

Chanchal Ghosh

List of Publications by Year in descending order

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47
times ranked

832
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical and Raman scattering studies on SnS nanoparticles. Journal of Alloys and Compounds, 2011, 509, 5843-5847.	5.5	151
2	X-ray diffraction, Raman and photoluminescence studies of nanocrystalline cerium oxide thin films. Ceramics International, 2013, 39, 8327-8333.	4.8	59
3	Synthesis and characterization of SnS nanosheets through simple chemical route. Materials Letters, 2011, 65, 1148-1150.	2.6	35
4	Blue green and UV emitting ZnO nanoparticles synthesized through a non-aqueous route. Optical Materials, 2012, 34, 1241-1245.	3.6	32
5	Effect of substrate heating and microwave attenuation on the catalyst free growth and field emission of carbon nanotubes. Carbon, 2015, 94, 256-265.	10.3	27
6	Phase separation and β transformation in binary V-Ti and ternary V-Ti-Cr alloys. Acta Materialia, 2016, 121, 310-324.	7.9	23
7	Novel reduced-activation TiVCrFe based high entropy alloys. Journal of Alloys and Compounds, 2021, 856, 157399.	5.5	20
8	Alloy design and microstructural evolution in V-Ti-Cr alloys. Materials Characterization, 2015, 106, 292-301.	4.4	17
9	Synthesis and structural characterisation of Y ₂ Ti ₂ O ₇ using microwave hydrothermal route. Journal of Alloys and Compounds, 2020, 814, 152273.	5.5	14
10	Role of Oxygen on Chemical Segregation in Uncapped Ge ₂ Sb ₂ Te ₅ Thin Films on Silicon Nitride. ECS Journal of Solid State Science and Technology, 2020, 9, 054007.	1.8	11
11	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
12	Structural characterization of electrodeposited boron. Bulletin of Materials Science, 2013, 36, 1323-1329.	1.7	10
13	Optimisation of high energy ball milling parameters to synthesize oxide dispersion strengthened Alloy 617 powder and its characterization. Advanced Powder Technology, 2019, 30, 2320-2329.	4.1	10
14	Phase evolution and structural modulation during in situ lithiation of MoS ₂ , WS ₂ and graphite in TEM. Scientific Reports, 2021, 11, 9014.	3.3	10
15	Thermal stability and thermal expansion behaviour of ZrO ₂ /Y ₂ O ₃ multilayers deposited by pulsed laser deposition technique. Materials Chemistry and Physics, 2015, 162, 592-607.	4.0	9
16	Structure imaging and vanadium substitution in cubic TiCr ₂ Laves phase. Philosophical Magazine, 2015, 95, 2403-2426.	1.6	9
17	Freeze drying vs microwave drying methods for synthesis of sinteractive thoria powders. Journal of Nuclear Materials, 2017, 484, 51-58.	2.7	9
18	Development of a novel ZrO ₂ dispersion strengthened 9Cr ferritic steel: Characterization of milled powder and subsequent annealing behavior. Powder Technology, 2018, 327, 267-274.	4.2	9

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19	Structural investigations of Y ₂ O ₃ dispersoids during mechanical milling and high-temperature annealing of Fe-15Y ₂ O ₃ -xTi (x=0-15) model ODS alloys. <i>Advanced Powder Technology</i> , 2020, 31, 1665-1673.	4.1	8
20	Synthesis and Structural Characterization of V-4Ti-4Cr Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2013, 66, 381-385.	1.5	7
21	In situ TEM study of crystallization and chemical changes in an oxidized uncapped Ge ₂ Sb ₂ Te ₅ film. <i>Journal of Applied Physics</i> , 2020, 128, 124505.	2.5	7
22	Mechanisms of Fatigue Endurance in Alloy 617M at Different Temperatures (300-1023K). <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5663-5671.	2.5	7
23	Analysis of structural transformation in nanocrystalline Y ₂ O ₃ during high energy ball milling. <i>Journal of Alloys and Compounds</i> , 2022, 900, 163550.	5.5	6
24	Direct Observation of Phase Transformations in Ge-Sb-Te Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 1418-1420.	0.4	5
25	Electroextraction of boron from boron carbide scrap. <i>Materials Characterization</i> , 2013, 84, 134-141.	4.4	4
26	Microstructural and microchemical studies of phase stability in V-O solid solution. <i>Materials Characterization</i> , 2017, 124, 129-135.	4.4	4
27	Direct structure imaging of partially collapsed omega domains in phase-separated V-Ti alloy through atom column contrast interpretation. <i>Journal of Materials Science</i> , 2018, 53, 13186-13202.	3.7	4
28	Defect Imaging and Structure Evolution in GST Films During In-situ Heating. <i>Microscopy and Microanalysis</i> , 2020, 26, 1396-1398.	0.4	4
29	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
30	Structures of Layered Materials After Reaction with Li/Na. <i>Microscopy and Microanalysis</i> , 2020, 26, 2356-2357.	0.4	3
31	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
32	Unraveling the Complexity of Nano-Dispersoids in the Oxide Dispersion Strengthened Alloy 617. <i>Microscopy and Microanalysis</i> , 2022, 28, 1463-1471.	0.4	3
33	Thermal stability of CeO ₂ /ZrO ₂ multilayer thin films prepared by pulsed laser deposition. <i>Transactions of the Indian Institute of Metals</i> , 2011, 64, 297-299.	1.5	2
34	HRTEM investigation of phase stability in alumina-zirconia multilayer thin films. <i>Bulletin of Materials Science</i> , 2015, 38, 401-407.	1.7	2
35	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
36	Direct Visualization of the Earliest Stages of Crystallization. <i>Microscopy and Microanalysis</i> , 2021, 27, 659-665.	0.4	2

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37	Phase Stability and Microstructural Evolution in Vanadium-Titanium Alloys with Oxygen Dissolution and Varying Titanium-content. <i>Microscopy and Microanalysis</i> , 2020, 26, 2086-2088.	0.4	1
38	Imaging Dislocation Cores in Severe Plastically Deformed Nanocrystalline CP-Ti Alloy Through Geometrical Phase Analysis of Spherical Aberration-Corrected HRTEM Images. <i>Springer Proceedings in Materials</i> , 2021, , 65-75.	0.3	1
39	Effect of oxygen interstitials on structural stability in refractory metals (V, Mo, W) from DFT calculations. <i>European Physical Journal B</i> , 2021, 94, 1.	1.5	1
40	In-situ TEM Studies of Structural Modification in WS ₂ during Intercalation of Li and Na. <i>Microscopy and Microanalysis</i> , 2021, 27, 654-656.	0.4	1
41	Characterizing Li in partially lithiated layer materials using atomic-resolution imaging, modeling, and simulation. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1581.	3.8	1
42	Phase and Microstructure Evolution in V-Ti-(Cr/W) Alloys. <i>Materials Today: Proceedings</i> , 2016, 3, 2920-2925.	1.8	0
43	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
44	Reversible Phase Transformations during In-Situ Heating of Uncapped Ge ₂ Sb ₂ Te ₅ Films. <i>Microscopy and Microanalysis</i> , 2021, 27, 2412-2414.	0.4	0
45	TEM Studies of Nanoscale Phase Transformation during in-situ reaction of Li with 2D Materials (MoS ₂). <i>Tj ETQq1 1 0.784314.jpgBT /O</i>	0.4	0
46	Investigation of Phase Transformations in Ge ₄ Sb ₄ Te ₅ film using Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 1240-1242.	0.4	0
47	TEM Studies of Segregation in a Ge-Sb-Te Alloy During Heating. <i>Springer Proceedings in Materials</i> , 2021, , 105-114.	0.3	0