

Quanzheng Tao

List of Publications by Year in descending order

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304743

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2459
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#	ARTICLE	IF	CITATIONS
1	Two-dimensional $\text{Mo}_{1.33}\text{C}$ MXene with divacancy ordering prepared from parent 3D laminate with in-plane chemical ordering. <i>Nature Communications</i> , 2017, 8, 14949.	12.8	525
2	Wâ€Based Atomic Laminates and Their 2D Derivative $\text{W}_{1.33}\text{C}$ MXene with Vacancy Ordering. <i>Advanced Materials</i> , 2018, 30, e1706409.	21.0	240
3	Highâ€Performance Ultrathin Flexible Solidâ€State Supercapacitors Based on Solution Processable $\text{Mo}_{1.33}\text{C}$ MXene and PEDOT:PSS. <i>Advanced Functional Materials</i> , 2018, 28, 1703808.	14.9	196
4	Theoretical stability and materials synthesis of a chemically ordered MAX phase, $\text{Mo}_2\text{ScAlC}_2$, and its two-dimensional derivate Mo_2ScC_2 MXene. <i>Acta Materialia</i> , 2017, 125, 476-480.	7.9	185
5	Two-Dimensional Molybdenum Carbide (MXene) with Divacancy Ordering for Brackish and Seawater Desalination via Cation and Anion Intercalation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3739-3747.	6.7	183
6	Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of Inâ€Plane, Chemically Ordered MAX Phases. <i>Small</i> , 2018, 14, e1703676.	10.0	174
7	Prediction and synthesis of a family of atomic laminate phases with KagomÃ©-like and in-plane chemical ordering. <i>Science Advances</i> , 2017, 3, e1700642.	10.3	156
8	Tactile sensory coding and learning with bio-inspired optoelectronic spiking afferent nerves. <i>Nature Communications</i> , 2020, 11, 1369.	12.8	141
9	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
10	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. <i>Nano Energy</i> , 2019, 60, 734-742.	16.0	124
11	Bioinspired multisensory neural network with crossmodal integration and recognition. <i>Nature Communications</i> , 2021, 12, 1120.	12.8	94
12	Atomically Layered and Ordered Rare-Earth <i>ix</i> -MAX Phases: A New Class of Magnetic Quaternary Compounds. <i>Chemistry of Materials</i> , 2019, 31, 2476-2485.	6.7	89
13	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
14	Theoretical and Experimental Exploration of a Novel In-Plane Chemically Ordered $(\text{Cr}_{2/3}\text{M}_{1/3})_{2-x}\text{AlC}$ <i>ix</i> -MAX Phase with M = Sc and Y. <i>Crystal Growth and Design</i> , 2017, 17, 5704-5711.	3.0	79
15	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
16	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
17	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.	13.7	55
18	Stoichiometry and surface structure dependence of hydrogen evolution reaction activity and stability of MoxC MXenes. <i>Journal of Catalysis</i> , 2019, 371, 325-332.	6.2	51

#	ARTICLE	IF	CITATIONS
19	Theoretical Analysis, Synthesis, and Characterization of 2D $W_{1.33}C$ (MXene) with Ordered Vacancies. ACS Applied Nano Materials, 2019, 2, 6209-6219.	5.0	37
20	Thin film synthesis and characterization of a chemically ordered magnetic nanolaminate $(V,Mn)_3GaC_2$. APL Materials, 2016, 4, .	5.1	28
21	Magnetic properties and structural characterization of layered $(Cr_0.5Mn_0.5)_2AuC$ synthesized by thermally induced substitutional reaction in $(Cr_0.5Mn_0.5)_2GaC$. APL Materials, 2018, 6, .	5.1	25
22	$Mo_{1.33}C$ MXene-Assisted PEDOT:PSS Hole Transport Layer for High-Performance Bulk-Heterojunction Polymer Solar Cells. ACS Applied Electronic Materials, 2020, 2, 163-169.	4.3	25
23	Flexible Solid-State Asymmetric Supercapacitors with Enhanced Performance Enabled by Free-Standing MXene-Biopolymer Nanocomposites and Hierarchical Graphene-RuO _x Paper Electrodes. Batteries and Supercaps, 2020, 3, 604-610.	4.7	19
24	Evidence for ferromagnetic ordering in the MAX phase $(Cr_{0.96}Mn_{0.04})_2GeC$. Materials Research Letters, 2017, 5, 465-471.	8.7	14
25	Out-of-Plane Ordered Laminate Borides and Their 2D Ti-Based Derivative from Chemical Exfoliation. Advanced Materials, 2021, 33, e2008361.	21.0	14
26	Materials synthesis, neutron powder diffraction, and first-principles calculations of $Mo_{1.33}C$. Physical Review Materials, 2019, 3, .	2.4	10
27	First-order Raman scattering of rare-earth containing $Mo_{1.33}C$ MAX single crystals. Physical Review Materials, 2019, 3, .	2.4	10
28	In- and Out-of-Plane Ordered MAX Phases and Their MXene Derivatives. , 2019, , 37-52.		9
29	Rare-earth (RE) nanolaminates $Mo_{1.33}C$ featuring ferromagnetism and mixed-valence states. Physical Review Materials, 2018, 2, .	2.4	7
30	Magnetic structure determination of high-moment rare-earth-based laminates. Physical Review B, 2021, 104, .	3.2	4
31	Single Crystal Growth and Structural Characterization of Theoretically Predicted Nanolaminates $M_2Al_2C_3$, Where M = Sc and Er. Crystal Growth and Design, 2020, 20, 7640-7646.	3.0	3
32	Microscopic evidence for Mn-induced long range magnetic ordering in MAX phase compounds. Journal of Physics Condensed Matter, 2021, 33, 025803.	1.8	3
33	Synthesis, characterization, and magnetic properties of rare earth containing $Mo_{4/3}RE_{2/3}AlB_2$ MAB phases. Materials Research Letters, 2022, 10, 295-300.	8.7	3
34	Magnetic phase diagram of $(Mo_{2/3}RE_{1/3})_2AlC$, RE = Tb and Dy, studied by magnetization, specific heat, and neutron diffraction analysis. Journal of Physics Condensed Matter, 2022, 34, 215801.	1.8	1