

Johanna Rosen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Aqueous Electrolytes, MXene-Based Supercapacitors and Their Self-Discharge. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100147.	2.8	11
2	MXene-based symmetric supercapacitors with high voltage and high energy density. <i>Materials Reports Energy</i> , 2022, 2, 100078.	1.7	10
3	Investigation of 2D Boridene from First Principles and Experiments. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	31
4	Correlation strength, orbital-selective incoherence, and local moments formation in the magnetic MAX-phase $\text{Mn}_{2\text{Mn}}^{\text{Mn}}$ <i>Physical Review B</i> , 2022, 105, .	1.1	3
5	Chemical order or disorder – a theoretical stability expose for expanding the compositional space of quaternary metal borides. <i>Materials Advances</i> , 2022, 3, 2908-2917.	2.6	9
6	Investigation of out-of-plane ordered $\text{Ti}_4\text{MoSiB}_2$ from first principles. <i>Journal of Physics Condensed Matter</i> , 2022, , .	0.7	2
7	The effect of strain and pressure on the electron-phonon coupling and superconductivity in MgB_2 – Benchmark of theoretical methodologies and outlook for nanostructure design. <i>Journal of Applied Physics</i> , 2022, 131, 063902.	1.1	1
8	Effect of vacancies on the electrochemical behavior of Mo-based MXenes in aqueous supercapacitors. <i>Journal of Power Sources</i> , 2022, 525, 231064.	4.0	13
9	High-Entropy Laminate Metal Carbide (MAX Phase) and Its Two-Dimensional Derivative MXene. <i>Chemistry of Materials</i> , 2022, 34, 2098-2106.	3.2	60
10	Termination-Accelerated Electrochemical Nitrogen Fixation on Single-Atom Catalysts Supported by MXenes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2800-2807.	2.1	11
11	Steering Self-Assembly of Three-Dimensional Iptycenes on Au(111) by Tuning Molecule-Surface Interactions. <i>Angewandte Chemie - International Edition</i> , 2022, , .	7.2	6
12	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.	0.7	1
13	Synthesis, characterization, and magnetic properties of rare earth containing $\text{Mo}_{4/3}\text{RE}_{2/3}\text{AlB}_2$ -MAB phases. <i>Materials Research Letters</i> , 2022, 10, 295-300.	4.1	3
14	$\text{Ti}_{1.1}\text{V}_{0.7}\text{Cr Nb}_{1.0}\text{Ta}_{0.6}\text{C}_3\text{T}$ high-entropy MXene freestanding films for charge storage applications. <i>Electrochemistry Communications</i> , 2022, 137, 107264.	2.3	23
15	Exploring the electrochemical behavior of $\text{Mo}_{1.33}\text{CTz}$ MXene in aqueous sulfates electrolytes: Effect of intercalating cations on the stored charge. <i>Journal of Power Sources</i> , 2022, 531, 231302.	4.0	6
16	Colorless-to-colorful switching of electrochromic MXene by reversible ion insertion. <i>Nano Research</i> , 2022, 15, 3587-3593.	5.8	16
17	Theoretical predictions of phase stability for orthorhombic and hexagonal ternary MAB phases. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11249-11258.	1.3	18
18	First-principles study on the superconductivity of doped zirconium diborides. <i>Physical Review Materials</i> , 2022, 6, .	0.9	2

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19	MXene//MnO ₂ Asymmetric Supercapacitors with High Voltages and High Energy Densities. Batteries and Supercaps, 2022, 5, .	2.4	4
20	Surface-Assisted Synthesis of Ni ²⁺ -Containing π -Conjugated Polymers. Advanced Science, 2022, 9, .	5.6	7
21	MXene-based multifunctional smart fibers for wearable and portable electronics. Journal of Materials Chemistry A, 2022, 10, 12544-12550.	5.2	11
22	Synthesis, characterization and first principle modelling of the MAB phase solid solutions: (Mn _{1-x} Crx) ₂ AlB ₂ and (Mn _{1-x} Crx) ₃ AlB ₄ . Materials Research Letters, 2021, 9, 112-118.	4.1	17
23	Hydrogen Evolution Reaction for Vacancy-Ordered π -MXenes and the Impact of Proton Absorption into the Vacancies. Advanced Sustainable Systems, 2021, 5, 2000158.	2.7	27
24	Tailored synthesis approach of (Mo _{2/3} Y _{1/3}) ₂ AlC π -MAX and its two-dimensional derivative Mo _{1.33} CT _z MXene: enhancing the yield, quality, and performance in supercapacitor applications. Nanoscale, 2021, 13, 311-319.	2.8	22
25	Fabrication of Mo _{1.33} CT _z (MXene) π -cellulose freestanding electrodes for supercapacitor applications. Materials Advances, 2021, 2, 743-753.	2.6	15
26	Bioinspired multisensory neural network with crossmodal integration and recognition. Nature Communications, 2021, 12, 1120.	5.8	94
27	Ultrafast, One-Step, Salt-Solution-Based Acoustic Synthesis of Ti ₃ C ₂ MXene. ACS Nano, 2021, 15, 4287-4293.	7.3	103
28	Structure-activity correlation of Ti ₂ CT ₂ MXenes for H^+ activation. Journal of Physics Condensed Matter, 2021, 33, 235201.	0.7	5
29	In-plane ordered quaternary $M_{4/3}M_{2/3}M_{3}AlB_2$ phases (π -MAB): electronic structure and mechanical properties from first-principles calculations. Journal of Physics Condensed Matter, 2021, 33, 255402.	0.7	4
30	On-surface photopolymerization of two-dimensional polymers ordered on the mesoscale. Nature Chemistry, 2021, 13, 730-736.	6.6	68
31	The world of two-dimensional carbides and nitrides (MXenes). Science, 2021, 372, .	6.0	1,209
32	Acoustomicrofluidic Synthesis of Pristine Ultrathin Ti ₃ C ₂ T _z MXene Nanosheets and Quantum Dots. ACS Nano, 2021, 15, 12099-12108.	7.3	46
33	Boridene: Two-dimensional Mo _{4/3} B _{2-x} with ordered metal vacancies obtained by chemical exfoliation. Science, 2021, 373, 801-805.	6.0	126
34	Out-of-Plane Ordered Laminate Borides and Their 2D Ti-Based Derivative from Chemical Exfoliation. Advanced Materials, 2021, 33, e2008361.	11.1	14
35	Enhanced supercapacitive performance of Mo _{1.33} C MXene based asymmetric supercapacitors in lithium chloride electrolyte. Energy Storage Materials, 2021, 41, 203-208.	9.5	30
36	Mixed MXenes: Mo _{1.33} CT _z and Ti ₃ C ₂ T _z freestanding MX composite films for energy storage. Nano Energy, 2021, 88, 106271.	8.2	21

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37	Systematic compositional analysis of sputter-deposited boron-containing thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	0.9	26
38	Improved charge storage performance of a layered $\text{Mo}_{1.33}\text{C}$ MXene/ MoS_2 /graphene nanocomposite. Nanoscale Advances, 2021, 3, 6689-6695.	2.2	2
39	Predictions of attainable compositions of layered quaternary <i>i</i> -MAB phases and solid solution MAB phases. Nanoscale, 2021, 13, 18311-18321.	2.8	12
40	$\text{Mo}_{1.33}\text{CTz}$ – $\text{Ti}_3\text{C}_2\text{Tz}$ mixed MXene freestanding films for zinc-ion hybrid supercapacitors. Materials Today Energy, 2021, 22, 100878.	2.5	17
41	Microscopic evidence for Mn-induced long range magnetic ordering in MAX phase compounds. Journal of Physics Condensed Matter, 2021, 33, 025803.	0.7	3
42	Functionalizing MXenes by Tailoring Surface Terminations in Different Chemical Environments. Chemistry of Materials, 2021, 33, 9108-9118.	3.2	40
43	Magnetic structure determination of high-moment rare-earth-based laminates. Physical Review B, 2021, 104, .	1.1	4
44	Phase Stability of Nanolaminated Epitaxial $(\text{Cr}_{1-x}\text{Fe}_x)_2\text{AlC}$ MAX Phase Thin Films on $\text{MgO}(111)$ and $\text{Al}_2\text{O}_3(0001)$ for Use as Conductive Coatings. ACS Applied Nano Materials, 2021, 4, 13761-13770.	2.4	6
45	Evolution of adsorption heights in the on-surface synthesis and decoupling of covalent organic networks on $\text{Ag}(111)$ by normal-incidence X-ray standing wave. Nanoscale Horizons, 2021, 7, 51-62.	4.1	15
46	Origin of layer decoupling in ordered multilayer graphene grown by high-temperature sublimation on C-face 4H-SiC. APL Materials, 2020, 8, .	2.2	4
47	Predictive theoretical screening of phase stability for chemical order and disorder in quaternary 312 and 413 MAX phases. Nanoscale, 2020, 12, 785-794.	2.8	56
48	Ta-based 413 and 211 MAX phase solid solutions with Hf and Nb. Journal of the European Ceramic Society, 2020, 40, 1829-1838.	2.8	31
49	Theoretical Prediction and Experimental Verification of the Chemically Ordered Atomic-Laminate <i>i</i> -MAX Phases $(\text{Cr}_{2/3}\text{Sc}_{1/3})_2\text{GaC}$ and $(\text{Mn}_{2/3}\text{Sc}_{1/3})_2\text{GaC}$. Crystal Growth and Design, 2020, 20, 55-61.	1.4	16
50	$\text{Mo}_{1.33}\text{C}$ MXene-Assisted PEDOT:PSS Hole Transport Layer for High-Performance Bulk-Heterojunction Polymer Solar Cells. ACS Applied Electronic Materials, 2020, 2, 163-169.	2.0	25
51	Effect of Mo-Cu cathode composition on process stability, macroparticle formation, plasma generation, and thin-film deposition in DC arc synthesis. Journal of Applied Physics, 2020, 127, .	1.1	2
52	On the Capacities of Freestanding Vanadium Pentoxide–Carbon Nanotube–Nanocellulose Paper Electrodes for Charge Storage Applications. Energy Technology, 2020, 8, 2000731.	1.8	4
53	Theoretical Prediction and Synthesis of a Family of Atomic Laminate Metal Borides with In-Plane Chemical Ordering. Journal of the American Chemical Society, 2020, 142, 18583-18591.	6.6	55
54	Impact of strain, pressure, and electron correlation on magnetism and crystal structure of Mn_2GaC from first-principles. Scientific Reports, 2020, 10, 11384.	1.6	13

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55	X-ray Photoelectron Spectroscopy of Ti_3AlC_2 , $Ti_3C_2T_z$, and TiC Provides Evidence for the Electrostatic Interaction between Laminated Layers in MAX-Phase Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27732-27742.	1.5	71
56	C ¹ H activation of light alkanes on MXenes predicted by hydrogen affinity. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18622-18630.	1.3	10
57	Theoretical prediction, synthesis, and crystal structure determination of new MAX phase compound V_2SnC . <i>Journal of Advanced Ceramics</i> , 2020, 9, 481-492.	8.9	56
58	Single Crystal Growth and Structural Characterization of Theoretically Predicted Nanolaminates $M_2Al_2C_3$, Where M = Sc and Er. <i>Crystal Growth and Design</i> , 2020, 20, 7640-7646.	1.4	3
59	Formation of Ti_2AuN from Au-Covered Ti_2AlN Thin Films: A General Strategy to Thermally Induce Intercalation of Noble Metals into MAX Phases. <i>Crystal Growth and Design</i> , 2020, 20, 4077-4081.	1.4	13
60	MXenes for Energy Storage and Catalysis. <i>Advanced Functional Materials</i> , 2020, 30, 2000894.	7.8	126
61	Tactile sensory coding and learning with bio-inspired optoelectronic spiking afferent nerves. <i>Nature Communications</i> , 2020, 11, 1369.	5.8	141
62	A flexible semitransparent photovoltaic supercapacitor based on water-processed MXene electrodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5467-5475.	5.2	79
63	How Much Oxygen Can a MXene Surface Take Before It Breaks?. <i>Advanced Functional Materials</i> , 2020, 30, 1909005.	7.8	111
64	Controlled Atmosphere Flame Fusion Single Crystal Growth of Non-Noble fcc, hcp, and bcc Metals Using Copper, Cobalt, and Iron. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13246-13252.	7.2	13
65	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.	2.4	19
66	Possible monoclinic distortion of Mo_2GaC under high pressure. <i>Journal of Applied Physics</i> , 2020, 127, 145103.	1.1	2
67	Structural and mechanical properties of amorphous $AlMgB_{14}$ thin films deposited by DC magnetron sputtering on Si, Al_2O_3 and MgO substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	5
68	Theoretical investigation of mixing and clustering thermodynamics of $Ti_{1-x}Al_xB_2$ alloys with potential for age-hardening. <i>Journal of Applied Physics</i> , 2020, 128, 235101.	1.1	7
69	XPS of cold pressed multilayered and freestanding delaminated 2D thin films of $Mo_2TiC_2T_z$ and $Mo_2Ti_2C_3T_z$ (MXenes). <i>Applied Surface Science</i> , 2019, 494, 1138-1147.	3.1	58
70	$Ti_{n+1}C_n$ MXenes with fully saturated and thermally stable Cl terminations. <i>Nanoscale Advances</i> , 2019, 1, 3680-3685.	2.2	81
71	Synthesis of $(V_{2/3}Sc_{1/3})_2AlC$ i-MAX phase and $V_{2x}C$ MXene scrolls. <i>Nanoscale</i> , 2019, 11, 14720-14726.	2.8	52
72	In- and Out-of-Plane Ordered MAX Phases and Their MXene Derivatives. , 2019, , 37-52.		9

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73	Flexible Freestanding MoO ₃ x "Carbon Nanotubes" Nanocellulose Paper Electrodes for Charge-Storage Applications. ChemSusChem, 2019, 12, 5157-5163.	3.6	20
74	Direct measurement of anisotropic conductivity in a nanolaminated (Mn _{0.5} Cr _{0.5}) ₂ GaC thin film. Applied Physics Letters, 2019, 115, 094101.	1.5	9
75	Synthesis of atomically layered and chemically ordered rare-earth (RE) <i>x</i> -MAX phases; (Mo _{2/3} RE _{1/3}) ₂ GaC with RE = Gd, Tb, Dy, Ho, Er, Tm, Yb, and Lu. Materials Research Letters, 2019, 7, 446-452.	4.1	40
76	Current state of the art on tailoring the MXene composition, structure, and surface chemistry. Current Opinion in Solid State and Materials Science, 2019, 23, 100774.	5.6	92
77	Theoretical Analysis, Synthesis, and Characterization of 2D W _{1.33} C (MXene) with Ordered Vacancies. ACS Applied Nano Materials, 2019, 2, 6209-6219.	2.4	37
78	Long-term stability and thickness dependence of magnetism in thin (Cr _{0.5} Mn _{0.5}) ₂ GaC MAX phase films. Materials Research Letters, 2019, 7, 159-163.	4.1	12
79	Electronic and optical characterization of 2D Ti ₂ C and Nb ₂ C (MXene) thin films. Journal of Physics Condensed Matter, 2019, 31, 165301.	0.7	74
80	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers (Angew. Chem.)	1.6	0
81	Atomically Layered and Ordered Rare-Earth <i>x</i> -MAX Phases: A New Class of Magnetic Quaternary Compounds. Chemistry of Materials, 2019, 31, 2476-2485.	3.2	89
82	Strategy for simultaneously increasing both hardness and toughness in ZrB ₂ -rich Zr _{1-x} Ta _x By thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	42
83	Polymer-MXene composite films formed by MXene-facilitated electrochemical polymerization for flexible solid-state microsupercapacitors. Nano Energy, 2019, 60, 734-742.	8.2	124
84	Effect of Ti-Al cathode grain size on plasma generation and thin film synthesis from a direct current vacuum arc plasma source. AIP Advances, 2019, 9, .	0.6	3
85	Stoichiometry and surface structure dependence of hydrogen evolution reaction activity and stability of MoxC MXenes. Journal of Catalysis, 2019, 371, 325-332.	3.1	51
86	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. Journal of the American Chemical Society, 2019, 141, 4730-4737.	6.6	811
87	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. Angewandte Chemie, 2019, 131, 6631-6635.	1.6	16
88	On-Surface Synthesis of Ethynylene-Bridged Anthracene Polymers. Angewandte Chemie - International Edition, 2019, 58, 6559-6563.	7.2	44
89	Transmorphic epitaxial growth of AlN nucleation layers on SiC substrates for high-breakdown thin GaN transistors. Applied Physics Letters, 2019, 115, .	1.5	25
90	A Tungsten-Based Nanolaminated Ternary Carbide: (W,Ti) ₄ C ₄ . Inorganic Chemistry, 2019, 58, 1100-1106.	1.9	9

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91	Process development for stabilization of vacuum arc plasma generation from a TiB ₂ cathode. AIP Advances, 2019, 9, 015103.	0.6	6
92	2D Transition Metal Carbides (MXenes) for Carbon Capture. Advanced Materials, 2019, 31, e1805472.	11.1	184
93	First-order Raman scattering of rare-earth containing MAX single crystals. Physical Review Materials, 2019, 3, .	0.9	10
94	Materials synthesis, neutron powder diffraction, and first-principles calculations of Mo _{1-x} Ti _x C MAX phase. Physical Review Materials, 2019, 3, .	0.9	10
95	Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of In-plane, Chemically Ordered MAX Phases. Small, 2018, 14, e1703676.	5.2	174
96	W-based Atomic Laminates and Their 2D Derivative W _{1.33} C MXene with Vacancy Ordering. Advanced Materials, 2018, 30, e1706409.	11.1	240
97	Effect of synchronized bias in the deposition of TiB ₂ thin films using high power impulse magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	19
98	Large uniaxial magnetostriction with sign inversion at the first order phase transition in the nanolaminated Mn ₂ GaC MAX phase. Scientific Reports, 2018, 8, 2637.	1.6	42
99	Magnetic properties and structural characterization of layered (Cr _{0.5} Mn _{0.5}) ₂ AuC synthesized by thermally induced substitutional reaction in (Cr _{0.5} Mn _{0.5}) ₂ GaC. APL Materials, 2018, 6, .	2.2	25
100	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.	3.2	183
101	Time evolution of ion fluxes incident at the substrate plane during reactive high-power impulse magnetron sputtering of groups IVb and VIb transition metals in Ar/N ₂ . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	31
102	Controlling the B/Ti ratio of TiB _x thin films grown by high-power impulse magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	46
103	On the organization and thermal behavior of functional groups on Ti ₃ C ₂ MXene surfaces in vacuum. 2D Materials, 2018, 5, 015002.	2.0	219
104	High-performance Ultrathin Flexible Solid-state Supercapacitors Based on Solution Processable Mo _{1.33} C MXene and PEDOT:PSS. Advanced Functional Materials, 2018, 28, 1703808.	7.8	196
105	Sodium hydroxide and vacuum annealing modifications of the surface terminations of a Ti ₃ C ₂ (MXene) epitaxial thin film. RSC Advances, 2018, 8, 36785-36790.	1.7	49
106	Variable range hopping and thermally activated transport in molybdenum-based MXenes. Physical Review B, 2018, 98, .	1.1	66
107	On the Structural Stability of MXene and the Role of Transition Metal Adatoms. Nanoscale, 2018, 10, 10850-10855.	2.8	71
108	Synthesis of Two-Dimensional Nb _{1.33} C (MXene) with Randomly Distributed Vacancies by Etching of the Quaternary Solid Solution (Nb _{2/3} Sc _{1/3}) ₂ AlC MAX Phase. ACS Applied Nano Materials, 2018, 1, 2455-2460.	2.4	154

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109	Origin of Chemically Ordered Atomic Laminates (<i>i</i> -MAX): Expanding the Elemental Space by a Theoretical/Experimental Approach. ACS Nano, 2018, 12, 7761-7770.	7.3	99
110	Theoretical Prediction and Synthesis of $(\text{Cr}_{2/3}\text{Zr}_{1/3})_2\text{AlC}$ <i>i</i> -MAX Phase. Inorganic Chemistry, 2018, 57, 6237-6244.	1.9	59
111	Electronic structure, bonding characteristics, and mechanical properties in $(\text{W}_{2/3}\text{Sc}_{1/3})_2\text{AlC}$ and $(\text{W}_{2/3}\text{Y}_{1/3})_2\text{AlC}$ <i>i</i> -MAX phases from first-principles calculations. Journal of Physics Condensed Matter, 2018, 30, 305502.	0.7	9
112	Rare-earth (RE) nanolaminates $\text{C}_{n+1}\text{M}_n\text{AX}_n$ featuring ferromagnetism and mixed-valence states. Physical Review Materials, 2018, 2, .	0.9	7
113	Layered ternary $\text{M}_{n+1}\text{AX}_n$ phases and their 2D derivative MXene: an overview from a thin-film perspective. Journal Physics D: Applied Physics, 2017, 50, 113001.	1.3	216
114	First-order Raman scattering in three-layered Mo-based ternaries: MoAlB , $\text{Mo}_2\text{Ga}_2\text{C}$ and Mo_2GaC . Journal of Raman Spectroscopy, 2017, 48, 631-638.	1.2	37
115	Effect of Si on DC arc plasma generation from Al-Cr and Al-Cr-Si cathodes used in oxygen. Journal of Applied Physics, 2017, 121, .	1.1	7
116	Synthesis of Ti_3AuC_2 , $\text{Ti}_3\text{Au}_2\text{C}_2$ and Ti_3IrC_2 by noble metal substitution reaction in Ti_3SiC_2 for high-temperature-stable Ohmic contacts to SiC. Nature Materials, 2017, 16, 814-818.	13.3	142
117	Magnetic properties of nanolaminated $(\text{Mo}_{0.5}\text{Mn}_{0.5})_2\text{GaC}$ MAX phase. Journal of Applied Physics, 2017, 121, .	1.1	31
118	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.	5.8	525
119	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.	4.1	14
120	Macroparticle generation in DC arc discharge from a WC cathode. Journal of Applied Physics, 2017, 121, 103305.	1.1	10
121	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.	3.8	185
122	Dataset on the structure and thermodynamic and dynamic stability of $\text{Mo}_2\text{ScAlC}_2$ from experiments and first-principles calculations. Data in Brief, 2017, 10, 576-582.	0.5	3
123	Phase formation of nanolaminated Mo_2AuC and $\text{Mo}_2(\text{Au}_{1-x}\text{Ga}_x)_2\text{C}$ by a substitutional reaction within Au-capped Mo_2GaC and $\text{Mo}_2\text{Ga}_2\text{C}$ thin films. Nanoscale, 2017, 9, 17681-17687.	2.8	43
124	Prediction and synthesis of a family of atomic laminate phases with Kagomé-like and in-plane chemical ordering. Science Advances, 2017, 3, e1700642.	4.7	156
125	Gas rarefaction effects during high power pulsed magnetron sputtering of groups IVb and VIb transition metals in Ar. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	27
126	An investigation of the in-plane chemically ordered atomic laminates $(\text{Mo}_{2/3}\text{Sc}_{1/3})_2\text{AlC}$ and $(\text{Mo}_{2/3}\text{Y}_{1/3})_2\text{AlC}$ from first principles. Physical Chemistry Chemical Physics, 2017, 19, 21595-21603.	1.3	22

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127	Ti ₂ Au ₂ C and Ti ₃ Au ₂ C ₂ formed by solid state reaction of gold with Ti ₂ AlC and Ti ₃ AlC ₂ . Chemical Communications, 2017, 53, 9554-9557.	2.2	53
128	Thermally induced substitutional reaction of Fe into Mo ₂ GaC thin films. Materials Research Letters, 2017, 5, 533-539.	4.1	26
129	Theoretical and Experimental Exploration of a Novel In-Plane Chemically Ordered (Cr _{2/3} M _{1/3}) ₂ AlC <i>i</i> -MAX Phase with M = Sc and Y. Crystal Growth and Design, 2017, 17, 5704-5711.	1.4	79
130	Investigation of vacancy-ordered $M\text{o}_{1.33}\text{C}$ MXene from first principles and x-ray photoelectron spectroscopy. Physical Review Materials, 2017, 1, .	0.9	36
131	Thin film synthesis and characterization of a chemically ordered magnetic nanolaminate (V,Mn) ₃ GaC ₂ . APL Materials, 2016, 4, .	2.2	28
132	Magnetic MAX phases from theory and experiments; a review. Journal of Physics Condensed Matter, 2016, 28, 433003.	0.7	84
133	Long-range antiferromagnetic order in epitaxial Mn_2AlC films from neutron reflectometry. Physical Review B, 2016, 94, .	2.8	28
134	Magnetically driven anisotropic structural changes in the atomic laminate M_nGaC . Magnetic Resonance Interactions and critical temperature of the nanolaminate M_nGaC . Physical Review B, 2016, 93, .	1.1	44
135	Magnetically driven anisotropic structural changes in the atomic laminate M_nGaC . Physical Review B, 2016, 93, .	1.1	12
136	X-ray photoelectron spectroscopy of select multi-layered transition metal carbides (MXenes). Applied Surface Science, 2016, 362, 406-417.	3.1	1,369
137	Toward Structural Optimization of MAX Phases as Epitaxial Thin Films. Materials Research Letters, 2016, 4, 152-160.	4.1	30
138	Synthesis of the new MAX phase Zr ₂ AlC. Journal of the European Ceramic Society, 2016, 36, 1847-1853.	2.8	116
139	Theoretical stability, thin film synthesis and transport properties of the Mo _{n+1} GaC _n MAX phase. Physica Status Solidi - Rapid Research Letters, 2015, 9, 197-201.	1.2	28
140	Experimental and theoretical characterization of ordered MAX phases Mo ₂ TiAlC ₂ and Mo ₂ Ti ₂ AlC ₃ . Journal of Applied Physics, 2015, 118, .	1.1	217
141	A magnetic atomic laminate from thin film synthesis: (Mo _{0.5} Mn _{0.5}) ₂ GaC. APL Materials, 2015, 3, .	2.2	39
142	A theoretical investigation of mixing thermodynamics, age-hardening potential and electronic structure of ternary M ₁₁ xM ₂ xB ₂ alloys with AlB ₂ type structure. Scientific Reports, 2015, 5, 9888.	1.6	44
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