

Sri Ram Vijayan

List of Publications by Year in descending order

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31
papers

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#	ARTICLE	IF	CITATIONS
1	Focused Ion Beam Preparation of Specimens for Micro-Electro-Mechanical System-based Transmission Electron Microscopy Heating Experiments. <i>Microscopy and Microanalysis</i> , 2017, 23, 708-716.	0.4	36
2	The effect of beam scan strategies on microstructural variations in Ti-6Al-4V fabricated by electron beam powder bed fusion. <i>Materials and Design</i> , 2020, 196, 109165.	7.0	28
3	Electrostatically driven dielectric anomaly in mesoscopic ferroelectric-paraelectric bilayers. <i>Acta Materialia</i> , 2016, 105, 68-74.	7.9	23
4	Temperature calibration of TEM specimen heating holders by isothermal sublimation of silver nanocubes. <i>Ultramicroscopy</i> , 2019, 196, 142-153.	1.9	19
5	Shock-induced deformation twinning and softening in magnesium single crystals. <i>Materials and Design</i> , 2020, 194, 108884.	7.0	17
6	Studies of thermally activated processes in gas-atomized Al alloy powders: in situ STEM heating experiments on FIB-cut cross sections. <i>Journal of Materials Science</i> , 2019, 54, 9921-9932.	3.7	16
7	Magnetic and tunable dielectric properties of DyCrO ₃ thin films. <i>Journal of Materials Science</i> , 2019, 54, 8984-8994.	3.7	14
8	Microstructural stability and phase transformations in electrodeposited cobalt-phosphorus coatings. <i>Journal of Alloys and Compounds</i> , 2017, 719, 142-150.	5.5	11
9	A low-cost, low-density, and corrosion resistant AlFeMnSi compositionally complex alloy. <i>Npj Materials Degradation</i> , 2021, 5, .	5.8	11
10	Precipitation phenomena in a powder-processed quasicrystal-reinforced Al-Cr-Mn-Co-Zr alloy. <i>Materials Characterization</i> , 2021, 178, 111239.	4.4	11
11	Adhesive Microcrystalline Diamond Coating on Surface Modified Non-Carbide Forming Substrate Using Hot Filament CVD. <i>Materials Express</i> , 2012, 2, 115-120.	0.5	10
12	Role of thermo-mechanical gyrations on the \hat{I}_1/\hat{I}_2 interface stability in a Ti6Al4V AM alloy. <i>Scripta Materialia</i> , 2021, 204, 114134.	5.2	10
13	Superelastic and micaceous deformation in the intermetallic compound CaFe ₂ As ₂ . <i>Scripta Materialia</i> , 2017, 141, 10-14.	5.2	8
14	Strong, ductile, and thermally stable Cu-based metal-intermetallic nanostructured composites. <i>Scientific Reports</i> , 2017, 7, 40409.	3.3	6
15	Metalorganic solution deposition of lead zirconate titanate films onto an additively manufactured Ni-based superalloy. <i>Acta Materialia</i> , 2017, 122, 352-358.	7.9	5
16	Hydrogen annealing effects on local structures and oxidation states of atomic layer deposited SnO _x . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, .	2.1	5
17	A Nanoindentation Study of the Plastic Deformation and Fracture Mechanisms in Single-Crystalline CaFe ₂ As ₂ . <i>Jom</i> , 2018, 70, 1074-1080.	1.9	4
18	Uniaxial compression of [001]-oriented CaFe ₂ As ₂ single crystals: the effects of microstructure and temperature on superelasticity Part I: Experimental observations. <i>Acta Materialia</i> , 2021, 203, 116464.	7.9	4

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19	Quantification of extreme thermal gradients during in situ transmission electron microscope heating experiments. <i>Microscopy Research and Technique</i> , 2022, 85, 1527-1537.	2.2	4
20	<i>In Situ</i> Heating to Investigate Phase Transformations in Individual Powder Particles of a Gas-Atomized Icosahedral-Phase-Strengthened Al Alloy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1432-1433.	0.4	2
21	The Effect of Beam Scan Strategies on the Microstructure of EBM Additively Manufactured Inconel 738. <i>Microscopy and Microanalysis</i> , 2020, 26, 2940-2941.	0.4	2
22	Towards the Development of a Multi-Modal Community-Based AM Database. <i>Microscopy and Microanalysis</i> , 2021, 27, 1090-1091.	0.4	2
23	In Situ TEM Heating Experiments on PVP-Capped Silver Nano-Cubes. <i>Microscopy and Microanalysis</i> , 2016, 22, 822-823.	0.4	1
24	TEM Specimen Preparation for In Situ Heating Experiments Using FIB. <i>Microscopy and Microanalysis</i> , 2017, 23, 294-295.	0.4	1
25	Atomic layer adhesion of ferroelectric nanoparticles: a new approach to dielectric composites. <i>Journal of Materials Science</i> , 2020, 55, 16063-16073.	3.7	1
26	Uniaxial compression of [001]-oriented CaFe ₂ As ₂ single crystals: the effect of microstructure and temperature on superelasticity Part II: Modeling. <i>Acta Materialia</i> , 2021, 203, 116462.	7.9	1
27	The effect of beam scan strategies on the microstructure and mechanical properties of additive manufacturing Ti-6Al-4V builds. <i>Microscopy and Microanalysis</i> , 2021, 27, 2682-2684.	0.4	1
28	Fractographic Analysis of Co-P-SiC Electrocomposite Coatings by Stereoscopic Reconstruction. <i>Microscopy and Microanalysis</i> , 2014, 20, 1884-1885.	0.4	0
29	In situ S/TEM Heating Experiments to Study the Effects of Cyclic Thermal Gradients in Additive Manufacturing Build Processes. <i>Microscopy and Microanalysis</i> , 2019, 25, 1864-1865.	0.4	0
30	Quantitative Study on the Effect of Thermal Gradients on the Microstructure of Additively Manufactured Ti-6Al-4V Builds. <i>Microscopy and Microanalysis</i> , 2019, 25, 2598-2599.	0.4	0
31	Investigation of Solid-state Transformations Under Extreme Thermal Transients Using In-situ TEM Heating Experiments. <i>Microscopy and Microanalysis</i> , 2020, 26, 2032-2033.	0.4	0