

Quanzheng Tao

List of Publications by Year in descending order

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2459
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#	ARTICLE	IF	CITATIONS
1	High-Entropy Laminate Metal Carbide (MAX Phase) and Its Two-Dimensional Derivative MXene. <i>Chemistry of Materials</i> , 2022, 34, 2098-2106.	6.7	60
2	Magnetic phase diagram of $(\text{Mo}_{2/3}\text{RE}_{1/3})_2\text{AlC}$, RE = Tb and Dy, studied by magnetization, specific heat, and neutron diffraction analysis. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 215801.	1.8	1
3	Synthesis, characterization, and magnetic properties of rare earth containing $\text{Mo}_{4/3}\text{RE}_{2/3}\text{AlB}_2$ <i>i</i> -MAB phases. <i>Materials Research Letters</i> , 2022, 10, 295-300.	8.7	3
4	Bioinspired multisensory neural network with crossmodal integration and recognition. <i>Nature Communications</i> , 2021, 12, 1120.	12.8	94
5	Boridene: Two-dimensional $\text{Mo}_{4/3}\text{B}_{2-x}$ with ordered metal vacancies obtained by chemical exfoliation. <i>Science</i> , 2021, 373, 801-805.	12.6	126
6	Out-of-Plane Ordered Laminate Borides and Their 2D Ti-Based Derivative from Chemical Exfoliation. <i>Advanced Materials</i> , 2021, 33, e2008361.	21.0	14
7	Microscopic evidence for Mn-induced long range magnetic ordering in MAX phase compounds. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 025803.	1.8	3
8	Magnetic structure determination of high-moment rare-earth-based laminates. <i>Physical Review B</i> , 2021, 104, .	3.2	4
9	$\text{Mo}_{1.33}\text{C}$ MXene-Assisted PEDOT:PSS Hole Transport Layer for High-Performance Bulk-Heterojunction Polymer Solar Cells. <i>ACS Applied Electronic Materials</i> , 2020, 2, 163-169.	4.3	25
10	Theoretical Prediction and Synthesis of a Family of Atomic Laminate Metal Borides with In-Plane Chemical Ordering. <i>Journal of the American Chemical Society</i> , 2020, 142, 18583-18591.	18.7	55
11	Theoretical prediction, synthesis, and crystal structure determination of new MAX phase compound V_2SnC . <i>Journal of Advanced Ceramics</i> , 2020, 9, 481-492.	17.4	56
12	Single Crystal Growth and Structural Characterization of Theoretically Predicted Nanolaminates $\text{M}_2\text{Al}_2\text{C}_3$, Where M = Sc and Er. <i>Crystal Growth and Design</i> , 2020, 20, 7640-7646.	3.0	3
13	Tactile sensory coding and learning with bio-inspired optoelectronic spiking afferent nerves. <i>Nature Communications</i> , 2020, 11, 1369.	12.8	141
14	A flexible semitransparent photovoltaic supercapacitor based on water-processed MXene electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5467-5475.	10.3	79
15	Flexible Solid-State Asymmetric Supercapacitors with Enhanced Performance Enabled by Free-Standing MXene-Biopolymer Nanocomposites and Hierarchical Graphene-RuO _x Paper Electrodes. <i>Batteries and Supercaps</i> , 2020, 3, 604-610.	4.7	19
16	In- and Out-of-Plane Ordered MAX Phases and Their MXene Derivatives. , 2019, , 37-52.		9
17	Theoretical Analysis, Synthesis, and Characterization of 2D $\text{W}_{1.33}\text{C}$ (MXene) with Ordered Vacancies. <i>ACS Applied Nano Materials</i> , 2019, 2, 6209-6219.	5.0	37
18	Atomically Layered and Ordered Rare-Earth <i>i</i> -MAX Phases: A New Class of Magnetic Quaternary Compounds. <i>Chemistry of Materials</i> , 2019, 31, 2476-2485.	6.7	89

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19	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. Nano Energy, 2019, 60, 734-742.	16.0	124
20	Stoichiometry and surface structure dependence of hydrogen evolution reaction activity and stability of MoxC MXenes. Journal of Catalysis, 2019, 371, 325-332.	6.2	51
21	First-order Raman scattering of rare-earth containing $\text{Mo}_{1-x}\text{V}_x\text{C}$ MAX single crystals. Physical Review Materials, 2019, 3, .	2.4	10
22	Materials synthesis, neutron powder diffraction, and first-principles calculations of $\text{Mo}_{1-x}\text{V}_x\text{C}$. Physical Review Materials, 2019, 3, .	2.4	10
23	Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of In-plane, Chemically Ordered MAX Phases. Small, 2018, 14, e1703676.	10.0	174
24	W _{1.33} C MXene with Vacancy Ordering. Advanced Materials, 2018, 30, e1706409.	21.0	240
25	Magnetic properties and structural characterization of layered $(\text{Cr}_{0.5}\text{Mn}_{0.5})_2\text{AuC}$ synthesized by thermally induced substitutional reaction in $(\text{Cr}_{0.5}\text{Mn}_{0.5})_2\text{GaC}$. APL Materials, 2018, 6, .	5.1	25
26	Two-Dimensional Molybdenum Carbide (MXene) with Divacancy Ordering for Brackish and Seawater Desalination via Cation and Anion Intercalation. ACS Sustainable Chemistry and Engineering, 2018, 6, 3739-3747.	6.7	183
27	High-performance Ultrathin Flexible Solid-state Supercapacitors Based on Solution Processable $\text{Mo}_{1.33}\text{C}$ MXene and PEDOT:PSS. Advanced Functional Materials, 2018, 28, 1703808.	14.9	196
28	Rare-earth (RE) nanolaminates Mo_4C_3 featuring ferromagnetism and mixed-valence states. Physical Review Materials, 2018, 2, .	2.4	7
29	Two-dimensional $\text{Mo}_{1.33}\text{C}$ MXene with divacancy ordering prepared from parent 3D laminate with in-plane chemical ordering. Nature Communications, 2017, 8, 14949.	12.8	525
30	Evidence for ferromagnetic ordering in the MAX phase $(\text{Cr}_{0.96}\text{Mn}_{0.04})_2\text{GeC}$. Materials Research Letters, 2017, 5, 465-471.	8.7	14
31	Theoretical stability and materials synthesis of a chemically ordered MAX phase, $\text{Mo}_2\text{ScAlC}_2$, and its two-dimensional derivative Mo_2ScC_2 MXene. Acta Materialia, 2017, 125, 476-480.	7.9	185
32	Prediction and synthesis of a family of atomic laminate phases with Kagomé-like and in-plane chemical ordering. Science Advances, 2017, 3, e1700642.	10.3	156
33	Theoretical and Experimental Exploration of a Novel In-Plane Chemically Ordered $(\text{Cr}_{2/3}\text{M}_{1/3})_2\text{AlC}$ MAX Phase with $M = \text{Sc}$ and Y . Crystal Growth and Design, 2017, 17, 5704-5711.	3.0	79
34	Thin film synthesis and characterization of a chemically ordered magnetic nanolaminate $(\text{V,Mn})_3\text{GaC}_2$. APL Materials, 2016, 4, .	5.1	28