

# Xianfei Chen

## List of Publications by Year in descending order

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28  
papers

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citations

516710

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526287

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles investigation on hydrogen storage performance of Li, Na and K decorated borophene. <i>Applied Surface Science</i> , 2018, 427, 1030-1037.	6.1	134
2	Ca-decorated borophene as potential candidates for hydrogen storage: A first-principle study. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20036-20045.	7.1	83
3	Rationalizing the Effect of Oxygen Vacancy on Oxygen Electrocatalysis in $\text{O}_2$ Battery. <i>Small</i> , 2020, 16, e2001812.	10.0	81
4	Metallic borophene polytypes as lightweight anode materials for non-lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24945-24954.	2.8	78
5	Chalcogenated-Ti <sub>3</sub> C <sub>2</sub> X <sub>2</sub> MXene (X = O, S, Se and Te) as a high-performance anode material for Li-ion batteries. <i>Applied Surface Science</i> , 2020, 501, 144221.	6.1	77
6	Two-Dimensional GeP <sub>3</sub> as a High Capacity Anode Material for Non-Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4721-4728.	3.1	71
7	Highly Flexible Hydrogen Boride Monolayers as Potassium-Ion Battery Anodes for Wearable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8115-8125.	8.0	62
8	Excellent Electrolyte Wettability and High Energy Density of B <sub>2</sub> S as a Two-Dimensional Dirac Anode for Non-Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28830-28840.	8.0	58
9	Reversible hydrogen storage in pristine and Li decorated 2D boron hydride. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30304-30311.	2.8	54
10	Borophene as Conductive Additive to Boost the Performance of MoS <sub>2</sub> -Based Anode Materials. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9302-9311.	3.1	50
11	Li decorated Be <sub>3</sub> C <sub>2</sub> as light-weight host material for reversible hydrogen storage. <i>Applied Surface Science</i> , 2018, 459, 217-223.	6.1	32
12	3D Array of Bi <sub>2</sub> S <sub>3</sub> Nanorods Supported on Ni Foam as a Highly Efficient Integrated Oxygen Electrode for the Lithium-Oxygen Battery. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700433.	2.3	30
13	Adjusting the Covalency of Metal-Oxygen Bonds in LaCoO <sub>3</sub> by Sr and Fe Cation Codoping to Achieve Highly Efficient Electrocatalysts for Aprotic Lithium-Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33133-33146.	8.0	25
14	Two-Dimensional Boron-Rich Monolayer B <sub>x</sub> N as High Capacity for Lithium-Ion Batteries: A First-Principles Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 41169-41181.	8.0	20
15	First-Principles Study on the Mechanism of Hydrogen Decomposition and Spillover on Borophene. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17314-17320.	3.1	19
16	Enhancement of lithium-ion hopping on halogen-doped $\text{I}_3$ borophene. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24427-24433.	2.8	17
17	Modulating the Open-Circuit Voltage of Two-Dimensional MoB MBene Electrode via Specific Surface Chemistry for Na/K Ion Batteries: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18098-18107.	3.1	15
18	Passivated 2D Janus borophene as unique Dirac anodes for Na- and K-ion batteries: A first-principle investigation. <i>Applied Surface Science</i> , 2022, 578, 151994.	6.1	12

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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	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
21	Understanding the dual function of oxygen-containing groups in fabricating PANi electrodes and Zn-PANi battery. Electrochimica Acta, 2022, 427, 140836.	5.2	6
22	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
23	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
24	Ca-decorated MoBOH as a promising adsorbent for CH <sub>2</sub> O, C <sub>6</sub> H <sub>6</sub> , C <sub>3</sub> H <sub>6</sub> O, and C <sub>2</sub> HCl <sub>3</sub> removal at room temperature: A first-principle study. Applied Surface Science, 2021, 563, 150233.	6.1	3
25	Sol-gel synthesis and luminescence property of Sr <sub>4</sub> Al <sub>2</sub> O <sub>7</sub> :Re <sup>3+</sup> , R <sup>3+</sup> (R=Eu and Dy; R=Li, Na) ETQq111 0.784		
26	Breakdown of the electron delocalization in hexagonal borophene toward tunable energy gap. Applied Surface Science, 2020, 507, 144940.	6.1	1
27	Designing highly incompressible transition metal nitrides: A new class of W <sub>0.5</sub> Al <sub>0.5</sub> N phases. Journal of Applied Physics, 2021, 130, 065105.	2.5	1
28	Preparation of MgAl-CO <sub>3</sub> -LDHs for VO <sub>3</sub> <sup>+</sup> Adsorption. Integrated Ferroelectrics, 2021, 219, 307-316.	0.7	0