Sumi Peng

List of Publications by Citations

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	In situ growth of burl-like nickel cobalt sulfide on carbon fibers as high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 1730-1736	13	153
85	Controlled synthesis of nanostructured manganese oxide: crystalline evolution and catalytic activities. *CrystEngComm*, **2013**, 15, 7010	3.3	130
84	Three-dimensional NiCo2O4 nanowire arrays: preparation and storage behavior for flexible lithium-ion and sodium-ion batteries with improved electrochemical performance. *Journal of Materials Chemistry A*, **2015**, 3, 19765-19773	13	110
83	Transition metal doped cryptomelane-type manganese oxide for low-temperature catalytic combustion of dimethyl ether. *Chemical Engineering Journal*, **2013**, 220, 320-327	14.7	108
82	Enhanced catalytic performance by oxygen vacancy and active interface originated from facile reduction of OMS-2. *Chemical Engineering Journal*, **2018**, 331, 626-635	14.7	66
81	Mesoporous □MnO 2 microspheres with high specific surface area: Controlled synthesis and catalytic activities. *Chemical Engineering Journal*, **2016**, 286, 114-121	14.7	65
80	Novel Synthesis of Birnessite-Type MnO2 Nanostructure for Water Treatment and Electrochemical Capacitor. *Industrial & Engineering Chemistry Research*, **2013**, 52, 9586-9593	3.9	58
79	Promoting Effect of Ce in Ce/OMS-2 Catalyst for Catalytic Combustion of Dimethyl Ether. *Catalysis Letters*, **2011**, 141, 111-119	2.8	54
78	Ruddlesden□Popper Perovskite for Stable Solar Cells. *Energy and Environmental Materials*, **2018**, 1, 221-231	13	54
77	Multifunctional free-standing membrane from the self-assembly of ultralong MnO2 nanowires. *ACS Applied Materials & Interfaces*, **2013**, 5, 7458-64	9.5	53
76	Manganese oxides with different crystalline structures: Facile hydrothermal synthesis and catalytic activities. *Materials Letters*, **2012**, 86, 18-20	3.3	52
75	Improved Low pH Emulsification Properties of Glycated Peanut Protein Isolate by Ultrasound Maillard Reaction. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 5531-8	5.7	51
74	Microwave-Assisted Synthesis of FeO Nanocrystals with Predominantly Exposed Facets and Their Heterogeneous UVA/Fenton Catalytic Activity. *ACS Applied Materials & Interfaces*, **2017**, 9, 29203-29212	9.5	51
73	A facile one-pot hydrothermal synthesis of □MnO2 nanopincers and their catalytic degradation of methylene blue. *Journal of Solid State Chemistry*, **2014**, 217, 57-63	3.3	50
72	Ni/Co-based metal-organic frameworks as electrode material for high performance supercapacitors. *Chinese Chemical Letters*, **2019**, 30, 605-609	8.1	50
71	Three-dimensional radial □MnO2 synthesized from different redox potential for bifunctional oxygen electrocatalytic activities. *Journal of Power Sources*, **2017**, 362, 332-341	8.9	49
70	Phase controllable synthesis of three-dimensional star-like MnO2 hierarchical architectures as highly efficient and stable oxygen reduction electrocatalysts. *Journal of Materials Chemistry A*, **2016**, 4, 16462-16468	13	42

69	Facile one-pot synthesis of a NiMoO4/reduced graphene oxide composite as a pseudocapacitor with superior performance. *RSC Advances*, **2016**, 6, 69627-69633	3.7	42
68	Highly Efficient Hydrogenation of Nitrobenzene to Aniline over Pt/CeO2 Catalysts: The Shape Effect of the Support and Key Role of Additional Ce3+ Sites. *ACS Catalysis*, **2020**, 10, 10350-10363	13.1	42
67	The art of balance: Engineering of structure defects and electrical conductivity of □MnO2 for oxygen reduction reaction. *Electrochimica Acta*, **2018**, 283, 459-466	6.7	38
66	Controlled synthesis of □MnO2 nanowires and their catalytic performance for toluene combustion. *Materials Research Bulletin*, **2016**, 75, 17-24	5.1	37
65	High Performance All-solid Supercapacitors Based on the Network of Ultralong Manganese dioxide/Polyaniline Coaxial Nanowires. *Scientific Reports*, **2015**, 5, 17858	4.9	34
64	A facile one-pot hydrothermal synthesis of branched □MnO2 nanorods for supercapacitor application. *CrystEngComm*, **2015**, 17, 5970-5977	3.3	32
63	Bunched akaganeite nanorod arrays: Preparation and high-performance for flexible lithium-ion batteries. *Journal of Power Sources*, **2015**, 296, 237-244	8.9	31
62	One-pot hydrothermal synthesis of novel 3D starfish-like □MnO2 nanosheets on carbon fiber paper for high-performance supercapacitors. *RSC Advances*, **2017**, 7, 14910-14916	3.7	26
61	Adsorption and oxidation of arsenic by two kinds of □MnO. *Journal of Hazardous Materials*, **2019**, 373, 232-242	12.8	26
60	Novel Ordered Mesoporous □MnO2 Catalyst for High-Performance Catalytic Oxidation of Toluene and o-Xylene. *Industrial & Engineering Chemistry Research*, **2019**, 58, 13926-13934	3.9	26
59	Branched capping ligands improve the stability of cesium lead halide (CsPbBr3) perovskite quantum dots. *Journal of Materials Chemistry C*, **2019**, 7, 11251-11257	7.1	25
58	Design of three dimensional hybrid Co3O4@NiMoO4 core/shell arrays grown on carbon cloth as high-performance supercapacitors. *RSC Advances*, **2016**, 6, 13957-13963	3.7	23
57	The catalytic oxidation of toluene over Pd-based FeCrAl wire mesh monolithic catalysts prepared by electroless plating method. *Catalysis Communications*, **2012**, 29, 127-131	3.2	23
56	The effect of acid/alkali treatment on the catalytic combustion activity of manganese oxide octahedral molecular sieves. *RSC Advances*, **2017**, 7, 3958-3965	3.7	21
55	Pure Bromide-Based Perovskite Nanoplatelets for Blue Light-Emitting Diodes. *Small Methods*, **2019**, 3, 1900196	12.8	21
54	Schottky Heterojunction Nanosheet Array Achieving High-Current-Density Oxygen Evolution for Industrial Water Splitting Electrolyzers. *Advanced Energy Materials*,2102353	21.8	21
53	Crystallization design of MnO2via acid towards better oxygen reduction activity. *CrystEngComm*, **2016**, 18, 6895-6902	3.3	19
52	MOF-derived metal oxide composite Mn2Co1Ox/CN for efficient formaldehyde oxidation at low temperature. *Catalysis Science and Technology*, **2019**, 9, 5845-5854	5.5	18

51	NiCo2O4 / MnO2 heterostructured nanosheet: influence of preparation conditions on its electrochemical properties. *Electrochimica Acta*, **2015**, 176, 359-368	6.7	18
50	Facile deposition of high-quality Cs2AgBiBr6 films for efficient double perovskite solar cells. *Science China Materials*, **2020**, 63, 1518-1525	7.1	18
49	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr Nanoplatelets with Enhanced Stability and Charge Transport. *ACS Applied Materials & Interfaces*, **2020**, 12, 31863-31874	9.5	18
48	Rational design of MnO@MnO hierarchical nanomaterials and their catalytic activities. *Dalton Transactions*, **2016**, 45, 18851-18858	4.3	18
47	Influence of preparation temperature and acid treatment on the catalytic activity of MnO2. *Journal of Solid State Chemistry*, **2019**, 272, 173-181	3.3	15
46	Ultra-long -MnO2 nanowires: Control synthesis and its absorption activity. *Materials Letters*, **2014**, 121, 234-237	3.3	15
45	Suppressing Strong Exciton-Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. *Angewandte Chemie - International Edition*, **2020**, 59, 22156-22162	16.4	15
44	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	6.7	14
43	The Effects and Mechanism of YK-4-279 in Combination with Docetaxel on Prostate Cancer. *International Journal of Medical Sciences*, **2017**, 14, 356-366	3.7	14
42	Shape-Controlled Synthesis of NiCo2O4-rGO as Bifunctional Electrocatalyst for Zn-Air Battery. *ChemElectroChem*, **2019**, 6, 4429-4436	4.3	14
41	Interactions of ruthenium complexes containing indoloquinoline moiety with human telomeric G-quadruplex DNA. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 124, 187-93	4.4	14
40	Rapid synthesis of cryptomelane-type manganese oxide under ultrasonic process. *Materials Letters*, **2011**, 65, 3184-3186	3.3	14
39	Low-cost superior solid-state symmetric supercapacitors based on hematite nanocrystals. *Nanotechnology*, **2016**, 27, 505404	3.4	13
38	Real-Time Monitoring of Self-Aggregation of -Amyloid by a Fluorescent Probe Based on Ruthenium Complex. *Analytical Chemistry*, **2020**, 92, 2953-2960	7.8	12
37	Highly Polarizable Triiodide Anions (I3(-)) as Cross-Linkers for Coordination Polymers: Closing the Semiconductive Band Gap. *Inorganic Chemistry*, **2015**, 54, 6087-9	5.1	11
36	3D hierarchical structures MnO2/C: A highly efficient catalyst for purification of volatile organic compounds with visible light irradiation. *Applied Surface Science*, **2018**, 447, 191-199	6.7	11
35	In-situ green synthesis of CuO on 3D submicron-porous/solid copper current collectors as excellent supercapacitor electrode material. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 3545-3551	2.1	10
34	Hot electron-hole plasma dynamics and amplified spontaneous emission in ZnTe nanowires. *Nanoscale*, **2017**, 9, 15612-15621	7.7	9

33	A self-powered electrolytic process for glucose to hydrogen conversion. *Communications Chemistry*, **2019**, 2,	6.3	9
32	Oxygen Defect Engineering of MnO Catalysts via Phase Transformation for Selective Catalytic Reduction of NO. *Small*, **2021**, 17, e2102408	11	8
31	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	7.1	7
30	Salen-based bifunctional chemosensor for copper (II) ions: Inhibition of copper-induced amyloid- aggregation. *Analytica Chimica Acta*, **2020**, 1097, 144-152	6.6	7
29	Nitrogen-Doped Ketjenblack Carbon Supported CoO Nanoparticles as a Synergistic Electrocatalyst for Oxygen Reduction Reaction. *Frontiers in Chemistry*, **2019**, 7, 766	5	7
28	Synthesis and thermal stability properties of boron-doped silicone resin. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	6
27	Purification and characterization of a novel cell-penetrating carrier similar to cholera toxin chimeric protein. *Protein Expression and Purification*, **2017**, 129, 128-134	2	5
26	Adsorption and Oxidation of Arsenic by Ultra-long MnO2 Nanowires with the (1 1 0) Surface. *Inorganic and Nano-Metal Chemistry*, **2017**, 0-0	1.2	5
25	Hierarchical branched MnO2: one-step synthesis and catalytic activity. *RSC Advances*, **2017**, 7, 46529-46535	3.7	5
24	Ru-indoloquinoline complex as a selective and effective human telomeric G-quadruplex binder. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2014**, 132, 84-90	4.4	5
23	LixMn2O4 ultrathin nanosheets with faster Li+ diffusion for highly reversible Li-ions batteries. *Materials Letters*, **2019**, 236, 358-361	3.3	5
22	Controllable synthesis 3D hierarchical structured MnO2@NiCo2O4 and its morphology-dependent activity. *Inorganic Chemistry Frontiers*, **2018**, 5, 319-326	6.8	5
21	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	3.7	4
20	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	4.3	4
19	Surface phosphorization of Ni-Co-S as an efficient bifunctional electrocatalyst for full water splitting. *Dalton Transactions*, **2021**, 50, 16578-16586	4.3	4
18	Charge Carrier Dynamics and Broad Wavelength Tunable Amplified Spontaneous Emission in ZnCdSe Nanowires. *Journal of Physical Chemistry Letters*, **2019**, 10, 7516-7522	6.4	4
17	Interconnected NiCo2O4 nanosheet arrays grown on carbon cloth as a host, adsorber and catalyst for sulfur species enabling high-performance Li batteries. *Nanoscale Advances*, **2021**, 3, 1690-1698	5.1	4
16	Shape-controlled synthesis of nickel cobalt sulfide with enhanced electrochemical activity. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 2251-2258	2.1	3

15	Preparation of 3D micro/nanostructured CeO2: Influence of organic/inorganic acids. *Particuology*, **2018**, 37, 17-25	2.8	2
14	Polyol-mediated syntheses of crystalline nanosized manganese oxides. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	2
13	Self-templated formation of hierarchical hollow □MnO2 microspheres with enhanced oxygen reduction activities. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 637, 128228	5.1	2
12	Suppressing Strong Exciton□Phonon Coupling in Blue Perovskite Nanoplatelet Solids by Binary Systems. *Angewandte Chemie*, **2020**, 132, 22340-22346	3.6	2
11	A composite material with CeO2-ZrO2 nanocrystallines embedded in SiO2 matrices and its enhanced thermal stability and oxygen storage capacity. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	2
10	Nano Fe3-Cu O4 as the heterogeneous catalyst in an advanced oxidation process for excellent peroxymonosulfate activation toward climbazole degradation. *Chemical Engineering Journal*, **2022**, 439, 135553	14.7	2
9	Controllable synthesis of NixCo3□O4-rGO with enhanced oxygen reduction/evolution activity. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 18424-18431	2.1	1
8	Preparation and Characterization of Platinum Nanoparticles Supported by Non-woven Fabric for Formaldehyde Decomposition. *Fibers and Polymers*, **2019**, 20, 2099-2105	2	1
7	Orthorhombic CoSe2 nanoparticles anchored in Ketjenblack as a bifunctional electrocatalyst for Zn-air batteries. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 14385	2.1	1
6	Seed-Assisted Synthesis of Hierarchical □MnO2/Nitride TiO2 Taper Nanorod Arrays on Carbon Fiber Paper with Enhanced Supercapacitor Performance. *Energy Technology*, **2019**, 7, 1800933	3.5	1
5	3D hierarchical NiCo2S4/Ni□Co LDH architecture for high-performance supercapacitor. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 3843-3853	2.1	1
4	A dual-function luminescent probe for copper(II) ions and pH detection based on ruthenium(II) complex.. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 277, 121265	4.4	1
3	Recent Progress in Solar-Induced Direct Biomass-to-Electricity Hybrid Fuel Cell Using Microalgae as Feedstocks. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 638971	5.8	0
2	The synergistically enhanced activity and stability of layered manganese oxide via the engineering of defects and K+ ions for oxygen electrocatalysis. *CrystEngComm*, **2022**, 24, 2327-2335	3.3	0
1	Enhanced Catalytic Hydrogen Peroxide Production from Hydroxylamine Oxidation on Modified Activated Carbon Fibers: The Role of Surface Chemistry. *Catalysts*, **2021**, 11, 1515	4	0