Arslan Ahmed

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	1,513 citations	393982 19 h-index	315357 38 g-index
43 all docs	43 docs citations	43 times ranked	1516 citing authors

#	Article	IF	Citations
1	Friction and wear characteristics of rice bran oil based biodiesel using calcium oxide catalyst derived from Chicoreus Brunneus shell. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 11015-11023.	1.2	2
2	Recovery and effective utilization of waste heat from the exhaust of internal combustion engines for cooling applications using ANSYS. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 5022-5032.	1.1	2
3	Influence of Machining Parameters on Machinability of Inconel 718â€"A Review. Advanced Engineering Materials, 2022, 24, .	1.6	5
4	Enhancement in creep resistance of pristine polystyrene with incorporation of exfoliated 2D graphene nanosheets at low filler loading. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 9138-9147.	1.1	3
5	A comprehensive assessment of laser welding of biomedical devices and implant materials: recent research, development and applications. Critical Reviews in Solid State and Materials Sciences, 2021, 46, 109-151.	6.8	29
6	Current Research and Development Status of Corrosion Behavior of Automotive Materials in Biofuels. Energies, 2021, 14, 1440.	1.6	7
7	Production and investigation of mechanical properties of graphene/polystyrene nano composites. Journal of Polymer Research, 2021, 28, 1.	1.2	13
8	State-of-the-Art and Future Perspectives of Environmentally Friendly Machining Using Biodegradable Cutting Fluids. Energies, 2021, 14, 4816.	1.6	7
9	A Review of the Methods of Modeling Multi-Phase Flows within Different Microchannels Shapes and Their Applications. Micromachines, 2021, 12, 1113.	1.4	13
10	Friction and Wear Performance of Oleate-Based Esters With Two-, Three-, and Four-Branched Molecular Structure in Pure Form and Mixture. Journal of Tribology, 2021, 143, .	1.0	0
11	Synthesis and investigate the properties of Cuâ€"Alâ€"Ni alloys with Ag addition using powder metallurgy technique. Journal of Alloys and Compounds, 2020, 817, 153281.	2.8	24
12	State of the Art of Catalysts for Biodiesel Production. Frontiers in Energy Research, 2020, 8, .	1.2	214
13	Current research and development status of dissimilar materials laser welding of titanium and its alloys. Optics and Laser Technology, 2020, 126, 106090.	2.2	70
14	Effect of Fatty Acid Methyl Ester on Fuel-Injector Wear Characteristics. Journal of Biobased Materials and Bioenergy, 2020, 14, 327-339.	0.1	3
15	Relay selection schemes for Cooperative NOMA (C-NOMA) with simultaneous wireless information and power transfer (SWIPT). Physical Communication, 2019, 36, 100823.	1.2	15
16	Experimental investigation of tribological properties of laser textured tungsten doped diamond like carbon coating under dry sliding conditions at various loads. Materials Research Express, 2019, 6, 106444.	0.8	6
17	Resistance element weld-bonding and resistance spot weld-bonding of Mg alloy/austenitic stainless steel. Journal of Manufacturing Processes, 2019, 48, 12-30.	2.8	21
18	Design and comparative analysis of an INVELOX wind power generation system for multiple wind turbines through computational fluid dynamics. Advances in Mechanical Engineering, 2019, 11, 168781401983147.	0.8	12

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19	Effect of Oxygenated Functional Groups in Essential Oils on Diesel Engine Performance, Emissions, and Combustion Characteristics. Energy & Fuels, 2019, 33, 9828-9834.	2.5	8
20	Improvement of Wear Resistance of the Nickel Based Alloy Mixed with Rare Earth Elements by High Power Direct Diode Laser Cladding. Lasers in Manufacturing and Materials Processing, 2019, 6, 173-188.	1.2	7
21	Effect of bio-based lubricant towards emissions and engine breakdown due to spark plug fouling in a two-stroke engine. Journal of Cleaner Production, 2019, 221, 215-223.	4.6	11
22	Wear characteristics of patterned and un-patterned tetrahedral amorphous carbon film in the presence of synthetic and bio based lubricants. Materials Research Express, 2019, 6, 036414.	0.8	2
23	Production optimization and tribological characteristics of cottonseed oil methyl ester. Journal of Cleaner Production, 2019, 209, 62-73.	4.6	22
24	Mechanical and tribological performance of a hybrid MMC coating deposited on Alâ€“17Si piston alloy by laser composite surfacing technique. RSC Advances, 2018, 8, 6858-6869.	1.7	7
25	Scratch adhesion and wear failure characteristics of PVD multilayer CrTi/CrTiN thin film ceramic coating deposited on AA7075-T6 aerospace alloy. Journal of Adhesion Science and Technology, 2018, 32, 625-641.	1.4	23
26	Effect of gasolineâ€“bioethanol blends on the properties and lubrication characteristics of commercial engine oil. RSC Advances, 2017, 7, 15005-15019.	1.7	53
27	Investigation of laser texture density and diameter on the tribological behavior of hydrogenated DLC coating with line contact configuration. Surface and Coatings Technology, 2017, 322, 31-37.	2.2	19
28	Laser Composite Surfacing of Ni-WC Coating on AA5083 for Enhancing Tribomechanical Properties. Tribology Transactions, 2017, 60, 249-259.	1.1	8
29	A review on the effect of bioethanol dilution on the properties and performance of automotive lubricants in gasoline engines. RSC Advances, 2016, 6, 66847-66869.	1.7	41
30	Optimization of performance, emission, friction and wear characteristics of palm and Calophyllum inophyllum biodiesel blends. Energy Conversion and Management, 2016, 118, 119-134.	4.4	90
31	Surface Texture Manufacturing Techniques and Tribological Effect of Surface Texturing on Cutting Tool Performance: A Review. Critical Reviews in Solid State and Materials Sciences, 2016, 41, 447-481.	6.8	138
32	Analysis of thermal stability and lubrication characteristics of Millettia pinnata oil. RSC Advances, 2016, 6, 81414-81425.	1.7	20
33	Effect of rare earth elements and their oxides on tribo-mechanical performance of laser claddings: A review. Journal of Rare Earths, 2016, 34, 549-564.	2.5	117
34	Effects of biodiesel blends on lubricating oil degradation and piston assembly energy losses. Energy, 2016, 111, 713-721.	4.5	42
35	An overview of geometrical parameters of surface texturing for piston/cylinder assembly and mechanical seals. Meccanica, 2016, 51, 9-23.	1.2	66
36	Impact of edible and non-edible biodiesel fuel properties and engine operation condition on the performance and emission characteristics of unmodified DI diesel engine. Biofuels, 2016, 7, 219-232.	1.4	11

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37	Assessment of friction and wear characteristics of Calophyllum inophyllum and palm biodiesel. Industrial Crops and Products, 2016, 83, 470-483.	2.5	54
38	A Review to the Laser Cladding of Self-Lubricating Composite Coatings. Lasers in Manufacturing and Materials Processing, 2016, 3, 67-99.	1.2	46
39	Laser-based Surface Modifications of Aluminum and its Alloys. Critical Reviews in Solid State and Materials Sciences, 2016, 41, 106-131.	6.8	79
40	A NUMERICAL APPROACH TO CALCULATE CREEP IN ROLLER FOLLOWER VALVE TRAIN BASING ON FRICTION AND LUBRICATION MODELING. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 805-818.	0.3	4
41	Tribological Characteristics ofCalophyllum inophyllumâ€“Based TMP (Trimethylolpropane) Ester as Energy-Saving and Biodegradable Lubricant. Tribology Transactions, 2015, 58, 1002-1011.	1.1	49
42	Friction and wear characteristics of Calophyllum inophyllum biodiesel. Industrial Crops and Products, 2015, 76, 188-197.	2.5	71
43	Effects of texture diameter and depth on the tribological performance of DLC coating under lubricated sliding condition. Applied Surface Science, 2015, 356, 1135-1149.	3.1	79