

Miladin Radovic

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114
papers

4,991
citations

34
h-index

69
g-index

117
ext. papers

6,098
ext. citations

6
avg, IF

5.89
L-index

#	Paper	IF	Citations
114	Elastic and Mechanical Properties of the MAX Phases. <i>Annual Review of Materials Research</i> , 2011 , 41, 195-227	12.8	673
113	Fully reversible, dislocation-based compressive deformation of Ti ₃ SiC ₂ to 1 GPa. <i>Nature Materials</i> , 2003 , 2, 107-11	27	304
112	Antioxidants Unlock Shelf-Stable Ti ₃ C ₂ T (MXene) Nanosheet Dispersions. <i>Matter</i> , 2019 , 1, 513-526	12.7	210
111	On the elastic properties and mechanical damping of Ti ₃ SiC ₂ , Ti ₃ GeC ₂ , Ti ₃ Si _{0.5} Al _{0.5} C ₂ and Ti ₂ AlC in the 300–1573 K temperature range. <i>Acta Materialia</i> , 2006 , 54, 2757-2767	8.4	201
110	Template-free 3D titanium carbide (TiCT) MXene particles crumpled by capillary forces. <i>Chemical Communications</i> , 2016 , 53, 400-403	5.8	195
109	Mechanical properties of tape cast nickel-based anode materials for solid oxide fuel cells before and after reduction in hydrogen. <i>Acta Materialia</i> , 2004 , 52, 5747-5756	8.4	187
108	Electrochemical etching of Ti ₂ AlC to Ti ₂ CT _x (MXene) in low-concentration hydrochloric acid solution. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21663-21668	13	186
107	Comparison of different experimental techniques for determination of elastic properties of solids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 368, 56-70	5.3	168
106	Oxidation stability of Ti ₃ C ₂ T _x MXene nanosheets in solvents and composite films. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	162
105	Surface-agnostic highly stretchable and bendable conductive MXene multilayers. <i>Science Advances</i> , 2018 , 4, eaaq0118	14.3	157
104	Effect of temperature, strain rate and grain size on the mechanical response of Ti ₃ SiC ₂ in tension. <i>Acta Materialia</i> , 2002 , 50, 1297-1306	8.4	117
103	Tensile properties of Ti ₃ SiC ₂ in the 25–300°C temperature range. <i>Acta Materialia</i> , 2000 , 48, 453-459	8.4	106
102	Water Sorption in MXene/Polyelectrolyte Multilayers for Ultrafast Humidity Sensing. <i>ACS Applied Nano Materials</i> , 2019 , 2, 948-955	5.6	99
101	Effects of Water Content and Chemical Composition on Structural Properties of Alkaline Activated Metakaolin-Based Geopolymers. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2169-2177	3.8	96
100	Microstructure and Residual Stress of Alumina Scale Formed on Ti ₂ AlC at High Temperature in Air. <i>Oxidation of Metals</i> , 2007 , 68, 97-111	1.6	90
99	Mechanical properties of sodium and potassium activated metakaolin-based geopolymers. <i>Journal of Materials Science</i> , 2012 , 47, 2607-2616	4.3	85
98	Long Time Oxidation Study of Ti ₃ SiC ₂ , Ti ₃ SiC ₂ /SiC, and Ti ₃ SiC ₂ /TiC Composites in Air. <i>Journal of the Electrochemical Society</i> , 2003 , 150, B166	3.9	83

97	Tensile creep of coarse-grained Ti ₃ SiC ₂ in the 1000–200°C temperature range. <i>Journal of Alloys and Compounds</i> , 2003 , 361, 299-312	5.7	82
96	Tensile creep of fine grained (3B Th) Ti ₃ SiC ₂ in the 1000–200°C temperature range. <i>Acta Materialia</i> , 2001 , 49, 4103-4112	8.4	79
95	Long-Term Oxidation of Ti ₂ AlC in Air and Water Vapor at 1000–300°C Temperature Range. <i>Journal of the Electrochemical Society</i> , 2011 , 159, C90-C96	3.9	77
94	Compressive creep of fine and coarse-grained T ₃ SiC ₂ in air in the 1100–300 °C temperature range. <i>Acta Materialia</i> , 2005 , 53, 4963-4973	8.4	65
93	Processing and characterization of porous Ti ₂ AlC with controlled porosity and pore size. <i>Acta Materialia</i> , 2012 , 60, 6266-6277	8.4	63
92	Elastic properties, thermal stability, and thermodynamic parameters of MoAlB. <i>Physical Review B</i> , 2017 , 95,	3.3	62
91	Elastic properties and phonon conductivities of Ti ₃ Al(C _{0.5} ,N _{0.5}) ₂ and Ti ₂ Al(C _{0.5} ,N _{0.5}) solid solutions. <i>Journal of Materials Research</i> , 2008 , 23, 1517-1521	2.5	54
90	Elastic Properties of Nickel-Based Anodes for Solid Oxide Fuel Cells as a Function of the Fraction of Reduced NiO. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 2242-2246	3.8	52
89	Thermal and mechanical properties of Al/Al ₂ O ₃ composites at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 531, 18-27	5.3	47
88	Tape Casting, Pressureless Sintering, and Grain Growth in Ti ₃ SiC ₂ Compacts. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 550-556	3.8	47
87	Ti ₃ SiC ₂ and ice. <i>Applied Physics Letters</i> , 2001 , 79, 479-481	3.4	47
86	Process Safety Analysis for Ti ₃ C ₂ T _x MXene Synthesis and Processing. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1570-1579	3.9	44
85	Structural, physical and mechanical properties of Ti ₃ (Al _{1-x} Si _x)C ₂ solid solution with x=0. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 676, 197-208	5.3	42
84	Mechanical properties and residual stresses in ZrB ₂ SiC spark plasma sintered ceramic composites. <i>Journal of the European Ceramic Society</i> , 2016 , 36, 1527-1537	6	41
83	Thermal, mechanical and phase stability of LaCoO ₃ in reducing and oxidizing environments. <i>Journal of Power Sources</i> , 2008 , 184, 77-83	8.9	40
82	Isothermal and Cyclic Oxidation of MoAlB in Air from 1100°C to 1400°C. <i>Journal of the Electrochemical Society</i> , 2017 , 164, C930-C938	3.9	37
81	Thermal and mechanical properties of LaCoO ₃ and La _{0.8} Ca _{0.2} CoO ₃ perovskites. <i>Journal of Power Sources</i> , 2008 , 182, 230-239	8.9	35
80	High-throughput combinatorial study of the effect of M site alloying on the solid solution behavior of M ₂ AlC MAX phases. <i>Physical Review B</i> , 2016 , 94,	3.3	32

79	pH, Nanosheet Concentration, and Antioxidant Affect the Oxidation of Ti ₃ C ₂ T _x and Ti ₂ CT _x MXene Dispersions. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000845	4.6	31
78	Fabrication and characterization of NiTi/Ti ₃ SiC ₂ and NiTi/Ti ₂ AlC composites. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 635-644	5.7	30
77	Compressive performance and crack propagation in Al alloy/Ti ₂ AlC composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 672, 247-256	5.3	29
76	Room temperature stress-strain hysteresis in Ti ₂ AlC revisited. <i>Acta Materialia</i> , 2016 , 105, 294-305	8.4	29
75	Synthesis and characterization of the atomic laminate Mn ₂ AlB ₂ . <i>Journal of the European Ceramic Society</i> , 2018 , 38, 5333-5340	6	29
74	Finite-temperature elasticity of fcc Al: Atomistic simulations and ultrasonic measurements. <i>Physical Review B</i> , 2011 , 84,	3.3	29
73	Electron-backscattered diffraction and transmission electron microscopy study of post-creep Ti ₃ SiC ₂ . <i>Journal of Alloys and Compounds</i> , 2009 , 488, 181-189	5.7	29
72	The Reactivity of Ti ₂ AlC and Ti ₃ SiC ₂ with SiC Fibers and Powders up to Temperatures of 1550°C. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1737-1743	3.8	27
71	Effects of microstructure on the mechanical properties of Ti ₂ AlC in compression. <i>Acta Materialia</i> , 2018 , 143, 130-140	8.4	25
70	A new electrolyte based on Tm ³⁺ -doped Bi ₂ O ₃ -type phase with enhanced conductivity. <i>Solid State Ionics</i> , 2015 , 280, 18-23	3.3	24
69	Heating of TiCT MXene/polymer composites in response to Radio Frequency fields. <i>Scientific Reports</i> , 2019 , 9, 16489	4.9	23
68	Thermal expansion and elastic moduli of electrolyte materials for high and intermediate temperature solid oxide fuel cell. <i>Solid State Ionics</i> , 2017 , 300, 1-9	3.3	23
67	Layer-by-Layer Assembly of Reduced Graphene Oxide and MXene Nanosheets for Wire-Shaped Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14068-14076	9.5	23
66	Interfacial study of NiTi/Ti ₃ SiC ₂ solid state diffusion bonded joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 622, 168-177	5.3	22
65	High strain-rate response and deformation mechanisms in polycrystalline Ti ₂ AlC. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 598, 319-326	5.3	22
64	Residual stresses in spot welded new generation aluminium alloys Part A Thermophysical and thermomechanical properties of 6111 and 5754 aluminium alloys. <i>Science and Technology of Welding and Joining</i> , 2005 , 10, 82-87	3.7	22
63	High-Performance Metal/Carbide Composites with Far-From-Equilibrium Compositions and Controlled Microstructures. <i>Scientific Reports</i> , 2016 , 6, 35523	4.9	21
62	On characterizing the mechanical properties of aluminum/alumina composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 590, 352-359	5.3	20

61	Layer-by-Layer Assembly of Polyaniline Nanofibers and MXene Thin-Film Electrodes for Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47929-47938	9.5	20
60	Rapid Heating of Silicon Carbide Fibers under Radio Frequency Fields and Application in Curing Preceramic Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46132-46139	9.5	19
59	Compressive deformation of MoAlB up to 1100 °C. <i>Journal of Alloys and Compounds</i> , 2019 , 774, 1216-1227	5.7	19
58	Influence of porosity on elastic properties of Ti ₂ AlC and Ti ₃ SiC ₂ MAX phase foams. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 24-35	5.7	18
57	Current-Activated, Pressure-Assisted Infiltration: A Novel, Versatile Route for Producing Interpenetrating Ceramic/Metal Composites. <i>Materials Research Letters</i> , 2014 , 2, 124-130	7.4	18
56	pH-Response of polycation/Ti ₃ C ₂ T _x MXene layer-by-layer assemblies for use as resistive sensors. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 366-375	4.6	18
55	Active Cooling of a Microvascular Shape Memory Alloy-Polymer Matrix Composite Hybrid Material. <i>Advanced Engineering Materials</i> , 2016 , 18, 1145-1153	3.5	17
54	Thermo-mechanical Response and Damping Behavior of Shape Memory Alloy/MAX Phase Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2646-2658	2.3	17
53	Phase Evaluation in Al ₂ O ₃ Fiber-Reinforced Ti ₂ AlC During Sintering in the 1300°C-1500°C Temperature Range. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3327-3334	3.8	17
52	Ab initio investigation of Ti ₂ Al(C,N) solid solutions. <i>Physical Review B</i> , 2011 , 84,	3.3	17
51	Does aluminum play well with others? Intrinsic Al-A alloying behavior in 211/312 MAX phases. <i>Materials Research Letters</i> , 2017 , 5, 170-178	7.4	16
50	Temperature-dependent thermal properties of a shape memory alloy/MAX phase composite: Experiments and modeling. <i>Acta Materialia</i> , 2014 , 68, 267-278	8.4	14
49	Hexagonal OsB ₂ : Sintering, microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2015 , 634, 168-178	5.7	14
48	Evaluation of defects in materials using resonant ultrasound spectroscopy. <i>Journal of Materials Science</i> , 2011 , 46, 2548-2556	4.3	14
47	Radio Frequency and Microwave Heating of Preceramic Polymer Nanocomposites with Applications in Mold-Free Processing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900276	3.5	13
46	On the stochastic phase stability of TiAlC-CrAlC. <i>Scientific Reports</i> , 2017 , 7, 5138	4.9	13
45	Mechanical response of fine grained Ti ₂ AlC under extreme thermo-mechanical loading conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 658, 176-184	5.3	12
44	Mechanical properties and microstructure evolution of Ti ₂ AlC under compression in 25-100°C temperature range. <i>Acta Materialia</i> , 2020 , 189, 154-165	8.4	11

43	Annealed Ti ₃ C ₂ T _z MXene Films for Oxidation-Resistant Functional Coatings. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10578-10585	5.6	11
42	The Effect of Grain Size on Deformation and Failure of Ti ₂ AlC MAX Phase under Thermo-Mechanical Loading. <i>Experimental Mechanics</i> , 2017 , 57, 675-685	2.6	9
41	On thermal and vibrational properties of LaGaO ₃ single crystals. <i>Acta Materialia</i> , 2009 , 57, 2984-2992	8.4	9
40	One-step hydrothermal synthesis of porous TiCT MXene/rGO gels for supercapacitor applications. <i>Nanoscale</i> , 2021 , 13, 16543-16553	7.7	9
39	Hydrogen evolution in acid solution at Pd electrodeposited onto Ti ₂ AlC. <i>Electrochimica Acta</i> , 2017 , 224, 571-584	6.7	8
38	Ab-initio investigation of the finite-temperatures structural, elastic, and thermodynamic properties of Ti ₃ AlC ₂ and Ti ₃ SiC ₂ . <i>Computational Materials Science</i> , 2016 , 124, 420-427	3.2	8
37	Minimizing two-dimensional TiCT MXene nanosheet loading in carbon-free silicon anodes. <i>Nanoscale</i> , 2020 , 12, 20699-20709	7.7	8
36	Non-classical crystallographic slip in a ternary carbide Ti ₂ AlC. <i>Materials Research Letters</i> , 2020 , 8, 275-281	7.4	7
35	Low-Temperature Formation of Ultra-High-Temperature Transition Metal Carbides from Salt-Polymer Precursors. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 2222-2228	3.8	7
34	Room temperature constant-stress creep of a brittle solid studied by spherical nanoindentation. <i>Journal of Applied Physics</i> , 2008 , 104, 063522	2.5	7
33	Oxidative Stability of Nbn+1CnTz MXenes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13990-13996	3.8	7
32	High-throughput reaction engineering to assess the oxidation stability of MAX phases. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	7
31	A nonlinear constitutive model for describing cyclic mechanical responses of (hbox {BaTiO}_{3}/hbox {Ag}) composites. <i>Acta Mechanica</i> , 2017 , 228, 2017-2032	2.1	6
30	Spark Plasma Sintered BC-Structural, Thermal, Electrical and Mechanical Properties. <i>Materials</i> , 2020 , 13,	3.5	6
29	The effect of microstructural morphology on the elastic, inelastic, and degradation behaviors of aluminum/alumina composites. <i>Mechanics Research Communications</i> , 2014 , 57, 49-56	2.2	6
28	Sustainability Benefits Assessment of Metakaolin-Based Geopolymer Treatment of High Plasticity Clay. <i>Sustainability</i> , 2020 , 12, 10495	3.6	6
27	Electronic and Optical Property Control of Polycation/MXene Layer-by-Layer Assemblies with Chemically Diverse MXenes. <i>Langmuir</i> , 2021 , 37, 11338-11350	4	6
26	High-temperature dependency of elastic mechanical behavior of two wrought magnesium alloys AZ31B and ZK60A studied by resonant ultrasound spectroscopy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 758, 86-95	5.3	5

25	Improvement of Strength and Volume-Change Properties of Expansive Clays with Geopolymer Treatment. <i>Transportation Research Record</i> ,036119812110018	1.7	5
24	On the origin of kinking in layered crystalline solids. <i>Materials Today</i> , 2021 , 43, 45-52	21.8	5
23	Design and development of ring-on-ring jig for biaxial strength testing of brittle ceramic composite materials: ZrB ₂ -30wt-%SiB ₆ . <i>Advances in Applied Ceramics</i> , 2019 , 118, 159-168	2.3	4
22	Water-dispersible Ti ₃ C ₂ T _z MXene nanosheets by molten salt etching. <i>IScience</i> , 2021 , 24, 103403	6.1	4
21	Spark plasma sintering of hydrothermally synthesized bismuth ferrite. <i>Processing and Application of Ceramics</i> , 2016 , 10, 257-264	1.4	4
20	Flocculation of MXenes and Their Use as 2D Particle Surfactants for Capsule Formation. <i>Langmuir</i> , 2021 , 37, 2649-2657	4	4
19	Out-of-plane ordering in quaternary MAX alloys: an alloy theoretic perspective. <i>Materials Research Letters</i> , 2018 , 6, 1-12	7.4	3
18	On the non-classical crystallographic slip in Tin+1AlC _n MAX phases. <i>Scripta Materialia</i> , 2021 , 194, 113698-5.6	5.6	3
17	Time and frequency dependent mechanical properties of LaCoO ₃ -based perovskites: Internal friction and negative creep. <i>Journal of Applied Physics</i> , 2018 , 124, 205103	2.5	3
16	Characterization of thermal transport properties of Ag/BaTiO ₃ composites using hot disk: Numerical simulations. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 599-608	4.9	2
15	Minimal effect of stacking number on intrinsic cleavage and shear behavior of Tin+1AlC _n and Tan+1AlC _n MAX phases. <i>Journal of Applied Physics</i> , 2018 , 123, 225102	2.5	2
14	Synthesis and Electronic Applications of Particle-Templated TiCT MXene-Polymer Films via Pickering Emulsion Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51556-51566	9.5	2
13	Carbon Additive-Free Crumpled Ti ₃ C ₂ T _x MXene-Encapsulated Silicon Nanoparticle Anodes for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 10762-10773	6.1	2
12	Interparticle interactions and rheological signatures of TiCT MXene dispersions. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 120-128	9.3	2
11	Room temperature crack-healing in an atomically layered ternary carbide. <i>Science Advances</i> , 2021 , 7,	14.3	1
10	Evaluation of Alternative Sources of Supplementary Cementitious Materials for Concrete Materials. <i>Transportation Research Record</i> ,036119812210743	1.7	1
9	Rapid Synthesis of Patterned Silicon Carbide Coatings Using Laser-Induced Pyrolysis and Crystallization of Polycarbosilane. <i>Advanced Engineering Materials</i> ,2101383	3.5	0
8	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, 3183-3183	6	0

7	Fabrication and characterization of aluminum - magnetic shape memory alloy composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140549	5.3	0
6	Anion Identity and Time Scale Affect the Cation Insertion Energy Storage Mechanism in Ti3C2Tx MXene Multilayers. <i>ACS Energy Letters</i> , 2022 , 7, 1828-1834	20.1	0
5	Evaluation of Geopolymer for Stabilization of Sulfate-Rich Expansive Soils for Supporting Pavement Infrastructure. <i>Transportation Research Record</i> ,036119812210866	1.7	0
4	Applicability of Probabilistic Analyses to Assess the Structural Reliability of Materials and Components for Solid-Oxide Fuel Cells 2015 , 46-58		
3	Effect of Student-Led Undergraduate Research Experience on Learning and Attitudes & Practice in An Introductory Materials Science Course. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1657, 38		
2	Processing and properties of ceramic yttrium manganite sintered by different methods. <i>Science of Sintering</i> , 2021 , 53, 485-496	0.7	
1	Effect of Sand Type and PVA Fiber Content on the Properties of Metakaolin Based Engineered Geopolymer Composites. <i>Transportation Research Record</i> ,036119812110299	1.7	