

DEPARTMENT OF MATERIALS ENGINEERING

PUBLICATIONS - 2016

Sl No	Authors	Title of Paper	Name of Journal	Volume	Page Numbers
1.	Kumar, Praveen; Kawasaki, Megumi; Langdon, Terence G.	Review: Overcoming the paradox of strength and ductility in ultrafine-grained materials at low temperatures	JOURNAL OF MATERIALS SCIENCE	51	7-18
2.	Praveen, S.; Basu, Joysurya; Kashyap, Sanjay; Kottada, Ravi Sankar	Exceptional resistance to grain growth in nanocrystalline CoCrFeNi high entropy alloy at high homologous temperatures	JOURNAL OF ALLOYS AND COMPOUNDS	662	361-7
3.	Kumar, Sachin; Raj, Shammy; Sarkar, Kishor; Chatterjee, Kaushik	Engineering a multi-biofunctional composite using poly(ethylenimine) decorated graphene oxide for bone tissue regeneration	NANOSCALE	8	6820-36
4.	Pawar, Shital Patangrao; Biswas, Sourav; Kar, Goutam Prasanna; Bose, Suryasarathi	High frequency millimetre wave absorbers derived from polymeric nanocomposites	POLYMER	84	398-419
5.	Dasgupta, Nandita; Ranjan, Shivendu; Rajendran, Bhavapriya; Manickam, Venkatraman; Ramalingam, Chidambaram; Avadhani, Ganesh S.; Kumar, Ashutosh	Thermal co-reduction approach to vary size of silver nanoparticle: its microbial and cellular toxicology	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	23	4149-63
6.	Lee, Dong-Hyun; Seok, Moo-Young; Zhao, Yakai; Choi, In-Chul; He, Junyang; Lu, Zhaoping; Suh, Jin-Yoo; Ramamurty, Upadrasta; Kawasaki, Megumi; Langdon, Terence G.; Jang, Jae-il	Spherical nanoindentation creep behavior of nanocrystalline and coarse-grained CoCrFeMnNi high-entropy alloys	ACTA MATERIALIA	109	314-22
7.	Kochat, Vidya; Tiwary, Chandra Sekhar; Biswas, Tathagata; Ramalingam, Gopalakrishnan; Hsieh, Kimberly; Chattopadhyay, Kamanio; Raghavan, Srinivasan; Jain, Manish; Ghosh, Arindam	Magnitude and Origin of Electrical Noise at Individual Grain Boundaries in Graphene	NANO LETTERS	16	562-7
8.	Jayanthi, Swetha; Eswar, Neerugatti KrishnaRao; Singh, Satyapaul A.; Chatterjee, Kaushik; Madras, Giridhar; Sood, A. K.	Macroporous three-dimensional graphene oxide foams for dye adsorption and antibacterial applications	RSC ADVANCES	6	1231-42
9.	Zhong, C.; Zhang, H.; Cao, Q. P.; Wang, X. D.; Zhang, D. X.; Ramamurty, U.; Jiang, J. Z.	On the critical thickness for non-localized to localized plastic flow transition in metallic glasses: A molecular dynamics study	SCRIPTA MATERIALIA	114	93-7

10.	Biswas, S.; Kole, A. K.; Tiwary, C. S.; Kumbhakar, P.	Enhanced nonlinear optical properties of graphene oxide-silver nanocomposites measured by Z-scan technique	RSC ADVANCES	6	10319-25
11.	Singh, I.; Narasimhan, R.; Ramamurthy, Upadrasta	Cavitation-Induced Fracture Causes Nanocorrugations in Brittle Metallic Glasses	PHYSICAL REVIEW LETTERS	117	Article 44302
12.	Khanum, Khadija K.; Ramamurthy, Praveen C.	Instigating network structure in bulk heterojunction organic solar cells creating a unique approach in augmenting the optical absorption	POLYMER	91	146-55
13.	Manjumeena, R.; Venkatesan, R.; Duraibabu, D.; Sudha, J.; Rajendran, N.; Kalaichelvan, P. T.	Green Nanosilver as Reinforcing Eco-Friendly Additive to Epoxy Coating for Augmented Anticorrosive and Antimicrobial Behavior	SILICON	8	277-98
14.	Khatua, Dipak Kumar; Kalaskar, Abhijeet; Ranjan, Rajeev	Tuning Photoluminescence Response by Electric Field in Electrically Soft Ferroelectrics	PHYSICAL REVIEW LETTERS	116	Article 117601
15.	Khatua, Dipak Kumar; Lalitha, K., V; Fancher, Chris M.; Jones, Jacob L.; Ranjan, Rajeev	Anomalous reduction in domain wall displacement at the morphotropic phase boundary of the piezoelectric alloy system PbTiO ₃ -BiScO ₃	PHYSICAL REVIEW B	93	Article 104103
16.	Biswas, Sourav; Kar, Goutam Prasanna; Bose, Suryasarathi	Simultaneous Improvement in Structural Properties and Microwave Shielding of Polymer Blends with Carbon Nanotubes	CHEMNANOMAT	2	140-8
17.	Rao, Badari Narayana; Olivi, Luca; Sathe, Vasant; Ranjan, Rajeev	Electric field and temperature dependence of the local structural disorder in the lead-free ferroelectric Na _{0.5} Bi _{0.5} TiO ₃ : An EXAFS study	PHYSICAL REVIEW B	93	Article 24106
18.	Baheti, Varun A.; Islam, Sarfaraj; Kumar, Praveen; Ravi, Raju; Narayanan, Ramesh; Dong Hongqun; Vuorinen, Vesa; Laurila, Tomi; Paul, Alope	Effect of Ni content on the diffusion-controlled growth of the product phases in the Cu(Ni)-Sn system	PHILOSOPHICAL MAGAZINE	96	15-30
19.	Kumar, Sachin; Raj, Shammy; Jain, Shubham; Chatterjee, Kaushik	Multifunctional biodegradable polymer nanocomposite incorporating graphene-silver hybrid for biomedical applications	MATERIALS & DESIGN	108	319-32

20.	Zhong, C.; Zhang, H.; Cao, Q. P.; Wang, X. D.; Zhang, D. X.; Ramamurty, U.; Jiang, J. Z.	Size distribution of shear transformation zones and their evolution towards the formation of shear bands in metallic glasses	JOURNAL OF NON-CRYSTALLINE SOLIDS	445	61-8
21.	Kar, Goutam Prasanna; Biswas, Sourav; Bose, Suryasarathi	Tuning the microwave absorption through engineered nanostructures in co-continuous polymer blends	MATERIALS RESEARCH EXPRESS	3	Article 64002
22.	Ranjan, Shivendu; Dasgupta, Nandita; Rajendran, Bhavapriya; Avadhani, Ganesh S.; Ramalingam, Chidambaram; Kumar, Ashutosh	Microwave-irradiation-assisted hybrid chemical approach for titanium dioxide nanoparticle synthesis: microbial and cytotoxicological evaluation	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	23	12287-302
23.	Upadhyay, Rahul; Naskar, Sharmistha; Bhaskar, Nitu; Bose, Suryasarathi; Basu, Bikramjit	Modulation of Protein Adsorption and Cell Proliferation on Polyethylene Immobilized Graphene Oxide Reinforced HDPE Bionanocomposites	ACS APPLIED MATERIALS & INTERFACES	8	11954-68
24.	Oberoi, Sudhi; Sonawane, Dipali; Kumar, Praveen	Effect of strain rate and filler size on mechanical behavior of a Cu filled elastomer based composite	COMPOSITES SCIENCE AND TECHNOLOGY	127	185-92
25.	Zheng, Yufeng; Williams, Robert E. A.; Nag, Soumya; Banerjee, Rajarshi; Fraser, Hamish L.; Banerjee, Dipankar	The effect of alloy composition on instabilities in the beta phase of titanium alloys	SCRIPTA MATERIALIA	116	49-52
26.	Khatua, Dipak Kumar; Senyshyn, Anatoliy; Ranjan, Rajeev	Long-period modulated structure and electric-field-induced structural transformation in Na _{0.5} Bi _{0.5} TiO ₃ -based lead-free piezoelectrics	PHYSICAL REVIEW B	93	Article 134106
27.	Kurapati, Rajendra; Reddy, U. Venkateswara; Raichur, Ashok M.; Suryaprakash, N.	Facile synthesis of Graphene Oxide/Double-stranded DNA composite liquid crystals and Hydrogels	JOURNAL OF CHEMICAL SCIENCES	128	325-30
28.	Balachandran, Shanoob; Kashiwar, Ankush; Choudhury, Abhik; Banerjee, Dipankar; Shi, Rongpei; Wang, Yunzhi	On variant distribution and coarsening behavior of the a phase in a metastable beta titanium alloy	ACTA MATERIALIA	106	374-87
29.	Xavier, Priti; Bose, Suryasarathi	Nanomechanical Mapping, Hierarchical Polymer Dynamics, and Miscibility in the Presence of Chain-End Grafted Nanoparticles	MACROMOLECULES	49	1036-48

30.	Natarajan, Janeni; Madras, Giridhar; Chatterjee, Kaushik	Maltitol-based biodegradable polyesters with tailored degradation and controlled release for bone regeneration	RSC ADVANCES	6	40539-51
31.	Eswar, Neerugatti KrishnaRao; Ramamurthy, Praveen C.; Madras, Giridhar	Novel synergistic photocatalytic degradation of antibiotics and bacteria using V-N doped TiO ₂ under visible light: the state of nitrogen in V-doped TiO ₂	NEW JOURNAL OF CHEMISTRY	40	3464-75
32.	Sharma, Maya; Srinivas, Vijay; Madras, Giridhar; Bose, Suryasarathi	Outstanding dielectric constant and piezoelectric coefficient in electrospun nanofiber mats of PVDF containing silver decorated multiwall carbon nanotubes: assessing through piezoresponse force microscopy	RSC ADVANCES	6	6251-8
33.	Seok, Moo-Young; Zhao, Yakai; Lee, Jung-A; Mohamed, Reda M.; Al-Harbi, Laila M.; Al-Ghamdi, Mohammed S.; Singh, Gaurav; Ramamurthy, Upadrasta; Jang, Jae-il	On the contributions of different micromechanisms for enhancement in the strength of Ti-6Al-4V alloy upon B addition: A nanomechanical analysis	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	649	123-7
34.	Anandhakumar, S.; Gokul, P.; Raichur, A. M.	Stimuli-responsive weak polyelectrolyte multilayer films: A thin film platform for self triggered multi-drug delivery	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	58	622-8
35.	Samantaray, Dipti; Chaudhuri, Atanu; Borah, Utpal; Bhaduri, A. K.; Dutta, Pradip	Role of grain boundary ferrite layer in dynamic recrystallization of semi-solid processed type 304L austenitic stainless steel	MATERIALS LETTERS	179	65-8
36.	Suryawanshi, Jyoti; Prashanth, K. G.; Scudino, S.; Eckert, J.; Prakash, Om; Ramamurthy, U.	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting	ACTA MATERIALIA	115	285-94
37.	Gaur, Anupama; Shukla, Rahul; Brajesh, Kumar; Pal, Arkadeb; Chatterji, Sandeep; Ranjan, Rajeev; Maiti, Pralay	Processing and nanoclay induced piezoelectricity in poly(vinylidene fluoride-co-hexafluoro propylene) nanohybrid for device application	POLYMER	97	362-9
38.	Bhat, Soumya S.; Li, Wei; Cheetham, Anthony K.; Waghmare, Umesh V.; Ramamurthy, Upadrasta	A first-principles study of pressure-induced phase transformation in a rare-earth formate framework	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	19032-6

39.	Hoque, S. Manjura; Tariq, Mehrin; Liba, S. I.; Salehin, F.; Mahmood, Z. H.; Khan, M. N. I.; Chattopadhyay, K.; Islam, Rafiqul; Akhter, S.	Thermo-therapeutic applications of chitosan- and PEG-coated NiFe ₂ O ₄ nanoparticles	NANOTECHNOLOGY	27	Article 285702
40.	Sharma, Amit; Mohan, S.; Suwas, Satyam	Development of bi-axial preferred orientation in epitaxial NiMnGa thin films and its consequence on magnetic properties	ACTA MATERIALIA	113	259-71
41.	Rao, Badari Narayana; Senyshyn, Anatoliy; Olivi, Luca; Sathe, Vasant; Ranjan, Rajeev	Maintaining local displacive disorders in Na _{0.5} Bi _{0.5} TiO ₃ piezoceramics by K _{0.5} Bi _{0.5} TiO ₃ substitution	JOURNAL OF THE EUROPEAN CERAMIC SOCIETY	36	1961-72
42.	Kumar, Ram; Raut, Devaraj; Ramamurthy, Upadrasta; Rao, C. N. R.	Remarkable Improvement in the Mechanical Properties and CO ₂ Uptake of MOFs Brought About by Covalent Linking to Graphene	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	55	7857-61
43.	Barman, Binay Kumar Deb; Singh, Shobhit Pratap; Kumar, Praveen	Processing and mechanical behavior of Cu-Bi alloys with high volume fraction of Bi: Suitability for high temperature soldering application	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	666	339-49
44.	Manchineella, Shivaprasad; Thrivikraman, Greeshma; Khanum, Khadija K.; Ramamurthy, Praveen C.; Basu, Bikramjit; Govindaraju, T.	Pigmented Silk Nanofibrous Composite for Skeletal Muscle Tissue Engineering	ADVANCED HEALTHCARE MATERIALS	5	1222-32
45.	Choudhury, Abhik; Yabansu, Yuksel C.; Kalidindi, Surya R.; Dennstedt, Anne	Quantification and classification of microstructures in ternary eutectic alloys using 2-point spatial correlations and principal component analyses	ACTA MATERIALIA	110	131-41
46.	Jacob, Kallarackel T.; Rajput, Arneet	Gibbs Energy of Formation of Eu ₃ O ₄ and EuO	JOURNAL OF CHEMICAL AND ENGINEERING DATA	61	1710-17
47.	Zheng, Yufeng; Banerjee, Dipankar; Fraser, Hamish L.	A nano-scale instability in the beta phase of dilute Ti-Mo alloys	SCRIPTA MATERIALIA	116	131-4
48.	Rapheal, G.; Kumar, S.; Scharnagl, N.; Blawert, C.	Effect of current density on the microstructure and corrosion properties of plasma electrolytic oxidation (PEO) coatings on AM50 Mg alloy produced in an electrolyte containing clay additives	SURFACE & COATINGS TECHNOLOGY	289	150-64
49.	Mural, Prasanna Kumar S.; Kumar, Banothu; Madras, Giridhar; Bose, Suryasarathi	Chitosan Immobilized Porous Polyolefin As Sustainable and Efficient Antibacterial Membranes	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	4	862-70

50.	Chetty, R.; Bali, A.; Femi, O. E.; Chattopadhyay, K.; Mallik, R. C.	Thermoelectric Properties of In-Doped Cu ₂ ZnGeSe ₄	JOURNAL OF ELECTRONIC MATERIALS	45	1625-32
51.	Kaur, Palvinder; Kumar, Sanjeev; Chen, Chi Liang; Hsu, Ying-Ya; Chan, Ting-Shan; Dong, Chung-Li; Srivastava, C.; Singh, Anupinder; Rao, S. M.	Investigations on structural, magnetic and electronic structure of Gd-doped ZnO nanostructures synthesized using sol-gel technique	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	122	Article 161
52.	Basumatary, Himalay; Jeyaramane, Arout Chelvane; Kamat, S. V.; Ranjan, Rajeev	Structural and Magnetic Properties of Amorphous Tb-Dy-Fe-Co Thin Films	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM	29	863-7
53.	Santra, Sangeeta; Paul, Aloke	Effect of Ga content in Cu(Ga) on the growth of V ₃ Ga following bronze technique	INTERMETALLICS	70	42887
54.	Ezhilselvi, V.; Nithin, J.; Balaraju, J. N.; Subramanian, S.	The influence of current density on the morphology and corrosion properties of MAO coatings on AZ31B magnesium alloy	SURFACE & COATINGS TECHNOLOGY	288	221-9
55.	Kiruthika, P.; Makineni, S. K.; Srivastava, C.; Chattopadhyay, K.; Paul, A.	Growth mechanism of the interdiffusion zone between platinum modified bond coats and single crystal superalloys	ACTA MATERIALIA	105	438-48
56.	Suresh, K. S.; Rollett, A. D.; Suwas, Satyam	Evolution of Texture and Microstructure in Deformed and Annealed Copper-Iron Multilayer	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	852-68
57.	Xavier, Priti; Rao, Praveen; Bose, Suryasarathi	Nanoparticle induced miscibility in LCST polymer blends: critically assessing the enthalpic and entropic effects	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	47-64
58.	Bhingardive, Viraj; Kar, Goutam Prasanna; Bose, Suryasarathi	Lightweight, flexible and ultra-thin sandwich architectures for screening electromagnetic radiation	RSC ADVANCES	6	70018-24
59.	Jagtap, Piyush; Kumar, Amit; Kumar, Praveen	Effect of electric field on creep and stress-relaxation behavior of carbon nanotube forests	RSC ADVANCES	6	67685-92
60.	Pawar, Shital Patangrao; Gandhi, Mounika; Bose, Suryasarathi	High performance electromagnetic wave absorbers derived from PC/SAN blends containing multiwall carbon nanotubes and Fe ₃ O ₄ decorated onto graphene oxide sheets	RSC ADVANCES	6	37633-45

61.	Sharma, Maya; Padmavathy, Nagarajan; Remanan, Sanjay; Madras, Giridhar; Bose, Suryasarathi	Facile one-pot scalable strategy to engineer biocidal silver nanocluster assembly on thiolated PVDF membranes for water purification	RSC ADVANCES	6	38972-83
62.	Kurapati, Rajendra; Vaidyanathan, Mahalakshmi; Raichur, Ashok M.	Synergistic photothermal antimicrobial therapy using graphene oxide/polymer composite layer-by-layer thin films	RSC ADVANCES	6	39852-60
63.	Mural, Prasanna Kumar S.; Jain, Shubham; Kumar, Sachin; Madras, Giridhar; Bose, Suryasarathi	Unimpeded permeation of water through biocidal graphene oxide sheets anchored on to 3D porous polyolefinic membranes	NANOSCALE	8	8048-57
64.	Bose, Suryasarathi; Sharma, Maya; Bharati, Avanish; Moldenaers, Paula; Cardinaels, Ruth	A strategy to achieve enhanced electromagnetic interference shielding at ultra-low concentration of multiwall carbon nanotubes in P alpha MSAN/PMMA blends in the presence of a random copolymer PS-r-PMMA	RSC ADVANCES	6	26959-66
65.	Sharma, Deepak; Tiwari, Rajesh Kumar; Sharma, Rohan; Narayanan, P. Ramesh; Kumar, Praveen	Two-Phase Metallic Thermal Interface Materials Processed Through Liquid Phase Sintering Followed by Accumulative Roll Bonding	IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY	6	58-66
66.	Rohini, Rani; Lasitha, K.; Bose, Suryasarathi	Epoxy composites containing cobalt(II)-porphine anchored multiwalled carbon nanotubes as thin electromagnetic interference shields, adhesives and coatings	JOURNAL OF MATERIALS CHEMISTRY C	4	352-61
67.	Tiwary, C. S.; Vishnu, D.; Kole, A. K.; Brahmanandam, J.; Mahapatra, D. R.; Kumbhakar, P.; Chattopadhyay, K.	Stabilization of the high-temperature and high-pressure cubic phase of ZnO by temperature-controlled milling	JOURNAL OF MATERIALS SCIENCE	51	126-37
68.	SeethaLekshmi, Sunil; Mangalampalli, Kiran Sri Rama Narasimha; Hareesh, Unnikrishnan Nair S.; Ramamurty, Upradrasta; Varughese, Sunil	Structural Snapshots of Metastable Intermediates Reveals Sequential Addition of Growth Units in the Formation of an Archetypal Coordination Complex: Anisotropic Layer Migration and Solid-State Thermo-chromic Transitions	CRYSTAL GROWTH & DESIGN	16	7271-77

69.	Natarajan, Janeni; Madras, Giridhar; Chatterjee, Kaushik	Tailoring the degradation rate and release kinetics from poly(galactitol sebacate) by blending with chitosan, alginate or ethyl cellulose	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	93	1591-602
70.	Jagdish, Anakkavoor Krishnaswamy; Kumar, Gangineni Pavan; Ramamurthy, Praveen C.; Mahapatra, Debiprosad Roy; Hegde, Gopalkrishna	Understanding coupled electro-thermal processes in the catastrophic failure of organic electronic devices	ORGANIC ELECTRONICS	39	354-60
71.	Palanisamy, Dhanalakshmi; Singh, Shailesh; Srivastava, Chandan; Madras, Giridhar; Chattopadhyay, Kamanio	Predicting Pathways for Synthesis of Ferromagnetic tau Phase in Binary Heusler Alloy Al-55 pct Mn Through Understanding of the Kinetics of epsilon-tau Transformation	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	6555-68
72.	Madhavan, R.; Suwas, S.	Micro-mechanisms of deformation texture evolution in nanocrystalline nickel-cobalt alloys	ACTA MATERIALIA	121	46-58
73.	Seok, Moo-Young; Lee, Jung-A; Lee, Dong-Hyun; Ramamurty, Upadrasta; Nambu, Shoichi; Koseki, Toshihiko; Jang, Jae-il	Decoupling the contributions of constituent layers to the strength and ductility of a multi-layered steel	ACTA MATERIALIA	121	164-72
74.	Bora, Pritom J.; Mallik, Nitin; Ramamurthy, Praveen C.; Kishore; Madras, Giridhar	Poly(vinyl butyral) - polyaniline-magnetically functionalized fly ash cenosphere composite film for electromagnetic interference shielding	COMPOSITES PART B-ENGINEERING	106	224-33
75.	Sharma, Amit; Mohan, S.; Suwas, Satyam	The influence of deposition temperature on the structure, microstructure, morphology and magnetic properties of sputter deposited nickel thin films	THIN SOLID FILMS	619	91-101
76.	von Seggern, Falk; Keskin, Inna; Koos, Erin; Kruk, Robert; Hahn, Horst; Dasgupta, Subho	Temperature-Dependent Performance of Printed Field-Effect Transistors with Solid Polymer Electrolyte Gating	ACS Applied Materials & Interfaces	8	31757-63
77.	Singh, Shobhit Pratap; Barman, Binay Kumar Deb; Kumar, Praveen	Cu-Bi alloys with high volume fraction of Bi: A material potentially suitable for thermal surge protection and energy storage	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	677	140-52

78.	Santra, S.; Makineni, S. K.; Suwas, S.; Chattopadhyay, K.; Paul, A.	Role of Ti on growth, morphology and microtexture evolution of A15-based V3Ga superconductor by bronze technique	MATERIALS & DESIGN	110	404-13
79.	Xavier, Priti; Nair, Keerthi M.; Lasitha, K.; Bose, Suryasarathi	Is kinetic polymer arrest very specific to multiwalled carbon nanotubes?	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	29226-38
80.	Bali, Ashoka; Chetty, Raju; Sharma, Amit; Rogl, Gerda; Heinrich, Patrick; Suwas, Satyam; Misra, Dinesh Kumar; Rogl, Peter; Bauer, Ernst; Mallik, Ramesh Chandra	Thermoelectric properties of In and I doped PbTe	JOURNAL OF APPLIED PHYSICS	120	
81.	Bhaskar, Nitu; Padmavathy, Nagarajan; Jain, Shubham; Bose, Suryasarathi; Basu, Bikramjit	Modulated in Vitro Biocompatibility of a Unique Cross-Linked Salicylic Acid-Poly(epsilon-caprolactone)-Based Biodegradable Polymer	ACS APPLIED MATERIALS & INTERFACES	8	29721-33
82.	Dasgupta, Subho; Das, Bijoy; Li, Qiang; Wang, Di; Baby, Tessy T.; Indris, Sylvio; Knapp, Michael; Ehrenberg, Helmut; Fink, Karin; Kruk, Robert; Hahn, Horst	Toward On-and-Off Magnetism: Reversible Electrochemistry to Control Magnetic Phase Transitions in Spinel Ferrites	ADVANCED FUNCTIONAL MATERIALS	26	7507-15
83.	Paul, Ida Evangeline; Rajeshwari, A.; Satija, Jitendra; Raichur, Ashok M.; Chandrasekaran, N.; Mukherjee, Amitava	Fluorescence Based Study for Melamine Detection Using Gold Colloidal Solutions	JOURNAL OF FLUORESCENCE	26	2225-35
84.	Saravanan, L.; Subramanian, S.	Surface chemical properties and selective flocculation studies on alumina and silica suspensions in the presence of xanthan gum	MINERALS ENGINEERING	98	213-22
85.	Kole, A. K.; Biswas, S.; Tiwary, C. S.; Kumbhakar, P.	A facile synthesis of graphene oxide-ZnS/ZnO nanocomposites and observations of thermal quenching of visible photoluminescence emission and nonlinear optical properties	JOURNAL OF LUMINESCENCE	179	211-21
86.	Shete, Mayuresh K.; Singh, I.; Narasimhan, R.; Ramamurty, U.	Effect of strain hardening and volume fraction of crystalline phase on strength and ductility of bulk metallic glass composites	SCRIPTA MATERIALIA	124	51-5
87.	Khatua, Dipak Kumar; Lalitha, K., V; Fancher, Chris M.; Jones, Jacob L.; Ranjan, Rajeev	Coupled domain wall motion, lattice strain and phase transformation in morphotropic phase boundary composition of PbTiO3-BiScO3 piezoelectric ceramic	JOURNAL OF APPLIED PHYSICS	120	Article 154104

88.	Roy, Syamantak; Hazra, Arpan; Bandyopadhyay, Arkamita; Raut, Devraj; Madhuri, P. Lakshmi; Rao, D. S. Shankar; Ramamurty, Upadrasta; Pati, Swapan Kumar; Prasad, S. Krishna; Maji, Tapas Kumar	Reversible Polymorphism, Liquid Crystallinity, and Stimuli-Responsive Luminescence in a Bola-amphiphilic pi-System: Structure-Property Correlations Through Nanoindentation and DFT Calculations	JOURNAL OF PHYSICAL CHEMISTRY LETTERS	7	4086-92
89.	Femi, Olu Emmanuel; Akkiraju, Karthik; Murthy, B. S.; Ravishankar, N.; Chattopadhyay, K.	Effect of processing route on the bipolar contribution to the thermoelectric properties of n-type eutectic Bi _{22.5} Sb _{7.5} Te ₇₀ alloy	JOURNAL OF ALLOYS AND COMPOUNDS	682	791-8
90.	Stoesser, Anna; von Seggern, Falk; Purohit, Suneeti; Nasr, Babak; Kruk, Robert; Dehm, Simone; Wang, Di; Hahn, Horst; Dasgupta, Subho	Facile fabrication of electrolyte-gated single-crystalline cuprous oxide nanowire field-effect transistors	NANOTECHNOLOGY	27	Article 415205
91.	Katti, Prajakta; Bose, Suryasarathi; Kumar, S.	Tailored interface resulting in improvement in mechanical properties of epoxy composites containing poly (ether ether ketone) grafted multiwall carbon nanotubes	POLYMER	102	43-53
92.	Arief, Injamamul; Biswas, Sourav; Bose, Suryasarathi	Tuning the Shape Anisotropy and Electromagnetic Screening Ability of Ultrahigh Magnetic Polymer and Surfactant-Capped FeCo Nanorods and Nanocubes in Soft Conducting Composites	ACS APPLIED MATERIALS & INTERFACES	8	26285-97
93.	Sharma, Amit; Mohan, S.; Suwas, Satyam	The effect of the deposition rate on the crystallographic texture, microstructure evolution and magnetic properties in sputter deposited Ni-Mn-Ga thin films	THIN SOLID FILMS	616	530-42
94.	Sonawane, Dipali; Oberoi, Sudhi; Kumar, Praveen	Effect of aspect ratio of test specimens on quasistatic compression loading and stress-relaxation of PDMS and a Cu-filled-PDMS composite	POLYMER TESTING	55	173-83
95.	Sharma, Amit; Mohan, Sangeneni; Suwas, Satyam	Structural transformations in highly oriented seven modulated martensite Ni-Mn-Ga thin films on an Al ₂ O ₃ (11 $\bar{2}$) substrate	JOURNAL OF MATERIALS RESEARCH	31	3016-26

96.	Chawake, Niraj; Varanasi, Rama Srinivas; Jaswanth, B.; Pinto, Linford; Kashyap, Sanjay; Koundinya, N. T. B. N.; Srivastav, Ajeet K.; Jain, Anshul; Sundararaman, M.; Kottada, Ravi Sankar	Evolution of morphology and texture during high energy ball milling of Ni and Ni-5 wt%Cu powders	MATERIALS CHARACTERIZATION	120	90-6
97.	Sharma, Amit; Mohan, S.; Suwas, Satyam	Structural, microstructural and magnetic investigations on the epitaxially grown Ni ₂ MnGa(010) films on MgO(100) substrate	INTERMETALLICS	77	41426
98.	Saiphaneendra, Bachu; Srivastava, Avi Krishna; Srivastava, Chandan	Synthesis of Multimetal-Graphene Composite by Mechanical Milling	JOM	68	2574-78
99.	Meka, Sai Rama Krishna; Jain, Shubham; Chatterjee, Kaushik	Strontium eluting nanofibers augment stem cell osteogenesis for bone tissue regeneration	COLLOIDS AND SURFACES B-BIOINTERFACES	146	649-56
100.	Pandey, P.; Tiwary, C. S.; Chattopadhyay, K.	Effects of Minute Addition of Ni on Microstructure and Mechanical Properties of Sn-Zn Eutectic Alloy	JOURNAL OF ELECTRONIC MATERIALS	45	5468-77
101.	Paul, Ida Evangeline; Raichur, Ashok M.; Chandrasekaran, N.; Mukherjee, Amitava	Fluorometric sensing of endotoxin based on aggregation of CTAB capped gold nanospheres	JOURNAL OF LUMINESCENCE	178	106-14
102.	Natarajan, Janeni; Dasgupta, Queeny; Shetty, Shreya N.; Sarkar, Kishor; Madras, Giridhar; Chatterjee, Kaushik	Poly(ester amide)s from Soybean Oil for Modulated Release and Bone Regeneration	ACS APPLIED MATERIALS & INTERFACES	8	25170-84
103.	Kar, Goutam Prasanna; Biswas, Sourav; Bose, Suryasarathi	X-ray micro computed tomography, segmental relaxation and crystallization kinetics in interfacial stabilized co-continuous immiscible PVDF/ABS blends	POLYMER	101	291-304
104.	Bankoti, A. K. S.; Mondal, A. K.; Dieringa, Hajo; Ray, B. C.; Kumar, S.	Impression creep behaviour of squeeze-cast Ca and Sb added AZ91 magnesium alloy	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	673	332-45
105.	Pulakkat, Sreeranjini; Balaji, Sai A.; Rangarajan, Annapoorni; Raichur, Ashok M.	Surface Engineered Protein Nanoparticles With Hyaluronic Acid Based Multilayers For Targeted Delivery Of Anticancer Agents	ACS APPLIED MATERIALS & INTERFACES	8	23437-49
106.	Brajesh, Kumar; Abebe, Muluaem; Ranjan, Rajeev	Structural transformations in morphotropic-phase-boundary composition of the lead-free piezoelectric system Ba(Ti _{0.8} Zr _{0.2})O ₃ - (Ba _{0.7} Ca _{0.3}) TiO ₃	PHYSICAL REVIEW B	94	Article 104108

107.	Narayan, Bastola; Sorb, Y. A.; Loukya, B.; Samanta, Atanu; Senyshyn, Anatoliy; Datta, Ranjan; Singh, Abhishek Kumar; Narayana, Chandrabhas; Ranjan, Rajeev	Interferroelectric transition as another manifestation of intrinsic size effect in ferroelectrics	PHYSICAL REVIEW B	94	Article 104104
108.	Bommakanti, Aashranth; Roy, Shibayan; Suwas, Satyam	Effect of hypoeutectic boron modification on the dynamic properties of Ti-6Al-4V alloy	JOURNAL OF MATERIALS RESEARCH	31	2804-16
109.	Bora, Pritom J.; Porwal, Mayuri; Vinoy, K. J.; Ramamurthy, Praveen C.; Madras, Giridhar	Influence of MnO ₂ decorated Fe nano cauliflowers on microwave absorption and impedance matching of polyvinylbutyral (PVB) matrix	MATERIALS RESEARCH EXPRESS	3	Article 95003
110.	Chawake, Niraj; Koundinya, N. T. S. N.; Kashyap, Sanjay; Srivastav, Ajeet K.; Yadav, Devinder; Mondal, R. A.; Kottada, Ravi Sankar	Formation of amorphous alumina during sintering of nanocrystalline B ₂ aluminides	MATERIALS CHARACTERIZATION	119	186-194
111.	Bora, Pritom J.; Vinoy, K. J.; Ramamurthy, Praveen C.; Kishore; Madras, Giridhar	Lightweight Polyaniline-Cobalt Coated Fly Ash Cenosphere Composite Film for Electromagnetic Interference Shielding	ELECTRONIC MATERIALS LETTERS	12	603-09
112.	Bhale, Pranav; Shastri, H.; Mondal, A. K.; Masanta, M.; Kumar, S.	Effect of Deep Cryogenic Treatment on Microstructure and Properties of AE42 Mg Alloy	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	25	3590-8
113.	Agrawalla, R. K.; Meriga, V.; Paul, R.; Chakraborty, A. K.; Mitra, A. K.	Solvothermal synthesis of a polyaniline nanocomposite - a prospective biosensor electrode material	EXPRESS POLYMER LETTERS	10	780-7
114.	Makineni, S. K.; Nithin, B.; Palanisamy, D.; Chattopadhyay, K.	Phase evolution and crystallography of precipitates during decomposition of new tungsten-free Co(Ni)-Mo-Al-Nb gamma-gamma ' superalloys at elevated temperatures	JOURNAL OF MATERIALS SCIENCE	51	7843-60
115.	Topolov, Vitaly Yu.; Brajesh, Kumar; Ranjan, Rajeev	Composition driven ferroelectric transformations in lead-free Ba(Ti _{1-x} Ce _x)O ₃ (0.02 ≤ x ≤ 0.10)	MATERIALS CHEMISTRY AND PHYSICS	179	152-9
116.	Zhong, C.; Zhang, H.; Cao, Q. P.; Wang, X. D.; Zhang, D. X.; Ramamurthy, U.; Jiang, J. Z.	Deformation behavior of metallic glasses with shear band like atomic structure: a molecular dynamics study	SCIENTIFIC REPORTS	6	Article 30935
117.	Jacob, K. T.; Gupta, Preeti; Han, Donglin; Uda, Tetsuya	Thermodynamic Properties of YbRhO ₃ and Phase Relations in the System Yb-Rh-O	JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION	37	503-9

118.	Ayiriveetil, Arunbabu; Sabapathy, Tamilarasan; Varma, G. Sreevidya; Ramamurthy, Upadrasta; Asokan, Sundarrajan	Structural and mechanical characterization on ultrafast laser written chalcogenide glass waveguides	OPTICAL MATERIALS EXPRESS	6	2530-6
119.	Jain, Shubham; Meka, Sai Rama Krishna; Chatterjee, Kaushik	Engineering a Piperine Eluting Nanofibrous Patch for Cancer Treatment	ACS BIOMATERIALS SCIENCE & ENGINEERING	2	1376-85
120.	Femi, Olu Emmanuel; Ravishankar, N.; Chattopadhyay, K.	Microstructure evolution and thermoelectric properties of Te-poor and Te-rich (Bi,Sb) ₂ Te ₃ prepared via solidification	JOURNAL OF MATERIALS SCIENCE	51	7254-65
121.	Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	PVDF membranes containing hybrid nanoparticles for adsorbing cationic dyes: physical insights and mechanism	MATERIALS RESEARCH EXPRESS	3	Article 75303
122.	Seetharnraju, Sindhu; Kumar, Shishir; Bharadwaj, Krishna B.; Madras, Giridhar; Raghavan, Srinivasan; Ramamurthy, Praveen Chandrashekarapura	Million-Fold Decrease in Polymer Moisture Permeability by a Graphene Monolayer	ACS NANO	10	6501-9
123.	Kumar, D. Ramesh; Elumalai, Rajasegaran; Raichur, Ashok M.; Sanjuktha, M.; Rajan, J. J.; Alavandi, S. V.; Vijayan, K. K.; Poornima, M.; Santiago, T. C.	Development of antiviral gene therapy for Monodon baculovirus using dsRNA loaded chitosan-dextran sulfate nanocapsule delivery system in Penaeus monodon post-larvae	ANTIVIRAL RESEARCH	131	124-30
124.	Badapanda, T.; Harichandan, R.; Kumar, T. Bheesma; Parida, S.; Rajput, S. S.; Mohapatra, P.; Anwar, S.; Ranjan, R.	Improvement in dielectric and ferroelectric property of dysprosium doped barium bismuth titanate ceramic	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	27	7211-21
125.	Basu, Abhisek; Jana, Rajesh; Ranjan, Rajeev; Mukherjee, Goutam Dev	Pressure effects on model ferroelectric BiFeO ₃ -PbTiO ₃ : Multiple phase transitions	PHYSICAL REVIEW B	93	Article 214114
126.	Pahal, Suman; Raichur, Ashok M.; Varma, Manoj M.	Subdiffraction-Resolution Optical Measurements of Molecular Transport in Thin Polymer Films	LANGMUIR	32	5460-67
127.	Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	Critical insights into the effect of shear on in situ reduction of graphene oxide in PVDF: assessing by rheo-dielectric measurements	MATERIALS RESEARCH EXPRESS	3	Article 65301
128.	Jacob, K. T.; Dixit, Apoorva; Rajput, Arneet	Stability field diagrams for Ln-O-Cl systems	BULLETIN OF MATERIALS SCIENCE	39	603-11

129.	Somaiah, Nalla; Sharma, Deepak; Kumar, Praveen	Electric current induced forward and anomalous backward mass transport	JOURNAL OF PHYSICS D-APPLIED PHYSICS	49	Article 20LT01
130.	Singh, Gaurav; Narayan, R. L.; Asiri, A. M.; Ramamurty, U.	Discrete drops in the electrical contact resistance during nanoindentation of a bulk metallic glass	APPLIED PHYSICS LETTERS	108	Article 181903
131.	Joshi, Chaitanya; Abinandanan, T. A.; Choudhury, Abhik	Phase field modelling of rayleigh instabilities in the solid-state	ACTA MATERIALIA	109	286-91
132.	Gebrekrstos, Amanuel; Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	New Physical Insights into Shear History Dependent Polymorphism in Poly(vinylidene fluoride)	CRYSTAL GROWTH & DESIGN	16	2937-44
133.	Jacob, K. T.; Mansoor, Amal K.	Gibbs energy of formation of bismuth(III) oxide	THERMOCHIMICA ACTA	630	90-6
134.	Biswas, S.; Kole, A. K.; Tiwary, C. S.; Kumbhakar, P.	Observation of Size-Dependent Electron-Phonon Scattering and Temperature-Dependent Photoluminescence Quenching in Triangular-Shaped Silver Nanoparticles	PLASMONICS	11	593-600
135.	Palit, Mithun; Banumathy, S.; Singh, A. K.; Pandian, S.; Chattopadhyay, Kamanio	Orientation Selection and Microstructural Evolution in Directionally Solidified Tb _{0.3} Dy _{0.7} Fe _{1.95}	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	1729-39
136.	Raghupathy, Y.; Natarajan, K. A.; Srivastava, Chandan	Anti-corrosive and anti-microbial properties of nanocrystalline Ni-Ag coatings	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	206	42948
137.	Pavithra, M. K.; Venkatesha, T. V.; Kumar, M. K. Punith; Anantha, N. S.	Electrochemical, gravimetric and quantum chemical analysis of mild steel corrosion inhibition by colchicine in 1 M HCl medium	RESEARCH ON CHEMICAL INTERMEDIATES	42	2409-28
138.	Rangaraj, Lingappa; Chakrabarti, Tamoghna; Kannan, Rajaguru; Jayaram, Vikram	Effect of applied pressure on densification of monolithic ZrC _x ceramic by reactive hot pressing	JOURNAL OF MATERIALS RESEARCH	31	506-15
139.	Behera, A. N.; Chaudhuri, A.; Kapoor, R.; Chakravarty, J. K.; Suwas, S.	High temperature deformation behavior of Nb-1 wt.%Zr alloy	MATERIALS & DESIGN	92	750-9
140.	Kopanati, Gayathri N.; Ramamurthy, Praveen C.; Madras, Giridhar	TiO ₂ /EVOH based reactive interlayer in Surlyn for organic device encapsulation	MATERIALS RESEARCH EXPRESS	3	UNSP 025302
141.	Lee, Jung-A; Seo, Brandon B.; Choi, In-Chul; Seok, Moo-Young; Zhao, Yakai; Jahed, Zeinab; Ramamurty, Upadrasta; Tsui, Ting Y.; Jang, Jae-il	Time-dependent nanoscale plasticity in nanocrystalline nickel rods and tubes	SCRIPTA MATERIALIA	112	79-82

142.	Dasgupta, Queeny; Chatterjee, Kaushik; Madras, Giridhar	Physical insights into salicylic acid release from poly(anhydrides)	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	18	2112-19
143.	Agepati, S.; Ghosh, P.; Chokshi, A. H.	Microstructural evolution and strength variability in microwires	MATERIALS SCIENCE AND ENGINEERING A- STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	652	239-49
144.	Dasgupta, Queeny; Madras, Giridhar; Chatterjee, Kaushik	Controlled release kinetics of p-aminosalicylic acid from biodegradable crosslinked polyesters for enhanced anti-mycobacterial activity	ACTA BIOMATERIALIA	30	168-76
145.	Bhattacharjee, Yudhajit; Bhingardive, Viraj; Biswas, Sourav; Bose, Suryasarathi	Construction of a carbon fiber based layer-by-layer (LbL) assembly - a smart approach towards effective EMI shielding	RSC Advances	6	112614-9
146.	Lakkakula, Jaya R.; Kurapati, Rajendra; Tynga, Ivan; Abrahamse, Heidi; Raichur, Ashok M.; Krause, Rui Werner Macedo	Cyclodextrin grafted calcium carbonate vaterite particles: efficient system for tailored release of hydrophobic anticancer or hormone drugs	RSC ADVANCES	6	104537-548
147.	Madhavan, R.; Ray, R. K.; Suwas, S.	Micro-mechanical aspects of texture evolution in nickel and nickel-cobalt alloys: role of stacking fault energy	PHILOSOPHICAL MAGAZINE	96	3177-99
148.	Mural, Prasanna Kumar S.; Jain, Shubham; Madras, Giridhar; Bose, Suryasarathi	Improving antifouling ability by site-specific silver decoration on polyethylene ionomer membranes for water remediation: assessed using 3D micro computed tomography, water flux and antibacterial studies	RSC ADVANCES	6	88057-65
149.	Elias, Eldho; Chandran, Sarath C.; Zachariah, Ajesh K.; Kumar, Vineesh V.; Sunil, M. A.; Bose, Suryasarathi; Souza, Fernando G., Jr.; Thomas, Sabu	Percolated network formation in biocidal 3D porous PCL/clay nanocomposite scaffolds: effect of organic modifier on interfacial and water sorption properties	RSC ADVANCES	6	85107-16
150.	Liu, Jinxuan; Zhou, Wencai; Liu, Jianxi; Fujimori, Yamato; Higashino, Tomohiro; Imahori, Hiroshi; Jiang, Xue; Zhao, Jijun; Sakurai, Tsuneaki; Hattori, Yusuke; Matsuda, Wakana; Seki, Shu; Garlapati, Suresh Kumar; Dasgupta, Subho; Redel, Engelbert; Sunag, Licheng; Woll, Christof	A new class of epitaxial porphyrin metal-organic framework thin films with extremely high photocarrier generation efficiency: promising materials for all-solid-state solar cells	JOURNAL OF MATERIALS CHEMISTRY A	4	12739-47

151.	Raj, Shammy; Kumar, Sachin; Chatterjee, Kaushik	Facile synthesis of vanadia nanoparticles and assessment of antibacterial activity and cytotoxicity	MATERIALS TECHNOLOGY	31	562-73
152.	Saravanan, S.; Gowda, K. M. Akshay; Ramamurthy, Praveen C.; Madras, Giridhar	Influence of Mesoporous Silica and Butyral Content on the Mechanical, Water Absorption, and Permeability Properties of in situ Synthesized Silica/PVB Nanocomposite Films	POLYMER-PLASTICS TECHNOLOGY AND ENGINEERING	55	1220-30
153.	Natarajan, Janeni; Madras, Giridhar; Chatterjee, Kaushik	Localized delivery and enhanced osteogenic differentiation with biodegradable galactitol polyester elastomers	RSC ADVANCES	6	61492-504
154.	Rekha, M. Y.; Kumar, M. K. Punith; Srivastava, Chandan	Electrochemical behaviour of chromium-graphene composite coating	RSC ADVANCES	6	62083-90
155.	Pawar, Shital Patangrao; Arjmand, Mohammad; Gandhi, Mounika; Bose, Suryasarathi; Sundararaj, Uttandaraman	Critical insights into understanding the effects of synthesis temperature and nitrogen doping towards charge storage capability and microwave shielding in nitrogen-doped carbon nanotube/polymer nanocomposites	RSC ADVANCES	6	63224-34
156.	Venkatesha, N.; Qurishi, Yasrib; Atreya, Hanudatta S.; Srivastava, Chandan	Effect of core-shell nanoparticle geometry on the enhancement of the proton relaxivity value in a nuclear magnetic resonance experiment	RSC ADVANCES	6	64605-10
157.	Pawar, Shital Patangrao; Gandhi, Mounika; Saraf, Chinmay; Bose, Suryasarathi	Exceptional microwave absorption in soft polymeric nanocomposites facilitated by engineered nanostructures	JOURNAL OF MATERIALS CHEMISTRY C	4	4954-66
158.	Jacob, K. T.; Mansoor, A. K.	Solubility and activity of oxygen in liquid bismuth	CANADIAN METALLURGICAL QUARTERLY	55	202-9
159.	Bajad, Ganesh; Guguloth, Venkanna; Vijayakumar, R. P.; Bose, Suryasarathi	Conversion of plastic waste into CNTs using Ni/Mo/MgO catalyst An optimization approach by mixture experiment	FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES	24	162-9
160.	Matlapudi, Megha Shyam; Moin, Afrasim; Medishetti, Raghavender; Rajendra, K.; Raichur, Ashok M.; Kumar, B. R. Prashantha	Dual Drug Conjugate Loaded Nanoparticles for the Treatment of Cancer	CURRENT DRUG DELIVERY	12	782-94

161.	Venkatesha, N.; Poojar, Pavan; Ashwini, R.; Qurishi, Yasrib; Geethanath, Sairam; Srivastava, Chandan	Ultrafine graphene oxide-CoFe ₂ O ₄ nanoparticle composite as T-1 and T-2 contrast agent for magnetic resonance imaging	RSC ADVANCES	6	17423-9
162.	Venkatesha, N.; Qurishi, Yasrib; Atreya, Hanudatta S.; Srivastava, Chandan	ZnO coated CoFe ₂ O ₄ nanoparticles for multimodal bio-imaging	RSC ADVANCES	6	18843-51
163.	Xavier, Priti; Jain, Shubham; Srinivas, Vijay T.; Chatterjee, Kaushik; Bose, Suryasarathi	Designer porous antibacterial membranes derived from thermally induced phase separation of PS/PVME blends decorated with an electrospun nanofiber scaffold	RSC ADVANCES	6	10865-72
164.	Natarajan, K. A.	Biom mineralization and Biobeneficiation of Bauxite	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	69	15-21
165.	Subramanian, S.; Ravishankar, H.; Vasanthakumar, B.	Enhancement of Flotation Selectivity of Sphalerite Using Mineral-Stressed <i>Paenibacillus polymyxa</i> and Its Cellular Components	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	69	67-74
166.	Babu, D. Arvindha; Majumdar, Bhaskar; Sarkar, Rajdeep; Murty, B. S.; Chattopadhyay, K.	On the Structural Stability of Melt Spun Ribbons of Fe _{95-x} Zr _x B ₄ Cu ₁ (x=7 and 9) Alloys and Correlation with Their Magnetic Properties	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	47A	560-71
167.	Shubha, H. N.; Venkatesha, T. V.; Pavithra, M. K.; Kumar, M. K. Punith	Surface modification of mild steel by a self-assembled cetyl-trimethyl ammonium bromide (CTAB) monolayer: Evaluation of its corrosion protection property	PROGRESS IN ORGANIC COATINGS	90	267-76
168.	Jayanthi, Swetha; Mukherjee, Anwasha; Chatterjee, Kaushik; Sood, A. K.; Misra, Abha	Tailored nitrogen dioxide sensing response of three-dimensional graphene foam	SENSORS AND ACTUATORS B-CHEMICAL	222	21-7
169.	B. Nagamani Jaya and Vikram Jayaram	Fracture Testing at Small-Length Scales: From Plasticity in Si to Brittleness in Pt	Journal of Metals	68	94-108
170.	Tamoghna Chakrabarti, LingappaRangaraj, VikramJayaram	On the Low Temperature Densification of Reactively Hot Pressed Non-Stoichiometric ZrC and (Zr, Ti)C	Materials Today: Proceedings	3	3077-85

171.	Laurila, Tomi; Paul, Alope	Understanding the Growth of Interfacial Reaction Product Layers between Dissimilar Materials	Critical Reviews in Solid State and Materials Sciences	41	73-105
172.	L. Krishna, K. Dhamodaran, C. Jayadev, K. Chatterjee, R. Shetty, S.S. Khora, D. Das	Nanostructured scaffold as a determinant of stem cell fate	Stem Cell Research & Therapy	7	188
173.	S. Kumar, K. Chatterjee	Comprehensive review on the use of graphene based substrates for regenerative medicine and biomedical devices	ACS Applied Materials & Interfaces	8	26431–26457
174.	S. Jain, S.R.K. Meka, K. Chatterjee	Curcumin eluting nanofibers augment osteogenesis toward phytochemical based bone tissue engineering	Biomedical Materials	11	55007
175.	S. Kumar, M. D. Azam, S. Raj, E. Kolanthai, K.S. Vasu, A.K. Sood, K. Chatterjee	3D scaffold alters cellular response to graphene in a polymer composite for orthopedic applications	Journal of Biomedical Materials Research: Part B- Applied Biomaterials	104	732–749
176.	Bhattacharyya, Saswata; Bandhopadhyay, Soumya; Choudhury Abhik;	Phase-field modeling of electrochemical phenomena	Journal of the Indian Institute of Science	96	
177.	Pathak, Binita; Xavier, Priti; Jain, Shubham; Bose, Suryasarathi; Basu Saptarshi	Thermally induced phase separation in levitated polymer droplets	RSC Advances	18	32477-3285
178.	Srivastava Rajeshkumar; Xavier, Priti; , Gupta Satyendra Nath; Goutam Prasanna; Bose, Suryasarathi; Sood AK	Excellent Electromagnetic Interference Shielding by Graphene- MnFe ₂ O ₄ - Multiwalled Carbon Nanotube Hybrids at Very Low Weight Percentage in Polymer Matrix	Chemistry select	1	5995-6003
179.	Bhingardive, Viraj; Kar, Woldu, Tesfakiros; Biswas, Sourav; Goutam Prasanna; Thomas, Sabu; Kalarikkal, Nandkumar; Bose, Suryasarathi	Microwave absorption in MWNTs based soft composites containing nanocrystalline particles as magnetic core and intrinsically conducting polymer as a conductive layer	Chemistry select	1	4747–4752
180.	Pawar, Shital Patangrao; Gandhi, Mounika; Saraf, Chinmay ; Bose, Suryasarathi	Polycarbonate composites containing carbon encapsulated "brick-like" Fe ₃ O ₄ nanoparticles as efficient microwave absorbers with a large bandwidth	Chemistry select	1	3829-3838
181.	Ravikumar, K; Goutam, Prasanna; Bose, Suryasarathi; Basu, Bikramjit	Synergistic effect of polymorphism, substrate conductivity and electric field stimulation towards enhancing muscle cell growth in vitro	RSC Advances	6	10837-10845

182.	C. Tiwary, R. Mudakavi, S. Kishore, S. Kashyap, R. Elumalai, D.Chakravorty, A.M. Raichur and K. Chattopadhyay	Magnetic Iron Nanoparticles for in Vivo Targeted Delivery and as Biocompatible Contrast Agents	RSC Advances	6	114344-52
183.	Chelliah. N. M.,; Singh.H.,; Surappa. M.K.	Correlation between microstructure and wear behavior of AZX915 Mg-alloy reinforced with 12 wt% TiC particles by stir-casting process	JOURNAL OF MAGNESIUM AND ALLOYS	4	306-13
184.	Surappa. M. K.	World university rankings and subject ranking in engineering and technology (2015-2016): A case for greater transparency	CURRENT SCIENCE	111(3)	461-464
185.	A Dan, J Jyothi, K Chattopadhyay, HC Barshilia, B Basu	Spectrally selective absorber coating of WAIN/WAION/AI 2 O 3 for solar thermal applications	Solar Energy Materials and Solar Cells	157	716-26
186.	A Dan, K Chattopadhyay, HC Barshilia, B Basu	Colored selective absorber coating with excellent durability	Thin Solid Films	620	17-22
187.	KD Malviya, K Chattopadhyay	Temperature-and Size-Dependent Compositionally Tuned Microstructural Landscape for Ag-46 Atom% Cu Nanoalloy Prepared by Laser Ablation in Liquid	The Journal of Physical Chemistry C	120	27699-706
188.	SM Hoque, M Tariq, SI Liba, F Salehin, ZH Mahmood, MNI Khan,K.Chattopadhyay	Thermo-therapeutic applications of chitosan- and PEG-coated NiFe ₂ O ₄ nanoparticles	Nanotechnology	27	285702
189.	S Alex, K Chattopadhyay, B Basu	Tailored specular reflectance properties of bulk Cu based novel intermetallic alloys	Solar Energy Materials and Solar Cells	149	66-74
190.	Sandeep Hatte, C.M. Hernandez, S. Advait, A. Tikaikaar, UtpalKumar Cetia, K.V.Manu, K.Chattopadhyay, Justing A. Weibel, Suresh V. Garimella, Vinod Srinivasan	Short and long-term sensitivity of lab-scale thermocline based thermal storage to flow disturbances	Applied Thermal Engineering	109	936-48
191.	S Alex, B Basu, S Sengupta, UK Pandey, K Chattopadhyay	Electrodeposition of δ -phase based Cu-Sn mirror alloy from sulfate-aqueous electrolyte for solar reflector application	Applied Thermal Engineering,	109	1003-11010
192.	A Dan, K Chattopadhyay, HC Barshilia, B Basu	Angular solar absorptance and thermal stability of W/WAIN/WAION/AI 2 O 3-based solar selective absorber coating	Applied Thermal Engineering	109	997-1002
193.	S Chatterjee, TA Abinandanan, GM Reddy, K Chattopadhyay	Microstructure Formation in Dissimilar Metal Welds: Electron Beam Welding of Ti/Ni	Metallurgical and Materials Transactions A	47	769-76

194.	DSP Kumar, R Chetty, OE Femi, K Chattopadhyay, P Malar, RC Mallik	Thermoelectric Properties of Bi Doped Tetrahedrite	Journal of Electronic Materials		1-7
195.	A Dan, K Chattopadhyay, HC Barshilia, B Basu	Thermal stability of WAIN/WAION/Al ₂ O ₃ -based solar selective absorber coating	MRS Advances	1	2807-13
196.	Rao, DV Sridhara; Sankarasubramanian, R; Kumar, Deepak; Singh, V; Bhat, K Mahadeva; Mishra, P; Vinayak, S; Srinivasan, T; Tyagi, R; Muraleedharan, K, R. Muralidharan, D. Banerjee	Microstructural and compositional characterisation of Electronic Materials	Defence Science Journal	66	341-352
197.	Jouquet, P.; Chintakunta, S.; Bottinelli, N.; Subramanian, S.; Caner, L.	The influence of fungus-growing termites on soil macro and micro-aggregates stability varies with soil type	APPLIED SOIL ECOLOGY	101	117-123
198.	Divyasree, C . P.; Riotte, J.; Subramanian, S.	Bioremediation of hexavalent and trivalent chromium using Citrobacter freundii: A mechanistic study	NATURAL RESOURCES AND ENGINEERING	1	1-12
199.	Sayan Das, Raju Chetty, Krzysztof Wojciechowski, Satyam Suwas, Ramesh Chandra Mallik	Thermoelectric properties of Sn doped BiCuSeO	Applied Surface Science		
200.	N.P. GURAO and SATYAM SUWAS	Effect of Phase Contiguity and Morphology on the Evolution of Deformation Texture in Two-Phase Alloys	Metallurgical and Materials Transactions A	48	809–827
201.	Magesh Sankar , Satyam Suwas , Subramanian Balasubramanian, Geetha Manivasagam	Comparison of electrochemical behavior of hydroxyapatite coated onto WE43 Mg alloy by electrophoretic and pulsed laser deposition	Surface & Coatings Technology	309	840–848
202.	S.K. Sahoo, R.K. Sabat, B.D. Bishoyi, A.G.S. Anjani, S. Suwas	Effect of strain-paths on mechanical properties of hot rolled commercially pure titanium	Materials Letters	180	166–169
203.	S.K. Sahoo, R.K. Sabat, S. Sahni , S. Suwas	Texture and microstructure evolution of commercially pure titanium during hot rolling: Role of strain-paths	Materials and Design	91	58–71