Sairam Malladi

List of Publications by Year
in descending order

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19	822	623734	794594
papers	citations	14 h-index	19 g-index

19	19	19	1485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of ultrafine grained cobalt-free AlCrFe2Ni2 high entropy alloy with superior mechanical properties by thermo-mechanical processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142190.	5.6	29
2	Severe warm-rolling mediated microstructure and texture of equiatomic CoCrFeMnNi high entropy alloy: A comparison with cold-rolling. Intermetallics, 2021, 129, 107029.	3.9	15
3	Syntheses of five new layered quaternary chalcogenides SrScCuSe₃, SrScCuTe₃, BaScCuSe₃, BaScCuTe₃, and BaScAgTe₃: crystal structures, thermoelectric properties, and electronic structures. Inorganic Chemistry Frontiers, 2021, 8, 4086-4101.	6.0	37
4	Microstructure and texture of CoCrNi medium entropy alloy (MEA) processed by severe cryo-rolling: A study vis-a-vis cold-rolling. Intermetallics, 2021, 138, 107345.	3.9	15
5	InSb nanoparticles dispersion in Yb-filled Co4Sb12 improves the thermoelectric performance. Journal of Alloys and Compounds, 2021, 880, 160532.	5.5	7
6	Designing Reliable Operando TEM Experiments to Study (De)lithiation Mechanism of Battery Electrodes. Journal of the Electrochemical Society, 2019, 166, A3384-A3386.	2.9	2
7	Single Electron Precision in the Measurement of Charge Distributions on Electrically Biased Graphene Nanotips Using Electron Holography. Nano Letters, 2019, 19, 4091-4096.	9.1	4
8	Nanostructured Siliconâ€“Carbon 3D Electrode Architectures for High-Performance Lithium-Ion Batteries. ACS Omega, 2018, 3, 9598-9606.	3.5	23
9	Distortion of DNA Origami on Graphene Imaged with Advanced TEM Techniques. Small, 2017, 13, 1700876.	10.0	19
10	Nanometre-scale evidence for interfacial dissolutionâ€“reprecipitation control of silicate glass corrosion. Nature Materials, 2015, 14, 307-311.	27.5	227
11	Real-Time Atomic Scale Imaging of Nanostructural Evolution in Aluminum Alloys. Nano Letters, 2014, 14, 384-389.	9.1	27
12	A simple approach for PtNiâ€“MWCNT hybrid nanostructures as high performance electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 692-698.	10.3	59
13	Tailoring the hydrophobicity of graphene for its use as nanopores for DNA translocation. Nature Communications, 2013, 4, 2619.	12.8	171
14	Localised corrosion in aluminium alloy 2024-T3 using in situ TEM. Chemical Communications, 2013, 49, 10859.	4.1	23
15	Quasi in situ analytical TEM to investigate electrochemically induced microstructural changes in alloys: AA2024-T3 as an example. Corrosion Science, 2013, 69, 221-225.	6.6	31
16	Controllable Atomic Scale Patterning of Freestanding Monolayer Graphene at Elevated Temperature. ACS Nano, 2013, 7, 1566-1572.	14.6	104
17	Novel nanosample preparation with a helium ion microscope. Journal of Materials Research, 2013, 28, 1013-1020.	2.6	14
18	Early stages during localized corrosion of AA2024 TEM specimens in chloride environment. Surface and Interface Analysis, 2013, 45, 1619-1625.	1.8	14

#	Article	IF	Citations
19	Application of the Helium Ion Microscope as a Sculpting Tool for Nanosamples. Materials Research Society Symposia Proceedings, 2012, 1455, 55.	0.1	1