

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
(An Autonomous College u/s 2 (f) and 12 (B) of UGC Act 1956)
DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY PUBLICATIONS IN INTERNATIONAL/NATIONAL JOURNALS (2016 – 2021)

S. No	Authors	Title of paper	Name of Journal, Vol. No and Year	DOI/ ISSN (if any)	SCI/ Scopus/ UGC
2022					
1	Kumar R, Channi H K	A PV-Biomass off-grid hybrid renewable energy system (HRES) for rural electrification: Design, optimization and techno-economic-environmental analysis	Journal of Cleaner Production/349, 15 May 2022, 131347,	https://doi.org/10.1016/j.jclepro.2022.131347	SCI
2	Kumar R, Singh S, Aggarwal V, Singh S, Pimenov D Y, Giasin K and Nadolny K	Hand and Abrasive Flow Polished Tungsten Carbide Die: Optimization of Surface Roughness, Polishing Time and Comparative Analysis in Wire Drawing	Materials/15(4), 1287;	https://doi.org/10.3390/ma15041287	SCI
3	Goyal K K, Sharma N, Gupta R D, Singh G, Rani D, Banga H K, Kumar R, Pimenov D Y, Giasin K	A Soft Computing-based Analysis of Cutting Rate and Recast Layer Thickness for AZ31 Alloy on WEDM using RSM-MOPSO	Materials/15(2), 635	https://doi.org/10.3390/ma15020635	SCI
4	Singh S, Kumar R, Kumar R, Chohan J S, Ranjan N, Kumar R	Aluminium metal composite primed by FDM assisted investment casting: Hardness, surface, wear and dimensional properties	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	https://doi.org/10.1177/14644207211054143	SCI
5	Rani S, Kumar R	Bibliometric Review of Actuators: Key Automation Technology in a Smart City Framework	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.12.469	Scopus
6	Sharma Arun, Singh Avtar, Chawla Vikas, Grewal J.S., Bansal Amit	Microwave processing and characterization of alumina reinforced HA cladding for biomedical applications	Materials Today: Proceedings Volume 57, Part 2, 2022, Pages 650-656	https://doi.org/10.1016/j.matpr.2022.02.069	Scopus
7	Singh Baljeet, Grewal J.S., Sharma Sunil	Effect of addition of flyash and graphite on the mechanical properties of A6061-T6	Materials Today: Proceedings Volume 50, Part 5, 2022, Pages 2411-2415	https://doi.org/10.1016/j.matpr.2021.10.258	Scopus

8	Singh Saminderpreet, Grewal J. S., Rakha Khushboo	Erosion wear performance of HVOF and cold spray coatings deposited on T-91 boiler steel	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2022.04.277	Scopus
9	Singh Baljeet, Grewal J. S.	Study of dry wear behavior of Novel ferrous samples prepared by powder metallurgy method	Surface Topography: Metrology and Properties	https://orcid.org/0000-0002-0789-3644	SCI
10	Singh Gulvir, Singh P K.	Effect of process parameters on performance of grooved hot rolling of SAE 4340 steel bars	Materials and Manufacturing Processes, Taylor & Francis	https://doi.org/10.1080/10426914.2022.2075894	SCI
11	Singh Gulvir, Singh P K.	Effect of process parameters on roll separating force, driving torque and end crop length during grooved hot rolling of SAE 1020 steel	Journal of Manufacturing Processes, Elsevier	https://doi.org/10.1016/j.jmapro.2022.05.015	SCI
Year 2021					
1	Chandel R., Kaur S., Singh S., Kumar R., Sharma S.	Smart watches: A review of evolution in bio-medical sector	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.07.460	Scopus
2	Singh J., Singh S., Dhawan V., Gulati P.	Flax fiber reinforced polylactic acid composites for non- Structural engineering applications: Effect of molding temperature and fiber volume fraction on its mechanical properties	Polymers and Polymer Composites (SAGE),1-10(2021)	10.1177/09673911211025159 journals.sagepub.com/home/ppc	SCI
3	Chodha V., Dubey R., Kumar ., Singh S., Kaur Swapandeep	Selection of industrial arc welding robot with TOPSIS and Entropy MCDM techniques	Materials Today: Proceeding, (ELSEVIER)	https://doi.org/10.1016/j.matpr.2021.04.487	Scopus
4	Singh G., Kumar A., Agarwal V., Singh S.	Experimental investigations and optimization of machining performance during turning of EN-31 steel using TOPSIS approach	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.07.381	Scopus
5	Dhand D., Kumar P., Grewal J.	A review of thermal spray coatings for protection of steels from degradation in coal fired power plants	DE GRUYTER,243-268,39(3),(2021)	https://doi.org/10.1515/corrrev-2020-0043	SCI
6	Kumar N., Grewal J., Kumar S. Kumar N.	Mechanical and thermal properties of NaOH treated sisal natural fiber reinforced polymer composites: Barium sulphate used as filler	Materials Today: Proceedings, 2214-7853,(2021)	https://doi.org/10.1016/j.matpr.2021.02.310	Scopus
7	Kumar N., Grewal J., Singh T. Kumar N	Mechanical and thermal properties of chemically treated Kenaf natural fiber reinforced polymer composites	Materials Today: Proceedings, 2214-7853,(2021)	https://doi.org/10.1016/j.matpr.2021.03.368	Scopus

8	Kumar R., Bilga P., Singh S.	An Investigation of Energy Efficiency in Finish Turning of EN 353 Alloy Steel	28th CIRP Conference on Life Cycle Engineering, Page no. 654-659 (2021)(ELSEVIER)	10.1016/j.procir.2021.01.170	SCI
9	Singh H., Kumar V., Kapoor J.,	Multi-response optimization of WEDM process parameters during the fabrication of micro-channels for industrial applications	Materials today : proceeding ELSEVIER, Volume 46, Pages 81—88(2021)	https://doi.org/10.1016/j.matpr.2020.06.134	Scopus
10	Singh R., Kumar R., Kapoor J.	Sustainability aspects of machining operations: A summary of concepts	Materials today : proceeding ELSEVIER,(2021)	https://doi.org/10.1016/j.matpr.2021.04.624	Scopus
11	Arora R., Kapoor J., Sharma R.C.	Development of microwave hybrid heating welded joints of inconel-600 superalloys using grey relational analysis	International Journal of Vehicle Structures and Systems, 13(1), pp. 53–59 (2021)	doi:10.4273/ijvss.13.1.11	Scopus
12	Singh P., Deepak D., Brar G.	Optical micrograph and micro-hardness behavior of dissimilar welded joints of aluminum (Al 6061-T6) and stainless steel (SS 304) with friction crush welding	Materials Today: Proceeding, Page no. 1000-1005 (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2020.11.171	Scopus
13	Dhillon S.S., Chawla V., Singh G.	Analysis of plasma gun sprayed coatings on SS-304 steel to evaluate cyclic oxidation and hot corrosion	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.09.120	Scopus
14	Dhillon S.S., Chawla V., Singh G	Analysis of solid particle erosion in plasma sprayed alumina based coatings on SAE-347H steel	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.08.072	Scopus
15	Shehbaaz Singh Brar	Microstructure and characterization of LVOF sprayed aluminium oxide-13% titanium dioxide and aluminium oxide-40% titanium dioxide coatings on ASTM 316 boiler steel	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.10.413	Scopus
16	Shehbaaz Singh Brar	Characterization of D-gun sprayed Al ₂ O ₃ -13%TiO ₂ and Al ₂ O ₃ -40%TiO ₂ coatings on ASTM 316 boiler steel and their microstructure	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.10.005	Scopus
17	Jindal C., Sidhu B., Kumar P., Sidhu H.	Role of surface treatment for enhancing resistance to degradation: An outline	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.01.219	Scopus
18	Jindal C., Sidhu B., Kumar P., Sidhu H.	Performance of hardfaced/heat treated materials under solid particle erosion: A systematic literature review	Materials Today: Proceeding, (ELSEVIER),2214-7853(2021)	https://doi.org/10.1016/j.matpr.2021.03.441	Scopus

19	Sidhu A., Singh S., Kumar R.	Bibliometric analysis of entropy weights method for multi-objective optimization in machining operations	Materials Today: Proceeding, (ELSEVIER)(2021)	https://doi.org/10.1016/j.matpr.2021.08.132	Scopus
20	Sidhu A., Singh S., Kumar R., Pimenov D., Giasin K.	Prioritizing Energy-Intensive Machining Operations and Gauging the Influence of Electric Parameters: An Industrial Case Study	Energies (MDPI),14,4761(2021)	https://doi.org/10.3390/en14164761	SCI
21	Kumar R., Singh S., Bilga P.	Revealing the benefits of entropy weights method for multiobjective optimization in machining operations: A Critical Review	Journal of materials research and technology,2238-7854(2021)	10.1016/j.jmrt.2020.12.114	SCI
22	Kumar R., Kumar V., Singh S., Prakash C.	Vibration Exposure and Transmissibility on Dentist's Anatomy: A Study of Micro Motors and Air-Turbines	International Journal of Environmental Research and Public Health (MDPI),18,4084(2021)	https://doi.org/10.3390/ijerph18084084	Scopus
23	Kumar R., Dubey R., Singh S.	Multicriteria decision making and sensitivity analysis for selection of materials for knee implant femoral component	MDPI,14,2084(2021)	10.3390/ma14082084	Scopus
24	Singh A., Nawayseh N., Singh H., Prakash C., Singh R.	Modelling and optimization of tractor ride conditions under water tanker operation	Taylor and francis(2021)	https://doi.org/10.1080/1463922X.2021.1981481	SCI
25	Dhand D., Kumar P., Grewal J.	Study and comparison of wear behaviour of Ni-Al ₂ O ₃ coatings deposited by hot and cold spray.	Surface Topography: Metrology and properties	https://doi.org/10.1088/2051-672X/ac4402	SCI
26	Sahni K P and Grewal J S	Role of thermal spray and hard facing techniques on slurry erosion and wear behavior: A Review	Complex Systems and Complexity Science Journal, Vol 8 issue 4, April 2021, pp 1-11	ISSN-NO-1672-3813	Scopus
27	Kumar R., Sidhu A., Singh S., Pruncu C I	Bibliometric analysis of specific energy consumption (SEC) in machining operations: A sustainable response	Sustainability (MDPI), Volume 13, Issue 10, 2021, pp 1-30	https://doi.org/10.3390/su13105617	SCI
28	Sidhu A., Kumar R., Singh S	Optimization and modeling of active power consumption of ST52.3 alloy steel during a drilling operation.	Materials Today: Proceeding, (ELSEVIER)(2021)		Scopus
29	Singh, J. and Singh, H.	Enigma of technology awareness & its impact in forging industry of northern India – A case study	Materials Today: Proceedings Volume 46, Part 19, 2021		Scopus

30	Kumar R, Goel P	Exploring the Domain of Interpretive Structural Modelling (ISM) for Sustainable Future Panorama: A Bibliometric and Content Analysis	Archives of Computational Methods in Engineering	https://doi.org/10.1007/s11831-021-09675	SCI
31	Duggal A S, Singh R, Gehlot A, Gupta L R, Akram S V, Prakash C, Singh S, Kumar R	Infrastructure, Mobility and Safety 4.0: Modernization in Road Transportation	Technology in Society/ 67/101791	/https://doi.org/10.1016/j.techsoc.2021.101791	SCI
32	Kumar R, Banga H K, Kumar R, Singh S, Singh S, Scutaru M L, Pruncu C I	Ergonomic Evaluation of Workstation Design Using Taguchi Experimental Approach: A Case of An Automotive Industry	International Journal on Interactive Design and Manufacturing (IJIDeM)/ 15, pages 481–498 (2021)	https://doi.org/10.1007/s12008-021-00776-y	SCI
33	Md Karim, Tariq J B, Morshed S M, Shawon S H, Hasan A, Prakash C, Singh S, Kumar R, Nirsanametla Y, Pruncu C I	Environmental, Economical and Technological Analysis of MQL-Assisted Machining of Al-Mg-Zr Alloy Using PCD Tool	Sustainability/13(13)/ 7321	https://doi.org/10.3390/su13137321	SCI
34	Singh R, Gehlot A, Akram S V, Gupta L R, Jena M K, Prakash C, Singh S, Kumar R	Cloud Manufacturing, Internet of Things-Assisted Manufacturing and 3D Printing Technology Reliable Tools for Sustainable Construction	Sustainability/13(13)/7327	https://doi.org/10.3390/su13137327	SCI
35	Kumar R, Dubey R, Singh S, Singh S, Prakash C, Nirsanametla Y, Królczyk G, Chudy R	Multiple-criteria decision-making and Sensitivity analysis for selection of Materials for Knee Implant Femoral Component	Materials/14 (8)/ 2084	https://doi.org/10.3390/ma14082084	SCI
36	Banga H S, Goel P, Kumar R, Kumar V, Kalra P, Singh S, Singh S, Prakash C and Pruncu C	Vibration Exposure and Transmissibility on Dentist's Anatomy: A Study of Micro Motors and Air-Turbines	International Journal of Environmental Research and Public Health/18/4084 (22)/2021	https://doi.org/10.3390/ijerph18084084	SCI
37	Kumar R, Singh S, Bilga P S, Jatin, Singh J, Singh S, Scutaru M L, Pruncu C I	Revealing the benefits of entropy weights method for multi-objective optimization in machining operations: A critical review	Journal of Materials Research and Technology/ 10/ 1471-1492/ 2021	https://doi.org/10.1016/j.jmrt.2020.12.114	SCI
38	Vaid S K, Vaid G, Kaur S, Kumar R, Sidhu M S	Application of multi-criteria decision-making theory with VIKOR-WASPAS-Entropy methods: a case study of Silent Genset	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.10.259	Scopus

39	Singh S, Kumar R, Goel P, Singh H	Analysis of wear and hardness during surface hardfacing of alloy steel by thermal spraying, electric arc and TIG welding	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.09.122	Scopus
40	Chandel R S, Sharma S, Kaur S, Singh S, Kumar R	Smart watches: A review of evolution in bio-medical sector	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.07.460	Scopus
41	Verma S, Kumar V, Kumar R, Sidhu R S	Exploring the application domain of friction stir welding in aluminum and other alloys	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.07.449	Scopus
42	Channi H K, Singh M, Brar Y S, Dhingra A, Gupta S, Singh H, Kumar R, Kaur S	Agricultural waste assessment for the optimal power generation in the Ludhiana district, Punjab, India	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.04.481	Scopus
43	Chodha V, Dubey R, Kumar R, Singh S, Kaur S	Selection of Industrial Arc Welding Robot with TOPSIS and Entropy MCDM Techniques	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.04.487	Scopus
44	Singh H, Kumar R, Prakash C, Singh S	HA-based coating by plasma spray techniques on titanium alloy for orthopedic applications	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.03.165	Scopus
45	Banga H K, Kalra P, Kumar R, Singh S, Pruncu C I	Optimization of the cycle time of robotics resistance spot welding for automotive applications	Journal of Advanced Manufacturing and Processing	https://doi.org/10.1002/amp2.10084	
46	Kumar R, Bilga P S, Singh S	An Investigation of Energy Efficiency in Finish Turning of EN 353 Alloy Steel	Procedia CIRP	https://doi.org/10.1016/j.procir.2021.01.170	Scopus
47	Vasudev H, Thakur L, Singh H, Bansal A	Effect of addition of Al ₂ O ₃ on the high-temperature solid particle erosion behaviour of HVOF sprayed Inconel-718 coatings	Material Today Communications (Elsevier)	https://doi.org/10.1016/j.mtc.2021.103017	SCI
48	Vasudev H, Thakur L, Singh H, Bansal A	Erosion behaviour of HVOF sprayed Alloy718-nano Al ₂ O ₃ composite coatings on grey cast iron at elevated temperature conditions	Surface Topography: Metrology and Properties (IOP Publishing)	2051-672X	SCI
49	Singh K, Singh G, Singh H	Influence of post welding heat treatment on the microstructure and mechanical properties of friction stir welding joint of AZ31 Mg alloy	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (SAGE Publications)	https://doi.org/10.1177/0954408921997626	SCI
50	Singh H, Saini R.P., Saini J.S.	Thermohydraulic Performance of a Packed Bed Solar Energy Storage System	Sustainable Development Through Engineering Innovations (Springer), pp 451-456, 2021	http://doi.org/10.1007/978-981-15-9554-7_39	
51	Singh, P., Madan, J. and Singh, H.	Composite performance metric for product flow configuration selection for reconfigurable manufacturing system (RMS)	International Journal of Production Research, Vol. 59, No. 13, 2021	https://doi.org/10.1080/00207543.2020.1756511	SCI

52	Kumar, R., Singh, H. and Chohan, J S	A novel quartile deviation score evaluation (QDSE) method to minimize uncertainty in evaluation of solid waste management	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2021.07.355	Scopus
58	Mehta Jimmy, Grewal J.S., Mittal Prateek, Malhotra Paridhi, Gupta Pallav	Comparison of dry and lubricated wear behaviour of 22MnB5 uncoated ultra high strength steel	Materials Today: Proceedings, Volume 47, Part 8, 2021, Pages 1530-1534	https://doi.org/10.1016/j.matpr.2021.03.293	Scopus
59	Sahni Kanwalpreet, Grewal J. S.	Role of thermal spray and hardfacing techniques on slurry erosion and wear behaviour: A review	Complex systems and complexity science journal	ISSN: 1672-3813	Scopus
60	Grewal J S., Kumar N., Singh T.	Mechanical and thermal properties of chemical treated hemp natural fiber reinforced polymer composites	International Journal of Mechanical and Production Engineering Research and Development, Vol.10(5), pp.879-888	http://dx.doi.org/10.1016/j.matpr.2021.03.368	Scopus
61	Kumar Naresh, Grewal J.S., Kumar Sushil, Kumar Nitin, Kashyap Kamal	Mechanical and Thermal Properties of NaOH treated Sisal natural fiber reinforced polymer composites: Barium uses as filler	Materials Today: Proceedings, Volume 45, Part 6, 2021, Pages 5575-5578	https://doi.org/10.1016/j.matpr.2021.02.310	Scopus
62	Kumar N., Grewal J S., Singh T, Kumar N	Mechanical and thermal properties of chemically treated Kenaf natural fiber reinforced polymer composites	Material Today proceeding 2021 Accepted	https://doi.org/10.1016/j.matpr.2021.03.368	Scopus
63	Mehta Jimmy, Grewal J.S., Mittal Prateek, Malhotra Paridhi, Gupta Pallav	Comparison of dry and lubricated wear behavior of 22MnB5 uncoated ultra high strength steel	Material Today proceeding, Vol. 47, Part 8, 2021, pp 1530-1534	https://doi.org/10.1016/j.matpr.2021.03.293	Scopus
64	Dhand, Deepak, Kumar, Parlad and Grewal, Jasmaninder Singh	A Review of thermal spray coatings for protection of steels from degradation in coal fired power plants	Corros Rev 2021; aop, DE GRUYTER, April 2021	https://doi.org/10.1515/corrrev-2020-0043	Scopus
Year 2020					
1	Shrivastav S., Garg R., Sharma V., Singh S.	Multiphysics continuum modeling approaches for metal powder additive manufacturing	Rapid Prototyping,26/4,737-764(2020)	10.1108/RPJ-07-2019-0189	SCI
2	Singh A., Singh L., Singh H.	Investigation into the occupational ride comfort due to exposure of whole body vibration	Smart Healthcare for disease diagnosis and prevention,81-88(2020)	https://doi.org/10.1016/B978-0-12-817913-0.00010-9	Scopus
3	Singh A., Singh L., Singh H.	Materials Horizons: From Nature to Nanomaterials	Structural Materials (Springer) Pages - 264	https://doi.org/10.1007/978-981-16-3211-2	SCI
4	Jain A., Singh H., Bhatti R.	Evaluation of TPM strategies for manufacturing performance improvement of Indian SMEs for strategic success	Inderscience Enterprises Ltd.,29,2,187-215(2020)	https://doi.org/10.1504/IJPQM.2020.105959	Scopus

5	Singh J., Singh R., Singh H.	Investigations and mathematical modelling using dimensionless analysis for hardness of SS-316L implants fabricated for batch production through rapid investment casting	Taylor & Francis Group,(2020)	https://doi.org/10.1080/2374068X.2020.1835016	SCI
6	Kapoor J., Singh H., Kumar V.	Effect of WEDM process parameters on machinability of Nimonic75 alloy using brass wire	World Journal of Engineering,17/3,389-397(2020)	https://doi.org/10.1108/WJE-09-2019-0277	SCI
7	Vasudev H., Thakur L., Singh H., Bansal A.	An investigation on oxidation behaviour of high velocity oxy-fuel sprayed Inconel718-Al ₂ O ₃ composite coatings	Materials Today Communications (ELSEVIER) Vol. 25,(2020)	https://doi.org/10.1016/j.surfco.2020.125770	SCI
8	Singh H., Kumar V. and Kapoor J.	Effect of WEDM process parameters on machinability of Nimonic75 alloy using brass wire	World Journal of Engineering, EMERALD, Vol. 17 No. 3, pp. 389-397. (2020)	https://doi.org/10.1108/WJE-09-2019-0277	SCI
9	Singh H., Kumar V., Kapoor J.	Optimization of WEDM process parameters in machining Nimonic 75 alloy using brass wire	Multidiscipline Modelling in Materials and Structures EMERALD, 16(5), pp. 1189–1202, (2020)	https://doi.org/10.1108/MMMS-10-2019-0178	SCI
10	Singh H., Kumar V., Kapoor J.	Modeling of WEDM parameters and surface integrity characteristics in the machining of Nimonic75 alloy	Materials today : proceedings ELSEVIER, Volume 28, Part 3, Pages 1363-1371(2020)	https://doi.org/10.1016/j.matpr.2020.04.801	Scopus
11	Vasudev H., Thakur L., Singh H., Bansal A.	A study on processing and hot corrosion behaviour of HVOF sprayed Inconel718-nano Al ₂ O ₃ coatings	Materials today communications (ELSEVIER) Vol. 25,101626(2020)	https://doi.org/10.1016/j.mtcomm.2020.101626	Scopus
12	Singh P., Deepak D., Brar G.	Optical micrograph and micro-hardness behavior of dissimilar welded joints of aluminum (Al 6061-T6) and stainless steel (SS 304) with friction crush welding	Materials Today: Proceedings (ELSEVIER) Vol. 44 page no.1000-1004(2020)	https://doi.org/10.1016/j.matpr.2020.11.171	Scopus
13	Singh P., Deepak D., Brar G.	Comparative evaluation of aluminum and stainless steel dissimilar welded joints	Materials Today: Proceedings (ELSEVIER) Vol.33 page no. 1488-1492(2020)	https://doi.org/10.1016/j.matpr.2020.02.682	Scopus
14	Pannu A., Singh S., Dhawan V.	Effect of alkaline treatment on mechanical properties of biodegradable composite (BF/PLA) rod	Materials Today: Proceedings (ELSEVIER) Vol. 46 page no. 9367-9371(2020)	https://doi.org/10.1016/j.matpr.2020.02.912	Scopus
15	Kumar R, Bilga P., Singh S., Singh J.	Revealing the benefits of entropy weights method for multi-objective optimization in machining operations: A critical review	Journal of Materials Research and Technology (ELSEVIER) Vol. 10 Page no. 1471-1492	https://doi.org/10.1016/j.jmrt.2020.12.114	SCI
16	Singh, J. and Zaidi, W.	Application of cryo-treatment for improving machining characteristics and reduce manufacturing cost	Materials Today: Proceedings Volume 33, Part 3, 2020		Scopus
17	Singh G, Singh S, Prakash C, Kumar R,	Characterization of 3D printed thermal-stimulus polylactic acid-hydroxyapatite based	Polymer Composites/41(9), 3871-3891/2020/	https://doi.org/10.1002/pc.25683	SCI

	Kumar R, Ramakrishna S,	shape memory scaffolds			
18	Sandhu K, Singh G, Singh S, Kumar R, Prakash C, Ramakrishna S, Krolczyk G, Pruncu C I	Surface Characteristics of Machined Polystyrene with 3D Printed Thermoplastic Tool	Materials/13, 2729/ 2020/	https://doi.org/10.3390/ma13122729	SCI
19	Kumar R, Bhattacharjee A, Singh A D, Singh S, Pruncu C I	Selection of Portable Hard Disk Drive based upon Weighted Aggregated Sum Product Assessment Method: A Case of Indian Market	Measurement and Control/2020;53(7- 8):1218-1230/	https://doi.org/10.1177/0020294020925841	SCI
20	Kumar R and Singh S	Selection of Vacuum Cleaner with TOPSIS Method based upon Multi Criteria Decision Making Theory	Measurement and Control/	https://doi.org/10.1177/0020294019877524	SCI
21	Goyal I K, Chauhan R, Kumar R, Rai H S	Use of BIM in Development of Smart Cities: A Review	IOP Conf. Series: Materials Science and Engineering	https://doi.org/10.1088/1757-899X/955/1/012010	Scopus
22	Kumar R, Banga H K, Kaur H	Internet of Things-Supported Smart City Platform	IOP Conf. Series: Materials Science and Engineering	https://doi.org/10.1088/1757-899X/955/1/012003	Scopus
23	Kumar R, Bilga P S, Singh S	Optimization of Active Cutting Power Consumption by Taguchi Method for Rough Turning of Alloy Steel	International Journal of Metallurgy and Alloys	http://materials.journalspub.info/index.php?journal=IJM&page=article&op=view&path%5B%5D=632	Referred
24	Kumar R , Banga H S, Singh H, Kundal S	An outline on modern day applications of solid lubricants	Materials Today: Proceedings	https://doi.org/10.1016/j.matpr.2020.05.558	Scopus
25	Vasudev H, Thakur L, Singh H	Applications of Nanostructured Materials for High-Temperature Wear and Corrosion Resistance in Power Plants	Nanotechnology, pp 91-104, October 2020	10.1201/9781003082859-7	
26	Singh K, Singh G, Singh H	Microstructural and Mechanical Behaviour Evaluation of Mg-Al-Zn Alloy Friction Stir Welded Joint	International Journal of Automotive and Mechanical Engineering, Vol.17, No.3, pp 8150-8159, October 2020	https://doi.org/10.15282/ijame.17.3.2020.08.0612	
27	Singh H, Sham R, Vohra G, Kumar V	Effect of Antioxidants on the Storage Stability of Biodiesel Produced from <i>Jatropha curcas</i>	International Journal on Emerging Technologies, Vol.11, No.1, pp 114- 123, 2020	0975-8364	
28	Singh J, Singh H	Sustainable Energy Potential from Different Types of Waste Products	Recent Developments in Waste Management (Springer) Vol. 57, pp 219-230, 2020	https://doi.org/10.1007/978-981-15-0990-2	
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