

Sairam Malladi

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

822
citations

623734

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794594

19
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19
all docs

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docs citations

19
times ranked

1485
citing authors

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

#	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