

# Arslan Ahmed

## List of Publications by Year in descending order

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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	State of the Art of Catalysts for Biodiesel Production. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	214
2	Surface Texture Manufacturing Techniques and Tribological Effect of Surface Texturing on Cutting Tool Performance: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 447-481.	6.8	138
3	Effect of rare earth elements and their oxides on tribo-mechanical performance of laser claddings: A review. <i>Journal of Rare Earths</i> , 2016, 34, 549-564.	2.5	117
4	Optimization of performance, emission, friction and wear characteristics of palm and Calophyllum inophyllum biodiesel blends. <i>Energy Conversion and Management</i> , 2016, 118, 119-134.	4.4	90
5	Effects of texture diameter and depth on the tribological performance of DLC coating under lubricated sliding condition. <i>Applied Surface Science</i> , 2015, 356, 1135-1149.	3.1	79
6	Laser-based Surface Modifications of Aluminum and its Alloys. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 106-131.	6.8	79
7	Friction and wear characteristics of Calophyllum inophyllum biodiesel. <i>Industrial Crops and Products</i> , 2015, 76, 188-197.	2.5	71
8	Current research and development status of dissimilar materials laser welding of titanium and its alloys. <i>Optics and Laser Technology</i> , 2020, 126, 106090.	2.2	70
9	An overview of geometrical parameters of surface texturing for piston/cylinder assembly and mechanical seals. <i>Meccanica</i> , 2016, 51, 9-23.	1.2	66
10	Assessment of friction and wear characteristics of Calophyllum inophyllum and palm biodiesel. <i>Industrial Crops and Products</i> , 2016, 83, 470-483.	2.5	54
11	Effect of gasoline-bioethanol blends on the properties and lubrication characteristics of commercial engine oil. <i>RSC Advances</i> , 2017, 7, 15005-15019.	1.7	53
12	Tribological Characteristics of Calophyllum inophyllum-Based TMP (Trimethylolpropane) Ester as Energy-Saving and Biodegradable Lubricant. <i>Tribology Transactions</i> , 2015, 58, 1002-1011.	1.1	49
13	A Review to the Laser Cladding of Self-Lubricating Composite Coatings. <i>Lasers in Manufacturing and Materials Processing</i> , 2016, 3, 67-99.	1.2	46
14	Effects of biodiesel blends on lubricating oil degradation and piston assembly energy losses. <i>Energy</i> , 2016, 111, 713-721.	4.5	42
15	A review on the effect of bioethanol dilution on the properties and performance of automotive lubricants in gasoline engines. <i>RSC Advances</i> , 2016, 6, 66847-66869.	1.7	41
16	A comprehensive assessment of laser welding of biomedical devices and implant materials: recent research, development and applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021, 46, 109-151.	6.8	29
17	Synthesis and investigate the properties of Cu-Al-Ni alloys with Ag addition using powder metallurgy technique. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153281.	2.8	24
18	Scratch adhesion and wear failure characteristics of PVD multilayer CrTi/CrTiN thin film ceramic coating deposited on AA7075-T6 aerospace alloy. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 625-641.	1.4	23

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19	Production optimization and tribological characteristics of cottonseed oil methyl ester. <i>Journal of Cleaner Production</i> , 2019, 209, 62-73.	4.6	22
20	Resistance element weld-bonding and resistance spot weld-bonding of Mg alloy/austenitic stainless steel. <i>Journal of Manufacturing Processes</i> , 2019, 48, 12-30.	2.8	21
21	Analysis of thermal stability and lubrication characteristics of <i>Millettia pinnata</i> oil. <i>RSC Advances</i> , 2016, 6, 81414-81425.	1.7	20
22	Investigation of laser texture density and diameter on the tribological behavior of hydrogenated DLC coating with line contact configuration. <i>Surface and Coatings Technology</i> , 2017, 322, 31-37.	2.2	19
23	Relay selection schemes for Cooperative NOMA (C-NOMA) with simultaneous wireless information and power transfer (SWIPT). <i>Physical Communication</i> , 2019, 36, 100823.	1.2	15
24	Production and investigation of mechanical properties of graphene/polystyrene nano composites. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	13
25	A Review of the Methods of Modeling Multi-Phase Flows within Different Microchannels Shapes and Their Applications. <i>Micromachines</i> , 2021, 12, 1113.	1.4	13
26	Design and comparative analysis of an INVELOX wind power generation system for multiple wind turbines through computational fluid dynamics. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401983147.	0.8	12
27	Impact of edible and non-edible biodiesel fuel properties and engine operation condition on the performance and emission characteristics of unmodified DI diesel engine. <i>Biofuels</i> , 2016, 7, 219-232.	1.4	11
28	Effect of bio-based lubricant towards emissions and engine breakdown due to spark plug fouling in a two-stroke engine. <i>Journal of Cleaner Production</i> , 2019, 221, 215-223.	4.6	11
29	Laser Composite Surfacing of Ni-WC Coating on AA5083 for Enhancing Tribomechanical Properties. <i>Tribology Transactions</i> , 2017, 60, 249-259.	1.1	8
30	Effect of Oxygenated Functional Groups in Essential Oils on Diesel Engine Performance, Emissions, and Combustion Characteristics. <i>Energy &amp; Fuels</i> , 2019, 33, 9828-9834.	2.5	8
31	Mechanical and tribological performance of a hybrid MMC coating deposited on Al-17Si piston alloy by laser composite surfacing technique. <i>RSC Advances</i> , 2018, 8, 6858-6869.	1.7	7
32	Improvement of Wear Resistance of the Nickel Based Alloy Mixed with Rare Earth Elements by High Power Direct Diode Laser Cladding. <i>Lasers in Manufacturing and Materials Processing</i> , 2019, 6, 173-188.	1.2	7
33	Current Research and Development Status of Corrosion Behavior of Automotive Materials in Biofuels. <i>Energies</i> , 2021, 14, 1440.	1.6	7
34	State-of-the-Art and Future Perspectives of Environmentally Friendly Machining Using Biodegradable Cutting Fluids. <i>Energies</i> , 2021, 14, 4816.	1.6	7
35	Experimental investigation of tribological properties of laser textured tungsten doped diamond like carbon coating under dry sliding conditions at various loads. <i>Materials Research Express</i> , 2019, 6, 106444.	0.8	6
36	Influence of Machining Parameters on Machinability of Inconel 718—A Review. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	5

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37	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
38	Effect of Fatty Acid Methyl Ester on Fuel-Injector Wear Characteristics. Journal of Biobased Materials and Bioenergy, 2020, 14, 327-339.	0.1	3
39	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
40	Friction and wear characteristics of rice bran oil based biodiesel using calcium oxide catalyst derived from <i>Chicoreus Brunneus</i> shell. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 11015-11023.	1.2	2
41	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
42	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
43	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