

Pengbo Lyu

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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.

31
papers

1,021
citations

15
h-index

31
g-index

34
ext. papers

1,311
ext. citations

9.4
avg, IF

4.92
L-index

#	Paper	IF	Citations
31	Unusual Dirac half-metallicity with intrinsic ferromagnetism in vanadium trihalide monolayers. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2518-2526	7.1	151
30	New Layered Triazine Framework/Exfoliated 2D Polymer with Superior Sodium-Storage Properties. <i>Advanced Materials</i> , 2018 , 30, 1705401	24	126
29	New two-dimensional Mn-based MXenes with room-temperature ferromagnetism and half-metallicity. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11143-11149	7.1	105
28	Near-room-temperature Chern insulator and Dirac spin-gapless semiconductor: nickel chloride monolayer. <i>Nanoscale</i> , 2017 , 9, 2246-2252	7.7	88
27	High temperature spin-polarized semiconductivity with zero magnetization in two-dimensional Janus MXenes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6500-6509	7.1	88
26	Few-Layer Silicene Nanosheets with Superior Lithium-Storage Properties. <i>Advanced Materials</i> , 2018 , 30, e1800838	24	80
25	Real-time optical and electronic sensing with a β -amino enone linked, triazine-containing 2D covalent organic framework. <i>Nature Communications</i> , 2019 , 10, 3228	17.4	63
24	Unexpected intercalation-dominated potassium storage in WS ₂ as a potassium-ion battery anode. <i>Nano Research</i> , 2019 , 12, 2997-3002	10	44
23	Semiconducting Crystalline Two-Dimensional Polyimide Nanosheets with Superior Sodium Storage Properties. <i>ACS Nano</i> , 2019 , 13, 2473-2480	16.7	35
22	Fluorescent Sulphur- and Nitrogen-Containing Porous Polymers with Tuneable Donor-Acceptor Domains for Light-Driven Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2018 , 24, 11916-11921	4.8	31
21	Design of MoS/Graphene van der Waals Heterostructure as Highly Efficient and Stable Electrocatalyst for Hydrogen Evolution in Acidic and Alkaline Media. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24777-24785	9.5	29
20	Tuning the Porosity and Photocatalytic Performance of Triazine-Based Graphdiyne Polymers through Polymorphism. <i>ChemSusChem</i> , 2019 , 12, 194-199	8.3	25
19	The Influence of Water on the Performance of Molybdenum Carbide Catalysts in Hydrodeoxygenation Reactions: A Combined Theoretical and Experimental Study. <i>ChemCatChem</i> , 2017 , 9, 1985-1991	5.2	24
18	A Pseudolayered MoS as Li-Ion Intercalation Host with Enhanced Rate Capability and Durability. <i>Small</i> , 2018 , 14, e1803344	11	20
17	Insights into the intrinsic capacity of interlayer-expanded MoS ₂ as a Li-ion intercalation host. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1187-1195	13	19
16	Self-supported PPy-encapsulated CoS ₂ nanosheets anchored on the TiO ₂ nanorod array support by TiS bonds for ultra-long life hybrid Mg ²⁺ /Li ⁺ batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22712-22719	13	12
15	Bifunctional oxygen evolution and supercapacitor electrode with integrated architecture of NiFe-layered double hydroxides and hierarchical carbon framework. <i>Nanotechnology</i> , 2019 , 30, 325402	3.4	10

14	Ammonia Capture via an Unconventional Reversible Guest-Induced Metal-Linker Bond Dynamics in a Highly Stable Metal-Organic Framework. <i>Chemistry of Materials</i> , 2021 , 33, 6186-6192	9.6	10
13	Mechanistic Insight into the Catalytic NO Oxidation by the MIL-100 MOF Platform: Toward the Prediction of More Efficient Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 9445-9450	13.1	8
12	Two-dimensional tetragonal GaOI and InOI sheets: In-plane anisotropic optical properties and application to photocatalytic water splitting. <i>Catalysis Today</i> , 2020 , 340, 178-182	5.3	8
11	Organic photoelectrode engineering: accelerating photocurrent generation via donor-acceptor interactions and surface-assisted synthetic approach. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7162-7174	13	8
10	Mössbauerite as Iron-Only Layered Oxyhydroxide Catalyst for WO Photoanodes. <i>Inorganic Chemistry</i> , 2019 , 58, 9655-9662	5.1	7
9	Structure Determination of the Oxygen Evolution Catalyst Mössbauerite. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25157-25165	3.8	6
8	Flexibilization of Biorefineries: Tuning Lignin Hydrogenation by Hydrogen Partial Pressure. <i>ChemSusChem</i> , 2021 , 14, 373-378	8.3	6
7	Theoretical investigation of CO catalytic oxidation by a FePtSe ₂ monolayer. <i>RSC Advances</i> , 2017 , 7, 19630-19638	9.7	19638
6	Exploring the stability and reactivity of Ni ₂ P and Mo ₂ C catalysts using ab initio atomistic thermodynamics and conceptual DFT approaches. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 377-383	2.3	3
5	Systematic computational investigation of an Ni ₃ Fe catalyst for the OER. <i>Catalysis Today</i> , 2020 , 345, 220-226	5.3	3
4	HS Stability of Metal-Organic Frameworks: A Computational Assessment. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4813-4822	9.5	3
3	Interlayer-expanded MoS ₂ nanoflowers anchored on the graphene: A high-performance Li ⁺ /Mg ²⁺ co-intercalation cathode material. <i>Chemical Engineering Journal</i> , 2022 , 428, 131214	14.7	2
2	Identification of the most active sites for tetrahydropyranlation in zeolites: MFI as a test case. <i>Catalysis Today</i> , 2020 , 345, 165-174	5.3	1
1	Highly efficient CO ₂ reduction under visible-light on non-covalent Ru/Re assembled photocatalyst: Evidence on the electron transfer mechanism. <i>Journal of Catalysis</i> , 2021 , 404, 46-55	7.3	0