

Selected Abstract for Oral/Poster

Group - 1 (Materials Processing)

	authors	Abstract title	Institute
1.	R. Samantray, K. Vivekanand, M. Karnan, M. Satish, S. C. Mishra	Saccharumspontaneum derived porous carbon with H ₃ PO ₄ activation for the application of flexible supercapacitors	NIT Rourkela, India
2.	Archana Chandra, Angesh Chandra, R. S. Dhundhel, Alok Bhatt	Synthesis and ion conduction mechanism of sodium ion conducting solid polymer electrolytes	BCET Chhatisgarh, India
3.	Abhishek Ghosh, Manojit Ghosh	Effect of heat treatment and severe plastic deformation on texture evolution of 7075 alloy	IEST Shivpur, India
4.	A. C. Sekhara Reddy, D. V. Paleswar, and T. Ravi	Effects of different parameters on deep drawing process: review	Osmania University, Hyderabad, India
5.	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	BIET Jhansi, India
6.	AmuthQadri and S. R. Meka	High nitrogen AISI 316L stainless steel produced by powder salt-bath nitriding and consolidation by spark plasma sintering	IIT Roorkee, India
7.	GauravAnand*, SantanuSardar, AshimGuha and Debdulal Das	WEDM process parameter optimization of Al-Al ₃ Fe in-situ composites	IEST Shivpur, India
8.	A. Malakar, V. Pancholi*, V. V Dabhade	Recrystallization and strengthening mechanism in friction stir processed Al powder compacts	IIT Roorkee, India
9.	Ankit Kumar Pandey, PremKumarVemula, Prashant P. Date	Analysis of blank holding force and annealing on defects and strain distribution during deep drawing	IIT Bombay, India
10.	ManishaPriyadarshini*, A. Behera, Chandan Kumar Biswas	Physical characterization of differently heat treated AISI P20 tool steel	NIT Rourkela, India
11.	ArkajitGhosh, Avinava Roy, AbhishekGhosh, ManojitGhosh	Texture evolution and effect of processing temperature during Plane Strain Compression of naturally aged EN AW6016 alloy	IEST Shivpur, India
12.	Basavaraj*, P. R. Sondar, S. R. Hegde	Necking Behavior of Cast Iron	NIT Surathkal, India
13.	SupriyaSoumyaranjan, B. B. Choudhury	An experimental investigation of effect of Na ₂ CO ₃ in ECM on WC and smart prediction of MRR	IGIT Sarang, India
14.	S. K.Sahoo*, B. Sarangi, S. C. Patnaik, J. Majhi, A. K. Biswal, B.P. Sahoo	Studies on In-Situ TiB ₂ Reinforced Al-Si Alloys Synthesized by Stir Casting Method	IGIT Sarang, India
15.	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	NIT Rourkela, India
16.	Debi Prasad Sahoo*, S. Murugan, SephaliMohanty	Cabin air conditioning unit for heavy trucks using waste heat of engine	NIT Rourkela, India
17.	D. K. Gorai I, K. D. Mehta, B. K. Singh, ShaikSaida	Effect of bentonite and limestone binders on the physical and mechanical properties of iron ore pellets	IIT Kharagpur, India
18.	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 ₂ O ₃ Hypereutectic Alloys	VSSUT, Burla, India
19.	TrilochanSatapathy*, J. Prasad, P. K. Panda, G. Mishra, A. Kumar Netam, P. Jain	Development, Characterization and Pharmacological Evaluation of Polymeric Nanoparticles Containing Bioactive Compounds	Utkal Univ., India
20.	Girish. M. Dhote, Anil. V. Kale	Determination of punch entry in piercing operation using different materials in sheet metal working	BACER, Nagpur, India
21.	G.Vignesh, DebabrataBarik, S.Aravind, P. Ragupathi	An Experimental study onmachining of ANSI 4340 steel using dimple textured and un-textured carbide cutting tools at the rack face	KAHE, Coimbatore, India
22.	Kamal Kumar Pradhan, Dr.Chhabi Ram Matawale	Heat Treatment Analysis of SS304 for Gas Turbine Application	RSU, Raipr, India
23.	KethavathKranthi Kumar, Adepu Kumar	Effect of post weld heat treatment on microstructure characteristics, mechanical and corrosion behaviorof similar and dissimilar friction stir welded AA5083-AA6061	NIT Warangal, India
24.	Kumar Sanjay Adabala, H. K. Naik, AbantiSahoo	Effect of promotor in fluidization for concentration of Heavy Mineral from Beach sands	NIT Rourkela, India
25.	Malaya Kumar Debta, Ravi Mishra, Manoj Masanta	Experimental Investigation on the Machining Performance of AZ91D Magnesium Alloy by Wire-Cut EDM	NIT Rourkela, India
26.	Malaya Prasad Behera*, MuvvalGopinath, Ashish Kumar Nath	A study on geometrical aspects in laser cladding by lateral powder injection technique	AUT, New zealand

27.	IpsaTripathy, GoutamBehera, Manila Mallik*	Effect of Alloying Elements on the Kinetics of Pearlitic Transformation in Microalloyed Steel	VSSUT, India
28.	M. P. Satpathy, A. Pattanaik, S. K. Mohapatra, S. Bikash Mishra	Ultrasonic Spot Welding of Al/Mg Alloys: A State-of-the-art Review	KIIT, India
29.	Binay Kumar Murmu, S. B. Prasad, S. Singh, M. Baruah	Experimental investigation of inconel welded joints formed by pulsed microplasma welding	NIT Jamshedpur, India
30.	A. Megalingam and S. HanumanthRamji	Effect of Kinematic Strain Hardening in Contact analysis of a Deformable Asperity with Substrate against a Deformable Flat	BAIT, India
31.	Emin Varghese, SagarGoswami, Satyam Kumar, SomadityaSen	Study of the effect of A-site replacement and temperature on rare-earth orthovanadates	IIT Indore, India
32.	SubhraRanjan Das, PratimaKumari Mishra, Suresh Chandra Patnaik	Preparation of AISI 304-WC composites using thermal plasma and their characterization	IMMT, India
33.	Manish Oraon, a*, SoumenMandal and Vinal Sharma	Investigation into the Process Parameter of Single Point Incremental Forming (SPIF)	BIT Meshra, India
34.	BiswajitSahu, SuryakantaSahoo, MukhtikantaPanigrahi*	Facile synthesis of indium hydroxide and indium oxide and their photocatalytic activity	NOU, Odisha, India
35.	Mukesh kumar, Raj Ballav, Ashish Das	Study the Effect of Tool Geometry on Morphology of Weld Joint for Dissimilar Materials by Friction Stir Welding – A State of Art	NIT Jamshedpur, india
36.	B. V. S. R. N. Santhosi, K. Ramji, N. B. R. Mohan Rao	Effect of graphene polymer nanocomposite fabrication process on microwave absorption in X-band	AUCE, Vizag
37.	Dulal Das, NijhumaKayal*	Influence of clay content on microstructure and flexural strength of in situ reaction bonded porous SiC ceramics	CSIR CGCRI, India
38.	NaniGopal Roy*, AbhishekGhosh, ParthaPratimDey, ManojitGhosh	Parametric optimization of WEDM for EN AW 7075 alloy processed by ECAP	IEST, Shibpur, India
39.	N. Rai, B. Samantaray, S. Gollapudi*	Designing thermallystablenanocrystalline Mg alloys	IIT BBS, India
40.	Pavankumar R Sondar*, Subray R. Hegde	Deep Cryogenic Treatment of Plain Carbon and Low Alloy Steels	NIT Suratkal, India
41.	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	BIT Patna, India
42.	Pratyasha Singh, Hemanta Kumar Dash, SandeepSamantaray	Effect of silica fume on engineering properties of expansive soil	CET BBS, India
43.	P Pavan Kumar, AshishVineet, Jay Krishan Dora, D. Khan, T K Kundu, S. Ghosh	Effect of charging pattern on the evolution of diffusion induced stress in a thin film electrode	IIT KGP, India
44.	Pramod Kumar, Rajeev Kumarand Amar NathSinha	Effect of current in pulsed TIG welding of 304L austenitic stainless steel on microstructure and mechanical properties	NIT Patna, India
45.	Pramod Kumar, Amar Nath Sinha	Comparative analysis of Pulsed Nd:YAG laser welding of 304L and 904L stainless steel	NIT Patna, India
46.	Prashant S. Jadhav, Lokesh R. Patil, Chinmaya P Mohanty	Conceptual Design and Analysis of modified Four stroke Four Revolution Engine	RIT, India
47.	Praveen Kumar, A Dasgupta, S K Gond,MShrujan, S Rath,BSarkar, N Pradhan	Investigation on the genesis of the shape deformation of plates in New Plate mill, Rourkela Steel Plant	SAIL, India
48.	Prince K Singh	Effect of shroud design on the hydrodynamic performance of steelmaking tundish system	IIT Kanpur, India
49.	P Nayak, A K Biswal, S K Sahoo	Processing and characterization of Fe-35Mn biodegradable metallic material	IGIT Sarang, India
50.	Rahul Chaurasiya, S. Srivastava and PoulamiMaji	Synthesis of Cr doped MoO3 by chemical precipitation method	NIT Jamshedpur, India
51.	Ranjita Swain, SunitaRoutray, PratapPatnaik and BabliVarsha	Application of bioleaching to recover value added product from partially laterisedkhondalite rocks	CV Raman, India
52.	Ravi TejaChopparapu, KartikRaju S, Dileep Kumar E, VigneshSycam, RavitejaDasari, G. Srivalli, Dr. M. BalaChennaiah	Biodegradable polymer filter made from fiber composites for addition of minerals and salts to water	VRSEC, India
53.	VikasRathore*, Divyesh Patel, ShitalButani, S K Nema	Effect of Process Parameters on Reactivity of Plasma Activated Water (PAW)	IPR India
54.	RakeshRosan, A. Behera	Effect of cooling rate on haz microstructure and CCT curve of 700 MC steel	NIT Rourkela, India
55.	Rudra Narayan Mohapatro, Ranjita Swain, SunitaRoutray, PrabhakarSethi and BiswaRanjanPatro	Separation Efficiency Optimisation of Toluene-Benzene Fraction using Binary Distillation Column	CV Raman, India
56.	Rajesh PrakashGuragain, H. B. Baniya, B. Sedhai, A. Shakya, N. Basnet, S. Dhungana, B. P. Pandey, D. P. Subedi	Effect of plasma treatment and plasma activated water on the seed germination of mustard and radish	Kathmandu University, Nepal

57.	Ravi Shankar Rai and VivekBajpai	Fabrication and morphological study of ZnO nanostructures grown via hydrothermal route on Woven carbon fiber fabric	ISM Dhanbad, India
58.	SangameshRajole*, K B Girish, Shivaram M. J, ShashBhushanArya	Processing, microstructure, and potentiodynamic polarization behavior of Al-xZrnanocomposite	NIT Surathkal, India
59.	Malaya Prasad Behera, Troy Dougherty, and SaratSingamneni	Selective laser melting of aluminium metal-matrix composites and the challenges	AUT, New zealand
60.	KusumMeena and SaratSingamneni	An elongated S-shaped auxetic mechanical meta-material structure	
61.	Anurag Gaur, Prof Suresh Chand*	Development of Aluminum-based brazing filler alloy using ball mill	PEC Punab, India
62.	Prakash Kumar, ShaileshDewangan* and Sanjay Kumar Jha	Analysis of surface integrity and dimensional accuracy in EDM	BIT Mesra, India
63.	S. Dhungana, R. P. Guragain, H. B. Baniya, G. K. Kshetri, D. P. Subedi	Application of Plasma Activated Water for the Enhancement of Seed Germination and Food Sterilization	Kathmandu Univ., Nepal
64.	ShaileshDewangan*, S. Deepak Kumar, S.K. Jha	Optimization of Micro-EDM drilling parameters of Ti-6Al-4V alloy	BIT Mesra, India
65.	S. P. Jena*, U. K. Mohanty	Anaerobic Digestion of Semi-dried Banana Leaves in Sewage Water under the Influence of Certain Additives	ITER, India
66.	Shilpi Das* and SusmitaMishra	Batch and column investigation of copper removal from aqueous media onto biochar prepared from Limoniaacidissima shell	NIT Rourkela, India
67.	A. Annu&C.Sivasankari*	Synthesis and characterization of ZrO ₂ nanoparticle by leaf extract bioreduction process for its biological studies	GCT Tamilnadu, India
68.	SheebaSonali, Itishree Jena, Sarat K Rout*	A comparative study of synthesis of ZnO nano particles: Hydrothermal and Modified Combustion routes	IMMT, India
69.	SoumenMandal, Subrata Kumar, Manish Oraon	Heat Transfer Analysis of Discontinuity in Deposited Layer	BIT Mesra, India
70.	S. Das, M. P. Satpathy*, B. C. Routara, S. K. Sahoo, S. K. Bhuyan	Ultrasonic Spot Welding of Al-Cu Sheets: A Comprehensive Study	KIIT, India
71.	SrikarPotnuru, Susanta K. Sahoo, Santosh K Sahoo, DheerajKGara	Analytical, Numerical and Experimental Analysis of Double Collar Collet Chuck Holder by Combined Extrusion and Forging Processes	NIT Rourkela, India
72.	S K Samal*B MishraS C Msishra	Quantification of Hydrous Oxide Minerals in Chromite Industry Waste Through Thermal Analysis	NIT Rourkela, India
73.	SunitaRoutray*, R. Mohanty, R. Swain, R. N. Mohapatra	Effect of magnetic separation on recovery of ilmenite from placer mineral sand	CV Raman, India
74.	Suresh kumarDadsena, Dr.Chhabi Ram Matawale	Review Paper on Coal Characteristics and Grading of Coal in India	SRSU, Raipur, India
75.	SuvamswayamMohapatra and SeshadevSahoo*	Investigation of heat transfer and solidification during twin roll strip casting	ITER, India
76.	S. Mallick, J. K. Sahoo, P. K. Mallik*, S. C.Patnaik	Processing and Characterization of Compression molded Multifunctional UHMWPE-CaTiO ₃ Composite	IGIT Sarang, India
77.	SoppaIndraneel, Rahul Sharma, SwastikPradhan* and ManishaPriyadarshini	Optimization of machinability criteria during dry machining of Ti-2 with micro-groove cutting tool using WASPAS approach	NIT Rourkela, India
78.	H. S. Tangade, S. N. Pusawale, S. S. Shirguppikar	Synthesis and Characterization of ZnO thin films deposited by chemical route	RIT Rajaramnagar, India
79.	VedPrakashRai, VibhavUpadhyay	Anode effect, Noise & Muck:- Existing problems of low amperage Hall-Heroult Cells	Hindalco, India
80.	VedPrakashRai, VibhavUpadhyay	A Case study on preheating, loading& initial performance of low amperage Hall-Heroult Cells	
81.	M. V. N. V Satyanarayana*, Adepu Kumar, Karan Chauhan	Production of bulk-area fine-grained structure in AA6061 alloy through submerged friction stir processing	NIT Warangal, India
82.	GortiJanardhan, Kaushal Kishore, GoutamMukhopadhyay, Krishna Dutta	Investigation of the fatigue behaviour of the resistance spot welded interstitial free steel and Nbmicroalloyed steel sheets	NIT Rourkela, India
83.	VipulShahare, R. Samantray, A. Sahu and Dr. S. C. Mishra	Processing activated carbon from Mimosa Pudica	NIT Rourkela.
84.	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	RSP, SAIL,

Group - 2 (Materials Characterization)

	authors	Abstract title	Institute Name, Region
1.	C. S. Karua, A. Sahoo	Synthesis and characterization of starch/chitosan composites	NIT Rourkela, India
2.	AkashAwale, A. Shrivastava, A. Chaudhari, M. Vashista, M.Z.K. Yusufzai	Micro-magnetic characterization of ground AISI D2 tool steel using hysteresis loop technique	IIT BHU, India
3.	Alok R. Mahananda, Dr. B. K. Pal	Characterisation of Indian coals and role of additives in retarding spontaneous combustion	NIT Rourkela, India
4.	Ankit Kumar Pandey, Prashant P. Date	Analysis of strain rate dependence of micro thin SS304 foil and fracture morphology of the fracture surface	IIT Bombay, India
5.	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	IIT Bombay, India
6.	ManishaPriyadarshini*, A. Behera, Chandan Kumar Biswas	Mechanical characterization of differently heat treated AISI P20 tool steel	NIT Rourkela, India
7.	Aparna Zagabathuni1*, S. Kanagaraj	Comparative analysis of mechanical properties of different topologies of the cantilever beam to mimic the function of the cochlea	IIT Guwahati, India
8.	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)	IGCAR, India
9.	Ayashkanta Jena, MinaketanBehera	Characterization of various cutting tools on the basis of machining Al	VSSUT, India
10.	Bappa Das*, A. Patra	Characterization and Effect of Nano-Cr ₂ O ₃ dispersed W-Zr alloys	NIT Rourkela, India
11.	Swadhin Kumar Patel, Narasingh Deep, Layatitdev Das	A Study on Mechanical and Tribological Behavior of Alumina filled AA5754 Composites using Taguchi Experimental Design	NIT Rourkela, India
12.	Subhajit Das, ProsantaBiswas, and Manas Kumar Mondal	Microstructure, Mechanical Properties and Fracture Behaviour of hypoeutectic Al-7.6Si Alloy with and without Zr Addition	NIT Durgapur, India
13.	Subramanya R Prabhu, ArunShettigar, Mervin A Herbert, Shrikantha S Rao	Influence of machine variables on the microstructure and mechanical properties of AA6061/TiO ₂ friction stir welds	NIT Suratkal, India
14.	Deepak Kumar M, P K Palani, V Karthik	Microstructure and Mechanical properties of Rotary Friction welded UNS S31803 Duplex Stainless Steel tubes	NIT Trichy, India
15.	DeepshreeAwale, A. R. Balla, M. M. Thawre, V. D. Vijayanand and G.V. Prasad Reddy	Miniaturised testing evaluation on various regions of creep tested dissimilar weld joints	VNIT Nagpur, India
16.	G. Bhattacharya, N. V. P. Chaudhary, S. S. Takri, R. R. Kumar, A. Venimadhav	Investigation of Thermionic Emission mechanism in Gallenol based Schottky diodes	IIT KGP, India
17.	Suresh Gudipudi, Selvaraj N., Kanmani S. S., Rao C. S. P.	Fabrication and characterization of AA6061-B ₄ C metal matrix composites by ultrasonic assisted stir casting method	NIT Warangal
18.	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	NIT Rourkela, India
19.	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	TATA Steel, India
20.	MdPerwejIqbal, 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	Univ. of Manchester, UK
21.	LakshmanSondhia*, A. K. Thawaitb, S. Sanyalc, S. Bhowmick	Stress and Deformation Analysis of Functionally Graded Varying Thickness Profile Orthotropic Rotating Disk	IIT Bombay, India
22.	JichilMajhi, SouravGanguly, A. Basu and A. K. Mondal	Effect of Bi addition on the microstructure and impression creep behaviour of AZ91 magnesium alloy	NIT Rourkela, India
23.	Dr.Kushal Singh*	Process-Structure-Property Correlation of (x)CoFe ₂ O ₄ +(1-x) BaTiO ₃ (x = 0.8, 0.5, 0.2) Magnetolectric Composites	AKU, Patna, India
24.	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 ₂ O ₃ Hypereutectic Alloys	
25.	Meril Shelly, Meril Mathew, Pradyumnan P P, Tania Francis	Dielectric and thermal characterization of HDPE-chitosan composites	St.Joseph's College, India
26.	Monisha Michael*, AparnaZagabathuni, 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	IIT KGP, India
27.	M. R. Kumar*, S. Mohan, and C. K. Behera	Drop Calorimetric Measurement of In-Zn Lead Free Solder System	IIT BHU, India

28.	SuryakantaSahoo, BiswajitSahuMuktikantaPanigrahi*	Synthesis and characterizations of amorphous tio ₂ nanoparticles	NOU, Odisha, India
29.	NehemTudu, MayuriBaruah and ShashiBhushan Prasad	Material Characterization Study of Laser Welded Lap Joint of Dissimilar Material, Aluminum Alloy and Steel	NIT Jamshedpur, India
30.	ArnimeshNayak, Shubham, Rajesh Kumar Prusty, Bankim Chandra Ray	Effect of nanofillers (SiO ₂ and Nanoclay) on thermal and flexural properties of glass fiber/epoxy composites	NIT Rourkela, India
31.	KanhuCharanNayak, Ankit Kumar Pandey, Prashant P. Date	Mechanical and physical characterization of powder metallurgy based aluminium metal matrix hybrid composite	IIT Bombay, India
32.	SaniyaAyaz, Neha, Aditya Dash, SomadityaSen	Effect of Al ³⁺ /Si ⁴⁺ codoping on the structural, optoelectronic and UV- sensing propertiesofZnO	IIT Indore, India
33.	GourahariBehera*, TanweerAlamRaza, AkankshyaPati, BismayaSahoo	Mechanical and Wear Behaviour of Friction Stir Processed AA6061T6/SiC-TiO ₂ Surface Hybrid Composite	VSSUT, India
34.	Preetish C. Dsilva, J. Banappanavar, S. Bhatand S. R. Hegde	Failure Analysis of Superheater Tube Bundle in a Chemical Plant	NIT Surathkal, India
35.	P. Dwivedi, A. K. Padap, N.Kumar	Microstructural and Wear Behavior of Dual Phase Steel processed by Multiaxial Compression	BIET Jhansi, India
36.	PankajChaupal, Deepak Kumar*	Damage Studies in Randomly Oriented Glass Fiber Reinforced Laminate under three-point bending test	NIT Jamshedpur, India
37.	S. K. Pradhan*, Vedant Kedia, P. Kour	Review on Different Materials and their characterization as Rocket Propellant	BIT Mesra, India
38.	B. K. Parrthipan, P. Narayanasamy, S. Senthil, P. Balasundar, T. Ramkumar	Studies on local zone wise mechanical properties and corrosion behaviour of SS 304 by laser welding	KCET, India
39.	Prashant Kumar Mishra, Aditya Dash, SomadityaSen*	Optical properties and defects study in Zn _{1-x} (CrGa) _x O (x≤0.0234)	IIT Indore, India
40.	NitishKaushik, Prakash Kumar, JoyjeetGhosh, Sanjay K Jha	Study of Mechanical Properties of Al ₂ O ₃ -B ₄ C-Gr Hybrid Nano Composite	BIT Mesra, India
41.	J K Rakshan Kumar, PreetishD'Silva, DebalinaBhattacharjee and Subray R Hegde	Creep Cavitation Damage in Industrial K-Type Thermocouples	NIT Surathkal, India
42.	Kumar ray, Kalyan Kumar Singh, MdTouhidAlam Ansari	Effect of small ply angle variation in tensile and compressive strength of woven GFRP composite: application of two parameter weibull distribution	ISM Dhanbad, India
43.	T. Raja gopala chary, Syed osman, P. Rajesh reddy, G. Raghavendra, P. Srikar, G. Dheerajkumar	Moisture absorption and soil particle test on bael shell epoxy composite	NIT Warangal, India
44.	SubhakantaNayak, Gaurab Kumar Ghosh, Ritesh Kumar Patel*	Comparative study on Mechanical Properties of LuffaCylindrica and Jute fibre Reinforced Epoxy with Graphene nanoparticles	IGIT Sarang, India
45.	Ritika Singh, TrilochanSatapathy, Jhakeshwar Prasad	Characterization and Evaluation of Acacia arabica drug containing Microparticles	CIP Raipur, India
46.	RakeshRosan, A. Behera	Effect of EN ratio on mechanical property of 600 MC steel	NIT Rourkela, India
47.	SangameshRajole*, Pavankumar R Sondar, Shivashankar Hiremath ³ , Ravishankar K. S.	Failure analysis of industrial discharge hopper pipe	NIT Surathkal, India
48.	SaikatMandal*, AyanPramanick, ShirsenduChakraborty, ParthaPratimDey	Phase determination of ZrB ₂ -B ₄ C Ceramic Composite material using XRD and Rietveld refinement analysis	IEST Shibpur, India
49.	Binayaka Mishra, Sambit Kumar Mohapatra*, RatiranjanaMoharana, KalipadaMaity	Severe Plastic Deformation of Aluminium Based Material: Numerical and Experimental Investigation	NIT Rourkela, India
50.	Sanjay Kumar Gupta*, Mithlesh Kumar Mahto, Avinash Ravi Raja, MeghanshuVashista, MohdZaheer Khan Yusufzai	Characterisation of welded plate through micro-magnetic technique	IIT BHU, India
51.	S K Basantia*, P K Prusty,MdAmeerulla, D Das, N Khutia	Micro-scale simulation of nanoindentation characteristics in dual-phase steel	IEST Shibpur, India
52.	Prof Suresh Chand*, Dr Rajiv Kumar and Prof Madhusudhan D	Influence of solution treatment and artificial aging on compressive deformation behavior of 6063 aluminum alloy at moderate strain rate	PEC Punjab, India

53.	ShivamBhardwaj , Prof Suresh Chand*	Development and characterization of brazing filler (Al,Cu,Si,Sc) for joining titanium and its alloy	
54.	Subrat Kumar Jena, S. Chakraverty	Stability Analysis of Nanobeam with Uncertain Structural Parameters	NIT Rourkela, India
55.	S. K. Hazra*, M. Michael, S. Ghosh, T. K. Nandi	Investigation on photo-thermal conversion properties of boron nitride-ethylene glycol nanofluidsbasedvolumetric absorption solar collector	IIT KGP, India
56.	Annie Stephy	Development, Characterization and Mechanical Properties of EVA Based Bio-composite	St. Joseph's College, India
57.	SudeshnaParida, P. Singh, P. Upadhyay, D. K. Sahu, S. Sarkar, A.Mallik*	Electro-crystallization of copper: An electrochemical impedance spectroscopy study	NIT Rourkela, India
58.	SurajitBasak, SurajitPatra, ProsantaBiswas, and Manas Kumar Mondal	Microstructure, Mechanical Properties and Fracture Behaviour of near Eutectic Al-12.6Si Alloy with and without Al-5Ti-1B Addition	NIT Durgapur, India
59.	SwagatDwibediandSwarup Bag	Assessment by destructive and non-destructive approach to characterize 90/10 cupronickel weldments	IIT Guwahati, India
60.	N. S. G. Saranya, B S SPhanisankar, N. Vasu Deva Rao	Experimental Investigation on Mechanical Behavior and Parameters of FDM Printed Carbon Fiber PLA & Carbon Fiber PET-G	BVC, AP, India
61.	SrikumarBiradar, SharnappaJoladarashi, S. M. Kulkarni	Investigation on mechanical behaviour of filament wound glass/epoxy composites subjected to water absorption and also tribological studies using taguchi method	NIT Surathkal, India
62.	Santosh Kumar Satpathy*, AdirajBehera,* and Ranjan Kumar Mohapatra	Study of dielectric, structural and electrical properties of ZnFe ₂ O ₄	GCE, Keonjhar, India
63.	A. N. Pradhan, C. K. Pradhan, A. Lenka, A. R Sahoo, V. Parida, Bikash R. Moharana,T. K. Bhattacharya, S. Basak	Process parameter effect on mechanical property for MIG brazed CPCu-SS dissimilar joint	CV Raman, India
64.	SwarnalataBehera, RakeshkumarBarik, MdBasiruddinSk, Rahul Mitra, DebalayChakrabarti	Effect of processing parameters for improving the impact toughness of high-strength pearlitic steel by controlling the cleavage cracking mechanisms	
65.	T. Dalai, U. Das, S. K. Pandey, T. K. Bhattacharya, S. Basak	Study of mechanical property forplasma arc welded stainless steel joint	
66.	T. Dash#, B. B. Palei, T. K. Rout, S. K. Biswal, S. K. Biswal	Silicon-Graphene Composite Synthesis: Microstructural, Sphetroscopic and Electrical Conductivity Characterizations	TATA Steel, India
67.	Divakar. B, Santosha K. Dwivedi, NiranjanSahoo, T. Rajesh Kumar Dora	Synthesis and Characterization of Al 5083 Metallic Foam using CaCO ₃ as Blowing Agent	IIT Guwahati, India
68.	Ravikiran U*, Elizabeth Zacharias, G Rajashekhar and P Sarah	Preparation, Characterization and AC conductivity studies on rare-earth substituted SBTi ceramics	ICFAI Hyderabad, India

Group - 3 (Advanced Materials)

	authors	Abstract title	Institute Name, Region
1.	Prashant Kumar Mishra, Aditya Dash, Neha, SomadityaSen*	Improved Photoresponse, Electrical Conductance and Enhancement Instructural, Vibrational and Optical Properties in zn1-X(Gafe)X/2o (X≤0≤0.0156)	IIT Indore, India
2.	I. Chakraborty, A. Chauhan, R. B. Nair, A. Babu, H. S. Arora, H. S. Grewal*	Tribologicalbehaviors of TIG synthesized NiTi alloy processed under different cooling conditions	SNU, India
3.	SaurabhAgarwal, Rajiv Kumar	Synthesis and Characterization of Nanocrystalline High Entropy Alloy Powder	PEC Chandigarh, India
4.	AyyavuShankarandGovindhanMaduraiveeran*	Nanostructured Transition Metal Sulphide Nanostructures As Electrocatlysts for Enhanced Oxygen Evolution Reaction	SRMIST, Tamilnadu, India
5.	B. Bharath Kumar, VenkataGirishKotnur	Effect of Substrate temperature onMechanical behaviour ofNbMoTaW thin films grown by DC magnetron sputtering	UOH, Hyderabad, India
6.	AyushPratap, PiyushKumarNilrudraMandal, B K Singh	Indentation Size Effect on the Mechanical Properties of Zirconia Toughened Alumina towards Application in Cutting Inserts	CMERI, India
7.	Daljeet Singh, Rajiv Kumar	Synthesis and Characterization of Nanocrystalline Ni-Cr-Al Alloy Powder	PEC Chandigarh, India
8.	DebasisNayak, ShubhamMajumdar, SudiptoGhosh and	Superior Electrochemical Performance of NaFe _{0.5} Mn _{0.5} O ₂ Thin Film Electrode Fabricated By Pulse	IIT Kharagpur, India

	VenimadhavAdyam	Laser Deposition	
9.	Deepak Kumar Gorai, Tarun Kumar Kundu	First principle study of lithium and phosphorus codoped graphitic carbon nitride as a nonlinear optical material	IIT Kharagpur, India
10.	MeenaketanSethi, D Krishna Bhat*	NiONanoplates for Energy Storage Application:Role of Electrolyte Concentration on the Energy Storage Property.	NIT Surathkal, India
11.	DevrajRanjan, AnirbanPatra	Estimation of the temperature-dependent non-Schmidcoefficients of Ni ₃ Al crystals and incorporation in a crystal plasticity model	IIT Bombay, India
12.	ArunPrakash S; Dhinesh S K, Senthil Kumar K L, Megalingam A	Fabrication and Characterization of PLA and ABS blend as 3D Printed Material	
13.	D. Pradhan, A. Gartia, S. P. Ghosh, K. K. Sahoo, N. Tripathy, G. Bose, J. P. Kar	Synthesis of MoS ₂ thin films by sulphonation of sputtered Mo thin films	NIT Rourkela, India
14.	DivyaCh, SuvarnaRaju.L, Singaravel. B	Solid lubrication with textured cutting inserts as alternative cutting fluid to mineral oil based cutting fluid	VITS, Hyderabad, India
15.	Dipti. R. Sahu	Synthesis of nanostructurematerials and use of developed materials for intelligent life environment	Namibia Univ. , Namibia
16.	Paramjit Singh, Harish Pungotra, Nirmal S. Kalsi	Cryogenic treatment of biomaterial (Ti-6Al-7Nb): Microstructure and Microhardness	BCET, Punjab, India
17.	Gaurab Kumar Ghosh, R. Kumar Patel, A. Saxena, S. Gangwar	Rheological properties analysis of MWCNT/Graphene Hybrid-Gear oil (SAE EP-90) nanolubricants	IGIT Sarang, India
18.	Gokul	Sulfur and Fluorine Co-Doped Graphene as High-Performance Anode Material for supercapacitor	
19.	Hukum C. Dewangan, Pankaj V. Katariya, Subrata K. Panda	Time-dependent deflection responses of layered composite structure with concentric/eccentric cut-out	NIT Rourkela, India
20.	ImanSengupta, Suddhapalli S SSharat Kumar, SudiptoChakraborty, Surjya K Pal	Characterization of Structural Evolution of Graphene Oxide to Reduced Graphene Oxide during Thermal Reduction	IIT KGP, India
21.	S. Janakiraman, RasmitaBiswal, SudiptoGhosh, A. Venimadhav	Fabrication of amorphous electroactivepolyvinylidene fluoride-co-hexafluoropropylenebasedgel polymer electrolyte for sodium ion batteries	IIT KGP, India
22.	B. K.Samal, J. K.Sahoo, S. Mallick, A. R. Pati, S. C. Patnaik P. K.Mallik	Mechanochemical Synthesis of CaTiO ₃ Powders: Microstructure and Surface morphology	IGIT Sarang, India
23.	J. K.Sahoo, S. Mallick, P. K. Mallik*, S.C.Patnaik	Sol-Gel Synthesis and Characterisation of pressureless sintered multifunctionalAl ₂ O ₃ -CaTiO ₃ composite	
24.	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 Bi ₅ Ti ₃ FeO ₁₅	BARC, India
25.	KK Guduru, Dr. G. Srinivasu	Effect of Post treatment on Tensile properties of Carbon reinforced PLA composite by 3D Printing	NIT Raipur, India
26.	K. Chandrakanta, R. Jena, P. Pal, Md. F. Abdullah, A. Sarangi, S. D. Kaushikand A. K. Singh	Effect of Co substitution on the structural, dielectric and optical properties of KBiFe ₂ O ₅	NIT Rourkela, India
27.	KoyalSumanSamantaray, Ruhul Amin and SomadityaSen	Structural, Dielectric and Optical Properties ofVand V-Fe Modified 0.94(Na _{0.5} Bi _{0.5} TiO ₃)-0.06(BaTiO ₃)	IIT Indore, India
28.	Krishna Kumar Maurya, AnupamRawat and GovindaJha	Smart Materials and Electro-Mechanical Impedance Technique: A Review	MNIT Allahbad, India
29.	M. Mandal, S. Subudhi, I. Alam, BVRS Subramanyam, S. Das, J. Raiguru and P. Mahanandia	Effect of Different Aqueous Electrolytes on Electrochemical Performance of Activated Carbon Anchored by Multiwalled Carbon Nanotubes for Supercapacitor Applications	NIT Rourkela, India
30.	MunuswamyMarimuthu, ShanmugamGanesan	Amplified Charge transfer behavior of Nio@Mgo-CoOnanosheets as an electrode material for high-performance, ultra-thin film, supercapacitor with superior cyclic performance.	SRMIST, India
31.	NabnitPanigrahi*, AyusmanNayak, RajeswariChaini	Morphology of the Alumina nano particles for the preparation of the Nano fluid and Effect of surfactants used on the dispersion stability	GIFT, India
32.	GokhaleNitish P., Prateek Kala, Varun Sharma	Effect of scan spacing on the effective layer height of the material (ER70S-6) deposited by TIG welding based additive manufacturing process.	IIT Roorkee, india
33.	Omkar Mypati*, U. C. Dampanaboyina, U. C. Dampanaboyina, S. Gongura, D. Mishra, S. Sahu, P. Mishra, S. K. Pal, P. Srirangam	Friction stir welding of aluminium and copper sheets for busbar application for hybrid electric vehicals	IIT KGP, India
34.	Preetish C. Dsilva and Subray R. Hegde	Annealing behaviour of Inconel 601 sheets	NIT Surathkal, India
35.	Prakash Kumar, Anil Kumar, C. Pandey, Shailesh K. Dewangan	Materials for energy harvesting with a nonlinear energy sink: A literature review	IIT Roorkee, India

36.	Prashant S. Jadhav , Chinmaya P Mohanty	Comparative evaluation of machining parameters of Nimonic C-263 super alloy during cryogenic machining and flood cooling approach	VIT, India
37.	PrashikMalhariRamekte, Subrata Kumar Panda and Bibhu Prasad Mahapatra	Static Deflection Analysis of 2D Functionally Graded Porous Structure	NIT Rourkela, India
38.	Priti Singh, S. Parida, P. Upadhyay, D. K. Sahu,R. Chandran, Snehanshu Pal, ArchanaMallik*	Photo-electrochemical behavior of CIS and CIGS solar thin films prepared through a novel CISE/Ga-Se two-step electrochemical stack approach	NIT Rourkela, India
39.	Luna Jena, DhaniSoren, KabitaNayak, PuspalataPattojoshi*	Biomass derived carbon materials for energy storage applications	KIIT BBS, India
40.	Sonali Das, InjamulAlam, JagatpatiRaiguru, BVRGS Subramanyam, PitamberMahanandia*	Beyond 4% photo conversion efficiency achieved by low temperature phase selective solvothermally synthesized CZTS quantum dot solar cell	NIT Rourkela, India
41.	G.Rajashekhhar,*T.Sreekanth, Ravikiran U, P. Sarah	Dielectric properties of Na and Pr Doped SrBi ₄ Ti ₄ O ₁₅	VCE Hyderabad, India
42.	Mr Raj Manik, Dr.AjitBehera	Thermal encoding using shape memory alloy	NIT Rourkela, India
43.	RasmitaBiswal*, VineetaShukla*,S. Janakiraman, SudiptoGhosh, VenimadhavAdyam	Novel dual core@shell Fe ₃ O ₄ @C@polypyrrole (PPy) composite for battery application	IIT KGP, India
44.	Rupali Singh*, S Janakiraman, AshutoshAgrawal, DebasisNayak, SudiptoGhoshand K. Biswas	A compatibility study of Mg(TFSI) ₂ /PC electrolyte with different separators for magnesium-ion battery application	IIT KGP, India
45.	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	NIT Rourkela, India
46.	A. SaiKanishka, E. Gopinath, K.SaiTharun, AjitBehara, Srikar P	Homogenized Mixture (Ni-Al-hBN) Plasma Sprayed on Mild Steel by Varying Spray Velocity	MRCET Hyderabad, India
47.	Yi Fan Lv and SaratSingamneni	Flame retardant polymeric materials for additive manufacturing	AUT, New zealand
48.	NavjeevanRana& Suresh chand*	Synthesis and Characterization of Light Weight High Entropy Alloy	PEC Punjab, India
49.	SushreeSefali Mishra, DebasisChaira, Swapan Kumar Karak	Effect of Si addition on phase evolution, microstructure and mechanical properties of Si ₃ N ₄ -Mo cermet fabricated by conventional powder metallurgy	NIT Rourkela, India
50.	N. Rai, B. Samantaray, S.Gollapudi*	Designing thermally stable nanocrystalline Mg alloys	IIT BBS, India
51.	Ch. Divya, L. Suvarnaraju, B.Singaravel	Experimental investigation on towards sustainable machining using cryogenically treated textured tools	VITS Hyderabad, India
52.	S. K. Pradhan, V. Kedia, A. Tarun, A. Kumar, Amarnath, D. Kumar, A. Kumar, P. Kour, L. Pradhan, P. Kumar, M. Kar	Structural and Electrical properties of Aluminum doped PVDF Nanocomposites	IIT Patna, India
53.	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	NIT Rourkela, India
54.	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 meta analytic review	VSSUT, India
55.	K. SowriBabua,b, P. Sanguinob, R. Schwarzb, S. AlvESC, V. HimamaheswaraRaod, J.N. Kirana	Orange photoluminescence from hydrothermally grown ZnO nanorods	Instituto Superior Técnico, Portugal
56.	T. Badapanda*, B. Parija, S. Chatarjee	Investigation of electromechanical and piezoelectric, elastic and ferroelectric properties of Ba(Zr _{0.05} Ti _{0.95})O ₃ ceramics	GAC Rourkela, India
57.	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	IIT Guwahati, India
58.	TapasendraAdhikary	Synthesis of Ni/Ti thin film by magnetron sputtering to study the effect of annealing time on microstructure and mechanical properties	
59.	Mr. Vamsi Krishna Chowduru	Performance based material selection of impeller used for Small gas turbine engines	JAIN Univ., India
60.	Mr.Vamsi Krishna Chowduru	Study on various powder alloys for additive manufacturing of Impellers used in small gas turbine engines	JAIN Univ., India
61.	VineyGhai, J. Bhinder, H. S. Bedi, A. Chauhan, P. K. Agnihotri	Catalytic Free Growth of Micro-Honeycomb Vertically Aligned Single-Walled Carbon Nanotubes for Energy Harvesting	IIT Ropar, India
62.	Vikash Kumar Jha* and S. N. Alam	Synthesis, Structural, Morphological and Electrical Properties of Multifunctional Bi _{0.98} R _{0.02} FeO ₃ (R = Nd ³⁺ , Sm ³⁺) Ceramics	NIT Rourkela, India
63.		The influence of β-phase stability in addition of Molybdenum in Ti and Ti-Zr alloys using elemental blending process	Spain

Group - 4 (Composite)

	authors	Abstract title	Institute Name, Region
1.	SwapnasaritKar, K. C. Biswal	Strengthening of shear deficient reinforced concrete T-beams using BFRP composites	NIT Rourkela, India
2.	Bipin Kumar Chaurasia, Deepak Kumar*, Mani Kant Paswan	Damage Interactionof Carbon Fibre Reinforced Polymer Laminates under In-Plane Loading	NIT Jamshedpur, India
3.	Soubhik De, A. O. Fulmali, S. Choudhur, P.N Shivangi, R. K. Prusty, B. C. Ray	Improvement in interfacial properties of CFRP composite by grafting of functionalized CNT on carbon fibers through electrophoretic deposition technique	NIT Rourkela, India
4.	Alok Bhatt*, Angesh Chandra, Archana Chandra	Synthesis and ion conduction of Ag ⁺ ion conducting glass-polymer composites	BCET Chhatisgarh, India
5.	Ajay D. Pingale*, Sachin U. Belgamwar, Jitendra S. Rathore	The influence of GNPs on the microstructure and mechanical properties of Cu-GNPs composites fabricated by electro-co-deposition and powder metallurgy process	BITS Pilani, India
6.	Akhya Kumar Behera, Amlan Das, ArchanaMallik*	Electrochemically functionalized graphene as an anticorrosion reinforcement in Cu matrix composite thin films	NIT Rourkela, India
7.	A. K. Mehar*, SreekanthKotni, S. S. Mahapatra and S. K. Patel	A Comparative Study on Drilling Performance of Hydroxyapatite-Polycarbonate and Hydroxyapatite-Polysulfone Composites Using Principal Component Analysis Methodologyfor Orthopaedic Applications	NIT Rourkela, India
8.	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	CV Raman, India
9.	AvadeshYadav*, 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	NIT Rourkela, India
10.	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	NIT Rourkela, India
11.	Bishnudugu	An Experimental investigation of the effects ofreinforcement of graphene fillers on mechanical properties of bidirectional glass/epoxy composite	
12.	Bishnu Prasad Nanda and AlokSatapathy	Thermal conduction and dielectric response of epoxy-boron nitride composites reinforced with shorthuman hair fiber	NIT Rourkela, India
13.	B. S. K. Gargeya, Shiv Kumar, Bankim C. Ray, Snehanshu Pal	Structural Evolution-Energetics Correlation during Shock wave Propagation in Epoxy-CNT Nano-composite	NIT Rourkela, India
14.	Angesh Chandra, Archana Chandra, Alok Bhatt	Ion Conduction and Solid State Battery Fabrication of a New K ⁺ Ion Conducting Nanocomposite Polymer Electrolytes	SSIPMT, Chhatisgarh, India
15.		Effect of moisture absorption on the mechanical properties of jute/glass hybrid composites	
16.	SesadebaPani, DhirenkumarBehera	Static analysis of graphene rein forced composite plate	IGIT Sarang, India
17.	Abjesh Prasad Rath, Swadhin Kumar Patel, Narasingh Deep	Synthesis and characterization of silicon carbide nanoparticulate reinforced metal matrix composite	DUT Durban, South-Africa
18.	Harsh Kumar Pandey, HimanshuAgrawal, Hukum Chand Dewangan, P. V. Katariya, S. K. Panda	Frequency Analysis of Hollow GalssCenosphere Filled Layered Composite Panel	NIT Rourkela, India
19.	Krutibash Ray, HemalataPatra, Anup Kumar Swain, SourabhMahapatra, SuryakantaRana, BibhudattaParida, Asit Kumar Sahu	Glass/Jute/Sisal Fiber Reinforced Hybrid Polypropylene Polymer Composites: Fabrication and Analysis of Mechanical and Water Absorption Properties	IGIT Sarang, India
20.	Mahesh, PrashantRawat, K. K. Singh and P. K. Singh	Comparison of Steel and Fiber-Reinforced Polymer Rebars for Mining Applications: A Numerical Approach	ISM Dhanbad, India
21.	KundanBharti, L. A. Kumaraswamidhas,R. R. Das	Detailed investigation of adhesively bonded tubular T-joint of laminated FRP composite tube under axial compressive load	ISM Dhanbad, India
22.	Kevin Amith Mathias, Shivashankar H, B S Manohar Shankar, S M Kulkarni	Influence of filler on dielectric properties of silicone rubber particulate composite material	NIT Surathkal, India
23.	MdTouhidAlam Ansari, Kalyan Kumar Singh, MdSikandarAzam	Fatigue Damage behaviour of woven GFRP composite laminates in on- and off-axis direction	ISM, India
24.	PuspaRanjanSwainandPadmanav Dash	Dynamic Analysis of Laminated Composite Plates Subjected to Blast Load	VSSUT, India
25.	Ajitesh dhal Niroj Kumar saho	Chitosan-Ag nano-composite modified glassy carbon electrode for detection of carbohydrate antigen 15-3 (CA15-3) biomarker in breast cancer serum sample	VIT, India

26.	Pradyut Kumar Swain, Kasinath Das Mohapatra, Pratyush Kumar Swain	Synthesis and Development of Al + SiC _p Nano Composites and Study of its Machining Processes	NMIET BBS, India
27.	Priyadarshi Das* and Shishir Kr. Sahu	Experimental and Numerical Study on Free Vibration of Cracked Woven Fiber Glass/Epoxy Composite Beams	NIT Rourkela, India
28.	R. K. Thakura*, K. K. Singha, J. Ramkumarb	Delamination analysis and hole quality of hybrid FRP composite using abrasive waterjet hole cutting	IIT Kanpur, India
29.	P S RaghavendraRaoa, Dr C B Mohanb	Study on Mechanical Performance of Silicon Nitride Reinforced AluminiumMetal Matrix Composites	SET JAIN, India
30.	Rinky Prasad and S K Sahu	Free Vibration of Fiber Metal Laminated Composite Plate with Cutout	NIT Rourkela, India
31.	RuchirShrivastava* and K. K. Singh	Mode-II Fracture Toughness; As a function of laminate fiber volume fraction	ISM Dhanbad, India
32.	N. Sathishkumar, G. G. Sozhamannan, V. S. K. Venkatachalapathy	Effect of nozzle parameter on surface roughness by abrasive jet machining of magnesium alloy/ nano Gr composites	SMVEC, India
33.	SatyaroopPatnaik, 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	NIT Rourkela, India
34.	Savita Gupta*, SrinivasuDasari, 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	NIT Rourkela, India
35.	Sudipta Chand, P. Chandrasekhar	Effect of sintering temperature on the erosion wear of Aluminium 6061-B ₄ C-BN metal matrix hybrid composites through powder metallurgy technique	KIIT, India
36.	SesadebaPani, Dhiren Kumar Behera	Active constrained layer damping treatment on graphene reinforced composite plate	IGIT Sarang, India
37.	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	NIT Surathkal, India
38.	Prabina Kumar Patnaik, Priyadarshi Tapas Ranjan Swain, Srimant Kumar Mishra, SandhyaraniBiswas	Composite material selection for structural applications based on AHP-MOORA approach	VSSUT, India
39.	S. Pradeep, Vikram Kumar S Jain, S. Muthukumar*	Effect of multiple passes on the microstructure and hardness of friction stir processed Al5083/Mo composites	NIT Trichy, India
40.	MdTouhidAlam Ansari*, Kalyan Kumar Singh , MdSikandarAzam	Effect of Fabric Areal Density on the Static Mechanical Properties of Symmetric and Asymmetric Woven GFRP Composite	ISM Dhanbad, India
41.	VeerannaGedigeri, Arunkumar D T, Raghavendrarao P S, G. Sreenivasulu, A. Pattanaik, Vinod*	Study on Mechanical properties of CissusQuadrangularis Stem Fiber Reinforced Isophthalic Polyester Composites	JAIN Univ., India
42.	AnkitChauhan, HarpreetS.Bedi, VineyGhai, JasdeepBhinder, Prabhat K. Agnihotri	Interfacial Properties of Carbon Fiber Reinforced Plastics: Effect of Loading Rate, Fiber Sizing and Polymer Type	IIT Ropar, India
43.	Sushantsaurabh, SrinivasuDesari, Rajesh Kumar Prusty and Bankim Chandra Ray	Model-1 interlaminar fracture toughness improvement of the glass fiber reinforced epoxy composite by using multiscale composite approach	NIT Rourkela, India
44.	Sunny Dabby, K. K. Singh, RuchirShrivastava*	Effect of stress concentration on the flexural modulus and strength of neat glass fiber-reinforced polymer/epoxy symmetric laminates	ISM Dhanbad, India
45.	Kishore Kumar Mahato*, Dinesh Kumar Rathore, Krishna Dutta, Rajesh Kumar Prustyand Bankim Chandra Ray	Effect of severely thermal shocked nano-Al ₂ O ₃ filled glass fiber reinforced polymeric composites: An assessment on tensile, thermal and morphological behavior	NIT Rourkela, India
46.	Sudeshna Dhar, Asutosh Jena, S.C. Patnaik, S.K. Sahoo, Omkar Tripathy	A study on microstructure and mechanical properties of aluminium matrix composites with micro-sized iron fillers produced by powder metallurgy route	IGIT Sarang,
47.	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	NIT, Raipur,
48.	S.K. Kashyap, S. Jana, R. Mitra	Effect of Ce addition on densification and properties of spark-plasma sintered ZrB ₂ -SiC ultra-high temperature ceramic composites	IIT Kgp

Group - 5 (Surface Degradation & Modification)

	authors	Abstract title	Institute Name, Region
1.	AbhishekBabu, R.B Nair, H. S. Arora, H. S. Grewal*	Wear behavior of Microwave-annealed and Cryogenically Treated Thermal Spray Coatings: AComparative Evaluation	SNU, India
2.	Amrit Jena, Shubham, Rajesh Kumar Prusty, Bankim Chandra Ray	Tribological And Thermo-Mechanical Behaviour of Nanoparticles (Graphene and SiO ₂) Reinforced E-Glass Fibre Epoxy Composite	NIT Rourkela, India
3.	Amlan Das, Akhya Kumar Behera, ArchanaMallik*	An exploration on anti-corrosion performance of electrochemically synthesized graphene coating on commercially pure copper	NIT Rourkela, India
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	NIT Rourkela, India
5.	Anjani Kumar, Anil Kumar Das	Wear resistance of Cobalt-based ceramic coating on stainless steel by TIG coating process	NIT Patna, India
6.	BikramBehera, PriyabrataMallick, Biswajit Swain, AjitBehera	Plasma sprayed (Al+Ni+(h)BN) homogenized mixture for improvement of abradable resistance on aero-engine inner casing surface	NIT Rourkela, India
7.	S. Narayanan, G. G. Sozhamannan, K. Velmurugan, V. S. K. Venkatachalapathy	Effect of corrosion and hardness behavior on AL/GRO composites using ultrasonic gravitational stir casting method	RGEC Puducherry, India
8.	*Priyabrata Das, Shalini. D, AnandPrakash, Seshu K S, S Gollapudi	Effect of additives on corrosion performance of electroplated nickel coating prepared from modified watts bath	IIT Madras, India
9.	S. Deepak Kumar, ShaileshDewangan,S.K. Jha,A.Manda	Optimization of Dry Sliding Wear parameters of Thixoformed A356-5TiB ₂ in-situ composites using RSM	IIT BBS, India
10.	B. SwainI*, S. Patel, M. Priyadarshini, S. S Mohapatra, S. Samal, S. BhuyanI, A. Behera	Bonding strength analysis of plasma sprayed NiTi coating	NIT Rourkela, India
11.	Uttam Kumar Murmu, ManojitGhosh, MonojitDutta	Microstructure and corrosion behavior of sputter deposited pure Al coating on 4130 chromalloy steel	IIST Shibpur, India
12.	H. B. Baniya *, R. P. GuragainG. P. Panta* S. Dhungana, B. Baniya, G. Qin and D. P. Subedi	Diagnostics of Atmospheric Pressure Plasma Jet (APPJ) and its Application in the Surface Modification of Polypropylene (PP)	Kathmandu University, Nepal
13.	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	NIT Rourkela, India
14.	Kamal Kumar Pradhan, Dr.Chhabi Ram Matawale	Heat Treatment Analysis of SS304 for Gas Turbine Application	RSU, Raipr, India
15.	Murlidhar Patel, Sushanta Kumar Sahu and Mukesh Kumar Singh	Abrasive Wear Behavior of SiC Particulate Reinforced AA5052 Metal Matrix Composite	NIST, India
16.	M. D. Joshi, V. Kumar, A. K. Litoria, D. Singh, S. S. Hosmani	Effect of Surface Mechanical Attrition Treatment on TribologicalBehavior of AISI 2205 Steel	IIT Indore, India
17.	P. Naik*, S. Pradhan, S. K. Acharya, P. Sahoo	TribologicalBehavior of Orange Peel (bio-waste) Epoxy Composite	Jadavpur Univ. , India
18.	Aluru Praveen Sekhar, AshimBikashMandal, ArijitSammadar and Debdulal Das	Influence of ageing on the intergranular corrosion of AA6063 alloy	IIST Shibpur, India
19.	P Pathak, G Das and S K Jha	High Temperature Tribology in Steel Rolling: Challenges and Opportunities	SAIL, India
20.	K. Ram Mohan Rao, Corinne Nouveau, K. Trinadh	Plasma nitriding of tool steel for the enhancement of corrosion resistance	LaboMaP, France
21.	K. V. SandeepMoudgalya*, H. Suresh Hebbar, M. R. Rahman	Mechanical Properties and Corrosion Behavior of BioglassReinforcedMagnesium Matrix Composite Processed by Powder Metallurgy Route	NIT Surathkal, India
22.	Santosh Kumar*, K. K. Singh	Tribo-performance and mechanical properties of glass fabric/epoxy composite with inclusion of graphenenanoplatelets: A comparative assessment	ISM Dhanbad, India
23.	Sikta Panda, Chandan Kumar Biswas, Subhankar Paul	Coating of Ti-6Al-4V Alloy with Chitosan and BSAfor Enhanced Biocompatibility	NIT Rourkela, India
24.	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	NIT Rourkela, India
25.	Sunny Kumar, Dharmendra Patel, Tushar Banerjee	TribologicalCharacteristics of Electroless Multilayer Coating: A Review	NIT Jamshedpur, India

26.	S. K. Chourasiya, G. Gautam, D. Singh	Microstructural and Tribological Behaviour of Cryorolled Spray Formed Al Alloy	IIT Roorkee, India
27.	Swarnima Singh, Krishna Kant Pandey, Anup Kumar Keshri	Effect of plasma power on corrosion behaviour of plasma sprayed hydroxyapatite coatings	IIT Patna, India
28.	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	NIT Surathkal, India
29.	Sohan Singh Rajpurohit*, Dr. Rabindra Kumar Sinha, Prof. Phalguni Sen	Influence of Cerchar Hardness Index of hard granite on wear of diamond tools	ISM Dhanbad, India
30.	Tanmoy Das, Abhishek Sharma and Jinu Paul	Effect of graphene coating on the microstructure and mechanical properties of TIG surface melted AISI 316L steel	IIT KGP, India
31.	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	NIT Rourkela, India
32.	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 ₂ and 95% N ₂ to increase hardness and corrosion resistance properties	UTP, Malaysia
33.	Niraj Kumar, Santanu Sardar and Debdula Das	Influence of abrasive size on wear performance of dual phase steels	IEST Shibpur, India
34.	A. Jayapragashand, Dr. G. G. Solamannan	Comparison study on dry and wet sliding wear behaviour of aluminium/nano composites	BCET, India
35.	Kamal B. Yadav and Renu Kumari	Microstructure and Corrosion Behavior of Alkaline Treated Mg Alloy	NIT Jamshedpur, India
36.	S. Sarkar, A. Mukherjee, R. Nandi, A. K. Srivastava, R. K. Baranwal, J. De, G. Majumdar	Parametric Optimization of Corrosion Rate of Electroless Ni-P Coating Using Box-Behnken Design	Jadavpur University, Kolkata

Group - 6 (Waste Utilization)

	authors	Abstract title	Institute Name, Region
1.	K. Abhishek, V. Kumar, S. Sudershan, S. K. Dhua	Utilization of Steel Plant Wastes	SAIL, India
2.	C. Daniel Adwiteeya, B. N. V. S. G. Gupta K, M. Siva Suryanarayana	Recycling of Plastic Waste into high Compressive strength bearing Blocks	NIT Rourkela, India
3.	Amit Kumar Yadav, Prananjay Ekka and Sunipa Bhattacharyya	Recycling of Industrial Waste to Fabricate Environment Friendly Glass-Ceramic Brick	NIT Rourkela, India
4.	Anupama Sahu, S. C. Mishra	Processing and properties of Calotropis Gigantea bio-char : A wasteland weed	NIT Rourkela, India
5.	A Pattanaik, M Mukharjee, M P Satpathy, S B Mishra, Adarsha H, A Behera	Electrical Properties of Fly Ash Reinforced Epoxy Resin Composite	CMERI, India
6.	D. K. Sahoo, S. Sarkar, A. Behera	Utilization of Alternate Materials for OPC Clinker Manufacturing	NIT Rourkela, India
7.	Durga P. Subudhi, Manas R. Das	Assessing the cementitious potential of KOH activated fly ash through microstructural, thermal and mechanical analysis	ITER, India
8.	Indu Susan Raj, Dr. Elson John	Experimental study on the possibility of using quarry dust in foam concrete	
9.	J. Mallick, S. Soumya, P. K. Pani	Strength and Durability Study Of Concrete Using Precious Slag Balls	PMEC, BRM, India
10.	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	VSSUT, Burla
11.	Pallishree Prusti, Kashinath Barik	Additives Effects in Pelletization of High Grade Hematite Fines	IMMT, India
12.	Nivedita Patel and Krushna Prasad Shadangi*	Characterization of Waste Engine Oil (WEO) Pyrolytic oil and Diesel blended oil: Fuel properties and Composition analysis	VSSUT, India
13.	Abhilash Purohit*, Alok Satapathy and Priyadarshi Tapas Ranjan Swain	Analysis of Sliding Wear Behavior of LD Sludge Filled Epoxy Composites using Surface Response Methodology	NIT Rourkela, India
14.	Nilima Baisakhi, Biswajit Choudhury, Durga Prasad Subudhi	Development of recycled aggregate-based concrete with crusher dust	GEC BBS, India
15.	Gautam Behera, Sristy Hembram, Damayanti Swain, Manila Mallik	Composite Preparation by the Use of LD Slag and Waste Glass	VSSUT, India
16.	Pritam Kr. Pati and Shishir Kr. Sahu	Innovative utilization of fly ash in concrete tiles for sustainable construction	NIT Rourkela, India
17.	B S S Phanisankar, N. Vasu Deva Rao, J. E. Manikanta	Conversion of waste plastic to fuel products	BVCEC, AP, India

18.	S.Ravindran, G. G. Sozhamannan	Study on mechanical properties of banana- jute reinforced polymer matrix composites	SMVEC, India
19.	P Sai Kumar Reddy, Y Rajesh Kumar, P Saikiran G. Raghavendra, Srikar P	Environmental Effect on Erosion Wear of Eggshell Particulate Epoxy Composite	NIT Warangal, India
20.	GouravSamal	Investigation of corrosion protection performance and thermal insulation performance of atmospheric plasma sprayed L.D. Sludge coatings	NIT Rourkela, India
21.	Satish Chandra Bhuyan*, Anup Kumar Swain, AbantiSahoo, Subrat Kumar Bhuyan	Nutrient (sulphate) removal from wastewater in Inverse Fluidized Bed Biofilm Reactor	NIT Rourkela, India
22.	Shubham Mishra, Bibhash Kumar Dutta, Ajit Kumar senapati	Comparative investigation on mechanical and tribologicalproperty of LM6 and AL6061 alloy reinforced with fly ash	GIET, India
23.	Santosh Kumar Tripathy , Ajit Kumar Senapati	A Review on Turning Analysis of industrial waste reinforced Aluminum Metal Matrix composite	GIET Gunupur, India
24.	*SnehasishPradhan, J. Majhi , N. Kumar, T. K. Pujhari, S. Pattnaik , S. A. Mustak, A. K. Senapati	A Comparative Investigation On Corrosion Properties Of MMC reinforced With Waste Material	GIET, India
25.	Swetapadma Panda*, PradiP Sarkar	Leaching Behaviour of Copper Slag Aggregate Cement-Mortar by Atomic Absorption Spectroscopy (AAS)	NIT Rourkela, India
26.	S. K. Singh, Shaswat Kumar Das*, U. BeheraJ. Mishra, S. M. Mustakim, S. R. Mallick, T. Sahu	Characterization and Analysis of Fly Ash Generated from NTPC-TTPS, Talcher, India: A Case Study	VSSUT, India
27.	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	
28.	J. Mishra, S. Kumar Das*, R. S. Krishna, B. Nanda, S. K. Patro, S. M. Mustakim	Synthesis and Characterization of a new class of Geopolymer binder utilizing Ferrochrome waste for sustainable industrial waste management	
29.	T M Dandapat, SusilSahoo, S R Sarangi, ArunPandey	Recycling Natural Wealth through Resource Recovery in a Sponge Iron Plant	TATA Steel, India
30.	Vivek Kumar Singh*, DebarpitaGhosal	Kinetic and Isotherm study of activated carbon prepared from pomegranate peels for effective removal of Safranin-O from aqueous solution	CV Raman, India

Group - 7 (Computational Materials)

	authors	Abstract title	Institute Name, Region
1.	M. AkhilYuvaraj, G. Satish	Comparative study of different pipe geometries using CFD	PEC, AP, India
2.	ManishaPriyadarshini*, A. Behera, Biswajit Swain	Multi-objective optimization of EDM process for Titanium alloy	NIT Rourkela, India
3.	AsitBehera*, S. K. Patel	Optimization of process parameters in lap joint laser welding using multiple response Taguchi analysis	NIT Rourkela, India
4.	Biplab B. Mandal, Dr. B. Oraon, Dr. G. Majumdar	EIS study of API 5L X60 pipeline steel in laboratory simulated CO ₂ environment	JU Kolkata, India
5.	Dheeraj K Gara, SrikarPotnuru, A. Behera	Determination of third order elastic constants from Morse potential for a Nitinol shape memory alloy	NIT Rourkela, India
6.	Dillip Kumar Biswal, BikashRanjanMoharana, Tara Prasad Mohapatra	Bending Response Optimization of an ionic polymer-metal composite actuators using Orthogonal Array Method	CV Raman, India
7.	R. K. Thakur, K. K. Singh, Karunesh Kumar	Investigation of Milling Characteristics in Graphene-Embedded Epoxy/Carbon Fibre Reinforced Composite Using Grey Relational Analysis	ISM Dhanbad, India
8.	O. S. Vishnu, MahendraGattu	Cohesive Zone Modeling of Thin Aluminium Sheets	
9.	GhulamRasulNazami and SeshadevSahoo	Evolution of temperature field and melt pool geometry for laser additive manufacturing process: Mathematical modeling	ITER, India
10.	J. K. Dora*, N. Yedla, S. Ghosh	The role of density reductionin a lithiatedamorphous silicon: Molecular dynamics and ab-initio studies	IIT KGP, India
11.	KanhuCharanNayak, Prashant P Date	Mathematical model for weight fraction of reinforcement addition in a metal matrix through powder metallurgy route	IIT Bombay, India
12.	Lokesh R. Patil, Prashant S. Jadhav, ShaileshShirguppikar	Parametric Optimizationof Fused Deposition Modeling type 3D Printer with Particle Swarm Optimization technique	Shivaji Univ. India
13.	S Signum and Manas R. Das	Finite Element Analysis of a Shell Structure Mimicking Turtle Shell Using ANSYS	ITER, India
14.	Narasingh Deep, Punyapriya Mishra, Layatitdev Das	Application of adaptive neuro-fuzzy inference system (ANFIS) for predicting dielectric characteristics of	VSSUT, India

		CNT/PMMA nanocomposites	
15.	PokulaNarendraBabu*, 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	NIT Rourkela, India
16.	S k. NagoorBasha, KedarMallikMantrala*, K L Narayana	Prediction of Corrosion Properties of LENS TM Deposited Co-Cr-Mo Alloy Using Artificial Neural Networks	UTP, Malaysia
17.	Pawan Kumar and Joy PrakashMisra	Fuzzy modeling of machining parameters during wet turning of AISI D3 tool steel	NIT Kurushetra, India
18.			
19.	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	BIT Patna, India
20.	*Praveen Kumar Loharkar, Asha Ingle &Himanshu Singh	Prediction of temperature profile during susceptor-assisted microwave heating of Aluminium using Parametric Numerical Simulation	VNIT, Nagpur, India
21.	Prashant Kumar Mishra, Aditya Dash, SomadityaSen*	Optical properties and defects study in Zn _{1-x} (CrGa) _x O (x≤0≤0.0234)	IIT Indore, India
22.	VivekPrabhakar*, SonuRajak, AnkitSagar, S. K. Jha	Leanness Index Measurement using Hybrid AHP-Fuzzy and ISM approach in MSMEs	BIT Mesra, India
23.	Pradip Kumar, Dr.Chhabi Ram Matawale	Modeling and analysis of composite leaf spring for TATA HYVA	SRSU, India
24.	Rahul Bhandari, ManabMallik, 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	NIT Durgapur, India
25.	ManasRanjan Panda, H. K. Narang, S.S. Mahapatra, Rajendra Kumar Praharaj	Numerical and experimental investigation on shape of sonotrode during ultrasonic welding	IIT KGP, India
26.	PritamGhosh* and K. Ramajeyathilagam	Numerical investigation ondamage behaviour of circular composite laminate under low velocity impact	HITS Chennai, India
27.	Mr.Rohit A. Magdum, Dr. C. Pandivelan	Predication of forming forces in single point incremental forming by using finite element simulations and validation of it with experimental results	VIT, India
28.	Shiny Lohani, Shubham, Rajesh Kumar Prusty, Bankim Chandra Ray	Numerical Study of Multi-site Ballistic Impact Response of Kevlar/Epoxy Composite Laminate by Projectiles with Different Nose Shapes	NIT Rourkela, India
29.	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.	VSSUT, India
30.	Swati SambitaMohanty*, Arvind Kumar	Optimization of Vat Brown R using Response Surface Methodology by a newly isolated bacterial strain Pseudomonas aeruginosa NCH	NIT Rourkela, India
31.	Sunny Kumar, Dharmendra Patel, Tushar Banerjee	Multi objective optimization of response parametersfor EN- 31 steel in CNC milling using RSM and GRA	NIT Jamshedpur, India
32.	JasdeepBhinder, VineyGhai, H. S. Bedi, A. Chauhan, P. K. Agnihotri	Fabrication of functionally graded polyurethane foams for energy absorption applications	IIT Ropar, India
33.	Rajesh Kumar Satankar, Hukum Chand Dewangan, Subrata Kumar Panda	Experimental and Simulation of the Frequency Responses of Luffa Fibre Reinforced Composite	NIT Rourkela.
34.	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 ₂ in situ composites	IIT Bombay, India
35.	Priyabrat Pradhan, AlokSatapathy	Analysis of Dry-Sliding Wear Behavior of Polyester Filled with Walnut Shell Powder using Response Surface Method and Neural Networks	NIT Rourkela, India
36.		Optimize the process parameter setting for drilling of CFRP composites using grey relational analysis	VSSUT Burla