

# Qianku Hu

## List of Publications by Year in descending order

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58  
papers

4,898  
citations

159585

30  
h-index

149698

56  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Responses to comments on the paper "Two-dimensional Sc <sub>2</sub> C: A reversible and high capacity hydrogen storage material predicted by first-principles calculations". International Journal of Hydrogen Energy, 2022, 47, 9829-9834.	7.1	0
2	Enhanced Reversible Capacity and Cyclic Performance of Lithium-Ion Batteries Using SnO <sub>2</sub> /Interpenetrated MXene V <sub>2</sub> C Architecture as Anode Materials. Energy Technology, 2021, 9, 2000753.	3.8	20
3	High-Performance Wearable Strain Sensor Based on MXene@Cotton Fabric with Network Structure. Nanomaterials, 2021, 11, 889.	4.1	31
4	V <sub>2</sub> CT <sub>x</sub> and Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes Nanosheets for Gas Sensing. ACS Applied Nano Materials, 2021, 4, 6257-6268.	5.0	52
5	Effect of electrolyte on supercapacitor performance of two-dimensional molybdenum carbide (Mo <sub>2</sub> CT <sub>x</sub> ) MXene prepared by hydrothermal etching. Applied Surface Science, 2021, 568, 150971.	6.1	34
6	Mo <sub>2</sub> C-MXene/CdS Heterostructures as Visible-Light Photocatalysts with an Ultrahigh Hydrogen Production Rate. ACS Applied Energy Materials, 2021, 4, 12754-12766.	5.1	42
7	Two-dimensional vanadium carbide (V <sub>2</sub> CT <sub>x</sub> ) MXene as supercapacitor electrode in seawater electrolyte. Chinese Chemical Letters, 2020, 31, 984-987.	9.0	74
8	The preparation of V <sub>2</sub> CT <sub>x</sub> by facile hydrothermal-assisted etching processing and its performance in lithium-ion battery. Journal of Materials Research and Technology, 2020, 9, 984-993.	5.8	58
9	Synthesis of two-dimensional carbide Mo <sub>2</sub> CT <sub>x</sub> MXene by hydrothermal etching with fluorides and its thermal stability. Ceramics International, 2020, 46, 19550-19556.	4.8	97
10	Responses to comments on the paper "Two-dimensional Sc <sub>2</sub> C: A reversible and high capacity hydrogen storage material predicted by first-principles calculations". International Journal of Hydrogen Energy, 2020, 45, 7257-7262.	7.1	3
11	Thermal conductivity and electrical transport properties of double-A-layer MAX phase Mo <sub>2</sub> Ga <sub>2</sub> C. Materials Research Letters, 2020, 8, 158-164.	8.7	35
12	Surface reformation of 2D MXene by in situ LaF <sub>3</sub> -decorated and enhancement of energy storage in lithium-ion batteries. Journal of Materials Science: Materials in Electronics, 2020, 31, 6735-6743.	2.2	12
13	Comment on "MoS <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> heterostructure for efficient visible-light photocatalytic hydrogen generation". International Journal of Hydrogen Energy, 2020, 45, 13559-13562.	7.1	3
14	SnO <sub>2</sub> Quantum Dots Interspersed d-Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Heterostructure with Enhanced Performance for Lithium Ion Battery. Journal of the Electrochemical Society, 2020, 167, 116522.	2.9	7
15	Facile preparation of BiOCl/Ti <sub>3</sub> C <sub>2</sub> hybrid photocatalyst with enhanced visible-light photocatalytic activity. Functional Materials Letters, 2019, 12, 1850100.	1.2	21
16	Self-Assemble and In-situ Formation of Laponite RDS Decorated d-Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Hybrids for Application in Lithium-Ion Battery. ChemistrySelect, 2019, 4, 10694-10700.	1.5	5
17	Ti <sub>3</sub> C <sub>2</sub> MXene-Based Sensors with High Selectivity for NH <sub>3</sub> Detection at Room Temperature. ACS Sensors, 2019, 4, 2763-2770.	7.8	355
18	Comparison of Effects of Sodium Bicarbonate and Sodium Carbonate on the Hydration and Properties of Portland Cement Paste. Materials, 2019, 12, 1033.	2.9	53

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19	Unexpected ground-state structures and properties of carbon nitride C <sub>3</sub> N at ambient and high pressures. <i>Materials and Design</i> , 2018, 140, 45-53.	7.0	3
20	Novel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> nanocomposite as a high rate anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 735, 530-535.	5.5	24
21	Carbon dioxide adsorption of two-dimensional carbide MXenes. <i>Journal of Advanced Ceramics</i> , 2018, 7, 237-245.	17.4	119
22	The Synthesis Process and Thermal Stability of V <sub>2</sub> C MXene. <i>Materials</i> , 2018, 11, 2112.	2.9	152
23	The influence of carbon spheres on thermal and mechanical properties of epoxy composites. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	9
24	Synthesis mechanisms and thermal stability of ternary carbide Mo <sub>2</sub> Ga <sub>2</sub> C. <i>Ceramics International</i> , 2018, 44, 22289-22296.	4.8	34
25	Synthesis and Electrochemical Properties of Two-Dimensional RGO/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Nanocomposites. <i>Nanomaterials</i> , 2018, 8, 80.	4.1	109
26	Ground-state structures, physical properties and phase diagram of carbon-rich nitride C <sub>5</sub> N. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 385402.	1.8	9
27	Preparation of High-Purity V <sub>2</sub> C MXene and Electrochemical Properties as Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A709-A713.	2.9	282
28	Preparation of Ti <sub>3</sub> C <sub>2</sub> and Ti <sub>2</sub> C MXenes by fluoride salts etching and methane adsorptive properties. <i>Applied Surface Science</i> , 2017, 416, 781-789.	6.1	407
29	Synthesis and oxidation resistance of V <sub>2</sub> AlC powders by molten salt method. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 873-879.	2.1	56
30	MoS <sub>2</sub> -Decorated Ti <sub>3</sub> C <sub>2</sub> MXene Nanosheet as Anode Material in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2654-A2659.	2.9	75
31	Synthesis of NaV <sub>6</sub> O <sub>15</sub> nanorods via thermal oxidation of sodium-intercalated 2D V <sub>2</sub> CT <sub>x</sub> and their electrochemical properties as anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 248, 178-187.	5.2	36
32	Preparation and Photocatalytic Performance of Ti <sub>3</sub> C <sub>2</sub> /TiO <sub>2</sub> /CuO Ternary Nanocomposites. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-5.	2.7	19
33	Synthesis and electrochemical performance of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> with hydrothermal process. <i>Electronic Materials Letters</i> , 2016, 12, 702-710.	2.2	270
34	Effects of 2-D transition metal carbide Ti <sub>2</sub> CT <sub>x</sub> on properties of epoxy composites. <i>RSC Advances</i> , 2016, 6, 87341-87352.	3.6	82
35	Preparation and methane adsorption of two-dimensional carbide Ti <sub>2</sub> C. <i>Adsorption</i> , 2016, 22, 915-922.	3.0	85
36	Structural Transformation of MXene (V <sub>2</sub> C, Cr <sub>2</sub> C, and Ta <sub>2</sub> C) with O Groups during Lithiation: A First-Principles Investigation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 74-81.	8.0	159

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37	Preparation, mechanical and anti-friction performance of MXene/polymer composites. <i>Materials and Design</i> , 2016, 92, 682-689.	7.0	286
38	Hydrothermal synthesis of TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> nanocomposites with enhanced photocatalytic activity. <i>Materials Letters</i> , 2015, 150, 62-64.	2.6	223
39	Novel Hierarchical TiO <sub>2</sub> /C Nanocomposite with Enhanced Photocatalytic Performance. <i>Nano</i> , 2015, 10, 1550064.	1.0	26
40	Synthesis and thermal stability of two-dimensional carbide MXene Ti <sub>3</sub> C <sub>2</sub> . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 191, 33-40.	3.5	606
41	Microwave-assisted synthesis of flower-like Ag@BiOCl nanocomposite with enhanced visible-light photocatalytic activity. <i>Materials Letters</i> , 2014, 136, 295-297.	2.6	27
42	Preparation of MXene-Cu <sub>2</sub> O nanocomposite and effect on thermal decomposition of ammonium perchlorate. <i>Solid State Sciences</i> , 2014, 35, 62-65.	3.2	92
43	Two-dimensional Sc <sub>2</sub> C: A reversible and high-capacity hydrogen storage material predicted by first-principles calculations. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10606-10612.	7.1	163
44	MXene: A New Family of Promising Hydrogen Storage Medium. <i>Journal of Physical Chemistry A</i> , 2013, 117, 14253-14260.	2.5	389
45	Structural and Thermodynamic Properties of TiAl intermetallics under High Pressure. <i>Communications in Theoretical Physics</i> , 2012, 57, 141-144.	2.5	5
46	Phase transition, elastic, and thermodynamic properties of NaF under high pressure. <i>Phase Transitions</i> , 2012, 85, 409-418.	1.3	2
47	First-principles studies of structural and electronic properties of layered C <sub>3</sub> N phases. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 784-788.	1.5	30
48	Microwave-assisted synthesis and photocatalytic performance of Ag-doped hierarchical ZnO architectures. <i>Materials Letters</i> , 2012, 79, 277-280.	2.6	31
49	Ab initio investigation on a promising transparent conductive oxide, Nb:SnO <sub>2</sub> . <i>Thin Solid Films</i> , 2012, 520, 5965-5970.	1.8	13
50	Thermal oxidation behavior of hexagonal BC <sub>2</sub> N. <i>Materials Characterization</i> , 2009, 60, 56-59.	4.4	5
51	Synthesis and oxidation behavior of boron-substituted carbon powders by hot filament chemical vapor deposition. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 1464-1469.	0.9	4
52	First-principles study of atomic oxygen adsorption on boron-substituted graphite. <i>Surface Science</i> , 2008, 602, 37-45.	1.9	22
53	Solvent-free synthesis of crystalline carbon nitride compounds. <i>Journal of Alloys and Compounds</i> , 2008, 455, 303-307.	5.5	9
54	Body-centered superhard B <sub>2</sub> C <sub>2</sub> N phases from first principles. <i>Physical Review B</i> , 2007, 76, .	3.2	32

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55	Carbon-rich boron carbide in the eutectic product synthesized by resistance heating of B <sub>2</sub> CN in graphite. <i>Journal of Alloys and Compounds</i> , 2007, 437, 238-246.	5.5	16
56	Phase-constituent control and superconducting properties of MgB <sub>2</sub> films in situ grown by hot-filament chemical-vapor deposition. <i>Journal of Crystal Growth</i> , 2007, 299, 82-85.	1.5	0
57	First-principles studies of structural and electronic properties of hexagonal BC <sub>5</sub> . <i>Physical Review B</i> , 2006, 73, .	3.2	75
58	The thermal expansion of a highly crystalline hexagonal BC <sub>2</sub> N compound synthesized under high temperature and pressure. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9519-9524.	1.8	10