

DEPARTMENT OF MATERIALS ENGINEERING

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29.	Investigation of the inhibition effect of ibuprofen triazole against mild steel corrosion in an acidic environment (vol 41, pg 7163, 2015)	Pavithra, M. K.; Venkatesha, T. V.; Kumar, M. K. Punith; Manjunatha, K.	Research On Chemical Intermediates	41	9145	9151
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49.	Synthesis of a new tungsten-free gamma-gamma ' cobalt-based superalloy by tuning alloying additions	Makineni, S. K.; Nithin, B.; Chattopadhyay, K.	Acta Materialia	85	85	94
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54.	Structural and magnetic properties of ultra-small scale eutectic CoFeZr alloys	Hoque, S. Manjura; Makineni, S. K.; Pal, A.; Ayyub, P.; Chattopadhyay, K.	Journal Of Alloys And Compounds	620	442	450
55.	High-Temperature Workability of Thixocast A356 Aluminum Alloy	Singh, Shailesh Kumar; Chattopadhyay, K.; Dutta, Pradip	Metallurgical And Materials Transactions A-Physical Metallurgy And Materials Science	46A	3248	3259

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106.	Electric field induced short range to long range structural ordering and its influence on the Eu ³⁺ photoluminescence in the lead-free ferroelectric Na _{1/2} Bi _{1/2} TiO ₃	Kalaskar, Abhijeet; Rao, Badari Narayana; Thomas, Tiju; Ranjan, Rajeev	Journal Of Applied Physics	117	Article No.244106	
107.	Interrelationship between Interphase Boundaries and Phase Contents near the Critical Compositions of Lead-Free Ferroelectric (Na _{0.5} Bi _{0.5})TiO ₃ -BaTiO ₃	Topolov, Vitaly Yu.; Rao, Badari Narayana; Garg, Rohini; Ranjan, Rajeev	Ferroelectrics	482	22	33
108.	Influence of substrate temperature on structure, microstructure and magnetic properties of sputtered Fe-Ga thin films	Basumatary, Himalay; Chelyane, J. Arout; Rao, D. V. Sridhara; Kamat, S. V.; Ranjan, R.	Journal Of Magnetism And Magnetic Materials	384	58	63
109.	Effect of sputtering parameters on the structure, microstructure and magnetic properties of Tb-Fe films	Basumatary, Himalay; Chelvane, J. Arout; Rao, D. V. Sridhara; Kamat, S. V.; Ranjan, Rajeev	Thin Solid Films	583	1	6
110.	Ferroelectric instabilities and enhanced piezoelectric response in Ce modified BaTiO ₃ lead-free ceramics	Brajesh, Kumar; Kalyani, Ajay Kumar; Ranjan, Rajeev	Applied Physics Letters	106	Article No.12907	
111.	Individual and combined additions of calcium and antimony on microstructure and mechanical properties of squeeze-cast AZ91D magnesium alloy	Bankoti, A. K. S.; Mondal, A. K.; Kumar, Subodh; Ray, B. C.	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	626	186	194
112.	Stress states in individual Si particles of a cast Al-Si alloy: Micro-Raman analysis and microstructure based modeling	Joseph, Sudha; Kumar, S.; Bhadram, Venkata Srinu; Narayana, Chandrabhas	Journal Of Alloys And Compounds	625	296	308
113.	Corrosion behaviour of creep-resistant AE42 magnesium alloy-based hybrid composites developed for powertrain applications	Mondal, A. K.; Blawert, C.; Kumar, S.	Materials And Corrosion-Werkstoffe Und Korrosion	66	1150	1158
114.	Correlation of microstructure and creep behaviour of MRI230D Mg alloy developed by two different casting technologies	Mondal, A. K.; Kesavan, Arjun Rajiv; Reddy, B. Ravi Kiran; Dieringa, Hajo; Kumar, S.	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	631	45	51

115.	Role of Si modification on the compressive flow behavior of Al-Si based alloy: experimental and numerical investigations	Joseph, S.; Kumar, S.	Materials Characterization	110	272	281
116.	Compressive flow behavior of Al-Si based alloy: Role of heat treatment	Joseph, Sudha; Kumar, S.; Babu, R. Prasath	Materials Science And Engineering A- Structural Materials Properties Microstructure And Processing	629	41	53
117.	Finite Element Analysis of Stress Evolution in Al-Si Alloy	Joseph, Sudha; Kumar, S.	Journal Of Materials Engineering And Performance	24	253	260
118.	Effect of electrical parameters on morphology and in-vitro corrosion resistance of plasma electrolytic oxidized films formed on zirconium	Sandhyarani, M.; Ashfaq, M.; Arunnellaiappan, T.; Selvan, M. P.; Subramanian, S.; Rameshbabu, N.	Surface & Coatings Technology	269	286	294
119.	Influence of soil type on the properties of termite mound nests in Southern India	P. Jouquet, N. Guilleux, R. R. Shanbhag and S. Subramanian	Applied Soil Ecology	96	282	287
120.	The influence of termites on soil sheeting properties varies depending on the materials on which they feed	P. Jouquet, N. Guilleux, S. Chintakunta, M. Mendez, S. Subramanian and R. R. Shanbhag	European Journal OF Soil Biology	69	74	78
121.	Amine Functionalized polyaniline grafted to exfoliated graphite oxide: Synthesis, characterization and multi-element sensor studies	Joseph, Alex; Subramanian, Sankaran; Ramamurthy, Praveen C.; Sampath, Srinivasan; Kumar, R. Vasant; Schwandt, Carsten	Journal Of Electroanalytical Chemistry	757	137	143
122.	Electromagnetic interference shielding through MWNT grafted Fe ₃ O ₄ nanoparticles in PC/SAN blends	Pawar, Shital Patangrao; Marathe, Dhruva A.; Pattabhi, K.; Bose, Suryasarathi	Journal Of Materials Chemistry A	3	656	669
123.	Tailoring the interface of an immiscible polymer blend by a mutually miscible homopolymer grafted onto graphene oxide: outstanding mechanical properties	Kar, Goutam Prasanna; Biswas, Sourav; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	1811	1821
124.	Tailoring the dispersion of multiwall carbon nanotubes in co-continuous PVDF/ABS blends to design materials with enhanced electromagnetic interference shielding	Kar, Goutam Prasanna; Biswas, Sourav; Rohini, Rani; Bose, Suryasarathi	Journal Of Materials Chemistry A	3	7974	7985
125.	A unique strategy towards high dielectric constant and low loss with multiwall carbon nanotubes anchored onto graphene oxide sheets	Biswas, Sourav; Kar, Goutam Prasanna; Arora, Deepshikha; Bose, Suryasarathi	Rsc Advances	5	24132	24138
126.	Microwave absorbers designed from PVDF/SAN blends containing multiwall carbon nanotubes anchored cobalt ferrite via a pyrene derivative	Biswas, Sourav; Kar, Goutam Prasanna; Bose, Suryasarathi	Journal Of Materials Chemistry A	3	12413	12426

127.	Simultaneous enhancement in mechanical strength, electrical conductivity, and electromagnetic shielding properties in PVDF-ABS blends containing PMMA wrapped multiwall carbon nanotubes	Kar, Goutam Prasanna; Biswas, Sourav; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	14856	14865
128.	Engineering nanostructured polymer blends with controlled nanoparticle location for excellent microwave absorption: a compartmentalized approach	Biswas, Sourav; Kar, Goutam Prasanna; Bose, Suryasarathi	Nanoscale	7	11334	11351
129.	Attenuating microwave radiation by absorption through controlled nanoparticle localization in PC/PVDF blends	Biswas, Sourav; Kar, Goutam Prasanna; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	27698	27712
130.	Tailored interface and enhanced elastic modulus in epoxy-based composites in presence of branched poly(ethyleneimine) grafted multiwall carbon nanotubes	Rohini, Rani; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	7907	7913
131.	Tailor-Made Distribution of Nanoparticles in Blend Structure toward Outstanding Electromagnetic Interference Shielding	Biswas, Sourav; Kar, Goutam Prasanna; Bose, Suryasarathi	Acs Applied Materials & Interfaces	7	25448	25463
132.	Selective localisation of multi walled carbon nanotubes in polypropylene/natural rubber blends to reduce the percolation threshold	Nair, Sharika Thankappan; Vijayan, P. Poornima; Xavier, Priti; Bose, Suryasarathi; George, Soney C.; Thomas, Sabu	Composites Science And Technology	116	9	17
133.	Tailoring the interface in graphene/thermoset polymer composites: A critical review	Rohini, Rani; Katti, Prajakta; Bose, Suryasarathi	Polymer	70	A17	A34
134.	Peculiar morphological transitions induced by nanoparticles in polymeric blends: retarded relaxation or altered interfacial tension?	Pawar, Shital Patangrao; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	14470	14478
135.	An efficient strategy to develop microwave shielding materials with enhanced attenuation constant	Pawar, Shital Patangrao; Bhingardive, Viraj; Jadhav, Ajinkya; Bose, Suryasarathi	Rsc Advances	5	89461	89471
136.	Mapping the intriguing transient morphologies and the demixing behavior in PS/PVME blends in the presence of rod-like nanoparticles	Xavier, Priti; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	14972	14985
137.	The key role of polymer grafted nanoparticles in the phase miscibility of an LCST mixture	Kar, Goutam Prasanna; Bharati, Avanish; Xavier, Priti; Madras, Giridhar; Bose, Suryasarathi	Physical Chemistry Chemical Physics	17	868	877
138.	A critical review on in situ reduction of graphene oxide during preparation of conducting polymeric nanocomposites	Mural, Prasanna Kumar S.; Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	Rsc Advances	5	32078	32087

139.	Unusual Fragility and Cooperativity in Glass-Forming and Crystalline PVDF/PMMA Blends in the Presence of Multiwall Carbon Nanotubes	Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	Macromolecules	48	2740	2750
140.	Unique nanoporous antibacterial membranes derived through crystallization induced phase separation in PVDF/PMMA blends	Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	Journal Of Materials Chemistry A	3	5991	6003
141.	Contrasting Effects of Graphene Oxide and Poly(ethylenimine) on the Polymorphism in Poly(vinylidene fluoride)	Sharma, Maya; Madras, Giridhar; Bose, Suryasarathi	Crystal Growth & Design	15	3345	3355
142.	Porous membranes designed from bi-phasic polymeric blends containing silver decorated reduced graphene oxide synthesized via a facile one-pot approach	Mural, Prasanna Kumar S.; Sharma, Maya; Shukla, Abhinaya; Bhadra, Sambhu; Padmanabhan, Babu; Madras, Giridhar; Bose, Suryasarathi	Rsc Advances	5	32441	32451
143.	Engineering Nanostructures by Decorating Magnetic Nanoparticles onto Graphene Oxide Sheets to Shield Electromagnetic Radiations	Mural, Prasanna Kumar S.; Pawar, Shital Patangrao; Jayanthi, Swetha; Madras, Giridhar; Sood, Ajay K.; Bose, Suryasarathi	Acs Applied Materials & Interfaces	7	16266	16278
144.	Enzymatically degradable EMI shielding materials derived from PCL based nanocomposites	Pawar, Shital Patangrao; Kumar, Sachin; Misra, Anupam; Deshmukh, Subrajeet; Chatterjee, Kaushik; Bose, Suryasarathi	Rsc Advances	5	17716	17725
145.	Enzymatically degradable and flexible bio-nanocomposites derived from PHBV and PBAT blend: assessing thermal, morphological, mechanical, and biodegradation properties	Pawar, Shital Patangrao; Misra, Anupam; Bose, Suryasarathi; Chatterjee, Kaushik; Mittal, Vikas	Colloid And Polymer Science	293	2921	2930
146.	Graphene scavenges free radicals to synergistically enhance structural properties in a gamma-irradiated polyethylene composite through enhanced interfacial interactions	Kolanthai, Elayaraja; Bose, Suryasarathi; Bhagyashree, K. S.; Bhat, S. V.; Asokan, K.; Kanjilal, D.; Chatterjee, Kaushik	Physical Chemistry Chemical Physics	17	22900	22910
147.	Extraordinary synergy in attenuating microwave radiation through cobalt decorated graphene oxide and carbon nanotubes in PC/SAN blends	SP Pawar, S Bose	Chemnanomat	1	603	614
148.	Tailored electrical conductivity, electromagnetic shielding and thermal transport in polymeric blends with graphene	S Pawar, ST Stephen, S Bose, V Mittal	Physical Chemistry Chemical Physics	17	14922	14930
149.	Thermoelectric properties of a Mn substituted synthetic tetrahedrite	Chetty, Raju; Kumar, Prem D. S.; Rogl, Gerda; Rogl, Peter; Bauer, Ernst; Michor, Herwig;	Physical Chemistry Chemical Physics	17	1716	1727

		Suwas, Satyam; Puchegger, Stephan; Giester, Gerald; Mallik, Ramesh Chandra				
150.	Thermoelectric properties of Co substituted synthetic tetrahedrite	Chetty, R.; Bali, A.; Naik, M. H.; Rogl, G.; Rogl, P.; Jain, M.; Suwas, S.; Mallik, R. C.	Acta Materialia	100	266	274
151.	Effect of grain boundary engineering on the microstructure and mechanical properties of copper containing austenitic stainless steel	Sinha, Subhasis; Kim, Dong-Ik; Fleury, Eric; Suwas, Satyam	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	626	175	185
152.	Effect of substrates and surfactants over the evolution of crystallographic texture of nanostructured ZnO thin films deposited through microwave irradiation	Brahma, Sanjaya; Jaiswal, P.; Suresh, K. S.; Lo, Kuang-Yao; Suwas, Satyam; Shivashankar, S. A.	Thin Solid Films	593	81	90
153.	Mg/BN nanocomposites: Nano-BN addition for enhanced room temperature tensile and compressive response	Sankaranarayanan, S.; Sabat, R. K.; Jayalakshmi, S.; Suwas, S.; Almajid, A.; Gupta, M.	Journal Of Composite Materials	49	3045	3055
154.	Influence of mode of deformation on microstructural heterogeneities in Ni subjected to large strain deformation	Athreya, C. N.; Suwas, S.; Sarma, Subramanya V.	Philosophical Magazine Letters	95	441	449
155.	The deciding role of texture on ductility in a Ce containing Mg alloy	Sabat, R. K.; Mishra, R. K.; Sachdev, A. K.; Suwas, Satyam	Materials Letters	153	158	161
156.	Restoration Mechanisms During the Friction Stir Processing of Aluminum Alloys	Nadammal, Naresh; Kailas, Satish V.; Szpunar, Jerzy; Suwas, Satyam	Metallurgical And Materials Transactions A-Physical Metallurgy And Materials Science	46A	2823	2828
157.	Evolution of annealing texture in cryo-rolled copper	Anand, G.; Barai, K.; Madhavan, R.; Chattopadhyay, P. P.	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	638	114	120
158.	Microstructure dependent elastic modulus variation in NiTi shape memory alloy	Suresh, K. S.; Lahiri, Debrupa; Agarwal, Arvind; Suwas, Satyam	Journal Of Alloys And Compounds	633	71	74
159.	Thermal Response on the Microstructure and Texture of ECAP and Cold-Rolled Pure Magnesium	Biswas, Somjeet; Singh, D. Satyaveer; Beausir, Benoit; Toth, Laszlo S.; Suwas, Satyam	Metallurgical And Materials Transactions A-Physical Metallurgy And Materials Science	46A	2598	2613
160.	Analysis of Microstructure and Texture Evolution in Mg-3Al-1Zn Alloy Processed Through Groove Rolling	Murty, S. V. S. Narayana; Nayan, Niraj; Madhavan, R.; Sharma, S. C.; George, K. M.; Suwas, Satyam	Journal Of Materials Engineering And Performance	24	2091	2098
161.	Role of deformation temperature on the evolution and heterogeneity of texture during equal channel angular pressing of magnesium	Biswas, Somjeet; Brokmeier, H. -G.; Fundenberger, J. -J.; Suwas, Satyam	Materials Characterization	102	98	102

162.	Evolution of deformation texture and magnetic properties in a nanocrystalline nickel-20 wt% cobalt alloy	Madhavan, R.; Suwas, S.	Journal Of Magnetism And Magnetic Materials	378	239	245
163.	Texture Evolution in Nanocrystalline Nickel: Critical Role of Strain Path	Madhavan, R.; Nagaraju, S.; Suwas, Satyam	Metallurgical And Materials Transactions A-Physical Metallurgy And Materials Science	46A	915	925
164.	Response of shock wave deformation in AA5086 aluminum alloy	Ray, Nachiketa; Jagadeesh, Gopalan; Suwas, Satyam	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	622	219	227
165.	Microstructural Dependence of Work Hardening Behavior in Martensite-Ferrite Microalloyed Steels	Anand, N.; Sankaran, S.; Madhavan, R.; Suwas, Satyam; Venugopal, P.	Journal of Materials Engineering And Performance	24	517	528
166.	Effect of Nb orientation and deformation on the growth of Nb ₃ Sn intermetallic superconductor by bronze technique	Santra, Sangeeta; Suwas, Satyam; Paul, Aloke	Philosophical Magazine Letters	95	504	510
167.	Precipitation response of the magnesium alloy WE43 in strained and unstrained conditions	Kandalam, Sahithya; Agrawal, Priyanka; Avadhani, G. S.; Kumar, S.; Suwas, Satyam	Journal of Alloys And Compounds	623	317	323
168.	Fracture behavior of magnesium alloys - Role of tensile twinning	Prasad, N. Subrahmanya; Kumar, N. Naveen; Narasimhan, R.; Suwas, S.	Acta Materialia	94	281	293
169.	Polyvinylidene fluoride based lightweight and corrosion resistant electromagnetic shielding materials	Bhingardive, Viraj; Sharma, Maya; Suwas, Satyam; Madras, Giridhar; Bose, Suryasarathi	Rsc Advances	5	35909	35916
170.	Effect of extrusion ratio on the microstructure, texture and mechanical properties of (Mg/AZ91)(m)-SiCp composite	Roy, Shibayan; Kannan, G.; Suwas, Satyam; Surappa, M. K.	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	624	279	290
171.	Insights on Defect-Mediated Heterogeneous Nucleation of Graphene on Copper	Ghosh, Priyadarshini; Kumar, Shishir; Ramalingam, Gopalakrishnan; Kochat, Vidya; Radhakrishnan, Madhavan; Dhar, Sukanya; Suwas, Satyam; Ghosh, Arindam; Ravishankar, N.; Raghavan, Srinivasan	Journal of Physical Chemistry C	119	2513	2522
172.	Microstructure and Crystallographic Texture Evolution During the Friction-Stir Processing of a Precipitation-Hardenable Aluminum Alloy	Nadammal, Naresh; Kailas, Satish V.; Szpunar, Jerzy; Suwas, Satyam	Jom	67	1014	1021
173.	A bottom-up approach for optimization of friction stir processing parameters; a study on aluminium 2024-T3 alloy	Nadammal, Naresh; Kailas, Satish V.; Suwas, Satyam	Materials & Design	65	127	138

174.	New physical insights into the electromagnetic shielding efficiency in PVDF nanocomposites containing multiwall carbon nanotubes and magnetic nanoparticles	Bhingardive, Viraj; Suwas, Satyam; Bose, Suryasarathi	Rsc Advances	5	79463	79472
175.	Effect of pre-annealing strains on annealing texture developments in commercially pure (CP) titanium	SK Sahoo, S Panda, RK Sabat, G Kumar, SC Mishra, UK Mohanty, S. Suwas	Philosophical Magazine	95	1105	1124
176.	Mechanical Property of Pure Magnesium: From Orientation Perspective Pertaining to Deviation from Basal Orientation	SK Sahoo, RK Sabat, S Panda, SC Mishra, S Suwas	Journal of Materials Engineering AND Performance	24	2346	2353
177.	Role of stacking fault energy on texture evolution revisited	R Madhavan, R Kalsar, RK Ray, S Suwas	Iop Conference Series: Materials Science AND Engineering	82	012031	
178.	Texture evolution during hot deformation of Moly-TZM	A Chaudhuri, AN Behera, R Kapoor, A Sarkar, JK Chakravartty, S Suwas	Iop Conference Series: Materials Science AND Engineering	82	012088	
179.	Interphase anisotropy effects on lamellar eutectics: A numerical study	Ghosh, Supriyo; Choudhury, Abhik; Plapp, Mathis; Bottin-Rousseau, Sabine; Faivre, Gabriel; Akamatsu, Silvere	Physical Review E	91	Article No.22407	
180.	Designing Elastic Organic Crystals: Highly Flexible Polyhalogenated N-Benzylideneanilines	Ghosh, Soumyajit; Mishra, Manish Kumar; Kadambi, Sourabh B.; Ramamurty, Upadrasta; Desiraju, Gautam R.	Angewandte Chemie-International Edition	54	2674	2678
181.	Tuning Mechanical Properties of Pharmaceutical Crystals with Multi-component Crystals: Voriconazole as a Case study	Sanphui, Palash; Mishra, Manish Kumar; Ramamurty, Upadrasta; Desiraju, Gautam R.	Molecular Pharmaceutics	12	889	897
182.	Solid Solution Hardening of Molecular Crystals: Tautomeric Polymorphs of Omeprazole	Mishra, Manish Kumar; Ramamurty, Upadrasta; Desiraju, Gautam R.	Journal Of The American Chemical Society	137	1794	1797
183.	On the strain rate sensitivity of plastic flow in metallic glasses	Bhattacharyya, Abir; Singh, Gaurav; Prasad, K. Eswar; Narasimhan, R.; Ramamurty, U.	Materials Science And Engineering A-Structural Materials Properties Microstructure And Processing	625	245	251
184.	On the variability in fracture toughness of 'ductile' bulk metallic glasses	Narayan, R. L.; Tandaiya, Parag; Garrett, G. R.; Demetriou, M. D.; Ramamurty, U.	Scripta Materialia	102	75	78
185.	Bimodal nanoindentation response of the (001) face in crystalline sodium saccharin dihydrate	Mishra, Manish Kumar; Ramamurty, Upadrasta; Desiraju, Gautam R.	Macedonian Journal Of Chemistry And Chemical Engineering	34	51	55
186.	Crystal chemistry and photomechanical behavior of 3,4-dimethoxycinnamic acid: correlation between maximum yield in the solid-state topochemical reaction and cooperative molecular motion	Mishra, Manish Kumar; Mukherjee, Arijit; Ramamurty, Upadrasta; Desiraju, Gautam R.	Iucrj	2	653	660

187.	Hardness Alternation in alpha,omega-Alkanedicarboxylic Acids	Mishra, Manish Kumar; Ramamurty, Upadrasta; Desiraju, Gautam R.	Chemistry-An Asian Journal	10	2176	2181
188.	Temperature Dependence of Mechanical Properties in Molecular Crystals	Mohamed, Reda M.; Mishra, Manish Kumar; AL-Harbi, Laila M.; Al-Ghamdi, Mohammed S.; Asiri, Abdullah M.; Reddy, Chilla Malla; Ramamurty, Upadrasta	Crystal Growth & Design	15	2474	2479
189.	Anisotropy in the mechanical properties of organic crystals: temperature dependence	Mohamed, Reda M.; Mishra, Manish Kumar; Al-Harbi, Laila M.; Al-Ghamdi, Mohammed S.; Ramamurty, Upadrasta	Rsc Advances	5	64156	64162
190.	Dependence of shear yield strain and shear transformation zone on the glass transition temperature in thin film metallic glasses	Qian, X.; Cao, Q. P.; Liu, S. Y.; Wang, C.; Wang, X. D.; Zhang, D. X.; Ramamurty, U.; Jiang, J. Z.	Journal Of Alloys And Compounds	652	191	199
191.	Bioinspired Reductionistic Peptide Engineering for Exceptional Mechanical Properties	Avinash, M. B.; Raut, Devaraj; Mishra, Manish Kumar; Ramamurty, Upadrasta; Govindaraju, T.	Scientific Reports	5	Article No.16070	
192.	Structure-mechanical property correlations in mechanochromic luminescent crystals of boron difluoride dibenzoylmethane derivatives	Krishna, Gamidi Rama; Devarapalli, Ramesh; Prusty, Rajesh; Liu, Tiandong; Fraser, Cassandra L.; Ramamurty, Upadrasta; Reddy, Chilla Malla	Iucrj	2	611	619
193.	The role of hydrogen in hardening/softening steel: Influence of the charging process	Zhao, Yakai; Seok, Moo-Young; Choi, In-Chul; Lee, Yun-Hee; Park, Seong-Jun; Ramamurty, Upadrasta; Suh, Jin-Yoo; Jang, Jae-il	Scripta Materialia	107	46	49
194.	Smaller is Plastic: Polymorphic Structures and Mechanism of Deformation in Nanoscale hcp Metals	Bhogra, Meha; Ramamurty, U.; Waghmare, Umesh V.	Nano Letters	15	3697	3702
195.	High-Temperature Deformation Processing Map Approach for Obtaining the Desired Microstructure in a Multi-component (Ni-Ti-Cu-Fe) Alloy	Nayan, Niraj; Singh, Gaurav; Murty, S. V. S. Narayana; Jha, Abhay K.; Pant, Bhanu; George, Koshy M.	Metallurgical And Materials Transactions A-Physical Metallurgy And Materials Science	46A	2201	2215
196.	Effect of oxygen vacancies on the elastic properties of zinc oxide: A first-principles investigation	Bhat, Soumya S.; Waghmare, Umesh V.; Ramamurty, Upadrasta	Computational Materials Science	99	133	137
197.	Fracture in metallic glasses: mechanics and mechanisms	Narasimhan, R.; Tandaiya, Parag; Singh, I.; Narayan, R. L.; Ramamurty, U.	International Journal Of Fracture	191	53	75
198.	Enhanced sunlight photocatalytic activity of Ag3PO4 decorated novel combustion synthesis derived TiO2 nanobelts for dye and bacterial degradation	Eswar, Neerugatti KrishnaRao; Ramamurthy, Praveen Chandrashekarapura; Madras, Giridhar	Photochemical & Photobiological Sciences	14	1227	1237
199.	Computational modeling of reactive hot pressing of zirconium carbide	Chakrabarti, Tamoghna; Rangaraj, Lingappa; Jayaram, Vikram	Journal Of Materials Research	30	1876	1886
200.	Real-Time Stress Measurements in Germanium Thin Film	Nadimpalli, Siva P. V.; Tripuraneni, Rajasekhar; Sethuraman, Vijay A.	Journal Of The Electrochemical Society	162	A2840	A2846

	Electrodes during Electrochemical Lithiation/Delithiation Cycling					
201.	Stress Evolution in Lithium-ion Composite Electrodes during Electrochemical Cycling and Resulting Internal Pressures on the Cell Casing	S.P.V. Nadimpalli, V.A. Sethuraman, D.P. Abraham, A.F. Bower, P.R. Guduru	Journal Of The Electrochemical Society	162	A2656	A2663
202.	Role of Elastic Strain on Electrocatalysis of Oxygen Reduction Reaction on Pt	V.A. Sethuraman, D. Vairavapandian, M.C. Lafouresse, T. Adit Maark, N. Karan, S. Sun, U. Bertocci, A.A. Peterson, G.R. Stafford, P.R. Guduru	Journal Of Physical Chemistry C	119	19042	19052
203.	Optimization of clamped beam geometry for fracture toughness testing of micron-scale samples	B. Nagamani Jaya, Sanjit Bhowmick, S.A. Syed Asif, Oden L. Warren & Vikram Jayaram,	Phil. Mag. A	95	1945	1966
204.	In-situ study of microscale fracture of diffusion aluminide bond coats: Effect of platinum	Balila Nagamani Jaya, Sanjit Bhowmick, S.A. Syed Asif and Vikram Jayaram	Journal OF Materials Research	30	3343	3353
205.	Enhanced metastatic potential in a 3D tissue scaffold toward a comprehensive in vitro model for breast cancer metastasis	Balachander, Gowri M.; Balaji, Sai, A.; Rangarajan, Annapoorni; Chatterjee, Kaushik	Acs Applied Materials & Interfaces	7	27810	27822
206.	Effect of solvents on the enzyme mediated degradation of copolymers	Banerjee, Aditi;Chatterjee, Kaushik; Madras, Giridhar	Materials Research Express	2	Article 95301	
207.	Enzymatic degradation of polycaprolactone-gelatin blend	Banerjee, Aditi;Chatterjee, Kaushik; Madras, Giridhar	Materials Research Express	2	45303	
208.	Simple chemical aqueous synthesis of dahlia nanoflower consisting of finger-like ZnO nanorods and observation of stable ultraviolet photoluminescence emission	S. Chakraborty, C.S.Tiwary, P.Kumbhakar	Journal of Physics and Chemistry of Solids	78	84	89
209.	Engineering Photophenomena in Large, 3D Structures Composed of Self-Assembled van der Waals Heterostructure Flakes	M. Bala Murali Krishna, Michael K. L. Man, Soumya Vinod, Catherine Chin, Takaaki Harada, Jaime Taha-Tijerina, Chandra Sekhar Tiwary, Patrick Nguyen, Patricia Chang, Tharangattu N. Narayanan, Angel Rubio, Pulickel M. Ajayan, Saikat Talapatra and Keshav M. Dani	Advanced Optical Materials	3	1551	1556
210.	Effect of Micro-Structured Copper as Cathode Material for P3HT-Based Diode	Arul Varman Kesavan, Praveen C Ramamurthy	IEEE Transactions on nanotechnology	14	218	223
211.	3D Macroporous Solids from Chemically Cross-linked	Sehmus Ozden,Tharangattu N. Narayanan, Chandra S Tiwary,	Small	11	688	693

	Carbon Nanotubes	Pei Dong, Amelia H C Hart, Robert Vatjai and Pulickel M Ajayan				
212.	Carbon-Nanohorn-Reinforced Polymer Matrix Composites: Synergetic Benefits in Mechanical Properties	Sourabh B. Kadambi, K. Pramoda, U. Ramamurty, and C. N. R. Rao	ACS Applied Materials & Interfaces	7	17016	17022
213.	Nanodiamond-mediated drug delivery and imaging: challenges and opportunities	V Vijayanthimala, Dong Keun Lee, Sue V Kim, Albert Yen, Nathaniel Tsai, Huan-Cheng Chang & Olga Shenderova	Expert Opinion on Drug Delivery	12	735	749

BOOKS

Title of the Book	Authors/Editors	Publisher
Microbiology for Minerals, Metals, Materials and Environment	Abhilash, B.D. Pandey and K.A.Natarajan, (Editors)	CRC Press International (2015)

Book Chapters

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