

Yan-Mei Nie

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5342890/publications.pdf>

Version: 2024-02-01

81
papers

2,917
citations

185998

28
h-index

182168

51
g-index

90
all docs

90
docs citations

90
times ranked

3404
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and fabrication of memory devices based on nanoscale polyoxometalate clusters. <i>Nature</i> , 2014, 515, 545-549.	13.7	301
2	Mesoporous hollow carbon spheres boosted, integrated high performance aqueous Zn-Ion energy storage. <i>Energy Storage Materials</i> , 2020, 25, 858-865.	9.5	289
3	Rational design of nitrogen doped hierarchical porous carbon for optimized zinc-ion hybrid supercapacitors. <i>Nano Research</i> , 2019, 12, 2835-2841.	5.8	144
4	Tuning the Morphologies of MnO/C Hybrids by Space Constraint Assembly of Mn-MOFs for High Performance Li Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5254-5262.	4.0	129
5	Cu-MOF-Derived Cu ₂ O Nanoparticles and CuN _x C _y Species to Boost Oxygen Reduction Activity of Ketjenblack Carbon in Al-Air Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 413-421.	3.2	105
6	Development of a Building Block Strategy To Access Gigantic Nanoscale Heteropolyoxotungstates by Using SeO ₃ ²⁻ as a Template Linker. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4117-4120.	7.2	98
7	Discovery of Heteroatom-Embedded TeS ₂ {W ₁₈ O ₅₄ } Nanofunctional Polyoxometalates by Use of Cryospray Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4376-4380.	7.2	90
8	Functionalized Covalent Triazine Frameworks for Effective CO ₂ and SO ₂ Removal. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36002-36009.	4.0	75
9	Giant, Hollow 2D Metalloarchitecture: Stepwise Self-Assembly of a Hexagonal Supramolecular Nut. <i>Journal of the American Chemical Society</i> , 2016, 138, 10041-10046.	6.6	74
10	Sulfur-rich covalent triazine polymer nanospheres for environmental mercury removal and detection. <i>Polymer Chemistry</i> , 2018, 9, 4125-4131.	1.9	72
11	Micro- and mesoporous poly(Schiff-base)s constructed from different building blocks and their adsorption behaviors towards organic vapors and CO ₂ gas. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18881-18888.	5.2	66
12	TiO ₂ @C nanosheets with highly exposed (0 0 1) facets as a high-capacity anode for Na-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 332, 57-65.	6.6	66
13	The cost-effective synthesis of furan- and thienyl-based microporous polyaminals for adsorption of gases and organic vapors. <i>Chemical Communications</i> , 2016, 52, 1143-1146.	2.2	62
14	Highly Selective Separation of CO ₂ , CH ₄ , and C ₂ H ₂ in Ultramicroporous Semicycloaliphatic Polyimides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26618-26627.	4.0	62
15	Microporous polyimides with functional groups for the adsorption of carbon dioxide and organic vapors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11453-11461.	5.2	61
16	Synthesis of Fluorescent Micro- and Mesoporous Polyaminals for Detection of Toxic Pesticides. <i>Macromolecules</i> , 2018, 51, 1769-1776.	2.2	57
17	A P2-type Na _{0.44} Mn _{0.6} Ni _{0.3} Cu _{0.1} O ₂ cathode material with high energy density for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12582-12588.	5.2	52
18	Single-phase P2-type layered oxide with Cu-substitution for sodium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 43, 148-154.	7.1	45

#	ARTICLE	IF	CITATIONS
19	Highly Stable Spherical Metallo-Capsule from a Branched Hexapodal Terpyridine and Its Self-Assembled Berry-type Nanostructure. <i>Journal of the American Chemical Society</i> , 2018, 140, 2555-2561.	6.6	44
20	Informative metabolites identification by variable importance analysis based on random variable combination. <i>Metabolomics</i> , 2015, 11, 1539-1551.	1.4	41
21	Assembly of Tungstenâ€Oxideâ€Based Pentagonal Motifs in Solution Leads to Nanoscale {W₄₈}, {W₅₆}, and {W₉₂} Polyoxometalate Clusters. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14308-14312.	7.2	40
22	Acid/hydrazide-appended covalent triazine frameworks for low-pressure CO₂ capture: pre-designable or post-synthesis modification. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21266-21274.	5.2	40
23	Carboxyl-, Hydroxyl-, and Nitro-Functionalized Porous Polyaminals for Highly Selective CO₂ Capture. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1524-1531.	2.0	37
24	Monodispersed ultramicroporous semi-cycloaliphatic polyimides for the highly efficient adsorption of CO₂, H₂ and organic vapors. <i>Polymer Chemistry</i> , 2016, 7, 7295-7303.	1.9	36
25	Synthetic modulation of micro- and mesopores in polycyanurate networks for adsorptions of gases and organic hydrocarbons. <i>Polymer Chemistry</i> , 2017, 8, 1074-1083.	1.9	35
26	Cost-effective preparation of microporous polymers from formamide derivatives and adsorption of CO₂ under dry and humid conditions. <i>Polymer Chemistry</i> , 2019, 10, 3371-3379.	1.9	35
27	An inactive metal supported oxide cathode material with high rate capability for sodium ion batteries. <i>Energy Storage Materials</i> , 2019, 20, 263-268.	9.5	32
28	Porous Fe₂O₃ Nanoparticles as Lithium-Ion Battery Anode Materials. <i>ACS Applied Nano Materials</i> , 2021, 4, 8744-8752.	2.4	31
29	Highly Selective Adsorption for Ethylene, Propylene, and Carbon Dioxide in Silver-Ionized Microporous Polyimide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 575-583.	1.5	29
30	Trimetallic Zeolitic imidazolate framework-derived Co nanoparticles@CoFe-nitrogen-doped porous carbon as bifunctional electrocatalysts for Zn-air battery. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 621-629.	5.0	29
31	Truncated SierpiÅ„ski Triangular Assembly from a Molecular Mortiseâ€Tenon Joint. <i>Journal of the American Chemical Society</i> , 2018, 140, 12168-12174.	6.6	26
32	Microporous Polybenzoxazoles with Tunable Porosity and Heteroatom Concentration for Dynamic Adsorption/Separation of CO₂ Mixed Gases. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12831-12838.	1.5	21
33	Na⁺/vacancies promise excellent electrochemical properties for sodium ion batteries. <i>Chemical Engineering Journal</i> , 2020, 383, 123087.	6.6	21
34	Benefits of Copper and Magnesium Cosubstitution in Na_{0.5}Mn_{0.6}Ni_{0.4}O₂ as a Superior Cathode for Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 844-851.	2.5	20
35	Accurate assembly of ferrocene-functionalized {Ti₂Fc₄} clusters with photocatalytic amine oxidation activity. <i>Chemical Communications</i> , 2021, 57, 2792-2795.	2.2	19
36	Metallosupramolecular 3D assembly of dimetallic Zn₄ [RuL₂]₂ and trimetallic Fe₂Zn₂ [RuL₂]₂. <i>Chemical Communications</i> , 2017, 53, 11087-11090.	2.2	18

#	ARTICLE	IF	CITATIONS
37	Discovery of a New Family of Polyoxometalate-Based Hybrids with Improved Catalytic Performances for Selective Sulfoxidation: The Synergy between Classic Heptamolybdate Anions and Complex Cations. <i>Inorganic Chemistry</i> , 2019, 58, 14876-14884.	1.9	17
38	Iron polyphthalocyanine-derived ternary-balanced Fe ₃ O ₄ /Fe ₃ N/Fe-N-C@PC as a high-performance electrocatalyst for the oxygen reduction reaction. <i>Science China Materials</i> , 2021, 64, 2987-2996.	3.5	16
39	Porphyrin-Based Nanoporous Organic Polymers for Adsorption of Carbon Dioxide, Ethane, and Methane. <i>ACS Applied Nano Materials</i> , 2021, 4, 10565-10574.	2.4	16
40	Microwave-Assisted Synthesis of Tris-Anderson Polyoxometalates for Facile CO ₂ Cycloaddition. <i>Inorganic Chemistry</i> , 2021, 60, 3980-3987.	1.9	15
41	One-Dimensional MnO ₂ Nanowires Space-Confined in Hollow Mesoporous Carbon Nanotubes for Enhanced Zn ²⁺ Storage Performance. <i>ChemElectroChem</i> , 2020, 7, 1166-1171.	1.7	14
42	Interpretation of type 2 diabetes mellitus relevant GC-MS metabolomics fingerprints by using random forests. <i>Analytical Methods</i> , 2013, 5, 4883-4889.	1.3	13
43	Injectable hydrogel platform with biodegradable Dawson-type polyoxometalate and R848 for combinational photothermal-immunotherapy of cancer. <i>Biomaterials Science</i> , 2022, 10, 1257-1266.	2.6	13
44	Preparation and characterization of highly photocatalytic active hierarchical BiOX (X=Cl, Br, I) microflowers for rhodamine B degradation with kinetic modelling studies. <i>Journal of Central South University</i> , 2017, 24, 754-765.	1.2	12
45	Microwave-Assisted Preparation and Characterization of a Polyoxometalate-Based Inorganic 2D Framework Anode for Enhancing Lithium-Ion Battery Performance. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1199-1205.	1.7	12
46	An ultrastable Ti-based metallocalixarene nanocage cluster with photocatalytic amine oxidation activity. <i>Chemical Communications</i> , 2022, 58, 6028-6031.	2.2	12
47	Synthesis of aziridines with multiple chiral substitutions by copper-catalyzed diastereoselective radical aminotrifluoromethylation of alkenes. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3132-3136.	2.3	11
48	A micro-environment tuning approach for enhancing the catalytic capabilities of lanthanide containing polyoxometalate in the cyanosilylation of ketones. <i>Chemical Communications</i> , 2020, 56, 3809-3812.	2.2	11
49	A Comprehensive Study on the Dye Adsorption Behavior of Polyoxometalate-Complex Nano-Hybrids Containing Classic Γ^2 -Octamolybdate and Biimidazole Units. <i>Molecules</i> , 2019, 24, 806.	1.7	10
50	MOF-derived Co ₃ O ₄ microspheres with pagoda cauliflower shape as anode materials for stable life Li-ion battery. <i>Functional Materials Letters</i> , 2020, 13, 2050029.	0.7	10
51	Covalent triazine frameworks for the dynamic adsorption/separation of benzene/cyclohexane mixtures. <i>New Journal of Chemistry</i> , 2022, 46, 7580-7587.	1.4	10
52	A bi-component polyoxometalate-derivative cathode material showed impressive electrochemical performance for the aqueous zinc-ion batteries. <i>Chinese Chemical Letters</i> , 2022, 33, 3955-3960.	4.8	10
53	0D to 1D Switching of Hybrid Polyoxometalate Assemblies at the Nanoscale by Using Molecular Control. <i>ChemPlusChem</i> , 2013, 78, 1226-1229.	1.3	9
54	A novel strategy for quantitative analysis of the formulated complex system using chromatographic fingerprints combined with some chemometric techniques. <i>Journal of Chromatography A</i> , 2014, 1370, 179-186.	1.8	9

#	ARTICLE	IF	CITATIONS
55	A novel separator modified by titanium dioxide nanotubes/carbon nanotubes composite for high performance lithium-sulfur batteries. <i>Functional Materials Letters</i> , 2019, 12, 1950016.	0.7	9
56	Molybdenum blue preassembly strategy to design bimetallic Fe _{0.54} Mo _{0.73} /Mo ₂ C@C for tuneable and low-frequency electromagnetic wave absorption. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1931-1942.	3.0	9
57	An Efficient Method for Constructing Cyclic β -Amino Acids Bearing Quaternary Stereocenters. <i>Synlett</i> , 2019, 30, 593-599.	1.0	8
58	Copper surface doping to improve the structure and surface properties of manganese-rich cathode materials for sodium ion batteries. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2374-2379.	3.2	8
59	Discovery of a Fullerene-Polyoxometalate Hybrid Exhibiting Enhanced Photocurrent Response. <i>Inorganic Chemistry</i> , 2020, 59, 5266-5270.	1.9	8
60	A comparative study of the structural, electrochemical and magnetic properties of Copper(II)-sulfate coordination frameworks. <i>Journal of Coordination Chemistry</i> , 2015, 68, 1644-1654.	0.8	7
61	Synthesis and characterization of [(HPO ₃) ₆ Mo ₂₁ O ₆₀ (H ₂ O) ₄] ₈ ⁴⁻ : a new redox active heteropoly blue cluster with layered shape containing a phosphite template that self-assembles under controlled microwave irradiation. <i>Dalton Transactions</i> , 2016, 45, 3268-3271.	1.6	7
62	Synthesis and characterization of a highly stable zinc phenylporphyrin Isoxazoline-[60] fullerene dyad: Impact of coordination on the redox and fluorescence properties. <i>Inorganic Chemistry Communication</i> , 2017, 84, 134-137.	1.8	7
63	Cd-Doped Polyoxotitanium Nanoclusters with a Modifiable Organic Shell for Photoelectrochemical Water Splitting. <i>Inorganic Chemistry</i> , 2021, 60, 19263-19269.	1.9	7
64	Calcium-intercalated birnessite MnO ₂ anchored on carbon nanotubes as high-performance cathodes for aqueous zinc-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 9477-9485.	1.6	7
65	Spectroscopic Study of the Behavior of Mo(VI) and W(VI) Polyanions in Sulfuric-Phosphoric Acid Mixtures. <i>Inorganic Chemistry</i> , 2021, 60, 17565-17578.	1.9	6
66	Metal-Directed Self-Assembly of {Ti ₈ L ₂ } Cluster-Based Coordination Polymers with Enhanced Photocatalytic Alcohol Oxidation Activity. <i>Inorganic Chemistry</i> , 2022, 61, 923-930.	1.9	6
67	Introducing Chirality into Hybrid Clusters from an Achiral Ligand: Synthesis and Characterization of Polyoxomolybdates Containing a Benzylarsonate Group. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1947-1950.	1.0	5
68	Facile synthesis of hierarchical BiOCl _x Br _{1-x} solid solution with enhanced photocatalytic activity. <i>Journal of Central South University</i> , 2018, 25, 1619-1627.	1.2	5
69	Three Schiff base complexes based on diethylenetriamine: synthesis, structure, DNA binding and cleavage, and in vitro cytotoxicity. <i>Transition Metal Chemistry</i> , 2019, 44, 463-474.	0.7	5
70	Novel Energy Storage Center for High-Performance Rechargeable Aqueous Hybrid Zinc Energy Storage. <i>Energy & Fuels</i> , 2021, 35, 5352-5359.	2.5	5
71	Facile Preparation of Cost-Effective Triphenylamine-Based Nanoporous Organic Polymers for CO ₂ , I ₂ , and Organic Solvents Capture. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, .	1.1	5
72	Heterometallic Polyoxotitanium Clusters as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Inorganic Chemistry</i> , 2022, 61, 10151-10158.	1.9	5

#	ARTICLE	IF	CITATIONS
73	Geometrically Complementary Self-Assembly of a Hexarhomboid Architecture from Two Ruthenium(II) Organic Building Blocks. <i>Inorganic Chemistry</i> , 2019, 58, 7662-7666.	1.9	4
74	Dimensional Reduction of Eu-Based Metal-Organic Framework as Catalysts for Oxidation Catalysis of C(sp ³)-H Bond. <i>Chinese Journal of Chemistry</i> , 2022, 40, 480-486.	2.6	4
75	Self-Assembly of Chiral Ferrocene-Functionalized Polyoxotitanium Clusters for Photocatalytic Selective Sulfide Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 2903-2910.	1.9	3
76	A Reversibly pH-Switchable Open/Closed Cage Constructed from Triangular Polyoxometalate Hybrid [(C ₇ H ₇ AsO ₃) ₆ W ₁₂ O ₃₆] ¹²⁻ Cluster Anions Exhibiting Supramolecular Chirality. <i>Inorganic Chemistry</i> , 2018, 57, 4234-4238.	1.9	2
77	Precise Self-Assembly of Molecular Four- and Six-Pointed Stars. <i>Inorganic Chemistry</i> , 2020, 59, 875-879.	1.9	2
78	Pyrazole-based trinuclear and mononuclear complexes: synthesis, characterization, DNA interactions and cytotoxicity studies. <i>Transition Metal Chemistry</i> , 2021, 46, 481-494.	0.7	2
79	Discovery of two types of new porphyrin-C70 co-crystals: influence of intermolecular contact on the inherent resistance. <i>CrystEngComm</i> , 2019, 21, 7182-7187.	1.3	1
80	Synthesis, structural characterization and fluorescence enhancement of chromophore-modified polyoxometalates. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 1260-1266.	0.2	0
81	Rh-Catalyzed diastereo- and linear-selective $\hat{\pm}$ -allylation of chiral cycloenamines. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3715-3719.	2.3	0