

Yu Gao

List of Publications by Year in descending order

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50
papers

3,653
citations

136950

32
h-index

197818

49
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all docs

51
docs citations

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times ranked

4853
citing authors

#	ARTICLE	IF	CITATIONS
1	g-C ₃ N ₄ /Ti ₃ C ₂ T _x (MXenes) composite with oxidized surface groups for efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 9124-9131.	10.3	233
2	Li-ion uptake and increase in interlayer spacing of Nb ₄ C ₃ MXene. Energy Storage Materials, 2017, 8, 42-48.	18.0	192
3	Revealing the Pseudo-Intercalation Charge Storage Mechanism of MXenes in Acidic Electrolyte. Advanced Functional Materials, 2019, 29, 1902953.	14.9	176
4	SnO ₂ -Ti ₃ C ₂ MXene electron transport layers for perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 5635-5642.	10.3	173
5	2D MXenes as Co-catalysts in Photocatalysis: Synthetic Methods. Nano-Micro Letters, 2019, 11, 79.	27.0	160
6	Fast Potassium Storage in Hierarchical Ca _{0.5} Ti ₂ (PO ₄) ₃ @C Microspheres Enabling High-Performance Potassium-Ion Capacitors. Advanced Functional Materials, 2018, 28, 1802684.	14.9	153
7	First-Principles Calculations of Ti ₂ N and Ti ₂ NT ₂ (T = O, F, OH) Monolayers as Potential Anode Materials for Lithium-Ion Batteries and Beyond. Journal of Physical Chemistry C, 2017, 121, 13025-13034.	3.1	151
8	Core/Double-Shell Structured Na ₃ V ₂ (PO ₄) ₂ F ₃ @C Nanocomposite as the High Power and Long Lifespan Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 31709-31715.	8.0	147
9	Electrical and Elastic Properties of Individual Single-Layer Nb ₄ C ₃ T _x MXene Flakes. Advanced Electronic Materials, 2020, 6, 1901382.	5.1	134
10	Surface-Modified Metallic Ti ₃ C ₂ T _x MXene as Electron Transport Layer for Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905694.	14.9	125
11	Induction of Planar Sodium Growth on MXene (Ti ₃ C ₂ T _x)-Modified Carbon Cloth Hosts for Flexible Sodium Metal Anodes. ACS Nano, 2020, 14, 8744-8753.	14.6	125
12	Lithiophilic Three-Dimensional Porous Ti ₃ C ₂ T _x -rGO Membrane as a Stable Scaffold for Safe Alkali Metal (Li or Na) Anodes. ACS Nano, 2019, 13, 14319-14328.	14.6	123
13	Amorphous Tin-Based Composite Oxide: A High-Rate and Ultralong-Life Sodium-Ion Storage Material. Advanced Energy Materials, 2018, 8, 1701827.	19.5	113
14	Electrochemical Actuators Based on Two-Dimensional Ti ₃ C ₂ T _x (MXene). Nano Letters, 2019, 19, 7443-7448.	9.1	108
15	Fabrication of Hierarchical Potassium Titanium Phosphate Spheroids: A Host Material for Sodium-Ion and Potassium-Ion Storage. Advanced Energy Materials, 2018, 8, 1801102.	19.5	104
16	Mesoporous TiN microspheres as an efficient polysulfide barrier for lithium-sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 14359-14366.	10.3	96
17	VS ₄ Nanoparticles Anchored on Graphene Sheets as a High-Rate and Stable Electrode Material for Sodium Ion Batteries. ChemSusChem, 2018, 11, 735-742.	6.8	93
18	Flexible Nb ₄ C ₃ T _x Film with Large Interlayer Spacing for High-Performance Supercapacitors. Advanced Functional Materials, 2020, 30, 2000815.	14.9	92

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19	Eosin Y-sensitized partially oxidized Ti ₃ C ₂ MXene for photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2019, 9, 310-315.	4.1	83
20	Moving to Aqueous Binder: A Valid Approach to Achieving High-Rate Capability and Long-Term Durability for Sodium-Ion Battery. <i>Advanced Science</i> , 2018, 5, 1700768.	11.2	82
21	High-Performance Li(Li _{0.18} Ni _{0.15} Co _{0.15} Mn _{0.52})O ₂ @Li ₄ M ₅ Heterostructured Cathode Material Coated with a Lithium Borate Oxide Glass Layer. <i>Chemistry of Materials</i> , 2015, 27, 5745-5754.	6.7	76
22	Improved Lithium-Ion and Sodium-Ion Storage Properties from Few-Layered WS ₂ Nanosheets Embedded in a Mesoporous CMK-3 Matrix. <i>Chemistry - A European Journal</i> , 2017, 23, 7074-7080.	3.3	75
23	Computational Screening of 2D Ordered Double Transition-Metal Carbides (MXenes) as Electrocatalysts for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10584-10592.	3.1	62
24	Flexible MnS-Carbon Fiber Hybrids for Lithium-Ion and Sodium-Ion Energy Storage. <i>Chemistry - A European Journal</i> , 2018, 24, 13535-13539.	3.3	58
25	Investigation of chloride ion adsorption onto Ti ₂ C MXene monolayers by first-principles calculations. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24720-24727.	10.3	57
26	A long cycle-life and high safety Na ⁺ /Mg ²⁺ hybrid-ion battery built by using a TiS ₂ derived titanium sulfide cathode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 600-608.	10.3	57
27	Cu ₃ V ₂ O ₈ Nanoparticles as Intercalation-Type Anode Material for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 11405-11412.	3.3	51
28	Copper-Doped Titanium Dioxide Bronze Nanowires with Superior High Rate Capability for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7957-7965.	8.0	47
29	Multi-Functional Surface Engineering for Li-Excess Layered Cathode Material Targeting Excellent Electrochemical and Thermal Safety Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3308-3318.	8.0	46
30	Assembly of Na ₃ V ₂ (PO ₄) ₂ F ₃ @C nanoparticles in reduced graphene oxide enabling superior Na ⁺ storage for symmetric sodium batteries. <i>RSC Advances</i> , 2018, 8, 2958-2962.	3.6	44
31	Self-Assembled CoS Nanoflowers Wrapped in Reduced Graphene Oxides as the High-Performance Anode Materials for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 13150-13157.	3.3	43
32	Li ⁺ /Mg ²⁺ Hybrid-Ion Batteries with Long Cycle Life and High Rate Capability Employing MoS ₂ Nano Flowers as the Cathode Material. <i>Chemistry - A European Journal</i> , 2016, 22, 18073-18079.	3.3	40
33	Electrochemical Interaction of Sn-Containing MAX Phase (Nb ₂ SnC) with Li-Ions. <i>ACS Energy Letters</i> , 2019, 4, 2452-2457.	17.4	36
34	High Rate Capability and Enhanced Cyclability of Na ₃ V ₂ (PO ₄) ₂ F ₃ Cathode by In-Situ Coating of Carbon Nanofibers for Sodium-Ion Battery Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 2913-2919.	3.3	34
35	Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a Ti ₃ C ₂ T _x MXene Intermediate Layer. <i>Advanced Functional Materials</i> , 2021, 31, 2010987.	14.9	33
36	Polymorph Engineering for Boosted Volumetric Na-Ion and Li-Ion Storage. <i>Advanced Materials</i> , 2021, 33, e2100210.	21.0	32

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37	Co ₉ S ₈ /Co as a High-Performance Anode for Sodium-Ion Batteries with an Ether-Based Electrolyte. <i>ChemSusChem</i> , 2017, 10, 4778-4785.	6.8	29
38	Dual Roles of Li ₃ N as an Electrode Additive for Li-Excess Layered Cathode Materials: A Li-Ion Sacrificial Salt and Electrode-Stabilizing Agent. <i>Chemistry - A European Journal</i> , 2018, 24, 13815-13820.	3.3	29
39	Electrochemical Properties and Sodium-Storage Mechanism of Ag ₂ Mo ₂ O ₇ as the Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 7248-7254.	3.3	28
40	Electrochemical Behavior of Ti ₃ C ₂ T _x MXene in Environmentally Friendly Methanesulfonic Acid Electrolyte. <i>ChemSusChem</i> , 2019, 12, 4480-4486.	6.8	19
41	Intercalation pseudocapacitance in a NASICON-structured Na ₂ CrTi(PO ₄) ₃ @carbon nanocomposite: towards high-rate and long-lifespan sodium-ion-based energy storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20604-20613.	10.3	18
42	Lithium-Rich Layered Oxide Li _{1.18} Ni _{0.15} Co _{0.15} Mn _{0.52} O ₂ as the Cathode Material for Hybrid Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 11610-11616.	3.3	14
43	Interface-Induced Self-Assembly Strategy Toward 2D Ordered Mesoporous Carbon/MXene Heterostructures for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2021, 14, 4422-4430.	6.8	14
44	Synthesis of Chl@Ti ₃ C ₂ composites as an anode material for lithium storage. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 709-716.	4.4	10
45	Chlorophyll derivative intercalation into Nb ₂ C MXene for lithium-ion energy storage. <i>Journal of Materials Science</i> , 2022, 57, 9971-9979.	3.7	10
46	A synergistic Ti ₃ C ₂ T/PPy bilayer electrochemical actuator. <i>Applied Surface Science</i> , 2022, 583, 152403.	6.1	9
47	Electrochemical Performance and Storage Mechanism of Ag ₂ Mo ₂ O ₇ Micro-rods as the Anode Material for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 5148-5153.	3.3	8
48	Electrospun Ti ₃ C ₂ T _x MXene and silicon embedded in carbon nanofibers for lithium-ion batteries. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 204002.	2.8	6
49	Solution combustion synthesis of a nanometer-scale Co ₃ O ₄ anode material for Li-ion batteries. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 424-431.	2.8	5
50	Frontispiece: Lithium-Rich Layered Oxide Li _{1.18} Ni _{0.15} Co _{0.15} Mn _{0.52} O ₂ as the Cathode Material for Hybrid Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, .	3.3	0