditions. <i>Chemical Geology</i> , <b>2020</b> , 547, 119670	4.2	3
67	Metabolites of Tobacco- and E-Cigarette-Related Nitrosamines Can Drive Cu-Mediated DNA Oxidation. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 2072-2086	4	3
66	Magnetic Nanoparticles with Surface Nanopockets for Highly Selective Antibody Isolation.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 6157-6166	4.1	3
65	Continuous Fiber-reinforced Ceramic Matrix Composites <b>2016</b> , 146-199		3
64	Direct Construction of Mesoporous Metal Sulfides via Reactive Spray Deposition Technology. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2370-2374	6.1	3

63	Formation and transformation of manganese(III) intermediates in the photochemical generation of manganese(IV) oxide minerals. <i>Chemosphere</i> , <b>2021</b> , 262, 128082	8.4	3
62	Novel epoxy-silica nanoparticles to develop non-enzymatic colorimetric probe for analytical immuno/bioassays. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1028, 77-85	6.6	3
61	Effects of microwave and ultrasound exposure to microsphere particles made out of different classes of inorganic and organic materials. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 65, 26-30	6.3	3
60	Coating of Bn Interfaces on Ceramic Yarns from Boric Acid and Ammonia	5.56-5.62	3
59	Energy-Geometry Dependency of Molecular Structures: A Multistep Machine Learning Approach. <i>ACS Combinatorial Science</i> , <b>2019</b> , 21, 614-621	3.9	2
58	Epoxidation of cyclopentene by a low cost and environmentally friendly bicarbonate/peroxide/manganese system. <i>Adsorption Science and Technology</i> , <b>2018</b> , 36, 9-22	3.6	2
57	Studies of the Hierarchical Structure in UCT Manganese Oxides. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1864-1865	0.5	2
56	Microwave-Assisted Continuous Synthesis of Inorganic Nanomaterials	2013, 247-269	2
55	Inclusion of the effects of polydispersity and volatility on the random chain scission statistical analysis for polymer degradation. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 3690-3696	2.5	2
54	Luminescence as a Probe of Metal Effects in Fluidized Cracking Catalysts. <i>ACS Symposium Series</i> , <b>1991</b> , 224-241	0.4	2
53	Photochemical Studies of Zeolites. <i>ACS Symposium Series</i> , <b>1982</b> , 225-238	0.4	2
52	Unusual Nanometer-Sized Nsutite From Mn(ClO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O-(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> NOH-CsMnO <sub>4</sub> ·H <sub>2</sub> O Basic Systems. <i>Journal of Chemical Engineering of Japan</i> , <b>2003</b> , 36, 1222-1226	0.8	2
51	Morphological Control of Silicon Carbide Deposited on Hi-Nicalon Type S Fiber Using Atmospheric Pressure Chemical Vapor Infiltration. <i>ACS Omega</i> , <b>2020</b> , 5, 24811-24817	3.9	2
50	Nanoporous Co/Mn-Mixed Metal Oxides Templated via Polysulfones for Amine Oxidation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11923-11932	5.6	2
49	Effect of lithium incorporation on tweaking the electrocatalytic behavior of tantalum-based oxides. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23413-23426	13	2
48	Comparison of the dielectric and magnetocaloric properties of bulk and film of GdFe <sub>0.5</sub> Cr <sub>0.5</sub> O <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 243904	2.5	2
47	Tailoring Defects in Photocatalysts by Engineering Solvent Interactions for Highly Active and Responsive Color Switching. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2101115	8.1	2
46	Modified Solution Combustion Synthesis (SCS) of nickel oxide, NiO sphere clusters using glucans and sodium salts: Application for electrocatalytic decomposition of urea. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 295, 109750	5.3	2

45	Identification of key oxidative intermediates and the function of chromium dopants in PKU-8: catalytic dehydrogenation of sec-alcohols with tert-butylhydroperoxide. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 1365-1374	5.5	2
44	Selective Oxidative Coupling of Amines Using Mesoporous MoOx Catalysts. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 2086-2097	5.6	2
43	Partial Oxidation of Methane to Synthesis Gas Using Supported Ga-Containing Bimetallic Catalysts and a Ti-Promoter. <i>ChemCatChem</i> , <b>2018</b> , 10, 4300-4308	5.2	2
42	Role of catalytic nitrile decomposition in tricopper complex mediated direct partial oxidation of methane to methanol. <i>Scientific Reports</i> , <b>2021</b> , 11, 19175	4.9	2
41	Impedance Spectroscopy Screening of Various Nanocrystalline Metal Oxides: Effect of Lithiation on Electrical Properties. <i>Energy Technology</i> , <b>2017</b> , 5, 1407-1414	3.5	1
40	First-principles study of carbon capture and storage properties of porous MnO2 octahedral molecular sieve OMS-5. <i>Powder Diffraction</i> , <b>2019</b> , 34, 13-20	1.8	1
39	New findings and current controversies in the reaction of ruthenium red and ammonium cerium(IV) nitrate: focus on the precipitated compound. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 2491-2502	5.5	1
38	Cross Sectional Analysis of Cation Doped Transition Metal Oxide Mesoporous Catalyst Materials. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 292-293	0.5	1
37	Porous Metal Oxides as Catalysts. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1446, 55		1
36	Colloidal Manganese Oxide Precursor to Octahedral Layered, OL-3 Materials. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2007</b> , 17, 459-467	3.2	1
35	Decomposition of CF4 by Microwave Heating: A Potential Way to Decrease Greenhouse Gas Emissions. <i>ACS Symposium Series</i> , <b>2003</b> , 338-350	0.4	1
34	Carbon Coated Silicon Powders As Anode Materials For Lithium Ion Batteries. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 756, 1		1
33	Stabilization of microwave arc plasmas of hydrocarbons at atmospheric pressure. <i>Research on Chemical Intermediates</i> , <b>2000</b> , 26, 529-548	2.8	1
32	Vanadium Migration between Model Components of Fluid Cracking Catalysts. <i>ACS Symposium Series</i> , <b>1993</b> , 185-203	0.4	1
31	Scanning Electron Microscopy/Energy-Dispersive X-ray Analysis of Nickel Migration in Model Fluid Cracking Catalysts. <i>ACS Symposium Series</i> , <b>1994</b> , 209-229	0.4	1
30	Nano-Size Silicon Whiskers Produced by Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 351, 147		1
29	Facile preparation of porous manganese oxide foams, sponges, and merged spherical networks, using Polydopamine/Dextran for catalytic oxidation of cyclohexane. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 295, 109740	5.3	1
28	Bioinspired Oil-Infused Slippery Surfaces with Water and Ion Barrier Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 33464-33476	9.5	1

27	Fe doped aluminoborate PKU-1 catalysts for the ketalization of glycerol to solketal: Unveiling the effects of iron composition and boron. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	1
26	Syntheses of gold supported on metal oxides and their application in organic transformations. <i>Microporous and Mesoporous Materials</i> , <b>2022</b> , 336, 111888	5.3	1
25	Transition-metal doped titanate nanowire photocatalysts boosted by selective ion-exchange induced defect engineering. <i>Applied Surface Science</i> , <b>2022</b> , 591, 153116	6.7	1
24	One-Pot Aqueous and Template-Free Synthesis of Mesoporous Polymeric Resins. <i>Catalysts</i> , <b>2019</b> , 9, 7824		0
23	Aerobic Self-Esterification of Alcohols Assisted by Mesoporous Manganese and Cobalt Oxide. <i>ChemCatChem</i> , <b>2019</b> , 11, 3413-3422	5.2	0
22	Hexakis(benzonitrile)ruthenium(II) bis[tetrafluoroborate(1-)]: a precursor to ruthenium organometallic compounds. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 3817-3823	2.8	0
21	Frontiers in chemistry grand challenge: open communication to the world. <i>Frontiers in Chemistry</i> , <b>2014</b> , 2, 42	5	0
20	Removal of As(V) from wastewaters using magnetic iron oxides formed by zero-valent iron electrocoagulation.. <i>Journal of Environmental Management</i> , <b>2022</b> , 307, 114519	7.9	0
19	Focused Ion Beam-Prepared Transmission Electron Microscopy Examination of Atmospheric Chemical Vapor-Infiltrated Silicon Carbide Morphology. <i>ACS Omega</i> , <b>2021</b> , 6, 863-870	3.9	0
18	Large Scale Synthesis of Manganese Oxide/Reduced Graphene Oxide Composites as Anode Materials for Long Cycle Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5424-5433	6.1	0
17	Partial oxidation of isobutylene using Ni TiOx. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 300, 120711	21.8	0
16	Assessment of micropore accessibility for hydrocarbon oxidation in manganese oxide sieves. <i>Applied Catalysis A: General</i> , <b>2022</b> , 635, 118557	5.1	0
15	Selenium-doped copper oxide nanoarrays: Robust electrocatalyst for the oxygen evolution reaction with ultralow overpotential. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101485	6.6	0
14	In Situ Phase Transformation of Monodisperse Manganese Oxide Nanoparticles. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1896-1897	0.5	
13	Biosynthesis of Size-Controlled Metal and Metal Oxide Nanoparticles by Bacteria <b>2015</b> , 123-140		
12	Mesoporous TM Oxide Materials by Surfactant-Assisted Soft Templating <b>2015</b> , 699-718		
11	The Synthesis and Structure of Hexakis(dimethylphenylphosphonite)ruthenium(II) bis[tetraphenylborate(1-)]. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 275-277	1.3	
10	Factors Affecting the Catalytic Activation of Methane via Microwave Heating. <i>ACS Symposium Series</i> , <b>2003</b> , 325-337	0.4	

- 9 Double Interface Coatings on Silicon Carbide Fibers. *Materials Research Society Symposia Proceedings*, **2004**, 843, 3111
- 8 Synthesis of Metal-doped Cryptomelane Nanomaterials using Cross-linking Reagents. *Materials Research Society Symposia Proceedings*, **2002**, 755, 1
- 7 MOCVD of Aluminum Oxide Barrier Coating. *Materials Research Society Symposia Proceedings*, **2002**, 750, 1
- 6 Sol-Gel AL<sub>2</sub>O<sub>3</sub> Coatings on SiC Fiber. *Materials Research Society Symposia Proceedings*, **1991**, 249, 213
- 5 Tin Passivation of Vanadium Contaminants in Model Fluid Cracking Catalysts. *ACS Symposium Series*, **1989**, 40-45 0.4
- 4 TEM Sample Preparation of Ceramic Matrix Composites Using FIB. *Microscopy and Microanalysis*, **2016**, 22, 1836-1837 0.5
- 3 Microstructural Transformations of La<sub>0.6</sub>Sr<sub>0.4</sub>MnO<sub>3</sub> to nNano-layered Mn Oxide during Electrochemical Water Oxidation. *Microscopy and Microanalysis*, **2016**, 22, 1276-1277 0.5
- 2 Non-precious Metal Oxide and Metal-free Catalysts for Energy Storage and Conversion **2016**, 243-320
- 1 Synthesis and Characterization of Al<sub>2</sub>O<sub>3</sub> Coated SiC Yarns 548-555