

## List of MATPR accepted papers

### Dear Author

Thank you for submitting your work to ICARAE2021. Please find the list of papers that are fully and provisionally accepted. Please note that the unregistered papers will not be included on the final program and as such will be removed from the Elsevier system. Please also note that all registered papers need to be presented at the conference.

No.	Paper ID.	Paper Title	Authors	Affiliation	Reg/Unreg
1	MATPR-D-21-09879	Comparing the Abrasion Resistance of Conventional Concrete and Geopolymer Samples	<u>Shams M. Cheyad</u> , Ali N. Hilo, Thaar S. Al-Gasham	Civil Engineering Department, University of Wasit, Iraq.	Registered
2	MATPR-D-21-09766R1	Optimization of process parameters of friction stir welded joints of dissimilar aluminum alloys AA3003 and AA6061 by RSM	A. Nait Salah , <u>Husain Mehdi</u> , Arshad Mehmood , Abdul Wahab Hashmi, Chandrabhanu Malla , Ravi Kumar	Department of Mechanical Engineering, Delhi Technological University, New Delhi, India	Registered
3	MATPR-D-21-09418R1	Low Cost Electrocoagulation Process for Treatment of Contaminated Water using Aluminium Electrodes from Recycled Cans	<u>N. Idusuyi</u> , O. O. Ajide , R. Abu , O.A Okewole and O. O. Ibiyemi	Mechanical Engineering Department, University of Ibadan, 200284, Nigeria	Registered
4	MATPR-D-21-09417R1	Combined Effect of Variable-Viscosity and Surface Roughness on the Squeeze Film Characteristics of Infinitely Wide Rectangular Plate with Couple Stress Fluid, Velocity-Slip and Ferrofluid Lubricant	Tyrone D. Dassa , <u>Sreedhara R. Gunakalab</u> , Donna M.G. Comissiongc	Department of Mathematics and Statistics, University of the West Indies, St. Augustine, Trinidad and Tobago	Registered
5	MATPR-D-21-09415R1	Microstructure, 3-chemical moduli (3CM) and micro-spectral analyses of HSDA-treated black cotton soil for sustainable subgrade construction	<u>Kennedy C. ONYELOWE</u> , Thomps on USUNGEDO	Department of Civil and Mechanical Engineering, Kampala International University, Kampala, Uganda.	Registered
6	MATPR-D-21-09414R1	Concept of 5D Printing Technology and its Applicability in the Healthcare	<u>Saba Anas</u> , Mohd Yunus Khan Mohammad Rafey , Kashif Faheem	Department of Mechanical Engineering, Zakir Husain College of	Registered

		Industry		Engineering and Technology (ZHCET), Aligarh Muslim University, Aligarh-202002, India	
7	MATPR-D-21-09116R1	Gain Enrichment of Perturbed Hexagonal Patch Antenna for X-Band Application	<u>Ribhu Abhusan Pandaa</u> , Pragyranrani Pani, Barsha Choudhury, Madugula Arun Kumar	Department of Electronics and Communication Engineering, GIET University, Gunupur, Odisha, India	Registered
8	MATPR-D-21-09115R1	Non-Thermal Atmospheric Pressure Plasma: An Alternative Method to Enhance the Seed Quality in Long Bean-KPN (Vigna unguiculate L.) Seeds	<u>Nayanathara Hendeniya</u> , Thisara Sandanuwana, Dinesh Attygalle, D A S Amarasinghe, Sampath Weragoda, Bandula Ranaweera, Kamani Ratnayake, Malki Lalanka	Department of Materials Science and Engineering, University of Moratuwa, Sri Lanka	Registered
9	MATPR-D-21-08970R1	Experimental investigation of self-damping characteristics of the ACSR Beresford and TERN transmission line conductors using log-decrement and quality factor methods	Sityoshwana Malwande, Tiyamike Ngonda, <u>Modify Kaunda</u>	Cape Peninsula University of Technology, Cape Town 7535, South Africa	Registered
10	MATPR-D-21-08660R1	Performance evaluation of Cerium Oxide/water nanofluid based FPSC: An experimental analysis	Rahul Kumar, Sujit Kumar Verma, Mahendra Singh	Department of Mechanical Engineering GLA University, Mathura, India	Registered
11	MATPR-D-21-08642R1	Nano Aluminium Oxide Geopolymer Concrete: An Experimental Study	<u>Belarmin Xavier CS</u> , Abdul Rahim A	Research Scholar of Civil Engineering, VIT – University, Vellore, TamilNadu, 632014, India	Registered
12	MATPR-D-21-08607R1	Structural, thermal, electrical and dielectric properties of La <sub>0.7</sub> Sr <sub>0.3</sub> FexMn <sub>1-x</sub> O <sub>3</sub> (x= 0.10 and 0.40) cathode for solid oxide fuel cell	<u>Surinder Paul</u> , Manokamna, Arun Kumar, Shubhpreet Kaur, Anupinder Singh, Arvind Kumar	Department of Physics, Arni University, Indora-176402, (H. P) India	Registered

13	MATPR-D-21-08585R1	Implementation of Robust Taguchi Approach on Mechanical and Metallurgical Characterization of Al7075 (T6)-SiC-MoS2 based Hybrid Metal Matrix Composite	<u>Nikhilesh Singh</u> , R.M. Belokar, R.S.Walia	Production & Industrial Engineering Department, Punjab Engineering College (Deemed to be University), Chandigarh-160012, India	Registered
14	MATPR-D-21-08450R1	Effect of adding Cr, Ni and Mo on quench and temper microstructure and mechanical properties of a Si-Mn spring steel	<u>Richard Nkhoma</u> , Kofi A. Annan, Charles Siyasiya	Malawi University of Science and Technology, Engineering Department, Malawi	Registered
15	MATPR-D-21-09764R1	Optimization of Tensile Strength for Heat Treated Micro-alloyed Steel Weldment	S.A. Adzor, C. C. Nwaeju, <u>F. O. Edoziuno</u>	Department of Metallurgical Engineering Technology, Delta State Polytechnic, Ogwashi-uku, Delta State, Nigeria.	Registered
16	MATPR-D-21-09584R1	Tool Wear in the Single Point Incremental Forming	<u>Manish Oraon</u>	Department of production and Industrial Engineering, Birla Institute of Technology, Mesra, 835215, India	Registered
17	MATPR-D-21-09482R1	Influence of Sodium Hydroxide (NaOH) Molarity on Fresh Properties of Self-Compacting Slag-based Geopolymer Concrete Containing Recycled Aggregate	<u>Khaleel H. Younis</u>	Department of Road Construction, Erbil Technology College, Erbil Polytechnic University, Erbil, Iraq  Civil Engineering Department, College of Engineering, Tishk International University, Erbil, Iraq	Registered
18	MATPR-D-21-09416R1	Hybrid Genetic Model with ANOVA for Predicting Breast Neoplasm using METABRIC Gene Data	Bharti Thakur, <u>Gaurav Gupta</u> , Nagesh Kumar	Yogananda School of AI, Computing and Data Science, Shoolini University, Solan, Himachal Pradesh, India	Registered
19	MATPR-D-21-09307R1	Pressure Control of Fixed Displacement Variable Speed Radial	Lokesh Kumar, <u>Nimai Pada Mandal</u>	Department of Mechanical Engineering, National Institute of	Registered

		Piston Pump using PID Controller		Technology Patna, Patna, Bihar, India - 800005	
20	MATPR-D-21-09198R1	Digitisation of contemporary fabrication processes in the AEC sector	<u>Saurav Dixit</u> , Anna Stefańska	K.R. Mangalam University Gurugram-122103, Haryana, India	Registered
21	MATPR-D-21-09197R1	Analyze the outcome of waste material as cement replacement agent in basic concrete	Rishabh Arora, <u>Kaushal Kumar</u>	School of Engineering and Technology, K.R. Mangalam University Gurugram-122103, Haryana, India	Registered
22	MATPR-D-21-09119R1	Activated Bamboo Charcoal in Water Treatment: A Mini-Review	<u>Joan Nyika</u> , Megersa Dinka	University of Johannesburg, Department of Civil Engineering Science, University of Johannesburg, APK Campus 2006, Johannesburg, South Africa	Registered
23	MATPR-D-21-09117R1	Review on mechanism and parameters affecting thermal conductivity of nanofluid	<u>Bhavin Mehta</u> , Dr. Dattatraya Subhedar	Chamos Matrusansta Department of Mechanical Engineering, Chandubhai S. Patel Institute of Technology Charotar University of Science & Technology, Changa, Dist: Anand, Gujarat, India	Unregistered
24	MATPR-D-21-08824R1	Design of mutual trust between the IoT nodes using adaptive network-based fuzzy inference system in edge computing systems	<u>D.Jayakumar</u> , Dr.K.Santhosh Kumar	Department of CSE, IFET College of Engineering, Villupuram,	Registered
25	MATPR-D-21-08823R1	Stock Price Prediction Methodology using Random Forest algorithm and Support Vector Machine	<u>Pavan Kumar Illa</u> , Balakesavareddy Parvathala, Anand Kumar Sharma	Departement of Information Technology, VNRVJIET, Hyderabad, India	Registered
26	MATPR-D-21-08822R1	IoT based improved air quality index prediction using hybrid fa-ann-arma model	<u>D.Saravanan</u> , Dr. K.Santhosh Kumar	Department of CSE, IFET College of Engineering, Villupuram,	Registered

27	MATPR-D-21-08821R1	Effective resource scheduling using hybrid gradient descent cuckoo search algorithm and security enhancement in cloud via blockchain for healthcare 4.0	<u>R.Parthiban</u> , Dr.K.Santhosh Kumar	Department of CSE, IFET College of Engineering, Villupuram,	Registered
28	MATPR-D-21-08820R1	Classification of nutrient deficiencies in rice crop using densenet-bc	<u>R.Sathyavani</u> , Dr.K.JaganMohan , Dr.B.Kalaavathi	Department of IT, Institute Of Road and Transport Technology, Erode	Registered
29	MATPR-D-21-08819R1	Development of lean construction supply chain risk management based on enhanced neural network	J. Senthil , <u>M. Muthukannan</u>	Department of Civil Engineering, Kalasalingam Academy of Research and Education	Registered
30	MATPR-D-21-08818R1	Detection of brain tumor using modified particle swarm optimization (MPSO) segmentation via haralick features extraction and subsequent classification by KNN Algorithm	Deepa G , <u>Leena Rosalind Mary G</u> , , Karthikeyan A , Rajalakshmi P , Hemavathi K , Dharanisri M	Department of Mathematics, School of Advanced Science-SAS, Vellore Institute of Technology, Vellore – 632014, Tamilnadu, India	Registered
31	MATPR-D-21-08745R1	Optimized artificial neural network assisted trade-off between transmission and delay in LTE networks	<u>D.L.Shanthi</u> , Dr. K. Arumugam, V.M.M.Swamy , A.Farithkhan , Dr. R. Manikandan , D.Saravanan	Department Information science and Engineering, MS Institute of Technology and Management, Bangaluru	Registered
32	MATPR-D-21-08744R1	Internet of things-based automation design and organizational innovation of manufacturing enterprises	<u>T.Babu</u> , Dr.H.Roopa , Dr Arvind Kumar Shukla, Dr.D.Stalin David, S.Jayadatta, A.S.Rajesh	Department of Instrumentation and Control Engineering, St. Joseph's College of Engineering, Chennai	Registered
33	MATPR-D-21-08743R1	A highly consistent and proficient class of multiport dc-dc converter based sustainable energy sources	<u>Dr.T.V.V.Pavan Kumar</u> , Shafqat Nabi Mughal, Dr Radhika Gautamkumar Deshmukh, S.Gopa Kumar, Yogendra Kumar, Dr.D.Stalin David	Department of EEE, K G Reddy College of Engineering and Technology, Hyderabad	Registered

34	MATPR-D-21-08742R1	Consequence of silane combination representative on the Mechanical possessions of sugarcane bagasse and polypropylene amalgams	<u>Dr.M.Chandragowda</u> , Dr. C.Gnanavel, D.Saravanan, Dr.D.Stalin David, R.Parthiban, Mr. A S. Rajesh	Department of Mechanical Engineering, Proudhadaveraya Institute of Technology, Karnataka	Registered
35	MATPR-D-21-08741R1	Optimized Transportation of Bitumen, A Case Study for Nigeria	<u>Olumide A. Towojua</u>	Department of Mechanical Engineering, Lead City University, Ibadan, Nigeria	Registered
36	MATPR-D-21-09762R1	Investigating the Disposal of E-Waste as in Architectural Engineering and Construction Industry	<u>Saurav Dixit</u> , Priyanka Singh	Associate Dean Research and Director International Collaboration, K.R. Mangalam University Gurugram-122103, Haryana, Indi	Registered
37	MATPR-D-21-09585R1	A phase change material (PCM) for Building Applications- A Critical Review	<u>Ahmad Alothman</u>	Department of Civil Engineering, College of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu Dt, Chennai, 603203, Tamil Nadu, India.	Registered
38	MATPR-D-21-09419R1	Cost comparison of steel plate girder and RCC girder bridge	<u>Mohd. Zain</u> , Rakesh Varma, Ranjendra Kumar Srivastava	Shri Ramswaroop Memorial University	Unregistered
39	MATPR-D-21-09118R1	Current landfill technologies and the prospects of developing landfill-based biogas generators for African countries	Prince Awuku Ayisi, <u>Tiyamike Ngonda</u> , Kant Kanyarusoke	Department of Mechanical and Mechatronic Engineering, Cape Peninsula University of Technology, Cape Town, South Africa	Registered
40	MATPR-D-21-09588R1	An Evolutionary Anthropometric Study and Its Impact on Strength	Anulal Mahto, <u>Manish Oraon</u>	Department of Production and Industrial Engineering, Birla Institute of Technology, Mesra-Ranchi, 835251, India	Registered

41	MATPR-D-21-09817R1	Waste combustion and lime induced calcite precipitation for problematic soils stabilization; an applied review	<u>Kennedy C. ONYELOWE</u> , Ifeanyichukwu C. ONUOHA, & Michael ONYIA	Department of Civil Engineering, Michael Okpara University of Agriculture, Umudike, P. M. B. 7267, Umuahia 440109, Abia State, Nigeria	Registered
42	MATPR-D-21-10088R1	Numerical Investigation of Flow Behavior at the Lateral Intake Using Computational Fluid Dynamics (CFD)	<u>Rana A. Al-Zubaidy</u> , Ali N. Hilo	Civil Engineering Department, Wasit University, Iraq	Registered
43	MATPR-D-21-09938R1	Machine Learning Tool For Exploring Sentiment Analysis On Twitter Data	Shanta.H.Biradar, Dr.J.V.Gorabal, <u>Gaurav Gupta</u>	Yogananda School of AI, Computing and Data Science, Shoolini University, Solan, Himachal Pradesh, India	Registered
44	MATPR-D-21-09765R1	1.5 $\mu\text{m}$ NIR emission property of erbium doped bismuth borate glasses for optical amplifier applications	M. Prasanth, K. Thyagarajan, K. Venkata Krishnaiah, N. Ravi	Department of Physics, Rajeev Gandhi Memorial College of Engineering & Technology, Nandyal, 518501, India.	Registered
45	MATPR-D-21-09763R1	Mn-Doped Tin Oxide Based Sensor for Selective Ethanol Detection	G I Janith, H S Herath, G L M Ariyadasa, K C Hewagama, <u>D A S Amarasinghe</u> , D Attygalle, V S C Weragoda	Department of Materials Science and Engineering, University of Moratuwa, Sri Lanka	Unregistered
46	MATPR-D-21-09761R1	Characterization of fly ash for potential utilization in green concrete	Kaushal Kumar, Rishabh Arora	School of Engineering and Technology, K.R. Mangalam University Gurugram-122103, Haryana, India	Registered
47	MATPR-D-21-09587R1	The phytochemical components of caesalpinia sappan in treating respiratory ailments through an herbal soup in addition with sensory evaluation	<u>H.M.Moyeenudin</u> , R. Thiruchelvi, A. Wilfred Lawrence, R. John Williams	Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai-600117, Tamil Nadu, India	Unregistered

48	MATPR-D-21-09538R1	Parametric analysis on fiber laser marking characteristics for generation of square shaped marked surface on Stainless Steel 304	M.Pandey, B.Doloi	Jadavpur University, 188, Raja S.C.Mallick Rd, Kolkata-700032,India	Registered
49	MATPR-D-21-09907R2	Solar Cooking System Employing Heat Pipe Solar Collector: A Review	<u>Pawan V. Chilbule</u> , Lalit P. Dhole , Nishant M. Yewale	Department of Mechanical Engineering, Government College of Engineering, Chandrapur-442403(M.S. India)	Unregistered
50	MATPR-D-21-10058R1	Machine Vision for the Measurement of Machining Parameters: A Review	Abdul Wahab Hashmi, Harlal Singh Mali, Anoj Meena , Irshad Ahamad Khilji, Mohammad Farukh Hashmi, <u>Siti Nadiyah binti Mohd Saffe</u>	Faculty of Manufacturing and Mechatronic Engineering Technology, Universiti Malaysia Pahang, Pekan, Malaysia, 26600.	Registered
51	MATPR-D-21-10197R1	The Effect of Reinforcements on the Mechanical Properties of AZ31 Composites Prepared by Powder Metallurgy: An Overview	Sachin Kumar Sharma , Kuldeep Kumar Saxena, Kodli Basanth Kumar, <u>Naveen Kumar</u>	Applied Mechanics Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, UP, India	Unregistered
52	MATPR-D-21-10059R1	Artificial Intelligence Techniques for Implementation of Intelligent Machining; A Review	Abdul Wahab Hashmi, Harlal Singh Mali, Anoj Meena, Irshad Ahamad Khilji, Mohammad Farukh Hashmi, <u>Siti Nadiyah binti Mohd Saffe</u>	Faculty of Manufacturing and Mechatronic Engineering Technology, Universiti Malaysia Pahang, Pekan, Malaysia, 26600.	Registered
53	MATPR-D-21-09951R1	Experimental study on the depth of abrasion in hydraulic structures using samples of geopolymers concrete	Zahraa H. Mohsin, Ali N. Hilo, <u>Thaar S. Al-Gasham</u> , Shams M. Cheyad	Department of Civil Engineering, College of Engineering, University of Wasit, Iraq	Registered
54	MATPR-D-21-10112R1	Design & Analysis of Connecting Rod using ANSYS software	<u>S.S Godara</u> , Vinayak Brenia, Amit Kumar Soni, Rupender Singh Shekhawat, Kuldeep K. Saxena	Department of Mechanical Engineering, Rajasthan Technical University Kota, Rajasthan-324010, India	Registered



55	MATPR-D-21-09537R2	Effect of graphite addition on tribological behaviour of plasma sprayed Cr2O3-TiO2 coating	<u>Pranay Bagde</u> , Sanket Mehar , S G Sapate, Avishkar Rathod	Department of Mechanical Engineering, Government College of Engineering (GCOE), Chandrapur – 442403	Unregistered
56	MATPR-D-21-09539R1	Comparative Analysis Of T-Beam Along with Deck Slab By Courbon's Method and STAAD. Pro	<u>Mohd. Zain</u> , Ashwani Kumar Pandey, Rakesh Varma, Ranjendra Kumar Srivastava	Shri Ramswaroop Memorial University	Unregistered
57	MATPR-D-21-10400	Comparative Study on Seismic Performance of Steel-Concrete Composite Structure without and with Buckling – Restrained Braces	Ravi Kant , <u>Wesam Al-Agha</u> , M. S. Thakur , Nambiappan Umamaheswari	Department of Civil Engineering, Delhi Technological University, Delhi, India	Unregistered
58	MATPR-D-21-10402	Study on Seismic Performance of Reinforced Concrete Multi-Storey Building considering Soil-Structure Interaction Effect	Ravi Kant , <u>Wesam Al-Agha</u> , Waleed Alozzo Almorad, M. S. Thakur, Nambiappan Umamaheswari	Department of Civil Engineering, Delhi Technological University, Delhi, India	Unregistered
59	MATPR-D-21-09841R1	Low-temperature reduction processing of copper slag	<u>Sokhibjon Turdaliyevich Matkarimov</u> , Bakhriddin Tilovkabalovich Berdiyarov , Zaynobiddin Turdaliyevich Matkarimov , Raimkul Rakhmonkulov , Sevara Dusmuratovna Jumaeva	Tashkent State Technical University, 2, University Street, Almazar District, Tashkent, Uzbekistan	Unregistered
60	MATPR-D-21-10531	The behavior of steel concrete steel sandwich beams with different depths Effect	Manal A. Alawsi, Jasim M. Mhalhal, Thaar S. Al-Gasham, <u>Sallal R. Abid</u>	Civil Engineering Department, Wasit University, Kut, Iraq	Unregistered
61	MATPR-D-21-10491R1	Artificial Intelligence in Medical Imaging: An Analysis of Innovative Technique and Its Future Promise	<u>P. Asha</u> , P.Srivani, Rumi iqbaldoewes, Alim Al Ayub Ahmed, Abhay Kolhe, M.Z.M.Nomani	Sathyabama Institute of Science and Technology, Chennai, India	Unregistered

62	MATPR-D-21-10406R1	Assessment of the impact of blockchain technology in the banking industry	Dr. Malkar Vinod Ramchandra , Krishan Kumar , Dr. Abhijit Sarkar ,Mr. Samrat Kr. Mukherjee, <u>Dr Kirti Agarwal</u>	ITERC, Duhai Road, GZB (Delhi-NCR), Delhi- 110096, India	Unregistered
63	MATPR-D-21-10404R1	Evaluation of friction behaviour of Composite coatings using Taguchi approach	Shubhangi Chourasia, Yash Sharma, Sreeksh Asok Nair, <u>Ankit Tyagi</u>	Department of Mechanical Engineering, SGT University, Haryana, India.	Unregistered
64	MATPR-D-21-10259R1	A Critical Review of Modeling and Simulation Techniques for Loose Abrasive Based Machining Processes	<u>Abdul Wahab Hashmi</u> , Harlal Singh Mali, Anoj Meena	Advanced Manufacturing and Mechatronics Lab, Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, India, 302017	Registered
65	MATPR-D-21-10490R1	Analysing The Importance And Impact Of Cloud Computing On Organization's Performance Management During Economic Crises	Worakamol Wisetsri, S.Franklin John, <u>Arun B Prasad</u> , Shaifali Garg,Md. Khaja Mohiddin, Bandi Bhaskar	Humanities & Commerce, ILNU, Nirma University, India	Unregistered
66	MATPR-D-21-10199R1	Tribological behaviour of Composite coatings for Sliding wear resistance	Shubhangi Chourasia, Yash Sharma, <u>Ankit Tyagi</u>	Department of Mechanical Engineering, SGT University, Haryana, India.	Unregistered
67	MATPR-D-21-10113R1	Tensile properties of Urea treated Rice straw reinforced recycled Polyethylene terephthalate composite materials	Wanrahbok Thabah, <u>Ashwani Kumar Singh</u> , Raman Bedi	Department of mechanical engineering Dr. B R Ambedkar NIT Jalandhar Punjab 144011, India	Unregistered
68	MATPR-D-21-10086R2	A Comparative Study of Quantum Support Vector Machine Algorithm for Handwritten Recognition with Support Vector Machine AlgorithmA	Anurag Rana, Pankaj Vaidya, <u>Gaurav Gupta</u>	Yogananda School of Artificial Intelligence, Computers, and Data Sciences, Shoolini University, HP	Registered

		Comparative Study of Quantum Support Vector Machine Algorithm for Handwritten Recognition with Support Vector Machine Algorithm			
69	MATPR-D-21-09196R2	Modelling process parameters and morphology of wear out brass wire surface during WEDM of Nimonic75 alloy	<u>Harvinder Singh</u> , Vinod Kumar, Jatinder Kapoor	Department of Mechanical Engineering, Punjabi University Patiala (India)	Registered
70	MATPR-D-21-09905R1	Capping agent effect on optical properties of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles	<u>Kahtan A. Mohammed</u> , shaymaa Ahmed Abdulridha, Esraa H. Aljbory, Adel H. Omran Alkhayatt, Rahman S. Zbibah, Ali Jawad Alrubaie Sara k. Rady, Sultan H. kizar, Samer S. Hariz, Mostafa J. kadhem	Department of Medical Physics, Hilla University College, Babylon, Iraq	Registered
71	MATPR-D-21-08862R1	An approach to detect black hole attack for congestion control in MANET's	<u>Suma S</u> , Dr. Bharati Harsoor	Department of Information Science and engineering Poojya Dodappa Appa College of Engineering, Affiliated to VTU Belagavi, Kalaburagi, 585102, India	Unregistered
72	MATPR-D-21-10752	Sensitivity Analysis for Process Parameters in Laser Transmission Welding of Transparent Polymers	<u>D. Kumar</u> , U. Pratap, N. Roy, A.S. Kuar	Jadavpur University, Kolkata 700032, India	Unregistered
73	MATPR-D-21-10060R1	Optimization of process parameters on the mechanical properties of AA6061/Al <sub>2</sub> O <sub>3</sub> nanocomposites fabricated by multi-pass friction stir processing	<u>Husain Mehdi</u> , Arshad Mehmood, Ajay Chinchkar, Abdul Wahab Hashmi, Chandrabhanu Malla, Prabhujit Mohapatra	Department of Mechanical Engineering, Delhi Technological University, New Delhi, India	Registered

74	MATPR-D-21-09832R1	Polyvinylpyrrolidone as a polymer template for Cu-In-S Quantum Dots: Effect on Optical properties	Z. Wonci, <u>N. Tsolekile</u> , M.C. Matoetoe	Chemistry department, Cape Peninsula University of Technology, Western Cape, 8001, South Africa	Registered
75	MATPR-D-21-09906R1	Failure analysis of thin cast A357-T6 centre shell induced by casting defect	<u>Kofi A. Annan</u> , Richard Nkhoma, Charles Siyasiya, Roelf Mostert	University of Pretoria, Department of Materials Science and Metallurgical Engineering, Private bag X20, Hatfield 0002, Pretoria, South Africa	Registered