

# Sumi Peng

## List of Publications by Year in descending order

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91  
papers

3,169  
citations

136740

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168136

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93  
docs citations

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times ranked

4543  
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2022, 637, 128228.	2.3	6
2	The synergistically enhanced activity and stability of layered manganese oxide <i>via</i> the engineering of defects and K <sup>+</sup> ions for oxygen electrocatalysis. <i>CrystEngComm</i> , 2022, 24, 2327-2335.	1.3	4
3	Homologous NiCoP@NiFeP heterojunction array achieving high-current hydrogen evolution for alkaline anion exchange membrane electrolyzers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10209-10218.	5.2	24
4	Nano Fe <sub>3</sub> -Cu O <sub>4</sub> as the heterogeneous catalyst in an advanced oxidation process for excellent peroxydisulfate activation toward clombazole degradation. <i>Chemical Engineering Journal</i> , 2022, 439, 135553.	6.6	11
5	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> , 2022, 277, 121265.	2.0	4
6	Self-assembly Behavior of Metal Halide Perovskite Nanocrystals. <i>Chinese Journal of Chemistry</i> , 2022, 40, 2239-2248.	2.6	6
7	Engineering Amorphous/Crystalline Structure of Manganese Oxide for Superior Oxygen Catalytic Performance in Rechargeable Zinc-Air Batteries. <i>ChemSusChem</i> , 2022, 15, .	3.6	6
8	Thiol-Containing Metal-Organic Framework-Decorated Carbon Cloth as an Integrated Interlayer Current Collector for Enhanced Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 31942-31950.	4.0	8
9	A highly active VO <sub>2</sub> -MnO <sub>2</sub> /CeO <sub>2</sub> for selective catalytic reduction of NO: The balance between redox property and surface acidity. <i>Journal of Rare Earths</i> , 2021, 39, 1370-1381.	2.5	9
10	3D hierarchical NiCo <sub>2</sub> S <sub>4</sub> /Ni-Co LDH architecture for high-performance supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3843-3853.	1.1	2
11	Recent Progress in Solar-Induced Direct Biomass-to-Electricity Hybrid Fuel Cell Using Microalgae as Feedstocks. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 638971.	2.0	2
12	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> , 2021, 32, 14385-14397.	1.1	5
13	Oxygen Defect Engineering of $\gamma$ -MnO <sub>2</sub> Catalysts via Phase Transformation for Selective Catalytic Reduction of NO. <i>Small</i> , 2021, 17, e2102408.	5.2	38
14	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 Li-S batteries. <i>Nanoscale Advances</i> , 2021, 3, 1690-1698.	2.2	10
15	Schottky Heterojunction Nanosheet Array Achieving High-Current Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. <i>Advanced Energy Materials</i> , 2021, 11, 2102353.	10.2	177
16	Surface phosphorization of Ni-Co-S as an efficient bifunctional electrocatalyst for full water splitting. <i>Dalton Transactions</i> , 2021, 50, 16578-16586.	1.6	17
17	Enhanced Catalytic Hydrogen Peroxide Production from Hydroxylamine Oxidation on Modified Activated Carbon Fibers: The Role of Surface Chemistry. <i>Catalysts</i> , 2021, 11, 1515.	1.6	2
18	Salen-based bifunctional chemosensor for copper (II) ions: Inhibition of copper-induced amyloid- $\beta$ aggregation. <i>Analytica Chimica Acta</i> , 2020, 1097, 144-152.	2.6	11

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19	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. ACS Catalysis, 2020, 10, 10350-10363.	5.5	117
20	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie, 2020, 132, 22340-22346.	1.6	2
21	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. Angewandte Chemie - International Edition, 2020, 59, 22156-22162.	7.2	24
22	Facile deposition of high-quality Cs <sub>2</sub> AgBiBr <sub>6</sub> films for efficient double perovskite solar cells. Science China Materials, 2020, 63, 1518-1525.	3.5	41
23	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr <sub>3</sub> Nanoplatelets with Enhanced Stability and Charge Transport. ACS Applied Materials & Interfaces, 2020, 12, 31863-31874.	4.0	37
24	Real-Time Monitoring of Self-Aggregation of $\beta$ -Amyloid by a Fluorescent Probe Based on Ruthenium Complex. Analytical Chemistry, 2020, 92, 2953-2960.	3.2	21
25	Shape-Controlled Synthesis of NiCo <sub>2</sub> O <sub>4</sub> @rGO as Bifunctional Electrocatalyst for Zn-Air Battery. ChemElectroChem, 2019, 6, 4429-4436.	1.7	22
26	Photocatalytic transformation of climbazole and 4-chlorophenol formation using a floral array of chromium-substituted magnetite nanoparticles activated with peroxymonosulfate. Environmental Science: Nano, 2019, 6, 2986-2999.	2.2	10
27	Novel Ordered Mesoporous $\beta$ -MnO <sub>2</sub> Catalyst for High-Performance Catalytic Oxidation of Toluene and <i>o</i> -Xylene. Industrial & Engineering Chemistry Research, 2019, 58, 13926-13934.	1.8	54
28	A self-powered electrolytic process for glucose to hydrogen conversion. Communications Chemistry, 2019, 2, .	2.0	21
29	Preparation and Characterization of Platinum Nanoparticles Supported by Non-woven Fabric for Formaldehyde Decomposition. Fibers and Polymers, 2019, 20, 2099-2105.	1.1	3
30	Branched capping ligands improve the stability of cesium lead halide (CsPbBr <sub>3</sub> ) perovskite quantum dots. Journal of Materials Chemistry C, 2019, 7, 11251-11257.	2.7	41
31	Controllable synthesis of Ni <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> -rGO with enhanced oxygen reduction/evolution activity. Journal of Materials Science: Materials in Electronics, 2019, 30, 18424-18431.	1.1	4
32	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. Catalysis Science and Technology, 2019, 9, 5845-5854.	2.1	32
33	Influence of preparation temperature and acid treatment on the catalytic activity of MnO <sub>2</sub> . Journal of Solid State Chemistry, 2019, 272, 173-181.	1.4	24
34	Yolk-shell Prussian blue analogues hierarchical microboxes: Controllably exposing active sites toward enhanced cathode performance for lithium ion batteries. Electrochimica Acta, 2019, 319, 237-244.	2.6	21
35	Pure Bromide-Based Perovskite Nanoplatelets for Blue Light-Emitting Diodes. Small Methods, 2019, 3, 1900196.	4.6	34
36	Adsorption and oxidation of arsenic by two kinds of $\beta$ -MnO <sub>2</sub> . Journal of Hazardous Materials, 2019, 373, 232-242.	6.5	44

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37	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in Zn <sub>1-x</sub> Cd <sub>x</sub> Se Nanowires. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7516-7522.	2.1	5
38	Nitrogen-Doped Ketjenblack Carbon Supported Co <sub>3</sub> O <sub>4</sub> Nanoparticles as a Synergistic Electrocatalyst for Oxygen Reduction Reaction. <i>Frontiers in Chemistry</i> , 2019, 7, 766.	1.8	20
39	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> , 2019, 30, 3545-3551.	1.1	17
40	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> , 2019, 7, 1800933.	1.8	1
41	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> , 2019, 236, 358-361.	1.3	7
42	Ni/Co-based metal-organic frameworks as electrode material for high performance supercapacitors. <i>Chinese Chemical Letters</i> , 2019, 30, 605-609.	4.8	95
43	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> , 2018, 447, 191-199.	3.1	17
44	Shape-controlled synthesis of nickel-cobalt-sulfide with enhanced electrochemical activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 2251-2258.	1.1	5
45	Preparation of 3D micro/nanostructured CeO <sub>2</sub> : Influence of organic/inorganic acids. <i>Particuology</i> , 2018, 37, 17-25.	2.0	3
46	Enhanced catalytic performance by oxygen vacancy and active interface originated from facile reduction of OMS-2. <i>Chemical Engineering Journal</i> , 2018, 331, 626-635.	6.6	100
47	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> , 2018, 5, 319-326.	3.0	9
48	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , 2018, 1, 221-231.	7.3	85
49	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> , 2018, 20, 1.	0.8	2
50	The art of balance: Engineering of structure defects and electrical conductivity of MnO <sub>2</sub> for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 283, 459-466.	2.6	50
51	Purification and characterization of a novel cell-penetrating carrier similar to cholera toxin chimeric protein. <i>Protein Expression and Purification</i> , 2017, 129, 128-134.	0.6	7
52	The effect of acid/alkali treatment on the catalytic combustion activity of manganese oxide octahedral molecular sieves. <i>RSC Advances</i> , 2017, 7, 3958-3965.	1.7	26
53	One-pot hydrothermal synthesis of novel 3D starfish-like MnO <sub>2</sub> nanosheets on carbon fiber paper for high-performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 14910-14916.	1.7	32
54	Adsorption and Oxidation of Arsenic by Ultra-long MnO <sub>2</sub> Nanowires with the (1 1 0) Surface. <i>Inorganic and Nano-Metal Chemistry</i> , 2017, , 0-0.	0.9	5

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55	Effect of textual features and surface properties of activated carbon on the production of hydrogen peroxide from hydroxylamine oxidation. RSC Advances, 2017, 7, 25305-25313.	1.7	4
56	Hierarchical branched $\gamma$ -MnO <sub>2</sub> : one-step synthesis and catalytic activity. RSC Advances, 2017, 7, 46529-46535.	1.7	5
57	Hot electron-hole plasma dynamics and amplified spontaneous emission in ZnTe nanowires. Nanoscale, 2017, 9, 15612-15621.	2.8	12
58	Highly Ordered, Ultralong Mn-Based Nanowire Films with Low Contact Resistance as Freestanding Electrodes for Flexible Supercapacitors with Enhanced Performance. ChemElectroChem, 2017, 4, 3061-3067.	1.7	5
59	Three-dimensional radial $\gamma$ -MnO <sub>2</sub> synthesized from different redox potential for bifunctional oxygen electrocatalytic activities. Journal of Power Sources, 2017, 362, 332-341.	4.0	75
60	Microwave-Assisted Synthesis of Fe <sub>3</sub> O <sub>4</sub> Nanocrystals with Predominantly Exposed Facets and Their Heterogeneous UVA/Fenton Catalytic Activity. ACS Applied Materials & Interfaces, 2017, 9, 29203-29212.	4.0	91
61	The Effects and Mechanism of YK-4-279 in Combination with Docetaxel on Prostate Cancer. International Journal of Medical Sciences, 2017, 14, 356-366.	1.1	19
62	Low-cost superior solid-state symmetric supercapacitors based on hematite nanocrystals. Nanotechnology, 2016, 27, 505404.	1.3	13
63	Crystallization design of MnO <sub>2</sub> via acid towards better oxygen reduction activity. CrystEngComm, 2016, 18, 6895-6902.	1.3	32
64	Phase controllable synthesis of three-dimensional star-like MnO <sub>2</sub> hierarchical architectures as highly efficient and stable oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2016, 4, 16462-16468.	5.2	48
65	Facile one-pot synthesis of a NiMoO <sub>4</sub> /reduced graphene oxide composite as a pseudocapacitor with superior performance. RSC Advances, 2016, 6, 69627-69633.	1.7	51
66	Rational design of MnO <sub>2</sub> @MnO <sub>2</sub> hierarchical nanomaterials and their catalytic activities. Dalton Transactions, 2016, 45, 18851-18858.	1.6	24
67	Improved Low pH Emulsification Properties of Glycated Peanut Protein Isolate by Ultrasound Maillard Reaction. Journal of Agricultural and Food Chemistry, 2016, 64, 5531-5538.	2.4	73
68	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. RSC Advances, 2016, 6, 13957-13963.	1.7	27
69	Controlled synthesis of $\gamma$ -MnO <sub>2</sub> nanowires and their catalytic performance for toluene combustion. Materials Research Bulletin, 2016, 75, 17-24.	2.7	55
70	Mesoporous $\gamma$ -MnO <sub>2</sub> microspheres with high specific surface area: Controlled synthesis and catalytic activities. Chemical Engineering Journal, 2016, 286, 114-121.	6.6	87
71	High Performance All-solid Supercapacitors Based on the Network of Ultralong Manganese dioxide/Polyaniline Coaxial Nanowires. Scientific Reports, 2015, 5, 17858.	1.6	42
72	Bunched akaganeite nanorod arrays: Preparation and high-performance for flexible lithium-ion batteries. Journal of Power Sources, 2015, 296, 237-244.	4.0	34

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73	Highly Polarizable Triiodide Anions ( $I_3^-$ ) as Cross-Linkers for Coordination Polymers: Closing the Semiconductive Band Gap. <i>Inorganic Chemistry</i> , 2015, 54, 6087-6089.	1.9	14
74	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> , 2015, 176, 359-368.	2.6	20
75	A facile one-pot hydrothermal synthesis of branched $\gamma$ -MnO <sub>2</sub> nanorods for supercapacitor application. <i>CrystEngComm</i> , 2015, 17, 5970-5977.	1.3	40
76	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> , 2015, 3, 19765-19773.	5.2	124
77	In situ growth of burl-like nickel cobalt sulfide on carbon fibers as high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1730-1736.	5.2	172
78	Ultra-long $\gamma$ -MnO <sub>2</sub> nanowires: Control synthesis and its absorption activity. <i>Materials Letters</i> , 2014, 121, 234-237.	1.3	18
79	A facile one-pot hydrothermal synthesis of $\beta$ -MnO <sub>2</sub> nanopincers and their catalytic degradation of methylene blue. <i>Journal of Solid State Chemistry</i> , 2014, 217, 57-63.	1.4	63
80	Synthesis and thermal stability properties of boron-doped silicone resin. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	8
81	Polyol-mediated syntheses of crystalline nanosized manganese oxides. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	2
82	Interactions of ruthenium complexes containing indoloquinoline moiety with human telomeric G-quadruplex DNA. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 124, 187-193.	2.0	18
83	Ru-indoloquinoline complex as a selective and effective human telomeric G-quadruplex binder. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 84-90.	2.0	10
84	Controlled synthesis of nanostructured manganese oxide: crystalline evolution and catalytic activities. <i>CrystEngComm</i> , 2013, 15, 7010.	1.3	179
85	Transition metal doped cryptomelane-type manganese oxide for low-temperature catalytic combustion of dimethyl ether. <i>Chemical Engineering Journal</i> , 2013, 220, 320-327.	6.6	133
86	Multifunctional Free-Standing Membrane from the Self-assembly of Ultralong MnO <sub>2</sub> Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 7458-7464.	4.0	63
87	Novel Synthesis of Birnessite-Type MnO <sub>2</sub> Nanostructure for Water Treatment and Electrochemical Capacitor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9586-9593.	1.8	64
88	The catalytic oxidation of toluene over Pd-based FeCrAl wire mesh monolithic catalysts prepared by electroless plating method. <i>Catalysis Communications</i> , 2012, 29, 127-131.	1.6	28
89	Manganese oxides with different crystalline structures: Facile hydrothermal synthesis and catalytic activities. <i>Materials Letters</i> , 2012, 86, 18-20.	1.3	61
90	Rapid synthesis of cryptomelane-type manganese oxide under ultrasonic process. <i>Materials Letters</i> , 2011, 65, 3184-3186.	1.3	16

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91	Promoting Effect of Ce in Ce/OMS-2 Catalyst for Catalytic Combustion of Dimethyl Ether. Catalysis Letters, 2011, 141, 111-119.	1.4	59