

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

## Group - 1 (Materials Processing)

Abstract No.	Oral Presentation No.	Authors	Topic Title	Journal
3	Gr1(1)	Abhishek Ghosh*, Manojit Ghosh	Effect of heat treatment and severe plastic deformation on texture evolution of 7075 alloy	Materials Today Proceedings
5	Gr1(2)	Praveen Kumara, A. K. Padapa, A. P. Yadav, N. Kumara	Effect of aging heat treatment and uniaxial compression on thermal behavior of 7075 aluminum alloy	SCI
6	Gr1(3)	Amuth Qadri and S. R. Meka	High nitrogen AISI 316L stainless steel produced by powder salt-bath nitriding and consolidation by spark plasma sintering	Materials Today Proceedings
9	Gr1(4)	Ankit Kumar Pandey, Prem Kumar Vemula, Prashant P. Date	Analysis of blank holding force and annealing on defects and strain distribution during deep drawing	SCI
11	Gr1(5)	Arkajit Ghosh, Avinava Roy, Abhishek Ghosh, Manojit Ghosh	Texture evolution and effect of processing temperature during Plane Strain Compression of naturally aged EN AW6016 alloy	SCI
12	Gr1(6)	Basavaraj*, P. R. Sondar, S. R. Hegde	Necking Behavior of Cast Iron	Materials Today Proceedings
14	Gr1(7)	S. K. Sahoo*, B. Sarangi, S. C. Patnaik, J. Majhi, A. K. Biswal, B.P. Sahoo	Studies on In-Situ TiB <sub>2</sub> Reinforced Al-Si Alloys Synthesized by Stir Casting Method	Materials Today Proceedings
15	Gr1(8)	B. R. Moharana, S. K. Sahu, A. Maiti, S. K. Sahoo, T. K. Moharana	An experimental study on joining of AISI 304 SS to Cu by Nd-YAG laser welding process	SCI
18	Gr1(9)	J. Majhi, S. K. Sahoo, S. C. Patnaik, D. Majhi	Effect of Pouring Temperature on wear and microstructural behaviour in Al-Si-0.4%Al <sub>2</sub> O <sub>3</sub> Hypereutectic Alloys	Materials Today Proceedings
42	Gr1(10)	Pratyasha Singh, Hemanta Kumar Dash, Sandeep Samantaray	Effect of silica fume on engineering properties of expansive soil	Materials Today Proceedings
21	Gr1(11)	G.Vignesh, Debabrata Barik, S. Aravind, P. Ragupathi	An Experimental study on machining of ANSI 4340 steel using dimple textured and un-textured carbide cutting tools at the rack face	SCI
22	Gr1(12)	Kamal Kumar Pradhan, Dr. Chhabi Ram Matawale	Heat Treatment Analysis of SS304 for Gas Turbine Application	Materials Today Proceedings
23	Gr1(13)	Kethavath Kranthi Kumar, Adepu Kumar	Effect of post weld heat treatment on microstructure characteristics, mechanical and corrosion behavior of similar and dissimilar friction stir welded AA5083-AA6061	Materials Today Proceedings
24	Gr1(14)	Kumar Sanjay Adabala, H. K. Naik, Abanti Sahoo	Effect of promotor in fluidization for concentration of Heavy Mineral from Beach sands	Materials Today Proceedings
25	Gr1(15)	Malaya Kumar Debta, Ravi Mishra, Manoj Masanta	Experimental Investigation on the Machining Performance of AZ91D Magnesium Alloy by Wire-Cut EDM	Materials Today Proceedings
26	Gr1(16)	Malaya Prasad Behera*, Muvval Gopinath, Ashish Kumar Nath	A study on geometrical aspects in laser cladding by lateral powder injection technique	SCI
27	Gr1(17)	Ipsa Tripathy, Satya Prakash Rout, Manila Mallik*	Effect of Temperature and Pressure on Diffusivity at the diffused pellet of Ni-Ti/Steel	SCI
29	Gr1(18)	Binay Kumar Murmu, S. B. Prasad, S. Singh, M. Baruah	Experimental investigation of inconel welded joints formed by pulsed microplasma welding	Materials Today Proceedings
33	Gr1(19)	Manish Oraon, a*, Soumen Mandal and Vinal Sharma	Investigation into the Process Parameter of Single Point Incremental Forming (SPIF)	Materials Today Proceedings

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35	Gr1(20)	Mukesh Kumar, Ashish Das, Raj Ballav	Influence of tool geometry on morphology and mechanical properties of friction stir Welded dissimilar Joints: A review	Materials Today Proceedings
37	Gr1(21)	Dulal Das, Nijhuma Kayal	Influence of clay content on microstructure and flexural strength of in situ reaction bonded porous SiC ceramics	SCI
38	Gr1(22)	Nani Gopal Roy*, Abhishek Ghosh, Partha Pratim Dey, Manojit Ghosh	Parametric optimization of WEDM for EN AW 7075 alloy processed by ECAP	Materials Today Proceedings
39	Gr1(23)	N. Raj, B. Samantaray, S. Gollapudi*	Designing thermally stable nanocrystalline Mg alloys	Materials Today Proceedings
40	Gr1(24)	Pavan kumar R Sondar*, Subray R. Hegde	Deep Cryogenic Treatment of Plain Carbon and Low Alloy Steels	SCI
41	Gr1(25)	Prashant Prakash*, Ravi Shankar Anand and Sanjay Kumar Jha Abhishek Kumar Singh	Investigations of Effect of Process Parameters on Material Flow in Friction Stir Welding using CFD	SCI
45	Gr1(26)	Pramod Kumar, Amar Nath Sinha	Comparative analysis of Pulsed Nd:YAG laser welding of 304L and 904L stainless steel	Materials Today Proceedings
47	Gr1(27)	Praveen Kumar, K P Maity, A Dasgupta, S K Gond, M Shrujan, S Rath, B Sarkar, N Pradhan	Investigation on the genesis of the shape deformation of plates in New Plate mill, Rourkela Steel Plant	Materials Today Proceedings
49	Gr1(28)	P Nayak, A K Biswal, S K Sahoo	Processing and characterization of Fe-35Mn biodegradable metallic material	Materials Today Proceedings
50	Gr1(29)	Rahul Chaurasiya, S. Srivastava and PoulamiMaji	Synthesis of Cr doped MoO <sub>3</sub> by chemical precipitation method	Materials Today Proceedings
51	Gr1(30)	Ranjita Swain, Sunita Routray, Pratap Pattnaik and Babli Varsha	Application of bioleaching to recover value added product from partially laterised khondalite rocks	Materials Today Proceedings
52	Gr1(31)	Ravi Teja Chopparapu, Kartik Raju S, Dileep Kumar E, Vignesh Sycam, Raviteja Dasari, G. Srivalli, Dr. M. Bala Chennaiah	Biodegradable polymer filter made from fiber composites for addition of minerals and salts to water	Materials Today Proceedings
55	Gr1(32)	Rudra Narayan Mohapatro, Ranjita Swain, Sunita Routray, Prabhakar Sethi and Biswa Ranjan Patro	Separation Efficiency Optimisation of Toluene-Benzene Fraction using Binary Distillation Column	Materials Today Proceedings
59	Gr1(33)	Malaya Prasad Behera, Troy Dougherty, and Sarat Singamneni	Selective laser melting of aluminium metal-matrix composites and the challenges	Materials Today Proceedings
60	Gr1(34)	Kusum Meena and Sarat Singamneni	An elongated S-shaped auxetic mechanical meta-material structure	Materials Today Proceedings
62	Gr1(35)	Prakash Kumar, Shailesh Dewangan and Sanjay Kumar Jha	Analysis of surface integrity and dimensional accuracy in EDM	Materials Today Proceedings
64	Gr1(36)	Shailesh Dewangan, S. Deepak Kumar, S. K. Jha	Optimization of Micro-EDM drilling parameters of Ti-6Al-4V alloy	Materials Today Proceedings
65	Gr1(37)	S. P. Jena*, U. K. Mohanty	Anaerobic Digestion of Semi-dried Banana Leaves in Sewage Water under the Influence of Certain Additives	Materials Today Proceedings
67	Gr1(38)	A. Annu & C. Sivasankari*	Synthesis and characterization of ZrO <sub>2</sub> nanoparticle by leaf extract bioreduction process for its biological studies	Materials Today Proceedings
68	Gr1(39)	Sheeba Sonali, Itishree Jena, Sarat K Rout	A comparative study of synthesis of ZnO nano particles: Hydrothermal and Modified Combustion routes	Materials Today Proceedings
69	Gr1(40)	Soumen Mandal, Subrata Kumar, Manish	Heat Transfer Analysis of Discontinuity in Deposited Layer	SCI

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70	Gr1(41)	S. Das, M. P. Satpathy*, B. C. Routara, S. K. Sahoo, S. K. Bhuyan	Ultrasonic Spot Welding of Al-Cu Sheets: A Comprehensive Study	Materials Today Proceedings
73	Gr1(42)	Sunita Routray*, R. Mohanty, R. Swain, R. N. Mohapatra	Effect of magnetic separation on recovery of ilmenite from placer mineral sand	Materials Today Proceedings
76	Gr1(43)	S. Mallick, J. K. Sahoo, P. K. Mallik*, S. C. Patnaik	Processing and Characterization of Compression molded Multifunctional UHMWPE-CaTiO <sub>3</sub> Composite	Materials Today Proceedings
78	Gr1(44)	H. S. Tangade, S. N. Pusawale, S. S. Shirguppikar	Synthesis and Characterization of ZnO thin films deposited by chemical route	Materials Today Proceedings
82	Gr1(45)	Gorti Janardhan, Kaushal Kishore, Goutam Mukhopadhyay, Krishna Dutta	Fatigue behaviour of the resistance spot welded dissimilar interstitial free steel and high strength Nb microalloyed steel sheets	SCI
85	Gr1(46)	Korra Nagu, Adep Kumar	Effect of tool rotational speed on microstructure and mechanical properties of friction stir welded AA6061-T6 alloy using brass interlayer	Materials Today Proceedings
87	Gr1(47)	I. Kartikeya Sarma, V. Srinivas, S. Kanmani Subbu	Effect of process parameters on micro hardness, bulk hardness and porosity of LENSTM Deposited SS 316L Alloy	Materials Today Proceedings
92	Gr1(48)	Pallishree Prusti, Kashinath Barik	Additives Effects in Pelletization of High Grade Hematite Fines	Materials Today Proceeding

Abstract No.	Poster Presentation No.	Authors	Topic Title	Journal
1	Gr1(P1)	R. Samantray, K. Vivekanand, M. Karnan, M. Satish, S. C. Mishra	Saccharumspontaneum derived porous carbon with H <sub>3</sub> PO <sub>4</sub> activation for the application of flexible supercapacitorsFipsa	SCI
2	Gr1(P2)	Archana Chandra, Angesh Chandra, R. S. Dhundhel, Alok Bhatt	Synthesis and ion conduction mechanism of sodium ion conducting solid polymer electrolytes	Materials Today Proceedings
7	Gr1(P3)	Gaurav Anand, Santanu Sardar, Ashim Guha and Debdulal Das	WEDM process parameter optimization of Al-Al <sub>3</sub> Fe in-situ composites	Materials Today Proceedings
10	Gr1(P4)	Manisha Priyadarshini, A. Behera, Chandan Kumar Biswas	Physical characterization of differently heat treated AISI P20 tool steel	SCI
16	Gr1(P5)	Debi Prasad Sahoo*, S. Murugan, Sephali Mohanty	Cabin air conditioning unit for heavy trucks using waste heat of engine	Materials Today Proceedings
28	Gr1(P6)	M. P. Satpathy, A. Pattanaik, S. K. Mohapatra, S. Bikash Mishra	Ultrasonic Spot Welding of Al/Mg Alloys: A State-of-the-art Review	Materials Today Proceedings
31	Gr1(P7)	Emin Varghese, Sagar Goswami, Satyam Kumar, Somaditya Sen	Structural and vibrational changes due to reduction of crystallinity by mixed A-site occupation in Ce <sub>0.5</sub> Sm <sub>0.5</sub> VO <sub>4</sub> micro powders	SCI
34	Gr1(P8)	Biswajit Sahu, Suryakanta Sahoo, Muktikanta Panigrahi*	Facile synthesis of indium hydroxide and indium oxide and their photocatalytic activity	Materials Today Proceedings
53	Gr1(P9)	Vikas Rathore, Divyesh Patel, Shital Butani, S K Nema	Effect of Process Parameters on Reactivity of Plasma Activated Water (PAW)	

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54	Gr1(P10)	Rakesh Rosan, A. Behera	Effect of cooling rate on haz microstructure and CCT curve of 700 MC steel	SCI
66	Gr1(P11)	Shilpi Das and Susmita Mishra	Batch and column investigation of copper removal from aqueous media onto biochar prepared from Limoniaacidissima shell	SCI
71	Gr1(P12)	Srikar Potnuru, Susanta K. Sahoo, Santosh K Sahoo, Dheeraj K Gara	Analytical, Numerical and Experimental Analysis of Double Collar Collet Chuck Holder by Combined Extrusion and Forging Processes	SCI
77	Gr1(P13)	Soppa Indraneel, Rahul Sharma, Swastik Pradhan and Manisha Priyadarshini	Optimization of machinability criteria during dry machining of Ti-2 with micro-groove cutting tool using WASPAS approach	Materials Today Proceedings
84	Gr1(P14)	Manish Kumar Singh, M. Shrujan, Praveen Kumar, A K Verma, S K Sahoo, R K Patra and A V Rajasekhar	Performance Improvement of Old Continuous Casters by Modification In Torch Cutting Machine	Materials Today Proceedings
86	Gr1(P15)	Murtadha Mohsen, Mottar Al-Masoudy, Luay Hashem Abbud	The Preparation of Aluminium Foam Using Powder Technology For Industrial Applications	Materials Today Proceedings
88	Gr1(P16)	Lizina Khatuaa, and Susanta Kumar Das	Energy dispersive x-ray spectroscopy study of compound semiconductor zinc orthotitanate prepared by solid state reaction method	Materials Today Proceedings
91	Gr1(P17)	Pradyut Kumar Swain*, Kasinath Das Mohapatra, Pratyush Kumar Swain	Analysis of Al-SiCp Nano Composite and Study of its Machining Process by using Coated Carbide Tool	Metarials Today Proceeding
28	Gr1(P18)	Suryakanta Sahoo, Biswajit Sahu Muktikanta Panigrahi*	Synthesis and characterizations of amorphous tio2 nanoparticles	

## Group - 2 (Materials Characterization)

Abstract No.	Oral Presentation No.	Authors	Topic Tittle	Journal
2	Gr2(1)	Akash Awale*, A. Shrivastava, A. Chaudhari, M. Vashista, M.Z.K. Yusufzai	Micro-magnetic characterization of ground AISI D2 tool steel using hysteresis loop technique	SCI
5	Gr2(2)	Ankit K. Pandey, P. K. Vemula, Sunil B., K. C. Nayak, P. P. Date	Effect of powder loading and testing condition on the Mechanical properties of MIM parts	Materials Today Proceedings
6	Gr2(3)	Manisha Priyadarshini*, A. Behera, Chandan Kumar Biswas	Mechanical characterization of differently heat treated AISI P20 tool steel	SCI
9	Gr2(4)	Ayashkanta Jena, Minaketan Behera	Characterization of various cutting tools on the basis of machining Al	Materials Today Proceedings
10	Gr2(5)	Bappa Das*, A. Patra	Characterization and Effect of Nano-Cr <sub>2</sub> O <sub>3</sub> dispersed W-Zr alloys	SCI
12	Gr2(6)	Subhajit Das, Prosanta Biswas, and Manas Kumar Mondal	Microstructure, Mechanical Properties and Fracture Behaviour of hypoeutectic Al-7.6Si Alloy with and without Zr Addition	SCI
13	Gr2(7)	Subramanya R Prabhu, Arun Shettigar, Mervin A Herbert, Shrikantha S Rao	Influence of machine variables on the microstructure and mechanical properties of AA6061/TiO <sub>2</sub> friction stir welds	SCI
18	Gr2(8)	Mritunjay M. Hiremath*, B N V S Ganesh Gupta K, R. K. Prusty and B. C. Ray	Mechanical and Thermal Performance of Recycled Glass Fiber Reinforced Epoxy Composites Embedded with Carbon nanotubes	SCI

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19	Gr2(9)	I. Dey, R. Saha and S. K. Ghosh	Effect of quenching and partitioning on microstructure and mechanical properties of hot rolled high carbon Nb microalloyed steel plate	SCI
20	Gr2(10)	Md Perwej Iqbal, V S N Reddy Janga, Ranjan K Vishwakarma, S K Pal, P Mandal	A study on thermal analysis of friction stir welding of aluminum pipes	Materials Today Proceedings
21	Gr2(11)	Lakshman Sondhia*, A. K. Thawaitb, S. Sanyalc, S. Bhowmick	Stress and Deformation Analysis of Functionally Graded Varying Thickness Profile Orthotropic Rotating Disk	Materials Today Proceedings
22	Gr2(12)	Jichil Majhi, Sourav Ganguly, A. Basu and A. K. Mondal	Effect of Bi addition on the microstructure and impression creep behaviour of AZ91 magnesium alloy	SCI
24	Gr2(13)	J. Majhi, A. Mandal, S. K. Sahoo, S.C. Patnaik, B. Sarangi, K. P. Jena	Effect of Pouring Temperature on microstructure and mechanical properties in Al-16Si-2%Al <sub>2</sub> O <sub>3</sub> Hypereutectic Alloys	Materials Today Proceedings
25	Gr2(14)	Meril Shelly, Meril Mathew, Pradyumn P P, Tania Francis	Dielectric and thermal characterization of HDPE-chitosan composites	SCI
30	Gr2(15)	Arnimesh Nayak, Shubham, Rajesh Kumar Prusty, Bankim Chandra Ray	Effect of nanofillers (SiO <sub>2</sub> and Nanoclay) on thermal and flexural properties of glass fiber/epoxy composites	SCI
31	Gr2(16)	Kanhu Charan Nayak, Ankit Kumar Pandey, Prashant P. Date	Mechanical and physical characterization of powder metallurgy based aluminium metal matrix hybrid composite	Materials Today Proceedings
34	Gr2(17)	Preetish C. Dsilva, J. Banappanavar, S. Bhatand S. R. Hegde	Failure Analysis of Superheater Tube Bundle in a Chemical Plant	Materials Today Proceedings
39	Gr2(18)	Prashant Kumar Mishra, Aditya Dash, Somaditya Sen*	Optical properties and defects study in Zn <sub>1-x</sub> (CrGa) <sub>x/2</sub> O (x ≤ 0.0234)	Materials Today Proceedings
40	Gr2(19)	Nitish Kaushik, Prakash Kumar, Joyjeet Ghosh, Sanjay K Jha	Study of Mechanical Properties of Al2014-B <sub>4</sub> C-Gr Hybrid Nano Composite	Materials Today Proceedings
41	Gr2(20)	J K Rakshan Kumar, Preetish D'Silva, Debalina Bhattacharjee and Subray R Hegde	Creep Cavitation Damage in Industrial K-Type Thermocouples	Materials Today Proceedings
42	Gr2(21)	Sovan Kumar ray, Kalyan Kumar Singh, Md Touhid Alam Ansari	Effect of small ply angle variation in tensile and compressive strength of woven GFRP composite: application of two parameter weibull distribution	Materials Today Proceedings
46	Gr2(22)	Rakesh Rosan, A. Behera	Effect of EN ratio on mechanical property of 600 MC steel	Materials Today Proceedings
47	Gr2(23)	Sangamesh Rajole*, Pavankumar R Sondar, Shivashankar Hiremath, Ravishankar K. S.	Failure analysis of industrial discharge hopper pipe	SCI
48	Gr2(24)	Saikat Mandal*, Ayan Pramanick, Shirsendu Chakraborty, Partha Pratim Dey	Phase determination of ZrB <sub>2</sub> -B <sub>4</sub> C Ceramic Composite material using XRD and Rietveld refinement analysis	Materials Today Proceedings
50	Gr2(25)	Sanjay Kumar Gupta*, Mithlesh Kumar Mahto, Avinash Ravi Raja, Meghanshu Vashista, Mohd Zaheer Khan Yusufzai	Characterisation of welded plate through micro-magnetic technique	Materials Today Proceedings
51	Gr2(26)	S K Basantia*, P K Prusty, Md Ameerulla, D Das, N Khutia	Micro-scale simulation of nanoindentation characteristics in dual-phase steel	Materials Today Proceedings
57	Gr2(27)	Sudeshna Parida, P. Singh, P. Upadhyay, D. K. Sahu, S. Sarkar,	Electro-crystallization of copper: An electrochemical impedance spectroscopy study	Materials Today Proceedings

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		A.Mallik*		
58	Gr2(28)	Surajit Basak, Surajit Patra, Prosanta Biswas, and Manas Kumar Mondal	Microstructure, Mechanical Properties and Fracture Behaviour of near Eutectic Al-12.6Si Alloy with and without Al-5Ti-1B Addition	SCI
59	Gr2(29)	Swagat Dwibedi and Swarup Bag	Assessment by destructive and non-destructive approach to characterize 90/10 cupronickel weldments	Materials Today Proceedings
61	Gr2(30)	Srikumar Biradar, Sharnappa Joladarashi, S. M. Kulkarni	Investigation on mechanical behaviour of filament wound glass/epoxy composites subjected to water absorption and also tribological studies using taguchi method	Materials Today Proceedings
64	Gr2(31)	Swarnalata Behera, Rakesh umar Barik, Md Basiruddin Sk, Rahul Mitra, Debalay Chakrabarti	Effect of processing parameters for improving the impact toughness of high-strength pearlitic steel by controlling the cleavage cracking mechanisms	Materials Today Proceedings
66	Gr2(32)	T. Dash, B. B. Palei, T. K. Rout, J.P. Dhal, S. K. Biswal and P. Patnaik	Silicon-Graphene Composite Synthesis: Microstructural, Spectroscopic and Electrical Conductivity Characterizations	SCI
68	Gr2(33)	Ravikiran U*, Elizabeth Zacharias, G Rajashekhar and P Sarah	Preparation, Characterization and AC conductivity studies on rare-earth substituted SBTi ceramics	SCI
69	Gr2(34)	S. K. PANDA, J. SRINIVAS	Material Characterization for Energy Harvesting	SCI
70	Gr2(35)	Ayan Pramanicka, Saikat Mandala, Partha Pratim Deya, Probal Kr Dasb	Microstructural Characterization and mechanical properties of hot-pressed boron carbide ceramic sample machined with WEDM	Materials Today Proceedings

Abstract No.	Poster Presentation No.	Authors	Topic Title	Journal
1	Gr2(P1)	C. S. Karua, A. Sahoo*	Synthesis and characterization of starch/chitosan composites	Materials Today Proceedings
7	Gr2(P2)	Aparna Zagabathuni*, S. Kanagaraj	Comparative analysis of mechanical properties of different topologies of the cantilever beam to mimic the function of the cochlea	Materials Today Proceedings
8	Gr2(P3)	Suwendu Kumar Barik, Kitheri Joseph, K. Ananthasivan*	A study of structural and thermal properties of high temperature sodium aluminium phosphate glass matrix containing lanthanides (Pr, Ce, Nd and Gd)	Materials Today Proceedings
11	Gr2(P4)	Swadhin Kumar Patel, Narasingh Deep, Layatitdev Das	A Study on Mechanical and Tribological Behavior of Alumina filled AA5754 Composites using Taguchi Experimental Design	Materials Today Proceedings
16	Gr2(P5)	G. Bhattacharya, N. V. P. Chaudhary, S. S. Takri, R. R. Kumar, A. Venimadhav	Investigation of Thermionic Emission mechanism in Gallenol based Schottky diodes	Materials Today Proceedings
23	Gr2(P6)	Dr.Kushal Singh*	Process-Structure-Property Correlation of (x)CoFe <sub>2</sub> O <sub>4</sub> +(1-x) BaTiO <sub>3</sub> (x = 0.8, 0.5, 0.2) Magnetolectric Composites	Materials Today Proceedings
26	Gr2(P7)	Monisha Michael*, Aparna Zagabathuni, S. K. Pabi, S. Ghosh	Effect of particle concentration and temperature on the thermo-physical properties of ethylene glycol-water mixture based boron nitride nanofluids and development of a new correlation	SCI
32	Gr2(P8)	Saniya Ayaz, Neha, Aditya Dash, Somaditya Sen	Effect of Al <sup>3+</sup> /Si <sup>4+</sup> codoping on the structural, optoelectronic and UV- sensing properties of ZnO	SCI
37	Gr2(P9)	S. K. Pradhan*, Vedant Kedia, P. Kour	Review on Different Materials and their characterization as Rocket Propellant	Materials Today Proceedings
45	Gr2(P10)	Ritika Singh, Trilochan Satapathy, Jhakeshwar Prasad	Characterization and Evaluation of Acacia arabica drug containing Microparticles	Materials Today Proceedings

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54	Gr2(P11)	Subrat Kumar Jena, S. Chakraverty	Stability Analysis of Nanobeam with Uncertain Structural Parameters	Materials Today Proceedings
56	Gr2(P12)	Annie Stephy	Development, Characterization and Mechanical Properties of EVA Based Bio-composite	Materials Today Proceedings
62	Gr2(P13)	Santosh Kumar Satpathy*, Adiraj Behera,* and Ranjan Kumar Mohapatra	Study of dielectric, structural and electrical properties of ZnFe <sub>2</sub> O <sub>4</sub>	SCI

## Group - 3 (Advanced Materials)

Abstract No.	Oral Presentation No.	Authors	Topic Title	Journal
2	Gr3(1)	I. Chakraborty, A. Chauhan, R. B. Nair, A. Babu, H. S. Arora, H. S. Grewal*	Tribological behaviors of TiG synthesized NiTi alloy processed under different cooling conditions	Materials Today Proceedings
8	Gr3(2)	Debasis Nayak, Shubham Majumdar, Sudipto Ghosh and Venimadhav Adyam	Superior Electrochemical Performance of NaFe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> Thin Film Electrode Fabricated By Pulse Laser Deposition	Materials Today Proceedings
10	Gr3(3)	Meenaketan Sethi, D Krishna Bhat*	NiO Nanoplates for Energy Storage Application: Role of Electrolyte Concentration on the Energy Storage Property.	Materials Today Proceedings
13	Gr3(4)	D. Pradhan, A. Gartia, S. P. Ghosh, K. K. Sahoo, N. Tripathy, G. Bose, J. P. Kar	Synthesis of MoS <sub>2</sub> thin films by sulphonation of sputtered Mo thin films	SCI
17	Gr3(5)	Gaurab Kumar Ghosh, R. Kumar Patel, A. Saxena, S. Gangwar	Rheological properties analysis of MWCNT/Graphene Hybrid-Gear oil (SAE EP-90) nanolubricants	Materials Today Proceedings
19	Gr3(6)	Hukum C. Dewangan, Pankaj V. Katariya, Subrata K. Panda	Time-dependent deflection responses of layered composite structure with concentric/eccentric cut-out	Materials Today Proceedings
21	Gr3(7)	S. Janakiraman, Rasmita Biswal, Sudipto Ghosh, A. Venimadhav	Fabrication of amorphous electroactive polyvinylidene fluoride-co-hexafluoropropylene based gel polymer electrolyte for sodium ion batteries	Materials Today Proceedings
22	Gr3(8)	B. K. Samal, J. K. Sahoo, S. Mallick, A. R. Pati, S. C. Patnaik P. K. Mallik	Mechanochemical Synthesis of CaTiO <sub>3</sub> Powders: Microstructure and Surface morphology	Materials Today Proceedings
25	Gr3(9)	KK Guduru, Dr. G. Srinivasu	Effect of Post treatment on Tensile properties of Carbon reinforced PLA composite by 3D Printing	Materials Today Proceedings
27	Gr3(10)	Koyal Suman Samantaray, Ruhul Amin and Somaditya Sen	Structural, Dielectric and Optical Properties of V and V-Fe Modified 0.94(Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> )-0.06(BaTiO <sub>3</sub> )	SCI
30	Gr3(11)	Munuswamy Marimuthu, Shanmugam Ganesan	Amplified Charge transfer behavior of NiO@MgO-Co Nanosheets as an electrode material for high-performance, ultra-thin film, supercapacitor with superior cyclic performance.	Materials Today Proceedings
34	Gr3(12)	Preetish C. Dsilva' and Subray R. Hegde'	Annealing behaviour of Inconel 601 sheets	Materials Today Proceedings
37	Gr3(13)	Prashik Malhari Ramteke, Subrata Kumar Panda and Bibhu Prasad	Static Deflection Analysis of 2D Functionally Graded Porous Structure	Materials Today Proceedings

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		Mahapatra		
39	Gr3(14)	Luna Jena, Dhani Soren, Kabita Nayak, Pusalata Pattojoshi*	Biomass derived carbon materials for energy storage applications	Materials Today Proceedings
41	Gr3(15)	G.Rajashekhar, T.Sreekanth, Ravikiran U, P. Sarah	Dielectric properties of Na and Pr Doped SrBi <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub>	Materials Today Proceedings
43	Gr3(16)	Rasmita Biswal*, Vineeta Shukla*, S. Janakiraman, Sudipto Ghosh, Venimadhav Adyam	Novel dual core@shell Fe <sub>3</sub> O <sub>4</sub> @C@polypyrrole (PPy) composite for battery application	Materials Today Proceedings
44	Gr3(17)	Rupali Singh*, S Janakiraman, Ashutosh Agrawal, Debasis Nayak, Sudipto Ghosh and K. Biswas	A compatibility study of Mg(TFSI) <sub>2</sub> /PC electrolyte with different separators for magnesium-ion battery application	Materials Today Proceedings
45	Gr3(18)	Deepak Kumar Sahu, P. Upadhyay, S. Parida, P. Singh and A. Mallik*	Nickel electro-crystallization in ultrasonic environment: An in process and post-synthesis analysis	Materials Today Proceedings
46	Gr3(19)	A. SaiKanishka, E. Gopinath, K.Sai harun, AjitBehara, Srikar P	Homogenized Mixture (Ni-Al-hBN) Plasma Sprayed on Mild Steel by Varying Spray Velocity	Materials Today Proceedings
47	Gr3(20)	Yi Fan Lv and Sarat Singamneni	Flame retardant polymeric materials for additive manufacturing	Materials Today Proceedings
49	Gr3(21)	Sushree Sefali Mishra, Debasis Chaira, Swapan Kumar Karak	Effect of Si addition on phase evolution, microstructure and mechanical properties of Si <sub>3</sub> N <sub>4</sub> -Mo cermet fabricated by conventional powder metallurgy	SCI
56	Gr3(22)	T. Badapanda*, B. Parija, S. Chatarjee	Investigation of electromechanical, piezoelectric and ferroelectric properties of Ba(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> ceramic	Materials Today Proceedings
57	Gr3(23)	T. R. K. Dora, S. Gollapudi*, S. Prabhakaran, S. Kalainathan, S. A. Kumar, R. Goud, H. R. Shankar, P. S. De, R. Jha	Surface Characterization of Laser Shock Peened Ni-Ti Shape Memory Alloy	Materials Today Proceedings
58	Gr3(24)	Tapasendra Adhikary	Synthesis of Ni/Ti thin film by magnetron sputtering to study the effect of annealing time on microstructure and mechanical properties	SCI
59	Gr3(25)	Mr. Vamsi Krishna Chowduru	Performance based material selection of impeller used for Small gas turbine engines	Materials Today Proceedings
64	Gr3(26)	Rajashree Sahoo, Lizina Khatuab, Susanta Kumar Das	Photocatalytic study of Methyl Orange dye in UV exposure by using ZnO nanoparticles	Materials Today Proceedings

Abstract No.	Poster Presentation No.	Authors	Topic Tittle	Journal
1	Gr3(P1)	Prashant Kumar Mishra, Aditya Dash, Neha, Somaditya Sen*	Improved Photoresponse, Electrical Conductance and Enhancement Instructural, Vibrational and Optical Properties in zn1-X(Gafe)X/2o (X≤0≤0.0156)	SCI
20	Gr3(P2)	Iman Sengupta, Suddhapalli S SSharat Kumar, udipto Chakraborty, Surjya K Pal	Characterization of Structural Evolution of Graphene Oxide to Reduced Graphene Oxide during Thermal Reduction	SCI
23	Gr3(P3)	J. K.Sahoo, S. Mallick, P. K. Mallik*, S.C.Patnaik	Sol-Gel Synthesis and Characterisation of pressureless sintered multifunctionalAl <sub>2</sub> O <sub>3</sub> -CaTiO <sub>3</sub> composite	



Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

24	Gr3(P4)	Rasmita Jena, K. Chandrakanta, P. Pal, Md. F. Abdullah, A. Sarangi, S. D. Kaushik, A. K. Singh	Investigation of dielectric relaxations and conduction mechanism in Aurivillius ceramic $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$	SCI
26	Gr3(P5)	K. Chandrakanta, R. Jena, P. Pal, Md. F. Abdullah, A. Sarangi, S. D. Kaushik and A. K. Singh	Effect of Co substitution on the structural, dielectric and optical properties of $\text{KBiFe}_2\text{O}_5$	SCI
28	Gr3(P6)	Krishna Kumar Maurya, Anupam Rawat and Govinda Jha	Smart Materials and Electro-Mechanical Impedance Technique: A Review	Materials Today Proceedings
35	Gr3(P7)	Prakash Kumar, Anil Kumar, C. Pandey, Shailesh K. Dewangan	Materials for energy harvesting with a nonlinear energy sink: A literature review	
42	Gr3(P8)	Mr Raj Manik, Dr.AjitBehera	Thermal encoding using shape memory alloy	SCI
53	Gr3(P9)	Swadhin Kumar Patel, Biswajit Swain, Ajit Behera	Evolution of Phases and Effects of Sintering Parameters on the NiTi Alloys Fabricated by Conventional Press and Sinter Process	SCI
54	Gr3(P10)	J. Mishra, R. S. Krishna, S. Kumar Das*, B. Nanda, S. K. Patro, S. M. Mustakim	Graphene reinforced geopolymer composites for smart and sustainable future - a <u>meta</u> analytic review	SCI
66	Gr3(P11)	Debabrata Mohanty, S. K. Biswal, Banarji Behera, Ranjan K. Mohapatra, Adiraj Behera and Santosh K. Satpathy*	INVESTIGATION OF DIELECTRIC, STRUCTURAL AND ELECTRICAL PROPERTIES OF $\text{ZnFe}_2\text{O}_4$	Materials Today Proceedings

## Group - 4 (Composite)

Abstract No.	Oral Presentation No.	Authors	Topic Title	Journal
1	Gr4(1)	Swapnasarit Kar, K. C. Biswal	Strengthening of shear deficient reinforced concrete T-beams using BFRP composites	Materials Today Proceedings
6	Gr4(2)	Akhya Kumar Behera, Amlan Das, Archana Mallik*	Electrochemically functionalized graphene as an anticorrosion reinforcement in Cu matrix composite thin films	SCI
7	Gr4(3)	A. K. Mehar*, Sreekanth Kotni, S. S. Mahapatra and S. K. Patel	A Comparative Study on Drilling Performance of Hydroxyapatite-Polycarbonate and Hydroxyapatite-Polysulfone Composites Using Principal Component Analysis Methodology for Orthopaedic Applications	Materials Today Proceedings
8	Gr4(4)	A. Maiti, A Pattanaik, S K Rout, B. R. Moharana, S Behera, S Thakur, S R Sahoo, S R Amanta	Mechanical property analysis of SiC reinforced epoxy composite synthesized at room temperature	Materials Today Proceedings
10	Gr4(5)	B. S. Meher, D. Chaira, R. Saha, P. R. Samantaray	Phase evolution, microstructure and mechanical properties study of Fe-MWCNTs metal matrix composite fabricated by conventional powder metallurgy: effect of dry milling and MWCNTs content	Materials Today Proceedings
11	Gr4(6)	Bishnudugu	An Experimental investigation of the effects of reinforcement of graphene fillers on mechanical properties of bidirectional glass/epoxy composite	Materials Today Proceedings
13	Gr4(7)	B. S. K. Gargeya, Shiv Kumar, Bankim C. Ray, Snehanshu Pal	Structural Evolution-Energetics Correlation during Shock wave Propagation in Epoxy-CNT Nano-composite	SCI
14	Gr4(8)	Angesh Chandra, Archana Chandra, Alok Bhatt	Ion Conduction and Solid State Battery Fabrication of a New $\text{K}^+$ Ion Conducting Nanocomposite Polymer Electrolytes	Materials Today Proceedings

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

16	Gr4(9)	Sesadeba Pani, Dhirenkumar Behera	Static analysis of graphene reinforced composite plate	Materials Today Proceedings
17	Gr4(10)	Abjesh Prasad Rath, Swadhin Kumar Patel, Narasingh Deep	Synthesis and characterization of silicon carbide nanoparticulate reinforced metal matrix composite	Materials Today Proceedings
18	Gr4(11)	Harsh Kumar Pandey, Himanshu Agrawal, Hukum Chand Dewangan, P. V. Katariya, S. K. Panda	Frequency Analysis of Hollow GalssCenosphere Filled Layered Composite Panel	Materials Today Proceedings
19	Gr4(12)	Krutibash Ray, HemalataPatra, Anup Kumar Swain, Sourabh Mahapatra, Suryakanta Rana, Bibhudatta Parida, Asit Kumar Sahu	Glass/Jute/Sisal Fiber Reinforced Hybrid Polypropylene Polymer Composites: Fabrication and Analysis of Mechanical and Water Absorption Properties	Materials Today Proceedings
20	Gr4(13)	Mahesh, Prashant Rawat, K. K. Singh and P. K. Singh	Comparison of Steel and Fiber-Reinforced Polymer Rebars for Mining Applications: A Numerical Approach	Materials Today Proceedings
22	Gr4(14)	Kevin Amith Mathias, Shivashankar H, B S Manohar Shankar, S M Kulkarni	Influence of filler on dielectric properties of silicone rubber particulate composite material	Materials Today Proceedings
24	Gr4(15)	Puspa Ranjan Swain and Padmanav Dash	Dynamic Analysis of Laminated Composite Plates Subjected to Blast Load	Materials Today Proceedings
26	Gr4(16)	Pradyut Kumar Swain, Kasinath Das Mohapatra, Pratyush Kumar Swain	Synthesis and Development of Al + SiC <sub>p</sub> Nano Composites and Study of its Machining Processes	Materials Today Proceedings
28	Gr4(17)	R. K. Thakura*, K. K. Singha, J. Ramkumarb	Delamination analysis and hole quality of hybrid FRP composite using abrasive waterjet hole cutting	Materials Today Proceedings
29	Gr4(18)	P S Raghavendra Rao, Dr C B Mohan	Study on Mechanical Performance of Silicon Nitride Reinforced Aluminium Metal Matrix Composites	Materials Today Proceedings
33	Gr4(19)	Satyaroop Patnaik, Pavan Kumar Gangineni, Bankim Chandra Ray, Rajesh Kumar Prusty	Effect of liquid Nitrogen aging time on the ILSS properties of Carbon fiber/Epoxy composite decorated with Graphene-based nanofillers	Materials Today Proceedings
34	Gr4(20)	Savita Gupta , Srinivasu Dasari, Snehanshu Pal, Rajesh Kumar Prusty and Bankim Chandra Ray	Assessment of open hole flexural strength and progressive damage mechanism of CFRP composite as a function of stacking sequence	SCI
37	Gr4(21)	Shivashankar H, S Rajole, Pavankumar R Sondar, Kevin Amith Mathias, S M Kulkarni	Synthesis, Characterization and Physico-Mechanical Properties of Carbon Black infused Polymer Composite	SCI
40	Gr4(22)	Md Touhid Alam Ansari*, Kalyan Kumar Singh , MdSikandar Azam	Effect of Fabric Areal Density on the Static Mechanical Properties of Symmetric and Asymmetric Woven GFRP Composite	Materials Today Proceedings
41	Gr4(23)	Veeranna Gedigeri, Arunkumar D T, Raghavendrarao P S, G. Sreenivasulu, A. Pattanaik, Vinod*	Mechanical properties of Cissus Quandrangularis Stem Fiber Reinforced Isophthalic Polyester Composites	SCI
43	Gr4(24)	Sushant Saurabh, Srinivasu Desari, Rajesh Kumar Prusty and Bankim Chandra Ray	Model-1 interlaminar fracture toughness improvement of the glass fiber reinforced epoxy composite by using multiscale composite appraoch	Materials Today Proceedings
45	Gr4(25)	Kishore Kumar Mahato*, Dinesh Kumar Rathore, Krishna Dutta, Rajesh Kumar Prustyand Bankim Chandra Ray	Effect of severely thermal shocked nano-Al <sub>2</sub> O <sub>3</sub> filled glass fiber reinforced polymeric composites: An assessment on tensile, thermal and morphological behavior	Materials Today Proceedings

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

46	Gr4(26)	Sudeshna Dhar, Asutosh Jena, S.C. Patnaik, S.K. Sahoo, Omkar Tripathy	A study on microstructure and mechanical properties of aluminiummatrix composites with micro-sized iron fillers produced by powder metallurgy route	Materials Today Proceedings
47	Gr4(27)	Mr. Rajesh Egala, Dr. Srinivasu Gangi Setti	Identification of effective sodium hydroxide treatment parameters for Ricinus Communis L fiber reinforced epoxy composite for better mechanical properties- A preliminary study	SCI
50	Gr4(28)	Nazrul Islam Khan, Sudipta Halder* , Shashi Bhushan Gunjan	Bismaleimide functionalization of GNP for DA-based self-healing of epoxypolymer nanocomposites	SCI
51	Gr4(29)	Milli Suchita Kujur*, Ameya Deshpande, Ashis Mallick and Manoj Gupta	Development of Rare-Earth Oxide Reinforced Magnesium Nanocomposites Targeting Biomedical Applications	Materials Today Proceedings

Abstract No.	Poster Presentation No.	Authors	Topic Tittle	Journal
4	Gr4(P1)	Alok Bhatt*, Angesh Chandra, Archana Chandra	Synthesis and ion conduction of Ag <sup>+</sup> ion conducting glass-polymer composites	Materials Today Proceedings
9	Gr4(P2)	Avadesh Yadav*, B N V S Ganesh Gupta K, A. O. Fulmali, R. K. Prusty, Bankim Chandra Ray	Effect of cure kinetics and nanomaterials on glass fiber/vinyl ester composites: An assessment on Mechanical, Thermal and Fracture Morphology	Materials Today Proceedings
27	Gr4(P3)	Priyadarshi Das* , and Shishir Kr. Sahu	Experimental and Numerical Study on Free Vibration of Cracked Woven Fiber Glass/Epoxy Composite Beams	Materials Today Proceeding
36	Gr4(P4)	Sesadeba Pani, Dhiren Kumar Behera	Active constrained layer damping treatment on graphene reinforced composite plate	Materials Today Proceedings
38	Gr4(P5)	Prabina Kumar Patnaik, Priyadarshi Tapas Ranjan Swain, Srimant Kumar Mishra, Sandhyarani Biswas	Composite material selection for structural applications based on AHP-MOORA approach	Materials Today Proceedings

## Group - 5 (Surface Degradation & Modification)

Abstract No.	Oral Presentation No.	Authors	Topic Tittle	Journal
1	Gr5(1)	Abhishek Babu, R.B Nair, H. S. Arora, H. S. Grewal*	Wear behavior of Microwave-annealed and Cryogenically Treated Thermal Spray Coatings: AComparative Evaluation	Materials Today Proceedings
2	Gr5(2)	Amrit Jena, Shubham, Rajesh Kumar Prusty, Bankim Chandra Ray	Tribological And Thermo-Mechanical Behaviour of Nanoparticles (Graphene and SiO <sub>2</sub> ) Reinforced E-Glass Fibre Epoxy Composite	SCI
3	Gr5(3)	Amlan Das, Akhya Kumar Behera, Archana Mallik*	An exploration on anti-corrosion performance of electrochemically synthesized graphene coating on commercially pure copper	Materials Today Proceedings

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

4	Gr5(4)	A. P. Chakraverty, D. Parida, S. Das, M. Parida, S. Beura, U. K. Mohanty	Thermo-Mechanical Response of Post-Plasma irradiated E-Glass fibre/epoxy Composite	Materials Today Proceedings
5	Gr5(5)	Anjani Kumar, Anil Kumar Das	Wear resistance of Cobalt-based ceramic coating on stainless steel by TIG coating process	SCI
6	Gr5(6)	Bikram Behera, Priyabrata Mallick, Biswajit Swain, Ajit Behera	Plasma sprayed (Al+Ni+(h)BN) homogenized mixture for improvement of abradable resistance on aero-engine inner casing surface	SCI
8	Gr5(7)	*Priyabrata Das, Shalini. D, Anand Prakash, Seshu K S, S Gollapudi	Effect of additives on corrosion performance of electroplated nickel coating prepared from modified watts bath	Only presentation
9	Gr5(8)	S. Deepak Kumar, Shailesh Dewangan, S. K. Jha, A. Manda	Optimization of Dry Sliding Wear parameters of Thixoformed A356-5TiB <sub>2</sub> in-situ composites using RSM	Materials Today Proceedings
15	Gr5(9)	Murlidhar Patel, Sushanta Kumar Sahu and Mukesh Kumar Singh	Abrasive Wear Behavior of SiC Particulate Reinforced AA5052 Metal Matrix Composite	Materials Today Proceedings
16	Gr5(10)	M. D. Joshi, V. Kumar, A. K. Litoria, D. Singh, S. S. Hosmani	Effect of Surface Mechanical Attrition Treatment on Tribological Behavior of AISI 2205 Steel	SCI
23	Gr5(11)	Sikta Panda, Chandan Kumar Biswas, Subhankar Paul	Coating of Ti-6Al-4V Alloy with Chitosan and BSA for Enhanced Biocompatibility	Materials Today Proceedings
26	Gr5(12)	S. K. Chourasiya, G. Gautam, D. Singh	Microstructural and Tribological Behaviour of Cryorolled Spray Formed Al Alloy	SCI
27	Gr5(13)	Swarnima Singh, Krishna Kant Pandey, Anup Kumar Keshri	Effect of plasma power on corrosion behaviour of plasma sprayed hydroxyapatite coatings	SCI
28	Gr5(14)	Shivaram M. J a, Shashi Bhushan Arya a, Jagannath Nayaka, Bharat B Panigrahi	Role of porosity on electrochemical corrosion behavior of porous Ti-20Nb-5Ag alloy in simulated body fluid	Materials Today Proceedings
29	Gr5(15)	Sohan Singh Rajpurohit*, Dr. Rabindra Kumar Sinha, Prof. Phalguni Sen	Influence of Cerchar Hardness Index of hard granite on wear of diamond tools	Materials Today Proceedings
30	Gr5(16)	Tanmoy Das, Abhishek Sharma and Jinu Paul	Effect of graphene coating on the microstructure and mechanical properties of TIG surface melted AISI 316L steel	SCI
31	Gr5(17)	Pundrikaksha Upadhyay, S. Parida, P. Singh, D. K. Sahu, K. K. Pandey, S. Sarkar and A. Mallik*	Corrosion behavior of SAIL-CRLA steel used in mixed gas pipelines of coke oven, blast furnace and LD processes	Materials Today Proceedings
32	Gr5(18)	Nasim Etim Dan, Patthi Bin Hussain, and Shaik Nagoor Basha	Surface modification by low Temperature Gas nitriding of 2205 duplex stainless steel using 5% H <sub>2</sub> and 95% N <sub>2</sub> to increase hardness and corrosion resistance properties	Materials Today Proceedings
35	Gr5(19)	Kamal B. Yadav and Renu Kumari	Microstructure and Corrosion Behavior of Alkaline Treated Mg Alloy	Materials Today Proceedings
37	Gr5(20)	Smita Pandey	Development and Tribological Behaviour of TaC Based Ceramic Composites	
39	Gr5(21)	B. B. Palei, T. Dash # and S. K. Biswal	Preparation of Graphene Reinforced Aluminum Composites: Investigation of Microstructural, Electrical Conductivity and Microhardness Behaviour	SCI

Abstract No.	Poster Presentation No.	Authors	Topic Title	Journal
10	Gr5(P1)	B. Swain*, S. Patel, M. Priyadarshini, S. S Mohapatra, S. Samal, S. Bhuyan,	Bonding strength analysis of plasma sprayed NiTi coating	SCI

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

		A. Behera		
11	Gr5(P2)	Uttam Kumar Murmu, Manojit Ghosh, Monojit Dutta	Microstructure and corrosion behavior of sputter deposited pure Al coating on 4130 chromalloy steel	SCI
13	Gr5(P3)	J. Parida, S. C. Pattnaik, S. K. Bhuyan, S. C. Mishra, and A. Behera	Effect of Heat Treatment on Wear Behaviour of Al-7%Si-Mg Alloys	Materials Today Proceedings
24	Gr5(P4)	S K Bhuyan*, S K Sahu, B Swain, S K samal, M P Satpathy, S C Mishra, S Smahapatra, A Behera.	The effect of atmospheric plasma spray parameters on properties of Bauxite added Fly ash based Coatings	Materials Today Proceedings
25	Gr5(P5)	Sunny Kumar, Dharmendra Patel, Tushar Banerjee	Tribological Characteristics of Electroless Multilayer Coating: A Review	Materials Today Proceedings
36	Gr5(P6)	S. Sarkar, A. Mukherjee, R. Nandi, A.K. Srivastwa1, R. K. Baranwa1, J. De, G.Majumdar	Parametric Optimization of Corrosion Rate of Electroless Ni-P Coating Using Box-Behnken Design	Materials Today Proceedings

## Group - 6 (Waste Utilization)

Abstract No.	Oral Presentation No.	Authors	Topic Title	Journal
1	Gr6(1)	K. Abhishek, V. Kumar, S. Sudershan, S. K. Dhua	Utilization of Steel Plant Wastes	Materials Today Proceedings
4	Gr6(2)	Anupama Sahu, S. C. Mishra	Processing and properties of Calotropis Gigantea bio-char : A wasteland weed	Materials Today Proceedings
7	Gr6(3)	Durga P. Subudhi, Manas R. Das	Assessing the cementitious potential of KOH activated fly ash through microstructural, thermal and mechanical analysis	SCI
10	Gr6(4)	J. Mishra, S. K. Das, R. S. Krishna, B. Nanda, S. K. Patro, S. M. Mustakim	Synthesis and Characterization of a new class of Geopolymer binder utilizing Ferrochrome Ash (FCA) for sustainable industrial waste management	Materials Today Proceedings
12	Gr6(5)	Nivedita Patel and Krushna Prasad Shadangi*	Characterization of Waste Engine Oil (WEO) Pyrolytic oil and Diesel blended oil: Fuel properties and Composition analysis	Materials Today Proceedings
13	Gr6(6)	Abhilash Purohit*, Alok Satapathy and Priyadarshi Tapas Ranjan Swain	Analysis of Sliding Wear Behavior of LD Sludge Filled Epoxy Composites using Surface Response Methodology	Materials Today Proceedings
15	Gr6(7)	Gautam Behera, Sristy Hembram, Damayanti Swain, Manila Mallik	Composite Preparation by the Use of LD Slag and Waste Glass	Materials Today Proceedings
17	Gr6(8)	B S S Phanisankar, N. Vasu Deva Rao, J. E. Manikanta	Conversion of waste plastic to fuel products	Materials Today Proceedings
19	Gr6(9)	P Sai Kumar Reddy, Y Rajesh Kumar, P Saikiran G. Raghavendra, Srikar P	Environmental Effect on Erosion Wear of Eggshell Particulate Epoxy Composite	SCI
21	Gr6(10)	Satish Chandra Bhuyan*, Anup Kumar Swain, Abanti Sahoo, Subrat Kumar Bhuyan	Nutrient (sulphate) removal from wastewater in Inverse Fluidized Bed Biofilm Reactor	Materials Today Proceedings

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

22	Gr6(11)	Shubham Mishra, Bibhash Kumar Dutta, Ajit Kumar Senapati	Comparative investigation on mechanical and tribological property of LM6 and AL6061 alloy reinforced with fly ash	Materials Today Proceedings
25	Gr6(12)	Swetapadma Panda*, Pradip Sarkar	Leaching Behaviour of Copper Slag Aggregate Cement-Mortar by Atomic Absorption Spectroscopy (AAS)	Materials Today Proceedings
26	Gr6(13)	S. K. Singh, Shaswat Kumar Das*, U. Behera, J. Mishra, S. M. Mustakim, S. R. Mallick, T. Sahu	Characterization and Analysis of Fly Ash Generated from NTPC-TTPS, Talcher, India: A Case Study	Materials Today Proceedings
27	Gr6(14)	Shaswat Kumar Das*, J. Mishra, S. K. Singh, S. M. Mustakim, S. K. Das, U. Behera	Characterization and incorporation of ultra-fine rice husk ash (URHA) in geopolymer concrete for property enhancement	Materials Today Proceedings
31	Gr6(15)	* Subhakanta Dash, Itishree Moanty, Rudra Prasanna Nayak and Biswabandita Kar	Use of Sintered Fly ash aggregate in Pervious Concrete	SCI

Abstract No.	Poster Presentation No.	Authors	Topic Title	Journal
9	Gr6(P1)	J. Mallick, S. Soumya, P. K. Pani	Strength and Durability Study Of Concrete Using Precious Slag Balls	Materials Today Proceedings
14	Gr6(P2)	Nilima Baisakhi, Biswajit Choudhury, Durga Prasad Subudhi	Development of recycled aggregate-based concrete with crusher dust	Materials Today Proceedings
16	Gr6(P3)	Pritam Kr. Pati and Shishir Kr. Sahu	Innovative utilization of fly ash in concrete tiles for sustainable construction	Materials Today Proceedings
23	Gr6(P4)	Santosh Kumar Tripathy , Ajit Kumar Senapati	A Review on Turning Analysis of industrial waste reinforced Aluminum Metal Matrix composite	Materials Today Proceedings
5	Gr6(P5)	A Pattanaik, M Mukharjee, M P Satpathy, S B Mishra, Adarsha H, A Behera	Electrical Properties of Fly Ash Reinforced Epoxy Resin Composite	Materials Today Proceedings
6	Gr6(P6)	D. K. Sahoo, S. Sarkar, A. Behera	Utilization of Alternate Materials for OPC Clinker Manufacturing	Materials Today Proceedings
32	Gr6(P7)	*B. K.Bhoi, P. Mallick, A. Behera	Plasma technology based fly-ash for the improvement of the surface properties of high temperature materials	

## Group - 7 (Computational Materials)

Abstract No.	Oral Presentation No.	Authors	Topic Title	Journal
1	Gr7(1)	M. AkhilYuvaraj, G. Satish	Comparative study of different pipe geometries using CFD	Materials Today Proceedings

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

2	Gr7(2)	Manisha Priyadarshini*, A. Behera, Biswajit Swain	Multi-objective optimization of EDM process for Titanium alloy	Materials Today Proceedings
5	Gr7(3)	Dheeraj K Gara, Srikar Potnuru, A. Behera	Determination of third order elastic constants from Morse potential for a Nitinol shape memory alloy	SCI
7	Gr7(4)	R. K. Thakur, K. K. Singh, Karunesh Kumar	Investigation of Milling Characteristics in Graphene-Embedded Epoxy/Carbon Fibre Reinforced Composite Using Grey Relational Analysis	Materials Today Proceedings
8	Gr7(5)	O. S. Vishnu, Mahendra Gattu	Cohesive Zone Modeling of Thin Aluminium Sheets	Materials Today Proceedings
11	Gr7(6)	Kanhu Charan Nayak, Prashant P Date	Mathematical model for weight fraction of reinforcement addition in a metal matrix through powder metallurgy route	Materials Today Proceedings
13	Gr7(7)	S Signum and Manas R. Das	Finite Element Analysis of a Shell Structure Mimicking Turtle Shell Using ANSYS	Materials Today Proceedings
14	Gr7(8)	Narasingh Deep, Punyapriya Mishra, Layatitdev Das	Application of adaptive neuro-fuzzy inference system (ANFIS) for predicting dielectric characteristics of CNT/PMMA nanocomposites	Materials Today Proceedings
15	Gr7(9)	Pokula Narendra Babu , B. S. K. Gargeya, Bankim Chandra Ray, Snehanshu Pal	Dynamic investigation of structural evolution and deformation behavior for CNT reinforced nanocrystallinealuminum under biaxial tensile load using Molecular Dynamics simulation	Materials Today Proceedings
16	Gr7(10)	S k. NagoorBasha, Kedar Mallik Mantrala , K L Narayana	Prediction of Corrosion Properties of LENS™ Deposited Co-Cr-Mo Alloy Using Artificial Neural Networks	SCI
19	Gr7(11)	Ravi Shankar Anand*, Prashant Prakash , Sanjay Kumar Jhaand Abhishek Kumar Singh	Numerical Investigations of Effect of Input Process Parameters on Heat Generation in Friction Stir Welding	SCI
23	Gr7(12)	Pradip Kumar, Dr. Chhabi Ram Matawale	Modeling and analysis of composite leaf spring for TATA HYVA	Materials Today Proceedings
24	Gr7(13)	Rahul Bhandari, Manab Mallik, Manas Kumar Mondal*	Study on the influence of the Outer Corner Angle and coefficient of friction on the plastic deformation in Equal Channel Angular Pressing through Finite Element Analysis	SCI
25	Gr7(14)	Manas Ranjan Panda, H. K. Narang, S. S. Mahapatra, Rajendra Kumar Praharaj	Numerical and experimental investigation on shape of sonotrode during ultrasonic welding	SCI
26	Gr7(15)	Pritam Ghosh and K. Ramajeyathilagam	Numerical investigation on damage behaviour of circular composite laminate under low velocity impact	Materials Today Proceedings
29	Gr7(16)	Prabina Kumar Patnaik, Srimant Kumar Mishra and Priyadarshi Tapas Ranjan Swain	Erosion wear behavior of needle-punched nonwoven fabric (NPNF) reinforced epoxy composites -An evaluation using Taguchi's design.	SCI
33	Gr7(17)	Rajesh Kumar Satankar, Hukum Chand Dewangan, Subrata Kumar Panda	Experimental and Simulation of the Frequency Responses of Luffa Fibre Reinforced Composite	Materials Today Proceedings
34	Gr7(18)	J. Pany, R. K. Barik, S. K. Sahoo, S. C. Patnaik, J. Majhi, A. B. Pattnaik	Mathematical modeling for the prediction of wear rate of Al-12.6Si/TiB <sub>2</sub> in situ composites	Materials Today Proceedings
36	Gr7(19)	Tarakeswar Barik, <u>Sourav kumar Jena</u> , Shivraj Gahir, Kamal Pal, Sanat Kumar Pattnaik	Optimize the process parameter setting for drilling of CFRP composites using grey relational analysis	SCI
38	Gr2(20)	Uttam Kumar Kar, J. Srinivas	Material modeling and analysis of Hydroxyapatite/Titanium FGM Plate under Thermo–Mechanical Loading Conditions	Materials Today Proceedings

Grx(y) : x → Group and y → Oral presentation no

Grx(Py) : x → Group and Py → poster presentation no

39	Gr7(21)	Pravin T, Somu. C, Rajavel, Subramanian, Prince Reynolda	Integrated Taguchi cum Grey Relational Experimental Analysis Technique (GREAT) for Optimization and Material Characterization of FSP surface composites on AA6061 Aluminium Alloys	Materials Today Proceedings
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Abstract No.	Poster Presentation No.	Authors	Topic Tittle	Journal
3	Gr7(P1)	Asit Behera*, S. K. Patel	Optimization of process parameters in lap joint laser welding using multiple response Taguchi analysis	Materials Today Proceedings
6	Gr7(P2)	Dillip Kumar Biswal, Bikash Ranjan Moharana, Tara Prasad Mohapatra	Bending Response Optimization of an ionic polymer-metal composite actuators using Orthogonal Array Method	Materials Today Proceedings
22	Gr7(P3)	VivekPrabhakar , Sonu Rajak, Ankit Sagar, S.K. Jha	Leanness Index Measurement using Hybrid AHP-Fuzzy and ISM approach in MSMEs	Materials Today Proceedings
30	Gr7(P4)	Swati Sambita Mohanty , Arvind Kumar	Optimization of Vat Brown R using Response Surface Methodology by a newly isolated bacterial strain Pseudomonas aeruginosa NCH	SCI
40	Gr7(P5)	Sudeep Kumar Singh, Shubham Prasad, Sangram Sourava Barik, Abhishek Dehury, Bubuna Pradhan	Application of Artificial Neural Network for sustainability oriented parameter selection in Arc Welding of Mild Steel	Materials Today Proceedings