Chen Yang

List of Publications by Year
in descending order

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38 papers	1,215 citations	430442 18 h-index	377514 34 g-index
38 all docs	38 docs citations	38 times ranked	862 citing authors

#	Article	IF	Citations
1	An air-stable iron/manganese-based phosphate cathode for high performance sodium-ion batteries. Chemical Engineering Journal, 2022, 433, 133798.	6.6	13
2	Device performance and strain effect of sub-5 nm monolayer InP transistors. Journal of Materials Chemistry C, 2022, 10, 2223-2235.	2.7	10
3	Scaling Behavior of Magnetoresistance with the Layer Number in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Cr</mml:mi><mml:mi mathvariant="normal">I</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Magnetic Tunnel Junctions. Physical Review Applied, 2022, 17, .	1.5	10
4	Developing Atomically Thin Li_{1.81}H_{0.19}Ti₂O₅Â·2H₂O Nanosheets for Selective Photocatalytic CO₂ Reduction to CO. Langmuir, 2022, 38, 523-530.	1.6	4
5	Performance Limit of Ultrathin GaAs Transistors. ACS Applied Materials & Interfaces, 2022, 14, 23597-23609.	4.0	22
6	3D Hierarchical Grapheneâ€CNT Anode for Sodiumâ€Ion Batteries: a Firstâ€Principles Assessment. Advanced Theory and Simulations, 2022, 5, .	1.3	1
7	Correlating the electronic structures of metallic/semiconducting MoTe2 interface to its atomic structures. National Science Review, 2021, 8, nwaa087.	4.6	5
8	Reaction Mechanism and Structural Evolution of Fluorographite Cathodes in Solidâ€State K/Na/Li Batteries. Advanced Materials, 2021, 33, e2006118.	11.1	44
9	In situ TEM revealing the effects of dislocations on lithium-ion migration in transition metal dichalcogenides. Journal of Energy Chemistry, 2021, 58, 280-284.	7.1	5
10	Improvement of alkali metal ion batteries via interlayer engineering of anodes: from graphite to graphene. Nanoscale, 2021, 13, 12521-12533.	2.8	14
11	Valley pseudospin in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi>Si</mml:mi><mml:mn mathvariant="normal">N</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi>Si</mml:mi><mml:mn Physical Review B, 2021, 103, .	1.1	82
12	Performance limit of monolayer MoSi₂N₄ transistors. Journal of Materials Chemistry C, 2021, 9, 14683-14698.	2.7	32
13	Laser ablation of pristine Fe foil for constructing a layer-by-layer SiO₂/Fe₂O₃/Fe integrated anode for high cycling-stability lithium-ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 10365-10376.	1.3	7
14	Two-dimensional materials as a stabilized interphase for the solid-state electrolyte Li₁₀GeP₂S₁₂ in lithium metal batteries. Journal of Materials Chemistry A, 2021, 9, 4810-4821.	5.2	12
15	Schottky barrier heights in two-dimensional field-effect transistors: from theory to experiment. Reports on Progress in Physics, 2021, 84, 056501.	8.1	97
16	Is graphite nanomesh a promising anode for the Na/K-Ions batteries?. Carbon, 2021, 176, 242-252.	5.4	28
17	Layer-Dependent Photoabsorption and Photovoltaic Effects in Two-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mi>X</mml:mi></mml:ma		

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19	Can Carbon Nanotube Transistors Be Scaled Down to the Sub-5 nm Gate Length?. ACS Applied Materials & Interfaces, 2021, 13, 31957-31967.	4.0	32
20	Sub-5 nm Gate Length Monolayer MoTe₂ Transistors. Journal of Physical Chemistry C, 2021, 125, 19394-19404.	1.5	19
21	Layer-Dependent Giant Magnetoresistance in Two-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Cr</mml:mi><mml:mi>PS</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math> Magnetic Tunnel Junctions. Physical Review Applied, 2021, 16, .	1.5	22
22	Sub-10Ânm two-dimensional transistors: Theory and experiment. Physics Reports, 2021, 938, 1-72.	10.3	80
23	Can ultra-thin Si FinFETs work well in the sub-10 nm gate-length region?. Nanoscale, 2021, 13, 5536-5544.	2.8	15
24	Oxygen Vacancy-Induced Nonradical Degradation of Organics: Critical Trigger of Oxygen (O₂) in the Feâ€“Co LDH/Peroxymonosulfate System. Environmental Science & Technology, 2021, 55, 15400-15411.	4.6	201
25	Planar Directionâ€Dependent Interfacial Properties in Monolayer In₂Se₃â€“Metal Contacts. Physica Status Solidi (B): Basic Research, 2020, 257, 1900198.	0.7	19
26	Gate-tunable high magnetoresistance in monolayer Fe₃GeTe₂ spin valves. Physical Chemistry Chemical Physics, 2020, 22, 25730-25739.	1.3	18
27	A New Polyanion Na₃Fe₂(PO₄)P₂O₇ Cathode with High Electrochemical Performance for Sodium-Ion Batteries. ACS Energy Letters, 2020, 5, 3788-3796.	8.8	62
28	Direct Observation of Li Migration into V₅S₈: Order to Antisite Disorder Intercalation Followed by the Topotactic-Based Conversion Reaction. ACS Applied Materials & Interfaces, 2020, 12, 36320-36328.	4.0	9
29	First-principles simulation of monolayer hydrogen passivated Bi₂O₂S₂â€“metal interfaces. Physical Chemistry Chemical Physics, 2020, 22, 7853-7863.	1.3	9
30	Ultrahigh Capacity of Monolayer Dumbbell C₄N as a Promising Anode Material for Lithium-Ion Battery. Journal of the Electrochemical Society, 2020, 167, 020538.	1.3	11
31	Two-dimensional single-layer PC6 as promising anode materials for Li-ion batteries: The first-principles calculations study. Applied Surface Science, 2020, 510, 145493.	3.1	35
32	Holey graphite: A promising anode material with ultrahigh storage for lithium-ion battery. Electrochimica Acta, 2020, 346, 136244.	2.6	49
33	Performance Limit of Monolayer WSe₂ Transistors; Significantly Outperform Their MoS₂ Counterpart. ACS Applied Materials & Interfaces, 2020, 12, 20633-20644.	4.0	39
34	Monolayer Honeycomb Borophene: A Promising Anode Material with a Record Capacity for Lithium-Ion and Sodium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 090527.	1.3	28
35	Plasmonâ€Enhanced InGaZnO Ultraviolet Photodetectors Tuned by Ferroelectric HfZrO. Advanced Electronic Materials, 2019, 5, 1900588.	2.6	13
36	Computational Study of Ohmic Contact at Bilayer InSe-Metal Interfaces: Implications for Field-Effect Transistors. ACS Applied Nano Materials, 2019, 2, 6898-6908.	2.4	13

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37	Monolayer GaS with high ion mobility and capacity as a promising anode battery material. Journal of Materials Chemistry A, 2019, 7, 14042-14050.	5.2	32
38	Tracking sodium migration in TiS₂usingin situTEM. Nanoscale, 2019, 11, 7474-7480.	2.8	26