

# Sumi Peng

## List of Publications by Year in Descending Order

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

86  
papers

2,071  
citations

26  
h-index

43  
g-index

93  
ext. papers

2,618  
ext. citations

6.2  
avg, IF

4.93  
L-index

#	Paper	IF	Citations
86	Self-templated formation of hierarchical hollow $\gamma$ -MnO <sub>2</sub> microspheres with enhanced oxygen reduction activities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 637, 128228	5.1	2
85	The synergistically enhanced activity and stability of layered manganese oxide via the engineering of defects and K <sup>+</sup> ions for oxygen electrocatalysis. <i>CrystEngComm</i> , <b>2022</b> , 24, 2327-2335	3.3	0
84	Nano Fe <sub>3</sub> -Cu O <sub>4</sub> as the heterogeneous catalyst in an advanced oxidation process for excellent peroxymonosulfate activation toward clmbazole degradation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135553	14.7	2
83	A dual-function luminescent probe for copper(II) ions and pH detection based on ruthenium(II) complex.. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 277, 121265	4.4	1
82	Surface phosphorization of Ni-Co-S as an efficient bifunctional electrocatalyst for full water splitting. <i>Dalton Transactions</i> , <b>2021</b> , 50, 16578-16586	4.3	4
81	Recent Progress in Solar-Induced Direct Biomass-to-Electricity Hybrid Fuel Cell Using Microalgae as Feedstocks. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 638971	5.8	0
80	Orthorhombic CoSe <sub>2</sub> nanoparticles anchored in Ketjenblack as a bifunctional electrocatalyst for Zn-air batteries. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 14385	2.1	1
79	3D hierarchical NiCo <sub>2</sub> S <sub>4</sub> /NiCo LDH architecture for high-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 3843-3853	2.1	1
78	Oxygen Defect Engineering of $\gamma$ -MnO Catalysts via Phase Transformation for Selective Catalytic Reduction of NO. <i>Small</i> , <b>2021</b> , 17, e2102408	11	8
77	Interconnected NiCo <sub>2</sub> O <sub>4</sub> nanosheet arrays grown on carbon cloth as a host, adsorber and catalyst for sulfur species enabling high-performance LIB batteries. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1690-1698	5.1	4
76	Enhanced Catalytic Hydrogen Peroxide Production from Hydroxylamine Oxidation on Modified Activated Carbon Fibers: The Role of Surface Chemistry. <i>Catalysts</i> , <b>2021</b> , 11, 1515	4	0
75	Facile deposition of high-quality Cs <sub>2</sub> AgBiBr <sub>6</sub> films for efficient double perovskite solar cells. <i>Science China Materials</i> , <b>2020</b> , 63, 1518-1525	7.1	18
74	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr Nanoplatelets with Enhanced Stability and Charge Transport. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 31863-31874	9.5	18
73	Real-Time Monitoring of Self-Aggregation of $\beta$ -Amyloid by a Fluorescent Probe Based on Ruthenium Complex. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 2953-2960	7.8	12
72	Salen-based bifunctional chemosensor for copper (II) ions: Inhibition of copper-induced amyloid- $\beta$ aggregation. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1097, 144-152	6.6	7
71	Highly Efficient Hydrogenation of Nitrobenzene to Aniline over Pt/CeO <sub>2</sub> Catalysts: The Shape Effect of the Support and Key Role of Additional Ce <sup>3+</sup> Sites. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10350-10363	13.1	42
70	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 22340-22346	3.6	2

69	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 22156-22162	16.4	15
68	Branched capping ligands improve the stability of cesium lead halide (CsPbBr <sub>3</sub> ) perovskite quantum dots. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 11251-11257	7.1	25
67	Controllable synthesis of Ni <sub>3</sub> Co <sub>3</sub> O <sub>4</sub> -rGO with enhanced oxygen reduction/evolution activity. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 18424-18431	2.1	1
66	MOF-derived metal oxide composite Mn <sub>2</sub> Co <sub>1</sub> O <sub>x</sub> /CN for efficient formaldehyde oxidation at low temperature. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 5845-5854	5.5	18
65	Influence of preparation temperature and acid treatment on the catalytic activity of MnO <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , <b>2019</b> , 272, 173-181	3.3	15
64	Yolk-shell Prussian blue analogues hierarchical microboxes: Controllably exposing active sites toward enhanced cathode performance for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 237-244	6.7	14
63	Pure Bromide-Based Perovskite Nanoplatelets for Blue Light-Emitting Diodes. <i>Small Methods</i> , <b>2019</b> , 3, 1900196	12.8	21
62	Adsorption and oxidation of arsenic by two kinds of MnO. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 373, 232-242	12.8	26
61	Shape-Controlled Synthesis of NiCo <sub>2</sub> O <sub>4</sub> -rGO as Bifunctional Electrocatalyst for Zn-Air Battery. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4429-4436	4.3	14
60	Photocatalytic transformation of clmbazole and 4-chlorophenol formation using a floral array of chromium-substituted magnetite nanoparticles activated with peroxymonosulfate. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 2986-2999	7.1	7
59	Novel Ordered Mesoporous MnO <sub>2</sub> Catalyst for High-Performance Catalytic Oxidation of Toluene and o-Xylene. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 13926-13934	3.9	26
58	A self-powered electrolytic process for glucose to hydrogen conversion. <i>Communications Chemistry</i> , <b>2019</b> , 2,	6.3	9
57	Preparation and Characterization of Platinum Nanoparticles Supported by Non-woven Fabric for Formaldehyde Decomposition. <i>Fibers and Polymers</i> , <b>2019</b> , 20, 2099-2105	2	1
56	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in ZnCdSe Nanowires. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7516-7522	6.4	4
55	Nitrogen-Doped Ketjenblack Carbon Supported CoO Nanoparticles as a Synergistic Electrocatalyst for Oxygen Reduction Reaction. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 766	5	7
54	In-situ green synthesis of CuO on 3D submicron-porous/solid copper current collectors as excellent supercapacitor electrode material. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 3545-3551	2.1	10
53	Seed-Assisted Synthesis of Hierarchical MnO <sub>2</sub> /Nitride TiO <sub>2</sub> Taper Nanorod Arrays on Carbon Fiber Paper with Enhanced Supercapacitor Performance. <i>Energy Technology</i> , <b>2019</b> , 7, 1800933	3.5	1
52	Li <sub>x</sub> Mn <sub>2</sub> O <sub>4</sub> ultrathin nanosheets with faster Li <sup>+</sup> diffusion for highly reversible Li-ions batteries. <i>Materials Letters</i> , <b>2019</b> , 236, 358-361	3.3	5

51	Ni/Co-based metal-organic frameworks as electrode material for high performance supercapacitors. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 605-609	8.1	50
50	3D hierarchical structures MnO <sub>2</sub> /C: A highly efficient catalyst for purification of volatile organic compounds with visible light irradiation. <i>Applied Surface Science</i> , <b>2018</b> , 447, 191-199	6.7	11
49	Shape-controlled synthesis of nickel-cobalt-sulfide with enhanced electrochemical activity. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 2251-2258	2.1	3
48	Preparation of 3D micro/nanostructured CeO <sub>2</sub> : Influence of organic/inorganic acids. <i>Particuology</i> , <b>2018</b> , 37, 17-25	2.8	2
47	Enhanced catalytic performance by oxygen vacancy and active interface originated from facile reduction of OMS-2. <i>Chemical Engineering Journal</i> , <b>2018</b> , 331, 626-635	14.7	66
46	Controllable synthesis 3D hierarchical structured MnO <sub>2</sub> @NiCo <sub>2</sub> O <sub>4</sub> and its morphology-dependent activity. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 319-326	6.8	5
45	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , <b>2018</b> , 1, 221-231	11	54
44	A composite material with CeO <sub>2</sub> -ZrO <sub>2</sub> nanocrystallines embedded in SiO <sub>2</sub> matrices and its enhanced thermal stability and oxygen storage capacity. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	2
43	The art of balance: Engineering of structure defects and electrical conductivity of $\delta$ -MnO <sub>2</sub> for oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 459-466	6.7	38
42	Purification and characterization of a novel cell-penetrating carrier similar to cholera toxin chimeric protein. <i>Protein Expression and Purification</i> , <b>2017</b> , 129, 128-134	2	5
41	The effect of acid/alkali treatment on the catalytic combustion activity of manganese oxide octahedral molecular sieves. <i>RSC Advances</i> , <b>2017</b> , 7, 3958-3965	3.7	21
40	One-pot hydrothermal synthesis of novel 3D starfish-like $\delta$ -MnO <sub>2</sub> nanosheets on carbon fiber paper for high-performance supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 14910-14916	3.7	26
39	Adsorption and Oxidation of Arsenic by Ultra-long $\delta$ -MnO <sub>2</sub> Nanowires with the (1 1 0) Surface. <i>Inorganic and Nano-Metal Chemistry</i> , <b>2017</b> , 0-0	1.2	5
38	Effect of textural features and surface properties of activated carbon on the production of hydrogen peroxide from hydroxylamine oxidation. <i>RSC Advances</i> , <b>2017</b> , 7, 25305-25313	3.7	4
37	Hierarchical branched $\delta$ -MnO <sub>2</sub> : one-step synthesis and catalytic activity. <i>RSC Advances</i> , <b>2017</b> , 7, 46529-46535	3.7	5
36	Hot electron-hole plasma dynamics and amplified spontaneous emission in ZnTe nanowires. <i>Nanoscale</i> , <b>2017</b> , 9, 15612-15621	7.7	9
35	The Effects and Mechanism of YK-4-279 in Combination with Docetaxel on Prostate Cancer. <i>International Journal of Medical Sciences</i> , <b>2017</b> , 14, 356-366	3.7	14
34	Highly Ordered, Ultralong Mn-Based Nanowire Films with Low Contact Resistance as Freestanding Electrodes for Flexible Supercapacitors with Enhanced Performance. <i>ChemElectroChem</i> , <b>2017</b> , 4, 3061-3067	4.3	4

33	Three-dimensional radial $\beta$ -MnO <sub>2</sub> synthesized from different redox potential for bifunctional oxygen electrocatalytic activities. <i>Journal of Power Sources</i> , <b>2017</b> , 362, 332-341	8.9	49
32	Microwave-Assisted Synthesis of FeO Nanocrystals with Predominantly Exposed Facets and Their Heterogeneous UVA/Fenton Catalytic Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29203-29212	9.5	51
31	Phase controllable synthesis of three-dimensional star-like MnO <sub>2</sub> hierarchical architectures as highly efficient and stable oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16462-16468	13	42
30	Facile one-pot synthesis of a NiMoO <sub>4</sub> /reduced graphene oxide composite as a pseudocapacitor with superior performance. <i>RSC Advances</i> , <b>2016</b> , 6, 69627-69633	3.7	42
29	Rational design of MnO@MnO hierarchical nanomaterials and their catalytic activities. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18851-18858	4.3	18
28	Improved Low pH Emulsification Properties of Glycated Peanut Protein Isolate by Ultrasound Maillard Reaction. <i>Journal of Agricultural and Food Chemistry</i> , <b>2016</b> , 64, 5531-8	5.7	51
27	Design of three dimensional hybrid Co <sub>3</sub> O <sub>4</sub> @NiMoO <sub>4</sub> core/shell arrays grown on carbon cloth as high-performance supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 13957-13963	3.7	23
26	Controlled synthesis of $\beta$ -MnO <sub>2</sub> nanowires and their catalytic performance for toluene combustion. <i>Materials Research Bulletin</i> , <b>2016</b> , 75, 17-24	5.1	37
25	Mesoporous $\beta$ -MnO <sub>2</sub> microspheres with high specific surface area: Controlled synthesis and catalytic activities. <i>Chemical Engineering Journal</i> , <b>2016</b> , 286, 114-121	14.7	65
24	Low-cost superior solid-state symmetric supercapacitors based on hematite nanocrystals. <i>Nanotechnology</i> , <b>2016</b> , 27, 505404	3.4	13
23	Crystallization design of MnO <sub>2</sub> via acid towards better oxygen reduction activity. <i>CrystEngComm</i> , <b>2016</b> , 18, 6895-6902	3.3	19
22	Bunched akaganeite nanorod arrays: Preparation and high-performance for flexible lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 296, 237-244	8.9	31
21	Highly Polarizable Triiodide Anions (I <sub>3</sub> <sup>-</sup> ) as Cross-Linkers for Coordination Polymers: Closing the Semiconductive Band Gap. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 6087-9	5.1	11
20	NiCo <sub>2</sub> O <sub>4</sub> / MnO <sub>2</sub> heterostructured nanosheet: influence of preparation conditions on its electrochemical properties. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 359-368	6.7	18
19	A facile one-pot hydrothermal synthesis of branched $\beta$ -MnO <sub>2</sub> nanorods for supercapacitor application. <i>CrystEngComm</i> , <b>2015</b> , 17, 5970-5977	3.3	32
18	Three-dimensional NiCo <sub>2</sub> O <sub>4</sub> nanowire arrays: preparation and storage behavior for flexible lithium-ion and sodium-ion batteries with improved electrochemical performance. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19765-19773	13	110
17	In situ growth of burl-like nickel cobalt sulfide on carbon fibers as high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1730-1736	13	153
16	High Performance All-solid Supercapacitors Based on the Network of Ultralong Manganese dioxide/Polyaniline Coaxial Nanowires. <i>Scientific Reports</i> , <b>2015</b> , 5, 17858	4.9	34

15	Synthesis and thermal stability properties of boron-doped silicone resin. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	6
14	Polyol-mediated syntheses of crystalline nanosized manganese oxides. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	2
13	Interactions of ruthenium complexes containing indoloquinoline moiety with human telomeric G-quadruplex DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 124, 187-93	4.4	14
12	Ru-indoloquinoline complex as a selective and effective human telomeric G-quadruplex binder. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 132, 84-90	4.4	5
11	Ultra-long $\gamma$ -MnO <sub>2</sub> nanowires: Control synthesis and its absorption activity. <i>Materials Letters</i> , <b>2014</b> , 121, 234-237	3.3	15
10	A facile one-pot hydrothermal synthesis of $\gamma$ -MnO <sub>2</sub> nanopincers and their catalytic degradation of methylene blue. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 217, 57-63	3.3	50
9	Controlled synthesis of nanostructured manganese oxide: crystalline evolution and catalytic activities. <i>CrystEngComm</i> , <b>2013</b> , 15, 7010	3.3	130
8	Transition metal doped cryptomelane-type manganese oxide for low-temperature catalytic combustion of dimethyl ether. <i>Chemical Engineering Journal</i> , <b>2013</b> , 220, 320-327	14.7	108
7	Multifunctional free-standing membrane from the self-assembly of ultralong MnO <sub>2</sub> nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7458-64	9.5	53
6	Novel Synthesis of Birnessite-Type MnO <sub>2</sub> Nanostructure for Water Treatment and Electrochemical Capacitor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 9586-9593	3.9	58
5	The catalytic oxidation of toluene over Pd-based FeCrAl wire mesh monolithic catalysts prepared by electroless plating method. <i>Catalysis Communications</i> , <b>2012</b> , 29, 127-131	3.2	23
4	Manganese oxides with different crystalline structures: Facile hydrothermal synthesis and catalytic activities. <i>Materials Letters</i> , <b>2012</b> , 86, 18-20	3.3	52
3	Rapid synthesis of cryptomelane-type manganese oxide under ultrasonic process. <i>Materials Letters</i> , <b>2011</b> , 65, 3184-3186	3.3	14
2	Promoting Effect of Ce in Ce/OMS-2 Catalyst for Catalytic Combustion of Dimethyl Ether. <i>Catalysis Letters</i> , <b>2011</b> , 141, 111-119	2.8	54
1	Schottky Heterojunction Nanosheet Array Achieving High-Current-Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. <i>Advanced Energy Materials</i> , 2102353	21.8	21