

Sankalp Kota

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

8,300
citations

172457

29
h-index

276875

41
g-index

41
all docs

41
docs citations

41
times ranked

7152
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction and wear characteristics of the nanolaminated ternary transition metal boride: Mn ₂ AlB ₂ . <i>Wear</i> , 2022, 492-493, 204232.	3.1	5
2	Effect of texturing on thermal, electric and elastic properties of MoAlB, Fe ₂ AlB ₂ , and Mn ₂ AlB ₂ . <i>Journal of the European Ceramic Society</i> , 2022, 42, 3183-3191.	5.7	18
3	Thermal stability of the nanolayered Fe ₂ AlB ₂ in nitrogen and argon atmospheres. <i>Journal of the American Ceramic Society</i> , 2021, 104, 733-739.	3.8	10
4	Synthesis, characterization and first principle modelling of the MAB phase solid solutions: (Mn _{1-x} Cr _x) ₂ AlB ₂ and (Mn _{1-x} Cr _x) ₃ AlB ₄ . <i>Materials Research Letters</i> , 2021, 9, 112-118.	8.7	17
5	Formation mechanisms of Cr ₂ AlB ₂ , Cr ₃ AlB ₄ , and Fe ₂ AlB ₂ MAB phases. <i>Materials Research Letters</i> , 2021, 9, 323-328.	8.7	23
6	Synthesis, characterization, properties, first principles calculations, and X-ray photoelectron spectroscopy of bulk Mn ₅ SiB ₂ and Fe ₅ SiB ₂ ternary borides. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161377.	5.5	8
7	X-ray photoelectron spectroscopy of the MAB phases, MoAlB, M ₂ AlB ₂ (M = Cr, Fe), Cr ₃ AlB ₄ and their binary monoborides. <i>Journal of the European Ceramic Society</i> , 2020, 40, 305-314.	5.7	51
8	A progress report on the MAB phases: atomically laminated, ternary transition metal borides. <i>International Materials Reviews</i> , 2020, 65, 226-255.	19.3	135
9	Magnetic and magnetocaloric properties of Fe ₂ AlB ₂ synthesized by single-step reactive hot pressing. <i>Scripta Materialia</i> , 2020, 188, 244-248.	5.2	26
10	Magnetic properties of $B_{2-x}Mn_2$. <i>Physical Review Materials</i> , 2020, 4, .	2.4	8
11	On the Chemical Diversity of the MAX Phases. <i>Trends in Chemistry</i> , 2019, 1, 210-223.	8.5	490
12	2D MXene-containing polymer electrolytes for all-solid-state lithium metal batteries. <i>Nanoscale Advances</i> , 2019, 1, 395-402.	4.6	117
13	Friction and wear properties of MoAlB against Al ₂ O ₃ and 100Cr6 steel counterparts. <i>Journal of the European Ceramic Society</i> , 2019, 39, 868-877.	5.7	48
14	Magnetic ordering in the nano-laminar ternary Mn ₂ AlB ₂ using neutron and X-ray diffraction. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 471, 468-474.	2.3	20
15	Compressive deformation of MoAlB up to 1100 °C. <i>Journal of Alloys and Compounds</i> , 2019, 774, 1216-1222.	5.5	26
16	Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of In-plane, Chemically Ordered MAX Phases. <i>Small</i> , 2018, 14, e1703676.	10.0	174
17	Alkali-induced crumpling of Ti ₃ C ₂ T _x (MXene) to form 3D porous networks for sodium ion storage. <i>Chemical Communications</i> , 2018, 54, 4533-4536.	4.1	135
18	Pressure-induced shear and interlayer expansion in Ti ₃ C ₂ MXene in the presence of water. <i>Science Advances</i> , 2018, 4, eaao6850.	10.3	75

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19	Conductive transparent V ₂ C _x (MXene) films. FlatChem, 2018, 8, 25-30.	5.6	123
20	Anisotropic thermal expansions of select layered ternary transition metal borides: MoAlB, Cr ₂ AlB ₂ , Mn ₂ AlB ₂ , and Fe ₂ AlB ₂ . Journal of Applied Physics, 2018, 124, .	2.5	39
21	Synthesis and characterization of the atomic laminate Mn ₂ AlB ₂ . Journal of the European Ceramic Society, 2018, 38, 5333-5340.	5.7	49
22	Magnetic properties of Cr ₂ AlB ₂ , Cr ₃ AlB ₄ , and CrB powders. Journal of Alloys and Compounds, 2018, 767, 474-482.	5.5	48
23	Two-Dimensional Titanium Carbide MXene As a Cathode Material for Hybrid Magnesium/Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4296-4300.	8.0	188
24	Alkylammonium Cation Intercalation into Ti ₃ C ₂ (MXene): Effects on Properties and Ion-Exchange Capacity Estimation. Chemistry of Materials, 2017, 29, 1099-1106.	6.7	188
25	First-order Raman scattering in three-layered Mo-based ternaries: MoAlB, Mo ₂ Ga ₂ C and Mo ₂ GaC. Journal of Raman Spectroscopy, 2017, 48, 631-638.	2.5	37
26	Two-dimensional Mo _{1.33} C MXene with divacancy ordering prepared from parent 3D laminate with in-plane chemical ordering. Nature Communications, 2017, 8, 14949.	12.8	525
27	Electrophoretic Deposition of Two-Dimensional Titanium Carbide (MXene) Thick Films. Journal of the Electrochemical Society, 2017, 164, D573-D580.	2.9	63
28	Isothermal and Cyclic Oxidation of MoAlB in Air from 1100°C to 1400°C. Journal of the Electrochemical Society, 2017, 164, C930-C938.	2.9	67
29	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. Nature Energy, 2017, 2, .	39.5	1,626
30	Elastic properties, thermal stability, and thermodynamic parameters of MoAlB. Physical Review B, 2017, 95, .	3.2	95
31	Atomic structure and lattice defects in nanolaminated ternary transition metal borides. Materials Research Letters, 2017, 5, 235-241.	8.7	86
32	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). Advanced Functional Materials, 2016, 26, 3118-3127.	14.9	945
33	Fabrication of Ti ₃ C ₂ T _x MXene Transparent Thin Films with Tunable Optoelectronic Properties. Advanced Electronic Materials, 2016, 2, 1600050.	5.1	587
34	Porous Two-Dimensional Transition Metal Carbide (MXene) Flakes for High-Performance Li-Ion Storage. ChemElectroChem, 2016, 3, 689-693.	3.4	452
35	Lithium-ion capacitors with 2D Nb ₂ C _x (MXene) carbon nanotube electrodes. Journal of Power Sources, 2016, 326, 686-694.	7.8	175
36	Synthesis of two-dimensional titanium nitride Ti ₄ N ₃ (MXene). Nanoscale, 2016, 8, 11385-11391.	5.6	878

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37	Ion-Exchange and Cation Solvation Reactions in Ti ₃ C ₂ MXene. Chemistry of Materials, 2016, 28, 3507-3514.	6.7	499
38	Structure and crystallization behavior of poly(ethylene oxide)/Ti ₃ C ₂ T _x MXene nanocomposites. Polymer, 2016, 102, 119-126.	3.8	77
39	Synthesis and Characterization of an Alumina Forming Nanolaminated Boride: MoAlB. Scientific Reports, 2016, 6, 26475.	3.3	141
40	On the Rapid Synthesis of the Ternary Mo ₂ GaC. Journal of the American Ceramic Society, 2015, 98, 2713-2715.	3.8	23