

DEPARTMENT OF MATERIALS ENGINEERING

PUBLICATIONS – 2017

Sl No	Authors	Title of Paper	Name of Journal	Volume	Page Numbers	
					From	To
1.	Fielitz, Peter; Kelm, Klemens; Bertram, Rainer; Chokshi, Atul H.; Borchardt, Guenter	Aluminium-26 grain boundary diffusion in pure and Y-doped polycrystalline alpha-alumina	ACTA MATERIALIA	127	302	311
2.	P. Ghosh, S.V. Petegem, H.V. Swygenhoven and A. H. Chokshi	An <i>in-situ</i> synchrotron study on microplastic flow of electrodeposited nanocrystalline nickel	Materials Science and Engineering A	701	101	110
3.	S.R. Reddy, S. Bapari, P.P. Bhattacharjee and A.H. Chokshi	Superplastic-like flow in a fine grained quasi-single phase CoCrFeMnNi high entropy alloy	Materials Research Letters		408	414
4.	Anandhakumar, S.; Krishnamoorthy, G.; Ramkumar, K. M.; Raichur, A. M.	Preparation of collagen peptide functionalized chitosan nanoparticles by ionic gelation method: An effective carrier system for encapsulation and release of doxorubicin for cancer drug delivery	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	70	378	385
5.	Sahu, Megha; Narashimhan, Lakshmi; Prakash, Om; Raichur, Ashok M.	Noncovalently Functionalized Tungsten Disulfide Nanosheets for Enhanced Mechanical and Thermal Properties of Epoxy Nanocomposites	ACS APPLIED MATERIALS & INTERFACES	9	14347	14357
6.	Kumar, Deepak; Roy, Rajdeep; Parashar, Abhinav; Raichur, Ashok M.; Chandrasekaran, Natarajan; Mukherjee, Anita; Mukherjee, Amitava	Toxicity assessment of zero valent iron nanoparticles on Artemia salina	ENVIRONMENTAL TOXICOLOGY	32	1617	1627
7.	Mudakavi, Rajeev J.; Vanamali, Surya; Chakravorty, Dipshikha; Raichur, Ashok M.	Development of arginine based nanocarriers for targeting and treatment of intracellular Salmonella	RSC ADVANCES	7	7022	7032
8.	Lahiri, Arka; Choudhury, Abhik	Theoretical and numerical investigation of diffusive instabilities in multi-component alloys	JOURNAL OF CRYSTAL GROWTH	459	1	12
9.	Lahiri, Arka; Choudhury, Abhik	Revisiting Jackson-Hunt calculations: Unified theoretical analysis for generic multi-phase growth in a multi-component system	ACTA MATERIALIA	133	316	332

10.	Santra, Sangeeta; Paul, Alope	Role of Zr on growth kinetics and microstructural evolution of the superconductor V ₃ Ga by the bronze technique	PHILOSOPHICAL MAGAZINE LETTERS	97	58	65
11.	Paul Alope,	Comments on “Sluggish diffusion in Co–Cr–Fe–Mn–Ni high-entropy alloys” by K. Y. Tsai, M.H. Tsai and J.W. Yeh, Acta Materialia 61 (2013) 4887–4897	Scripta Materialia	135	153	157
12.	Kaur, Palvinder; Kumar, Sanjeev; Chen, Chi-Liang; Yang, Kai-Siang; Wei, Da-Hua; Dong, Chung-Li; Srivastava, C.; Rao, S. M.	Gd doping induced weak ferromagnetic ordering in ZnS nanoparticles synthesized by low temperature co-precipitation technique	MATERIALS CHEMISTRY AND PHYSICS	186	124	130
13.	Malviya, Kirtiman Deo; Srivastava, Chandan; Chattopadhyay, Kamanio	Phase formation and stability of Ag-60 at%Cu alloy nanoparticles synthesized by chemical routes in aqueous media	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	28006	28013
14.	Raghupathy, Y.; Kamboj, Anshul; Rekha, M. Y.; Rao, Narasimha N. P.; Srivastava, Chandan	Copper-graphene oxide composite coatings for corrosion protection of mild steel in 3.5% NaCl	THIN SOLID FILMS	636	107	115
15.	Rekha, M. Y.; Kamboj, Anshul; Srivastava, Chandan	Electrochemical behaviour of SnZn-graphene oxide composite coatings	THIN SOLID FILMS	636	593	601
16.	Mandapaka, Ravikiran; Bachu, Saiphaneendra; Srivastava, Chandan; Madras, Giridhar	Microkinetic Modeling of CO Oxidation over FePt-Decorated Graphene Oxide	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	56	8465	8473
17.	Saiphaneendra, Bachu; Srivastava, Chandan	Synthesis of Graphene-Magnetite Nanoparticle Composite Using Mechanical Milling and Electrochemical Exfoliation	JOM	69	1143	1148
18.	Arora, Sweety; Srivastava, Chandan	Synthesis of ZnO Nanocrystal-Graphene Composite by Mechanical Milling and Sonication-Assisted Exfoliation	JOM	69	1021	1026
19.	Venkatesha, N.; Poojar, Pavan; Qurishi, Yasrib; Geethanath, Sairam; Srivastava, Chandan	Zn _{1-x} Gd _x S (x=0.1, 0.2 and 0.3) nanoparticles for magnetic resonance imaging and optical fluorescence imaging	MATERIALS RESEARCH EXPRESS	4		
20.	Palanisamy, Dhanalakshmi; Srivastava, Chandan; Madras, Giridhar; Chattopadhyay, Kamanio	High-temperature transformation pathways for metastable ferromagnetic binary Heusler (Al-55 at.%Mn) alloy	JOURNAL OF MATERIALS SCIENCE	52	4109	4119

21.	Mandal, Sudipto; Gockel, Brian T.; Balachandran, Shanoob; Banerjee, Dipankar; Rollett, Anthony D.	Simulation of plastic deformation in Ti-5553 alloy using a self-consistent viscoplastic model	INTERNATIONAL JOURNAL OF PLASTICITY	94	57	73
22.	Shanoob Balachandran, Sharath Kumar and Dipankar Banerjee	On recrystallization of the α and β phases in titanium alloys	ACTA MATERIALA	131	423	434
23.	Dipankar Banerjee	Comments on 'Composite structure of α phase in metastable β Ti alloys induced by lattice strain during β to α phase transformation'	SCRIPTA MATERIALA	141	46	47
24.	Kandalam, Sahithya; Sabat, R. K.; Bibhanshu, N.; Avadhani, G. S.; Kumar, S.; Suwas, Satyam	Superplasticity in high temperature magnesium alloy WE43	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	687	85	92
25.	Song, D. Y.; Gupta, G. S.; Maruoka, N.; Shibata, H.; Kitamura, S.; Rudolph, V.	Study of Two Phase Emulsion Systems	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	70	2027	2038
26.	Natarajan, K. A.	Use of Biofloculants for Mining Environmental Control	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	70	519	525
27.	Raghupathy, Y.; Natarajan, K. A.; Srivastava, Chandan	Microstructure, electrochemical behaviour and bio-fouling of electrodeposited nickel matrix-silver nanoparticles composite coatings on copper	SURFACE & COATINGS TECHNOLOGY	328	266	275
28.	Dixit, Saurabh; Madhu, H. C.; Kailas, S. V.; Chattopadhyay, K.	Role of insert material on process loads during FSW	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	91	3427	3435
29.	Basha, Dudekula Althaf; Ravishankar, N.; Chattopadhyay, K.	Size-dependent solubility and phase transformation behavior of Sn-Cd nanoparticles in an Al matrix	JOURNAL OF MATERIALS SCIENCE	52	5194	5207
30.	Jana, Dulal Chandra; Sundararajan, G.; Chattopadhyay, K.	Effect of monomers content in enhancing solid-state densification of silicon carbide ceramics by aqueous gelcasting and pressureless sintering	CERAMICS INTERNATIONAL	43	4852	4857
31.	Tiwary, Chandra Sekhar; Bhowmick, Somnath; Prakash, Abhinav; Chakrabarti, Ramananda; Biswas, Krishanu; Chattopadhyay, Kamanio	Ferromagnetism in alpha-Mn nanorods	JOURNAL OF APPLIED PHYSICS	121		

32.	Pandey, P.; Kashyap, S.; Tiwary, C. S.; Chattopadhyay, K.	Development of High-Strength High-Temperature Cast Al-Ni-Cr Alloys Through Evolution of a Novel Composite Eutectic Structure	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	48A	5940	5950
33.	Nithin, B.; Samanta, A.; Makineni, S. K.; Alam, T.; Pandey, P.; Singh, Abhishek K.; Banerjee, R.; Chattopadhyay, K.	Effect of Cr addition on gamma-gamma ' cobalt-based Co-Mo-Al-Ta class of superalloys: a combined experimental and computational study	JOURNAL OF MATERIALS SCIENCE	52	11036	11047
34.	Mondol, S.; Alam, T.; Banerjee, R.; Kumar, S.; Chattopadhyay, K.	Development of a high temperature high strength Al alloy by addition of small amounts of Sc and Mg to 2219 alloy	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	687	221	231
35.	Jana, Dulal Chandra; Sundararajan, Govindan; Chattopadhyay, Kamanio	Effect of Porosity on Structure, Young's Modulus, and Thermal Conductivity of SiC Foams by Direct Foaming and Gelcasting	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	100	312	322
36.	Lahiri, Arka; Tiwary, Chandrashekhar; Chattopadhyay, Kamanio; Choudhury, Abhik	Eutectic colony formation in systems with interfacial energy anisotropy: A phase field study	COMPUTATIONAL MATERIALS SCIENCE	130	109	120
37.	Baheti, Varun A.; Kashyap, Sanjay; Kumar, Praveen; Chattopadhyay, Kamanio; Paul, Aloke	Bifurcation of the Kirkendall marker plane and the role of Ni and other impurities on the growth of Kirkendall voids in the Cu-Sn system	ACTA MATERIALIA	131	260	270
38.	Hasan, Jafar; Jain, Shubham; Chatterjee, Kaushik	Nanoscale Topography on Black Titanium Imparts Multi-biofunctional Properties for Orthopedic Applications	SCIENTIFIC REPORTS	7		
39.	Bahl, Sumit; Suwas, Satyam; Ungar, Tamas; Chatterjee, Kaushik	Elucidating microstructural evolution and strengthening mechanisms in nanocrystalline surface induced by surface mechanical attrition treatment of stainless steel	ACTA MATERIALIA	122	138	151
40.	Natarajan, Janeni; Chatterjee, Kaushik; Madras, Giridhar	Tailored Degradation and Dye Release from Poly(ester amides)	POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING	56	635	646

41.	Dasgupta, Queeny; Madras, Giridhar; Chatterjee, Kaushik	Controlled Release of Usnic Acid from Biodegradable Polyesters to Inhibit Biofilm Formation	ACS BIOMATERIALS SCIENCE & ENGINEERING	3	291	303
42.	Natarajan, Janeni; Madras, Giridhar; Chatterjee, Kaushik	Poly(ester amide)s from Poly(ethylene terephthalate) Waste for Enhancing Bone Regeneration and Controlled Release	ACS APPLIED MATERIALS & INTERFACES	9	28281	28297
43.	Dasgupta, Queeny; Movva, Sahitya; Chatterjee, Kaushik; Madras, Giridhar	Controlled release from aspirin based linear biodegradable poly (anhydride esters) for anti-inflammatory activity	INTERNATIONAL JOURNAL OF PHARMACEUTICS	528	732	740
44.	Natarajan, Janeni; Movva, Sahitya; Madras, Giridhar; Chatterjee, Kaushik	Biodegradable galactitol based crosslinked polyesters for controlled release and bone tissue engineering	MATERIALS SCIENCE & ENGINEERING C- MATERIALS FOR BIOLOGICAL APPLICATIONS	77	534	547
45.	Jain, Aditi; Ravi, Venkatraman; Muhamed, Jaseer; Chatterjee, Kaushik; Sundaresan, Nagalingam R.	A simplified protocol for culture of murine neonatal cardiomyocytes on nanoscale keratin coated surfaces	INTERNATIONAL JOURNAL OF CARDIOLOGY	232	160	170
46.	Meka, Sai Rama Krishna; Chacko, Leeba Ann; Ravi, Ashwini; Chatterjee, Kaushik; Ananthanarayanan, Vaishnavi	Role of Microtubules in Osteogenic Differentiation of Mesenchymal Stem Cells on 3D Nanofibrous Scaffolds	ACS BIOMATERIALS SCIENCE & ENGINEERING	3	551	559
47.	Das Ghosh, Lopamudra; Ravi, Venkatraman; Sanpui, Pallab; Sundaresan, Nagalingam R.; Chatterjee, Kaushik	Keratin mediated attachment of stem cells to augment cardiomyogenic lineage commitment	COLLOIDS AND SURFACES B- BIOINTERFACES	151	178	188
48.	Jaidev, L.R.; Kumar, Sachin; Chatterjee, Kaushik	Multi-biofunctional polymer graphene composite for bone tissue regeneration that elutes copper ions to impart angiogenic, osteogenic and bactericidal properties	Colloids and Surfaces B:Biointerfaces	159	293	302
49.	Natarajan, Janeni; Chatterjee, Kaushik; Madras, Giridhar	Development of graphene oxide/ galactitol polyester based biodegradable composites for biomedical applications	ACS Omega	2	5545	5556
50.	Pawar, Shital Patangrao; Kumar, Sachin; Jain, Shubham; Gandhi, Mounika; Chatterjee, Kaushik; Bose, Suryasarathi	Synergistic interactions between silver decorated graphene and carbon nanotubes yield flexible composites to attenuate electromagnetic radiation	NANOTECHNOLOGY	28		

51.	Vamsi, K. V.; Karthikeyan, S.	Yield anomaly in L1(2) Co ₃ Al _x W _{1-x} vis-a-vis Ni ₃ Al	SCRIPTA MATERIALIA	130	269	273
52.	Krishnan, Vinodh K; Sinnaeruvadi, Kumaran; Verma, S.K; Dash, Biswaranjan ; Agrawal, Priyanka; Subramanian, Karthikeyan	Yttria catalyzed microstructural modifications in oxide dispersion strengthened V-4Cr-4Ti alloys synthesized by field assisted sintering technique	PHILOSOPHICAL MAGAZINE	97	1847	1865
53.	Krishnan, Vinodh K; Sinnaeruvadi, Kumaran; Verma, S.K; Dash, Biswaranjan ; Agrawal, Priyanka; Subramanian, Karthikeyan	Microstructural characterization of field assisted sintered bulk nanostructured V-4Cr-4Ti alloys	PARTICULATE SCIENCE AND TECHNOLOGY	35	1	8
54.	Jacob, K. T.; Ramesh, Sankaran	Thermodynamic stability of LuRhO ₃ in a photoelectrochemical cell	JOURNAL OF ALLOYS AND COMPOUNDS	695	1891	1899
55.	Chelliah, Nagaraj M.; Singh, Harpreet; Surappa, M. K.	Microstructural evolution and strengthening behavior in in-situ magnesium matrix composites fabricated by solidification processing	MATERIALS CHEMISTRY AND PHYSICS	194	65	76
56.	Chelliah, Nagaraj M.; Singh, Harpreet; Raj, Rishi; Surappa, M. K.	Processing, microstructural evolution and strength properties of in-situ magnesium matrix composites containing nano-sized polymer derived SiCNO particles	MATERIALS SCIENCE AND ENGINEERING A- STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	685	429	438
57.	Bora, Pritom J.; Vinoy, K. J.; Ramamurthy, Praveen C.; Madras, Giridhar	Electromagnetic interference shielding efficiency of MnO ₂ nanorod doped polyaniline film	MATERIALS RESEARCH EXPRESS	4		
58.	Kesavan, Arul Varman; Ramamurthy, Praveen C.	Source materials grain size effect on electrode microstructure and its effect on conventional bulk hetero-junction photovoltaics	SOLAR ENERGY MATERIALS AND SOLAR CELLS	172	244	251
59.	Garg, Kavita; Shanmugam, Ramakrishnan; Ramamurthy, Praveen C.	New covalent hybrids of graphene oxide with core modified and -expanded porphyrins: Synthesis, characterisation and their non linear optical properties	CARBON	122	307	318
60.	Kesavan, Arul Varman; Rao, Arun D.; Ramamurthy, Praveen C.	Optical and electronic property tailoring by MoS ₂ -polymer hybrid solar cell	ORGANIC ELECTRONICS	48	138	146

61.	Kesavan, Arul Varman; Rao, Arun D.; Ramamurthy, Praveen C.	Interface Electrode Morphology Effect on Carrier Concentration and Trap Defect Density in an Organic Photovoltaic Device	ACS APPLIED MATERIALS & INTERFACES	9	28774	28784
62.	Kotturappa, Chandrashekhara G.; Gopikrishna, Murali M.; Rao, Arun D.; Ramamurthy, Praveen C.	Design and synthesis of thieno[3,4-c]pyrrole-4,6-dione based conjugated copolymers for organic solar cells	POLYMER INTERNATIONAL	66	1206	1213
63.	Viswanathan, Vinila N.; Rao, Arun D.; Pandey, Upendra K.; Kesavan, Arul Varman; Ramamurthy, Praveen C.	Molecular-level architectural design using benzothiadiazole-based polymers for photovoltaic applications	BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY	13	863	873
64.	Kesavan, Arul Varman; Jagdish, A. K.; Ramamurthy, Praveen C.	Organic Inorganic Hybrid Hole Transport Layer for Light Management in Inverted Organic Photovoltaic	IEEE JOURNAL OF PHOTOVOLTAICS	7	787	791
65.	Khanum, Khadija Kanwal; Krishnaswamy, Jagdish Anakkavoor; Ramamurthy, Praveen C.	Design and Fabrication of Photonic Structured Organic Solar Cells by Electrospraying	JOURNAL OF PHYSICAL CHEMISTRY C	121	8531	8540
66.	Vinoth, R.; Babu, S. Ganesh; Bharti, Vishal; Gupta, V.; Navaneethan, M.; Bhat, S. Venkataprasad; Muthamizhchelvan, C.; Ramamurthy, Praveen C.; Sharma, Chhavi; Aswal, Dinesh K.; Hayakawa, Yasuhiro; Neppolian, B.	Ruthenium based metallopolymer grafted reduced graphene oxide as a new hybrid solar light harvester in polymer solar cells	SCIENTIFIC REPORTS	7		
67.	Ghosh, Rituparna; Kanjilal, Anwesha; Kumar, Praveen	Effect of type of thermo-mechanical excursion on growth of interfacial intermetallic compounds in Cu/Sn-Ag-Cu solder joints	MICROELECTRONICS RELIABILITY	74	44	51
68.	Baheti, Varun A.; Kashyap, Sanjay; Kumar, Praveen; Chattopadhyay, Kamanio; Paul, Alope	Solid-state diffusion-controlled growth of the intermediate phases from room temperature to an elevated temperature in the Cu-Sn and the Ni-Sn systems	JOURNAL OF ALLOYS AND COMPOUNDS	727	832	840
69.	Chandrasekhar, M.; Khatua, Dipak Kumar; Pattanayak, Ranjit; Kumar, P.	Dielectric relaxation and conduction mechanism studies of BNT-BT-BKT ceramics	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	111	160	166
70.	Kumar, Sumit; Kumar, Praveen; Pratap, Rudra	A model for electromigration induced flow in liquid metals	JOURNAL OF PHYSICS D-APPLIED PHYSICS	50		
71.	Kanjilal, Anwesha; Jangid, Vikas; Kumar, Praveen	Critical evaluation of creep behavior of Sn-Ag-Cu solder alloys over wide range of temperatures	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES	703	144	153

			MICROSTRUCTURE AND PROCESSING			
72.	Jagtap, Piyush; Chakraborty, Aritra; Eisenlohr, Philip; Kumar, Praveen	Identification of whisker grain in Sn coatings by analyzing crystallographic micro-texture using electron back-scatter diffraction	ACTA MATERIALIA	134	346	359
73.	Kumar, P.; Kawasaki, M; Langdon; T. G.	Resolving the Strength-Ductility Paradox through Severe Plastic Deformation of a Cast Al-7Si Alloy	Materials Science Forum	879	1043	1048
74.	Kawasaki, M; Ahn, B; Kumar, P; Jang, J.-I.; Langdon, T. G.	Nano- and Micro-mechanical Properties of Ultrafine-Grained Materials Processed by Severe Plastic Deformation Techniques	Advanced Engineering Materials	19	1600578(1)	1600578(17)
75.	Smith, K; Kassner, M. E.; Kumar, P	Long-term Annealing of High Purity Aluminum Single Crystals: New Insights into Harper-Dorn Creep	Materials Science and Engineering: A	705	1	5
76.	Baheti, Varun A.; Kumar, Praveen; Paul, Alope	Growth of phases in the solid-state from room temperature to an elevated temperature in the Pd-Sn and the Pt-Sn systems	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	18379	18386
77.	Baheti, Varun A.; Kumar, Praveen; Paul, Alope	Effect of Au, Pd and Pt addition in Cu on the growth of intermetallic compounds and the Kirkendall voids in the Cu-Sn system	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	17014	17019
78.	Baheti, Varun A.; Kashyap, Sanjay; Kumar, Praveen; Chattopadhyay, Kamanio; Paul, Alope	Effect of Ni on growth kinetics, microstructural evolution and crystal structure in the Cu(Ni)-Sn system	PHILOSOPHICAL MAGAZINE	97	1782	1802
79.	Mohanty, S.; Gurao, N. P.; Padaikathan, P.; Biswas, Krishanu	Ageing behaviour of equiatomic consolidated Al ₂₀ Co ₂₀ Cu ₂₀ Ni ₂₀ Zn ₂₀ high entropy alloy	MATERIALS CHARACTERIZATION	129	127	134
80.	Abebe, Muluaem; Brajesh, Kumar; Mishra, Anupam; Senyshyn, Anatoliy; Ranjan, Rajeev	Structural perspective on the anomalous weak-field piezoelectric response at the polymorphic phase boundaries of (Ba, Ca)(Ti, M)O-3 lead-free piezoelectrics (M = Zr, Sn, Hf)	PHYSICAL REVIEW B	96		

81.	Mishra, Anupam; Majumdar, Bhaskar; Ranjan, Rajeev	A complex lead-free (Na, Bi, Ba)(Ti, Fe)O-3 single phase perovskite ceramic with a high energy-density and high discharge-efficiency for solid state capacitor applications	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	37	2379	2384
82.	Sil, Anomitra; Kumar, P. S. Anil; Ranjan, Rajeev	Tuning the magnetic characteristics of epitaxial BiFeO(3)films using structural control	THIN SOLID FILMS	642	117	123
83.	Biswas, Tathagata; Ravindra, Pramod; Athresh, Eashwer; Ranjan, Rajeev; Avasthi, Sushobhan; Jain, Manish	Optical Properties of Zn ₂ Mo ₃ O ₈ : Combination of Theoretical and Experimental Study	JOURNAL OF PHYSICAL CHEMISTRY C	121	24766	24773
84.	Jha, Pardeep K.; Jha, Priyanka A.; Singh, Prabhakar; Ranjan, Rajeev; Dwivedi, R. K.	Sm/Ti co-substituted bismuth ferrite multiferroics: reciprocity between tetragonality and piezoelectricity	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	26285	26295
85.	Dias, E. T.; Priolkar, K. R.; Ranjan, Rajeev; Nigam, A. K.; Emura, S.	Mechanism of magnetostructural transformation in multifunctional Mn ₃ GaC	JOURNAL OF APPLIED PHYSICS	122		
86.	Sil, Anomitra; Wagh, Aditya A.; Sharma, Deepak; Ranjan, Rajeev; Kumar, P. S. Anil	On the inter-layer magneto-electric coupling in BiFeO ₃ /SrRuO ₃ heterostructure	APPLIED PHYSICS LETTERS	111		
87.	Badapanda, T.; Chaterjee, S.; Mishrac, Anupam; Ranjan, Rajeev; Anward, S.	Electric field induced strain, switching and energy storage behaviour of lead free Barium Zirconium Titanate ceramic	PHYSICA B-CONDENSED MATTER	521	264	269
88.	Kumar, Naveen; Narayan, Bastola; Kumar, Sanjeev; Verma, K. C.; Ranjan, Rajeev; Shah, Jyoti; Kotnala, R. K.	Magnetic controlled voltage in the pseudo-ternary multiferroic BiFeO ₃ -PbTiO ₃ -BaTiO ₃	MATERIALS RESEARCH EXPRESS	4		
89.	Kaur, Ramanpreet; Swain, Diptikanta; Dutta, Dipak; Brajesh, Kumar; Singh, Priyank; Bhattacharyya, Aninda J.; Ranjan, Rajeev; Narayana, Chandrabhas; Hulliger, Jurg; Row, Tayur N. Guru	FeCo-Anchored Reduced Graphene Oxide Framework-Based Soft Composites Containing Carbon Nanotubes as Highly Efficient Microwave Absorbers with Excellent Heat Dissipation Ability	JOURNAL OF PHYSICAL CHEMISTRY C	121	18317	18325
90.	Khatua, Dipak Kumar; Mehrotra, Tarang; Mishra, Anupam; Majumdar, Bhaskar; Senyshyn, Anatoliy; Ranjan, Rajeev	Anomalous influence of grain size on the global structure, ferroelectric and piezoelectric response of Na _{0.5} Bi _{0.5} TiO ₃	ACTA MATERIALIA	134	177	187

91.	Abebe, Muluaem; Brajesh, Kumar; Ranjan, Rajeev	Correlation between structure and Rayleigh parameters in the lead-free piezoceramic (1-x)Ba(Ti _{0.88} Sn _{0.12})O-3-x(Ba _{0.7} Ca _{0.3})TiO ₃	JOURNAL OF APPLIED PHYSICS	122		
92.	Kumar, Naveen; Bastola, Narayan; Kumar, Sanjeev; Ranjan, Rajeev	Relaxor dielectric behavior in BaTiO ₃ substituted BiFeO ₃ -PbTiO ₃ multiferroic system	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	28	10420	10426
93.	Topolov, VitalyYu.; Kalyani, Ajay Kumar; Brajesh, Kumar; Ranjan, Rajeev; Panich, Anatoly E.	Comparative study on heterophase structures in ferroelectric solid solutions based on barium titanate	CRYSTAL RESEARCH AND TECHNOLOGY	52		
94.	Topolov, Vitaly Yu; Brajesh, Kumar; Ranjan, Rajeev; Panich, Anatoly E.	Plausible domain configurations and phase contents in two- and three-phase BaTiO ₃ -based lead-free ferroelectrics	JOURNAL OF PHYSICS D-APPLIED PHYSICS	50		
95.	Narayan, Bastola; Adhikari, Sangeeta; Madras, Giridhar; Ranjan, Rajeev	Trapping a Metastable Ferroelectric Phase by Size Reduction in Semiconducting Ferroelectric BiFeO ₃ -PbTiO ₃ and Its Implications for Photocatalytic Response	PHYSICAL REVIEW APPLIED	7		
96.	Biswas, Sourav; Arief, Injamamul; Panja, Sujit Sankar; Bose, Suryasarathi	Absorption-Dominated Electromagnetic Wave Suppressor Derived from Ferrite-Doped Cross-Linked Graphene Framework and Conducting Carbon	ACS APPLIED MATERIALS & INTERFACES	9	3030	3039
97.	Arief, Injamamul; Biswas, Sourav; Bose, Suryasarathi	FeCo-Anchored Reduced Graphene Oxide Framework-Based Soft Composites Containing Carbon Nanotubes as Highly Efficient Microwave Absorbers with Excellent Heat Dissipation Ability	ACS APPLIED MATERIALS & INTERFACES	9	19202	19214
98.	Choudhary, Harish K.; Pawar, Shital P.; Kumar, Rajeev; Anupama, A. V.; Bose, Suryasarathi; Sahoo, Balaram	Mechanistic Insight into the Critical Concentration of Barium Hexaferrite and the Conductive Polymeric Phase with Respect to Synergistically Electromagnetic Interference (EMI) Shielding	CHEMISTRYSELECTION	2	830	841

99.	Biswas, Sourav; Bhattacharjee, Yudhajit; Panja, Sujit Sankar; Bose, Suryasarathi	Rational Design of Multilayer Ultrathin Nano-Architecture by Coupling of Soft Conducting Nanocomposite with Ferrites and Porous Structures for Screening Electromagnetic Radiation	CHEMISTRYSELECTION	2	1094	1101
100.	Menon, Aishwarya V.; Madras, Giridhar; Bose, Suryasarathi	Phase specific dispersion of functional nanoparticles in soft nanocomposites resulting in enhanced electromagnetic screening ability dominated by absorption	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	467	479
101.	Mural, Prasanna Kumar S.; Jain, Shubham; Madras, Giridhar; Bose, Suryasarathi	Antibacterial Membranes for Water Remediation with Controlled Leaching of Biocidal Silver Aided by Prior Grafting of Poly(ethylene imine) on to Ozone-Treated Polyethylene	CHEMISTRYSELECTION	2	624	631
102.	Biswas, Sourav; Panja, Sujit S.; Bose, Suryasarathi	Unique Multilayered Assembly Consisting of Flower-Like Ferrite Nanoclusters Conjugated with MWCNT as Millimeter Wave Absorbers	JOURNAL OF PHYSICAL CHEMISTRY C	121	13998	14009
103.	Abraham, Jiji; Arif, Mohammed; Xavier, Priti; Bose, Suryasarathi; George, Soney C.; Kalarikkal, Nandakumar; Thomas, Sabu	Investigation into dielectric behaviour and electromagnetic interference shielding effectiveness of conducting styrene butadiene rubber composites containing ionic liquid modified MWCNT	POLYMER	112	102	115
104.	Bajad, Ganesh; Jain, Rajat; Harhare, Warun; Vijayakumar, R. P.; Bose, Suryasarathi	Synthesis of fuel oil and carbon nanotubes in an autoclave using plastic waste as precursor	MATERIALS AND MANUFACTURING PROCESSES	32	495	500
105.	Biswas, Sourav; Dutta, Suvanka; Panja, Sujit S.; Bose, Suryasarathi	Hollow Semiconductor Nanospheres-Anchored Graphene Oxide Sheets for Effective Microwave Absorption	CHEMISTRYSELECTION	2	10840	10847
106.	Kar, Goutam Prasanna; Bose, Suryasarathi	Nucleation barrier, growth kinetics in ternary polymer blend filled with preferentially distributed carbon nanotubes	POLYMER	128	229	241

107.	Pathak, Binita; Kar, Goutam Prasanna; Bose, Suryasarathi; Basu, Saptarshi	Phase separation and physico-chemical processes at microscopic and macroscopic levels in MWCNT laden polymer blends using a unique droplet based architecture	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	24961	24970
108.	Padmavathy, Nagarajan; Samantaray, Paresh Kumar; Das Ghosh, Lopamudra; Madras, Giridhar; Bose, Suryasarathi	Selective cleavage of the polyphosphoester in crosslinked copper based nanogels: enhanced antibacterial performance through controlled release of copper	NANOSCALE	9	12664	12676
109.	Kumar, Rajeev; Choudhary, Harish Kumar; Pawar, Shital Patangrao; Bose, Suryasarathi; Sahoo, Balaram	Carbon encapsulated nanoscale iron/iron-carbide/graphite particles for EMI shielding and microwave absorption	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	23268	23279
110.	Menon, Aishwarya V.; Madras, Giridhar; Bose, Suryasarathi	Magnetic Alloy-MWNT Heterostructure as Efficient Electromagnetic Wave Suppressors in Soft Nanocomposites	CHEMISTRYSELECTION	2	7831	7844
111.	Samantaray, Paresh Kumar; Madras, Giridhar; Bose, Suryasarathi	Antibacterial and Antibiofouling Polymeric Membranes through Immobilization of Pyridine Derivative Leading to ROS Generation and Loss in Bacterial Membrane Integrity	CHEMISTRYSELECTION	2	7965	7974
112.	Katti, Prajakta; Kundan, K. V.; Kumar, S.; Bose, Suryasarathi	Improved mechanical properties through engineering the interface by poly (ether ether ketone) grafted graphene oxide in epoxy based nanocomposites	POLYMER	122	184	193
113.	Pawar, Shital Patangrao; Gandhi, Mounika; Arief, Injamamul; Krause, Beate; Poetschke, Petra; Bose, Suryasarathi	Graphene Derivatives Doped with Nickel Ferrite Nanoparticles as Excellent Microwave Absorbers in Soft Nanocomposites	CHEMISTRYSELECTION	2	5984	5999
114.	Remanan, Sanjay; Sharma, Maya; Jayashree, Priyadarshini; Parameswaranpillai, Jyotishkumar; Fabian, Thomas; Shih, Julie; Shankarappa, Prasad; Nuggehalli, Bharath; Bose, Suryasarathi	Unique synergism in flame retardancy in ABS based composites through blending PVDF and halloysite nanotubes	MATERIALS RESEARCH EXPRESS	4		

115.	Gebrekrstos, Arnanuel; Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	Critical Insights into the Effect of Shear, Shear History, and the Concentration of a Diluent on the Polymorphism in Poly(vinylidene fluoride)	CRYSTAL GROWTH & DESIGN	17	1957	1965
116.	Gamini, Suresh; Vasu, V.; Bose, Suryasarathi	Tube-like natural halloysite/poly(tetrafluoroethylene) nanocomposites: simultaneous enhancement in thermal and mechanical properties	MATERIALS RESEARCH EXPRESS	4		
117.	Sharma, Maya; Remanan, Sanjay; Madras, Giridhar; Bose, Suryasarathi	Crystallization Induced Phase Separation: Unique Tool to Design Microfiltration Membranes with High Flux and Sustainable Antibacterial Surface	INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH	56	2025	2035
118.	Maya Sharma, Shashank Ramakrishnan, Sanjay Remanan, Giridhar Madras, Suryasarathi Bose	Nano tin ferrous oxide decorated graphene oxide sheets for efficient arsenic (III) removal	Nano-structures and Nano-objects	13	82	90
119.	Rani Rohini, S Bose	Electromagnetic wave suppressors derived from crosslinked polymer composites containing functional particles: key challenges and perspectives	Nano-Structures & Nano-Objects	12	130	145
120.	Sourav Biswas, Injamamul Arief, Sujit S. Panja and Suryasarathi Bose	Electromagnetic Screening in Soft Conducting Composites Containing Ferrites: The Key Role of Size and Shape Anisotropy	Materials Chemistry Frontiers	1	2574	2586
121.	Y Bhattacharjee, I Arief, S Bose	Recent Trends in Multi-layered Architecture Towards Screening Electromagnetic Radiation: Challenges and Perspectives	Journal of Materials Chemistry C	5	7390	7401
122.	I Arief, S Biswas, S Bose	Graphene analogues as emerging materials for screening electromagnetic radiations	Nano-Structures & Nano-Objects	11	94	101
123.	S Biswas, Y Bhattacharjee, S Panja, S Bose	Graphene oxide co-doped with dielectric and magnetic phases as electromagnetic wave suppressor	Materials Chemistry Frontiers	1	1229	1243

124.	S Biswas, SS Panja, S Bose	Novel fluorophore-spacer-receptor to conjugate MWNT and ferrite nanoparticles to design ultra-thin shield to screen electromagnetic radiation	Materials Chemistry Frontiers	1	132	144
125.	N Angulakshmi, GP Kar, S Bose, EB Gowd, S Thomas, AM Stephan	High performing BaTiO ₃ -grafted-GO –laden poly(ethylene oxide) – based membrane as electrolyte for all-solid lithium-batteries	Materials Chemistry Frontiers	1	269	276
126.	Padmavathy, Nagarajan; Jaidev, L. R.; Bose, Suryasarathi; Chatterjee, Kaushik	Oligomer-grafted graphene in a soft nanocomposite augments mechanical properties and biological activity	MATERIALS & DESIGN	126	238	249
127.	Baby, Tessy Theres; Rommel, Manuel; von Seggern, Falk; Friederich, Pascal; Reitz, Christian; Dehm, Simone; Kuebel, Christian; Wenzel, Wolfgang; Hahn, Horst; Dasgupta, Subho	Sub-50 nm Channel Vertical Field-Effect Transistors using Conventional Ink-Jet Printing	ADVANCED MATERIALS	29		
128.	Marques, Gabriel Cadilha; Garlapati, Suresh Kumar; Chatterjee, Debaditya; Dehm, Simone; Dasgupta, Subho; Aghassi, Jasmin; Tahoori, Mehdi B.	Electrolyte-Gated FETs Based on Oxide Semiconductors: Fabrication and Modeling	IEEE TRANSACTIONS ON ELECTRON DEVICES	64	279	285
129.	Haeming, M.; Baby, T. T.; Garlapati, S. K.; Krause, B.; Hahn, H.; Dasgupta, S.; Weinhardt, L.; Heske, C.	The effect of NaCl on room-temperature-processed indium oxide nanoparticle thin films for printed electronics	APPLIED SURFACE SCIENCE	396	912	919
130.	Marques, Gabriel Cadilha; Garlapati, Suresh Kumar; Dehm, Simone; Dasgupta, Subho; Hahn, Horst; Tahoori, Mehdi; Aghassi-Hagmann, Jasmin	Digital power and performance analysis of inkjet printed ring oscillators based on electrolyte-gated oxide electronics	APPLIED PHYSICS LETTERS	111		
131.	Garlapati, Suresh Kumar; Gebauer, Julia Susanne; Dehm, Simone; Bruns, Michael; Winterer, Markus; Hahn, Horst; Dasgupta, Subho	Room-Temperature Processing of Printed Oxide FETs Using Ultraviolet Photonic Curing	ADVANCED ELECTRONIC MATERIALS	3		
132.	A. K. S. Bankoti, A. K. Mondal, C. S. Perugu, B. C. Ray and S. Kumar	Correlation of microstructure and electrochemical corrosion behaviour of squeeze-cast Ca and Sb added AZ91 Mg alloys	Metallurgical and Materials Transactions A	48	5106	5121
133.	P. Katti, K. V. Kundan, S. Kumar and S. Bose	Assessing the interfacial properties in carbon fiber/epoxy nanocomposites: From ‘interlayers’ to ‘interconnects’	Nano-Structures & Nano-Objects	12	194	209

134.	Makineni, Surendra Kumar; Sugathan, Sandeep; Meher, Subhashish; Banerjee, Rajarshi; Bhattacharya, Saswata; Kumar, Subodh; Chattopadhyay, Kamanio	Enhancing elevated temperature strength of copper containing aluminium alloys by forming L1(2) Al ₃ Zr precipitates and nucleating theta " precipitates on them	SCIENTIFIC REPORTS	7		
135.	Ezhilselvi, V.; Balaraju, J. N.; Subramanian, S.	Chromate and HF free pretreatment for MAO/electroless nickel coating on AZ31B magnesium alloy	SURFACE & COATINGS TECHNOLOGY	325	270	276
136.	Vasanthakumar, B.; Ravishankar, H.; Subramanian, S.	Selective bio-flotation of sphalerite from galena using mineral - adapted strains of Bacillus subtilis	MINERALS ENGINEERING	110	179	184
137.	Prabhakaran, Divyasree C.; Riotte, Jean; Sivry, Yann; Subramanian, Sankaran	Electroanalytical Detection of Cr(VI) and Cr(III) Ions Using a Novel Microbial Sensor	ELECTROANALYSIS	29	1222	1231
138.	Prabhakaran, Divyasree C.; Subramanian, S.	Studies on the Bioremediation of Chromium from Aqueous Solutions Using C-paurometabolum	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	70	497	509
139.	Gurao, N. P.; Suwas, Satyam	Effect of Phase Contiguity and Morphology on the Evolution of Deformation Texture in Two-Phase Alloys	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	48A	809	827
140.	Kumar, Amit; Khatirkar, Rajesh Kisni; Chalapathi, Darshan; Kumar, Gulshan; Suwas, Satyam	Microstructure and Texture Development during Cold Rolling in UNS S32205 and UNS S32760 Duplex Stainless Steels	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	48A	2349	2362
141.	Loganathan, Archana; Sharma, Amit; Rudolf, Chris; Zhang, Cheng; Nautiyal, Pranjali; Suwas, Satyam; Boesl, Benjamin; Agarwal, Arvind	In-situ deformation mechanism and orientation effects in sintered 2D boron nitride nanosheets	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	708	440	450
142.	Prabhakar, Abhishek; Verma, Girish Chandra; Hariharan, Krishnasamy; Pandey, Pulak Mohan; Lee, Myoung Gyu; Suwas, Satyam	Dislocation density based constitutive model for ultrasonic assisted deformation	MECHANICS RESEARCH COMMUNICATIONS	85	76	80
143.	Prasad, N. Subrahmanya; Narasimhan, R.; Suwas, S.	Effects of lattice orientation and crack tip constraint on ductile fracture initiation in Mg single crystals	INTERNATIONAL JOURNAL OF PLASTICITY	97	222	245

144.	Ravikumar, K.; Kalsar, Rajib; Pramanik, Sudipta; Suwas, Satyam; Basu, Bikramjit	Probing lamellar twins in spark plasma sintered CaTiO ₃ using Electron Backscattered Diffraction	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	37	4235	4240
145.	Das, Sayan; Chetty, Raju; Wojciechowski, Krzysztof; Suwas, Satyam; Mallik, Ramesh Chandra	Thermoelectric properties of Sn doped BiCuSeO	APPLIED SURFACE SCIENCE	418	238	245
146.	Roy, Shibayan; Suwas, Satyam	Orientation dependent spheroidization response and macro-zone formation during sub beta-transus processing of Ti-6Al-4V alloy	ACTA MATERIALIA	134	283	301
147.	Kalsar, Rajib; Suwas, Satyam	Deformation mechanisms during large strain deformation of high Mn TWIP steel	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	700	209	219
148.	Sharma, Amit; Chhangani, Sumit; Madhavan, R.; Suwas, Satyam	Correlation between crystallographic texture, microstructure and magnetic properties of pulse electrodeposited nanocrystalline Nickel-Cobalt alloys	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	434	68	77
149.	Bisht, Anuj; Ray, Nachiketa; Jagadeesh, Gopalan; Suwas, Satyam	Microstructural and crystallographic response of shock-loaded pure copper	JOURNAL OF MATERIALS RESEARCH	32	1484	1498
150.	Athreya, C. N.; Mukilventhan, A.; Suwas, Satyam; Vedantam, Srikanth; Sarma, V. Subramanya	Influence of the mode of deformation on recrystallisation kinetics in Nickel through experiments, theory and phase field model	PHILOSOPHICAL MAGAZINE	97	3211	3228
151.	Chaudhuri, Atanu; Raghupathy, Y.; Srinivasan, Dheepa; Suwas, Satyam; Srivastava, Chandan	Microstructural evolution of cold-sprayed Inconel 625 superalloy coatings on low alloy steel substrate	ACTA MATERIALIA	129	11	25
152.	Bahl, Sumit; Krishnamurthy, Akash S.; Suwas, Satyam; Chatterjee, Kaushik	Controlled nanoscale precipitation to enhance the mechanical and biological performances of a metastable beta Ti-Nb-Sn alloy for orthopedic applications	MATERIALS & DESIGN	126	226	237
153.	Bahl, Sumit; Nithilaksh, P. L.; Suwas, Satyam; Kailas, Satish V.; Chatterjee, Kaushik	Processing-Microstructure-Crystallographic Texture-Surface Property Relationships in Friction Stir Processing of Titanium	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	26	4206	4216

154.	Joshi, Chaitanya; Abinandanan, T. A.; Mukherjee, Rajdip; Choudhury, Abhik	Destabilisation of nanoporous membranes through GB grooving and grain growth	COMPUTATIONAL MATERIALS SCIENCE	139	75	83
155.	Lahiri, Arka; Abinandanan, T. A.; Choudhury, Abhik	Theoretical and Numerical Study of Growth in Multi-Component Alloys	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	48A	4463	4476
156.	Ghosh, Supriyo; Mukherjee, Arnab; Abinandanan, T. A.; Bose, Suryasarathi	Particles with selective wetting affect spinodal decomposition microstructures	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	19	15424	15432
157.	Suryawanshi, Jyoti; Prashanth, K. G.; Ramamurty, U.	Mechanical behavior of selective laser melted 316L stainless steel	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	696	113	121
158.	Zhao, Yakai; Lee, Dong-Hyun; Seok, Moo-Young; Lee, Jung-A; Phaniraj, M. P.; Suh, Jin-Yoo; Ha, Heon-Young; Kim, Ju-Young; Ramamurty, Upadrasta; Jang, Jae-II	Resistance of CoCrFeMnNi high-entropy alloy to gaseous hydrogen embrittlement	SCRIPTA MATERIALIA	135	54	58
159.	Shete, Mayuresh K.; Dutta, Tanmay; Singh, I.; Narasimhan, R.; Ramamurty, U.	Tensile stress-strain response of metallic glass matrix composites reinforced with crystalline dendrites: Role of dendrite morphology	INTERMETALLICS	83	70	82
160.	Suryawanshi, Jyoti; Prashanth, K. G.; Ramamurty, U.	Tensile, fracture, and fatigue crack growth properties of a 3D printed maraging steel through selective laser melting	JOURNAL OF ALLOYS AND COMPOUNDS	725	355	364
161.	Wang, Chao; Cao, Qing Ping; Wang, Xiao Dong; Zhang, Dong Xian; Ramamurty, Upadrasta; Narayan, Ramasubramanian Lakshmi; Jiang, Jian-Zhong	Intermediate Temperature Brittleness in Metallic Glasses	ADVANCED MATERIALS	29		
162.	Lee, Jung-A; Seok, Moo-Young; Zhao, Yakai; Choi, In-Chul; Lee, Dong-Hyun; Seo, Brandon B.; Ramamurty, Upadrasta; Tsui, Ting Y.; Jang, Jae-II	Statistical analysis of the size- and rate-dependence of yield and plastic flow in nanocrystalline copper pillars	ACTA MATERIALIA	127	332	340
163.	Mondal, Pradip Kumar; Kiran, M. S. R. N.; Ramamurty, U.; Chopra, Deepak	Quantitative Investigation of the Structural, Thermal, and Mechanical Properties of Polymorphs of a Fluorinated Amide	CHEMISTRY-A EUROPEAN JOURNAL	23	1023	1027

164.	Lee, Dong-Hyun; Lee, Jung-A; Zhao, Yakai; Lu, Zhaoping; Suh, Jin-Yoo; Kim, Ju-Young; Ramamurty, Upadrasta; Kawasaki, Megumi; Langdon, Terence G.; Jang, Jae-il	Annealing effect on plastic flow in nanocrystalline CoCrFeMnNi high-entropy alloy: A nanomechanical analysis	ACTA MATERIALIA	140	443	451
165.	Lee, Jung-A; Lee, Dong-Hyun; Seok, Moo-Young; Choi, In-Chul; Han, Heung Nam; Tsui, Ting Y.; Ramamurty, Upadrasta; Jang, Jae-il	Significant strengthening of nanocrystalline Ni sub-micron pillar by cyclic loading in elastic regime	SCRIPTA MATERIALIA	140	31	34
166.	Kadambi, Sourabh B.; Divya, V. D.; Ramamurty, U.	Evaluation of Solid-Solution Hardening in Several Binary Alloy Systems Using Diffusion Couples Combined with Nanoindentation	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	48A	4574	4582
167.	Varma, G. Sreevidya; Chaturvedi, Abhishek; Ramamurty, U.; Asokan, S.	Kinetics based evidence for intermediate phase in Ge ₁₅ Te ₈₅ - In-x(x) chalcogenide glasses	JOURNAL OF NON-CRYSTALLINE SOLIDS	471	251	255
168.	Jayaraman, Ashwin; Kiran, M. S. R. N.; Ramamurty, Upadrasta	Mechanical Anisotropy in Austenitic NiMnGa Alloy: Nanoindentation Studies	CRYSTALS	7		
169.	Zhao, Yakai; Lee, Dong-Hyun; Lee, Jung-A; Kim, Woo-Jin; Han, Heung Nam; Ramamurty, Upadrasta; Suh, Jin-Yoo; Jang, Jae-il	Hydrogen-induced nanohardness variations in a CoCrFeMnNi high-entropy alloy	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	42	12015	12021
170.	Ayiriveetil, Arunbabu; Varma, G. Sreevidya; Chaturvedi, Abhishek; Sabapathy, Tamilarasan; Ramamurty, Upadrasta; Asokan, Sundarrajan	Structural, mechanical and optical studies on ultrafast laser inscribed chalcogenide glass waveguide	OPTICAL MATERIALS	66	386	391
171.	Patel, Subodh Nath; Jayaram, Vikram; Banerjee, Dipankar	Thick coatings of porous zirconia by anodization of zirconium in an organic electrolyte	SURFACE & COATINGS TECHNOLOGY	323	2	9
172.	Mohanty, S.; Maity, T. N.; Mukhopadhyay, S.; Sarkar, S.; Gurao, N. P.; Bhowmick, S.; Biswas, Krishanu	Powder metallurgical processing of equiatomic AlCoCrFeNi high entropy alloy: Microstructure and mechanical properties	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	679	299	313
173.	Chakrabarti, Tamoghna; Verma, Nisha; Manna, Sukriti	Grain boundary driven Plateau-Rayleigh instability in multilayer nanocrystalline thin film: A phase-field study	MATERIALS & DESIGN	119	425	436
174.	Boenisch, Matthias; Panigrahi, Ajit; Calin, Mariana; Waitz, Thomas; Zehetbauer, Michael; Skrotzki, Werner; Eckert, Juergen	Thermal stability and latent heat of Nb-rich martensitic Ti-Nb alloys	JOURNAL OF ALLOYS AND COMPOUNDS	697	300	309
175.	Chatterjee, Dipanwita; Akash, R.; Kamalnath, K.; Ahmad, Rafia; Singh, Abhishek Kumar; Ravishankar, N.	Orientation Selection during Heterogeneous Nucleation: Implications for Heterogeneous Catalysis	JOURNAL OF PHYSICAL CHEMISTRY C	121	10027	10037

176.	Anjaneya, K. C.; Singh, Mahander Pratap	Synthesis and properties of gadolinium doped ceria electrolyte for IT-SOFCs by EDTA-citrate complexing method	JOURNAL OF ALLOYS AND COMPOUNDS	695	871	876
177.	Mohammad, Ashfaq; Al-Ahmari, Abdulrahman M.; Balla, Vamsi Krishna; Das, Mitun; Datta, Susmit; Yadav, Devinder; Ram, G. D. Janaki	In vitro wear, corrosion and biocompatibility of electron beam melted gamma-TiAl	MATERIALS & DESIGN	133	186	194
178.	Rao, Badari Narayana; Kaviraj, P.; Vaibavi, S. R.; Kumar, Amit; Bajpai, Saumendra Kumar; Arockiarajan, A.	Investigation of magnetoelectric properties and biocompatibility of CoFe ₂ O ₄ -BaTiO ₃ core-shell nanoparticles for biomedical applications	JOURNAL OF APPLIED PHYSICS	122		
179.	Prabu, S. S. Mani; Madhu, H. C.; Perugu, Chandra S.; Akash, K.; Kumar, P. Ajay; Kailas, Satish V.; Anbarasu, Manivannan; Palani, I. A.	Microstructure, mechanical properties and shape memory behaviour of friction stir welded nitinol	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	693	233	236
180.	Kumbhakar, Partha; Biswas, Subrata; Tiwary, Chandra S.; Kumbhakar, Pathik	Near white light emission and enhanced photocatalytic activity by tweaking surface defects of coaxial ZnO@ZnS core-shell nanorods	JOURNAL OF APPLIED PHYSICS	121		
181.	Upadhyay, Ashutosh; Pandey, Rishikesh; Singh, Akhilesh Kumar	Origin of ferroelectric P-E loop in cubic compositions and structure of poled (1-x)Bi(Mg ^{1/2} Zr ^{1/2})O-3-xPbTiO(3) piezoceramics	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	100	1743	1750
182.	Rejil, C. Maxwell; Muthukumar, S.; Sharan, C.; Gill, S. P.; Dong, H. B.	Interlayer Engineering on Friction Welded Titanium Tube to Stainless Steel Tube Plate by External Tool Process	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	70	691	701
183.	Kumar, Ajay P.; Yadav, Devinder; Perugu, Chandra S.; Kailas, Satish V.	Influence of particulate reinforcement on microstructure evolution and tensile properties of in-situ polymer derived MMC by friction stir processing	MATERIALS & DESIGN	113	99	108
184.	Roy, Arijit; Nani, E. S.; Lahiri, Arka; Gururajan, M. P.	Interfacial free energy anisotropy driven faceting of precipitates	PHILOSOPHICAL MAGAZINE	97	2705	2735
185.	Karthiselva, N. S.; Kashyap, Sanjay; Yadav, Devinder; Murty, B. S.; Bakshi, Srinivasa R.	Densification mechanisms during reactive spark plasma sintering of Titanium diboride and Zirconium diboride	PHILOSOPHICAL MAGAZINE	97	1588	1609