

Chanchal Ghosh

List of Publications by Year in descending order

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47
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing Li in partially lithiated layer materials using atomic-resolution imaging, modeling, and simulation. Journal of the American Ceramic Society, 2022, 105, 1581.	3.8	1
2	Analysis of structural transformation in nanocrystalline Y2O3 during high energy ball milling. Journal of Alloys and Compounds, 2022, 900, 163550.	5.5	6
3	Unraveling the Complexity of Nano-Dispersoids in the Oxide Dispersion Strengthened Alloy 617. Microscopy and Microanalysis, 2022, 28, 1463-1471.	0.4	3
4	Novel reduced-activation TiVCrFe based high entropy alloys. Journal of Alloys and Compounds, 2021, 856, 157399.	5.5	20
5	Imaging Dislocation Cores in Severe Plastically Deformed Nanocrystalline CP-Ti Alloy Through Geometrical Phase Analysis of Spherical Aberration-Corrected HRTEM Images. Springer Proceedings in Materials, 2021, , 65-75.	0.3	1
6	Phase evolution and structural modulation during in situ lithiation of MoS2, WS2 and graphite in TEM. Scientific Reports, 2021, 11, 9014.	3.3	10
7	Effect of oxygen interstitials on structural stability in refractory metals (V, Mo, W) from DFT calculations. European Physical Journal B, 2021, 94, 1.	1.5	1
8	Direct Visualization of the Earliest Stages of Crystallization. Microscopy and Microanalysis, 2021, 27, 659-665.	0.4	2
9	Reversible Phase Transformations during In-Situ Heating of Uncapped Ge2Sb2Te5 Films. Microscopy and Microanalysis, 2021, 27, 2412-2414.	0.4	0
10	TEM Studies of Nanoscale Phase Transformation during in-situ reaction of Li with 2D Materials (MoS2,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.4	0
11	Investigation of Phase Transformations in Ge4Sb4Te5 film using Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 1240-1242.	0.4	0
12	In-situ TEM Studies of Structural Modification in WS₂ during Intercalation of Li and Na. Microscopy and Microanalysis, 2021, 27, 654-656.	0.4	1
13	TEM Studies of Segregation in a Geâ€“Sbâ€“Te Alloy During Heating. Springer Proceedings in Materials, 2021, , 105-114.	0.3	0
14	Synthesis and structural characterisation of Y2Ti2O7 using microwave hydrothermal route. Journal of Alloys and Compounds, 2020, 814, 152273.	5.5	14
15	In situ TEM study of crystallization and chemical changes in an oxidized uncapped Ge2Sb2Te5 film. Journal of Applied Physics, 2020, 128, 124505.	2.5	7
16	Defect Imaging and Structure Evolution in GST Films During In-situ Heating. Microscopy and Microanalysis, 2020, 26, 1396-1398.	0.4	4
17	Phase Stability and Microstructural Evolution in Vanadium-Titanium Alloys with Oxygen Dissolution and Varying Titanium-content. Microscopy and Microanalysis, 2020, 26, 2086-2088.	0.4	1
18	Direct Observation of Phase Transformations in Ge-Sb-Te Materials. Microscopy and Microanalysis, 2020, 26, 1418-1420.	0.4	5

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19	Structures of Layered Materials After Reaction with Li/Na. <i>Microscopy and Microanalysis</i> , 2020, 26, 2356-2357.	0.4	3
20	HRTEM and EELS Studies on the Structural and Chemical Modification of MoS ₂ and Graphite During In-situ Reactions with Li and Na. <i>Microscopy and Microanalysis</i> , 2020, 26, 2410-2412.	0.4	3
21	Mechanisms of Fatigue Endurance in Alloy 617M at Different Temperatures (300-1023ÅK). <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5663-5671.	2.5	7
22	Role of Oxygen on Chemical Segregation in Uncapped Ge ₂ Sb ₂ Te ₅ Thin Films on Silicon Nitride. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 054007.	1.8	11
23	Structural investigations of Y ₂ O ₃ dispersoids during mechanical milling and high-temperature annealing of Fe-15Y ₂ O ₃ -xTi (xÅ=Å0Å€“15) model ODS alloys. <i>Advanced Powder Technology</i> , 2020, 31, 1665-1673. ^{4.1}	4.1	8
24	Phase Formation and Microstructural Evaluation in V-Ti-Cr System Using Advanced Microscopy Analysis. <i>Microscopy and Microanalysis</i> , 2019, 25, 2280-2281.	0.4	0
25	Experimental and theoretical study of microstructural characteristics and phase stability in equiatomic CrFeMoV alloy. <i>Materials Characterization</i> , 2019, 154, 449-457.	4.4	2
26	Optimisation of high energy ball milling parameters to synthesize oxide dispersion strengthened Alloy 617 powder and its characterization. <i>Advanced Powder Technology</i> , 2019, 30, 2320-2329.	4.1	10
27	Development of a novel ZrO ₂ dispersion strengthened 9Cr ferritic steel: Characterization of milled powder and subsequent annealing behavior. <i>Powder Technology</i> , 2018, 327, 267-274.	4.2	9
28	Direct structure imaging of partially collapsed omega domains in phase-separated VÅ€“Ti alloy through atom column contrast interpretation. <i>Journal of Materials Science</i> , 2018, 53, 13186-13202.	3.7	4
29	Microstructural and microchemical studies of phase stability in V-O solid solution. <i>Materials Characterization</i> , 2017, 124, 129-135.	4.4	4
30	Freeze drying vs microwave dryingÅ€“ methods for synthesis of sinteractive thoria powders. <i>Journal of Nuclear Materials</i> , 2017, 484, 51-58.	2.7	9
31	Phase and Microstructure Evolution in V-Ti-(Cr/W) Alloys. <i>Materials Today: Proceedings</i> , 2016, 3, 2920-2925.	1.8	0
32	Phase separation and Å% transformation in binary V-Ti and ternary V-Ti-Cr alloys. <i>Acta Materialia</i> , 2016, 121, 310-324.	7.9	23
33	Alloy design and microstructural evolution in VÅ€“TiÅ€“Cr alloys. <i>Materials Characterization</i> , 2015, 106, 292-301.	4.4	17
34	Influence of CeO ₂ layer thickness on the properties of CeO ₂ /Gd ₂ O ₃ multilayers prepared by pulsed laser deposition. <i>Vacuum</i> , 2015, 113, 64-74.	3.5	3
35	Effect of substrate heating and microwave attenuation on the catalyst free growth and field emission of carbon nanotubes. <i>Carbon</i> , 2015, 94, 256-265.	10.3	27
36	Thermal stability and thermal expansion behaviour of ZrO ₂ /Y ₂ O ₃ multilayers deposited by pulsed laser deposition technique. <i>Materials Chemistry and Physics</i> , 2015, 162, 592-607.	4.0	9

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37	Structure imaging and vanadium substitution in cubic TiCr ₂ Laves phase. Philosophical Magazine, 2015, 95, 2403-2426.	1.6	9
38	HRTEM investigation of phase stability in alumina/zirconia multilayer thin films. Bulletin of Materials Science, 2015, 38, 401-407.	1.7	2
39	X-ray diffraction, Raman and photoluminescence studies of nanocrystalline cerium oxide thin films. Ceramics International, 2013, 39, 8327-8333.	4.8	59
40	Synthesis and Structural Characterization of V ₄ Ti ₄ Cr Alloy. Transactions of the Indian Institute of Metals, 2013, 66, 381-385.	1.5	7
41	Structural characterization of electrodeposited boron. Bulletin of Materials Science, 2013, 36, 1323-1329.	1.7	10
42	Electroextraction of boron from boron carbide scrap. Materials Characterization, 2013, 84, 134-141.	4.4	4
43	Characterization of Al ₂ O ₃ /ZrO ₂ nano multilayer thin films prepared by pulsed laser deposition. Materials Chemistry and Physics, 2012, 133, 299-303.	4.0	10
44	Blue green and UV emitting ZnO nanoparticles synthesized through a non-aqueous route. Optical Materials, 2012, 34, 1241-1245.	3.6	32
45	Optical and Raman scattering studies on SnS nanoparticles. Journal of Alloys and Compounds, 2011, 509, 5843-5847.	5.5	151
46	Synthesis and characterization of SnS nanosheets through simple chemical route. Materials Letters, 2011, 65, 1148-1150.	2.6	35
47	Thermal stability of CeO ₂ /ZrO ₂ multilayer thin films prepared by pulsed laser deposition. Transactions of the Indian Institute of Metals, 2011, 64, 297-299.	1.5	2