

# Jing Xu

## List of Publications by Year in descending order

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29  
papers

1,370  
citations

394421

19  
h-index

477307

29  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1450  
citing authors

#	ARTICLE	IF	CITATIONS
1	A one-step, cost-effective green method to in situ fabricate Ni(OH) <sub>2</sub> hexagonal platelets on Ni foam as binder-free supercapacitor electrode materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1953-1960.	10.3	179
2	Diatomite-templated Synthesis of Freestanding 3D Graphdiyne for Energy Storage and Catalysis Application. <i>Advanced Materials</i> , 2018, 30, e1800548.	21.0	134
3	Construction of an Integrated Device of a Self-Powered Biosensor and Matching Capacitor Based on Graphdiyne and Multiple Signal Amplification: Ultrasensitive Method for MicroRNA Detection. <i>Analytical Chemistry</i> , 2021, 93, 15225-15230.	6.5	96
4	Progress in retrospect of electrolytes for secondary magnesium batteries. <i>Coordination Chemistry Reviews</i> , 2020, 422, 213478.	18.8	80
5	Orientated VSe <sub>2</sub> nanoparticles anchored on N-doped hollow carbon sphere for high-stable aqueous energy application. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 12-19.	9.4	74
6	Interconnected MoS <sub>2</sub> on 2D Graphdiyne for Reversible Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54974-54980.	8.0	71
7	Hierarchical WSe <sub>2</sub> nanoflower as a cathode material for rechargeable Mg-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 378-383.	9.4	69
8	1T-Phase MoS <sub>2</sub> with large layer spacing supported on carbon cloth for high-performance Na <sup>+</sup> storage. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 579-585.	9.4	65
9	In-situ Synthesis of MnO <sub>2</sub> @Graphdiyne Oxides Nanocomposite with Enhanced Performance of Supercapacitors. <i>Electrochimica Acta</i> , 2017, 251, 672-680.	5.2	64
10	O-Vacancy-enriched NiO hexagonal platelets fabricated on Ni foam as a self-supported electrode for extraordinary pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7099-7106.	10.3	61
11	Synthesis and modification of carbon dots for advanced biosensing application. <i>Analyst</i> , 2021, 146, 4418-4435.	3.5	60
12	Interlayer-expanded VS <sub>2</sub> nanosheet: Fast ion transport, dynamic mechanism and application in Zn <sup>2+</sup> and Mg <sup>2+</sup> /Li <sup>+</sup> hybrid batteries systems. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 119-126.	9.4	55
13	Matching Capacitors to Self-Powered Biosensors for Signal Amplification: Toward Ultrasensitive Electrochemical Detection for MicroRNA-21-Triggered Catalytic Hairpin Assembly. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 2673-2680.	6.7	44
14	Tellurium-impregnated P-doped porous carbon nanosheets as both cathode and anode for an ultrastable hybrid aqueous energy storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17185-17192.	10.3	40
15	Photoredox-Catalyzed Remote Difunctionalizations of Alkenes To Synthesize Fluoroalkyl Ketones with Dimethyl Sulfoxide as the Oxidant. <i>Organic Letters</i> , 2019, 21, 9228-9231.	4.6	35
16	A high-energy sandwich-type self-powered biosensor based on DNA bioconjugates and a nitrogen doped ultra-thin carbon shell. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1389-1395.	5.8	35
17	The effects of NaF concentration on electrochemical and corrosion behavior of AZ31B magnesium alloy in a composite electrolyte. <i>RSC Advances</i> , 2017, 7, 5880-5887.	3.6	33
18	FeCo-N <sub>x</sub> encapsulated in 3D interconnected N-doped carbon nanotubes for ultra-high performance lithium-ion batteries and flexible solid-state symmetric supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 855, 113615.	3.8	33

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19	High-performance asymmetric supercapacitor based on 1T-MoS <sub>2</sub> and MgAl-Layered double hydroxides. <i>Electrochimica Acta</i> , 2020, 330, 135195.	5.2	27
20	Paper-based upconversion fluorescence aptasensor for the quantitative detection of immunoglobulin E in human serum. <i>Analytica Chimica Acta</i> , 2021, 1143, 93-100.	5.4	19
21	Recent advances in biological detection with rolling circle amplification: design strategy, biosensing mechanism, and practical applications. <i>Analyst</i> , The, 2022, 147, 3396-3414.	3.5	19
22	Influence of additives fluoride and phosphate on the electrochemical performance of Mg-MnO <sub>2</sub> battery. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 767-775.	2.9	15
23	Investigation of the influence of voltage pulse on the initial delayed action of Mg batteries. <i>Journal of Power Sources</i> , 2021, 481, 228777.	7.8	15
24	An overview of the current status and prospects of cathode materials based on transition metal sulfides for magnesium-ion batteries. <i>CrystEngComm</i> , 2021, 23, 7546-7564.	2.6	15
25	Effects of short pulse current on the voltage delay behavior of magnesium battery. <i>Journal of Power Sources</i> , 2020, 454, 227869.	7.8	14
26	Metal powder-free pure water system for rational synthesis of metal oxide functional nanomaterials: a general, facile and green synthetic approach. <i>RSC Advances</i> , 2016, 6, 34507-34513.	3.6	6
27	Electrochemical and structural characterization of AZ63 alloy surface film in MgSO <sub>4</sub> solution. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 773-779.	2.9	5
28	Enhanced Corrosion Resistance and Discharge Performance of Mg-MnO <sub>2</sub> Battery by Na <sub>2</sub> SiO <sub>3</sub> Additive. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 641-646.	2.6	5
29	Enhancing the electrochemical behavior of Mg battery by using graphene conductive coating. <i>Materials Letters</i> , 2021, 287, 129253.	2.6	2