Xianfei Chen

List of Publications by Year
in descending order

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28 papers	953 citations	516710 16 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	954 citing authors

#	Article	IF	Citations
1	Passivated 2D Janus borophene as unique Dirac anodes for Na- and K-ion batteries: A first-principle investigation. Applied Surface Science, 2022, 578, 151994.	6.1	12
2	Understanding the dual function of oxygen-containing groups in fabricating PANi electrodes and Zn-PANi battery. Electrochimica Acta, 2022, 427, 140836.	5.2	6
3	Adjusting the Covalency of Metalâ€“Oxygen Bonds in LaCoO₃ by Sr and Fe Cation Codoping to Achieve Highly Efficient Electrocatalysts for Aprotic Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2021, 13, 33133-33146.	8.0	25
4	Modulating the Open-Circuit Voltage of Two-Dimensional MoB MBene Electrode via Specific Surface Chemistry for Na/K Ion Batteries: A First-Principles Study. Journal of Physical Chemistry C, 2021, 125, 18098-18107.	3.1	15
5	Designing highly incompressible transition metal nitrides: A new class of W0.5Al0.5N phases. Journal of Applied Physics, 2021, 130, 065105.	2.5	1
6	Two-Dimensional Boron-Rich Monolayer B_xN as High Capacity for Lithium-Ion Batteries: A First-Principles Study. ACS Applied Materials & Interfaces, 2021, 13, 41169-41181.	8.0	20
7	Role of nonspherical DLVO and capillary forces in the transport of 2D delaminated Ti3C2Tx MXene in saturated and unsaturated porous media. Environmental Research, 2021, 200, 111451.	7.5	4
8	Preparation of MgAl-CO₃-LDHs for VO₃⁻ Adsorption. Integrated Ferroelectrics, 2021, 219, 307-316.	0.7	0
9	Ca-decorated MoBOH as a promising adsorbent for CH2O, C6H6, C3H6O, and C2HCl3 removal at room temperature: A first-principle study. Applied Surface Science, 2021, 563, 150233.	6.1	3
10	Efficient removal of fluoride from neutral wastewater by green synthesized Zr/calcium sulfate whiskers: An experimental and theoretical study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127587.	4.7	8
11	Chalcogenated-Ti3C2X2 MXene (Xâ€¯=â€¯O, S, Se and Te) as a high-performance anode material for Li-ion batteries. Applied Surface Science, 2020, 501, 144221.	6.1	77
12	Cu-supported nitrogen-doped carbon nanofibers with hierarchical three-dimensional net structure as binder-free anodes for enhanced lithium-ion batteries. Nanotechnology, 2020, 31, 055705.	2.6	3
13	Breakdown of the electron delocalization in hexagonal borophene toward tunable energy gap. Applied Surface Science, 2020, 507, 144940.	6.1	1
14	Rationalizing the Effect of Oxygen Vacancy on Oxygen Electrocatalysis in Liâ€“O₂ Battery. Small, 2020, 16, e2001812.	10.0	81
15	Excellent Electrolyte Wettability and High Energy Density of B₂S as a Two-Dimensional Dirac Anode for Non-Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 28830-28840.	8.0	58
16	Highly Flexible Hydrogen Boride Monolayers as Potassium-Ion Battery Anodes for Wearable Electronics. ACS Applied Materials & Interfaces, 2019, 11, 8115-8125.	8.0	62
17	Two-Dimensional GeP₃ as a High Capacity Anode Material for Non-Lithium-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 4721-4728.	3.1	71
18	Borophene as Conductive Additive to Boost the Performance of MoS₂-Based Anode Materials. Journal of Physical Chemistry C, 2018, 122, 9302-9311.	3.1	50

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19	How to boost the sluggish lithium-ion hopping dynamic in borophene?. Applied Surface Science, 2018, 441, 356-363.	6.1	8
20	3D Array of Bi₂S₃ Nanorods Supported on Ni Foam as a Highly Efficient Integrated Oxygen Electrode for the Lithiumâ€Oxygen Battery. Particle and Particle Systems Characterization, 2018, 35, 1700433.	2.3	30
21	First-principles investigation on hydrogen storage performance of Li, Na and K decorated borophene. Applied Surface Science, 2018, 427, 1030-1037.	6.1	134
22	Reversible hydrogen storage in pristine and Li decorated 2D boron hydride. Physical Chemistry Chemical Physics, 2018, 20, 30304-30311.	2.8	54
23	Enhancement of lithium-ion hopping on halogen-doped Ï‡₃ borophene. Physical Chemistry Chemical Physics, 2018, 20, 24427-24433.	2.8	17
24	Li decorated Be3C2 as light-weight host material for reversible hydrogen storage. Applied Surface Science, 2018, 459, 217-223.	6.1	32
25	Solâ€“gel synthesis and luminescence property of Sr₄Al₂O₇:Re3⁺,R⁺ (ReÂ=ÂEu and Dy; RÂ=ÂLi, Na) Ty ETQq1 1 0.784	2.5	
26	Metallic borophene polytypes as lightweight anode materials for non-lithium-ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 24945-24954.	2.8	78
27	First-Principles Study on the Mechanism of Hydrogen Decomposition and Spillover on Borophene. Journal of Physical Chemistry C, 2017, 121, 17314-17320.	3.1	19
28	Ca-decorated borophene as potential candidates for hydrogen storage: A first-principle study. International Journal of Hydrogen Energy, 2017, 42, 20036-20045.	7.1	83