

Nurin Wahidah Mohd Zulkifli

List of Publications by Year in descending order

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79
papers

4,019
citations

87888

38
h-index

118850

62
g-index

81
all docs

81
docs citations

81
times ranked

3463
citing authors

#	ARTICLE	IF	CITATIONS
1	Tribological performance of nanoparticles as lubricating oil additives. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	274
2	A review on bio-based lubricants and their applications. <i>Journal of Cleaner Production</i> , 2017, 168, 997-1016.	9.3	239
3	A review on the chemistry, production, and technological potential of bio-based lubricants. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 80-102.	16.4	229
4	Higher alcohol "biodiesel" diesel blends: An approach for improving the performance, emission, and combustion of a light-duty diesel engine. <i>Energy Conversion and Management</i> , 2016, 111, 174-185.	9.2	202
5	Wear prevention characteristics of a palm oil-based TMP (trimethylolpropane) ester as an engine lubricant. <i>Energy</i> , 2013, 54, 167-173.	8.8	167
6	Improving the AW/EP ability of chemically modified palm oil by adding CuO and MoS ₂ nanoparticles. <i>Tribology International</i> , 2015, 88, 271-279.	5.9	145
7	Evaluating the effect of temperature and concentration on the thermal conductivity of ZnO-TiO ₂ /EG hybrid nanofluid using artificial neural network and curve fitting on experimental data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 519, 209-216.	2.6	143
8	An updated overview of diamond-like carbon coating in tribology. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015, 40, 90-118.	12.3	126
9	Assessment of thermal conductivity enhancement of nano-antifreeze containing single-walled carbon nanotubes: Optimal artificial neural network and curve-fitting. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 138-145.	2.6	113
10	Performance and emission characteristics of a diesel engine fueled with palm, jatropha, and moringa oil methyl ester. <i>Industrial Crops and Products</i> , 2016, 79, 70-76.	5.2	110
11	Experimental Analysis of Tribological Properties of Biolubricant with Nanoparticle Additive. <i>Procedia Engineering</i> , 2013, 68, 152-157.	1.2	104
12	A comprehensive review on biodiesel cold flow properties and oxidation stability along with their improvement processes. <i>RSC Advances</i> , 2015, 5, 86631-86655.	3.6	101
13	Assessment of performance, emission and combustion characteristics of palm, jatropha and <i>Calophyllum inophyllum</i> biodiesel blends. <i>Fuel</i> , 2016, 181, 985-995.	6.4	101
14	Study of tribological properties of lubricating oil blend added with graphene nanoplatelets. <i>Journal of Materials Research</i> , 2016, 31, 1932-1938.	2.6	96
15	Lubricity of bio-based lubricant derived from different chemically modified fatty acid methyl ester. <i>Tribology International</i> , 2016, 93, 555-562.	5.9	94
16	Influences of ignition improver additive on ternary (diesel-biodiesel-higher alcohol) blends thermal stability and diesel engine performance. <i>Energy Conversion and Management</i> , 2016, 123, 252-264.	9.2	86
17	Friction and wear characteristics of <i>Calophyllum inophyllum</i> biodiesel. <i>Industrial Crops and Products</i> , 2015, 76, 188-197.	5.2	71
18	A comparative study of C4 and C5 alcohol treated diesel "biodiesel blends in terms of diesel engine performance and exhaust emission. <i>Fuel</i> , 2016, 179, 281-288.	6.4	68

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19	Thermal conductivity optimization and entropy generation analysis of titanium dioxide nanofluid in evacuated tube solar collector. <i>Applied Thermal Engineering</i> , 2018, 145, 155-164.	6.0	66
20	Feasibility of bioethanol and biobutanol as transportation fuel in spark-ignition engine: a review. <i>RSC Advances</i> , 2015, 5, 100184-100211.	3.6	65
21	Sustainability of Palm Biodiesel in Transportation: a Review on Biofuel Standard, Policy and International Collaboration Between Malaysia and Colombia. <i>Bioenergy Research</i> , 2021, 14, 43-60.	3.9	65
22	Tribological characteristics of amorphous hydrogenated (a-C:H) and tetrahedral (ta-C) diamond-like carbon coating at different test temperatures in the presence of commercial lubricating oil. <i>Surface and Coatings Technology</i> , 2014, 245, 133-147.	4.8	64
23	Tribological Properties and Lubricant Mechanism of Nanoparticle in Engine Oil. <i>Procedia Engineering</i> , 2013, 68, 320-325.	1.2	63
24	A comprehensive review on the assessment of fuel additive effects on combustion behavior in CI engine fuelled with diesel biodiesel blends. <i>RSC Advances</i> , 2015, 5, 67541-67567.	3.6	63
25	Performance and emission of multi-cylinder diesel engine using biodiesel blends obtained from mixed inedible feedstocks. <i>Journal of Cleaner Production</i> , 2016, 112, 4114-4122.	9.3	56
26	Comparative assessment of ethanol and isobutanol addition in gasoline on engine performance and exhaust emissions. <i>Journal of Cleaner Production</i> , 2018, 190, 483-495.	9.3	54
27	Effect of gasoline-bioethanol blends on the properties and lubrication characteristics of commercial engine oil. <i>RSC Advances</i> , 2017, 7, 15005-15019.	3.6	53
28	Evaluation of oxygenated n-butanol-biodiesel blends along with ethyl hexyl nitrate as cetane improver on diesel engine attributes. <i>Journal of Cleaner Production</i> , 2017, 141, 928-939.	9.3	49
29	Dispersion Stability and Tribological Characteristics of TiO ₂ /SiO ₂ Nanocomposite-Enriched Biobased Lubricant. <i>Tribology Transactions</i> , 2017, 60, 670-680.	2.0	47
30	Influences of thermal stability, and lubrication performance of biodegradable oil as an engine oil for improving the efficiency of heavy duty diesel engine. <i>Fuel</i> , 2017, 196, 36-46.	6.4	46
31	Performance and emission characteristics of a spark ignition engine fuelled with butanol isomer-gasoline blends. <i>Transportation Research, Part D: Transport and Environment</i> , 2017, 57, 23-38.	6.8	46
32	Influence of poly(methyl acrylate) additive on cold flow properties of coconut biodiesel blends and exhaust gas emissions. <i>Renewable Energy</i> , 2017, 101, 702-712.	8.9	44
33	The Effect of Temperature on Tribological Properties of Chemically Modified Bio-Based Lubricant. <i>Tribology Transactions</i> , 2014, 57, 408-415.	2.0	43
34	A review on fuel economy standard for motor vehicles with the implementation possibilities in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 3092-3099.	16.4	42
35	Effects of biodiesel blends on lubricating oil degradation and piston assembly energy losses. <i>Energy</i> , 2016, 111, 713-721.	8.8	42
36	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.	3.6	41

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37	Convective heat transfer enhancement with graphene nanoplatelet/platinum hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2017, 88, 120-125.	5.6	41
38	Effect of TMP-based-cottonseed oil-biolubricant blends on tribological behavior of cylinder liner-piston ring combinations. <i>Fuel</i> , 2020, 278, 118242.	6.4	41
39	Prediction of rheological behavior of a new hybrid nanofluid consists of copper oxide and multi wall carbon nanotubes suspended in a mixture of water and ethylene glycol using curve-fitting on experimental data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 549, 124101.	2.6	38
40	Improvement of cold flow properties of Cocos nucifera and Calophyllum inophyllum biodiesel blends using polymethyl acrylate additive. <i>Journal of Cleaner Production</i> , 2016, 137, 322-329.	9.3	33
41	A Review: Role of Fatty Acids Composition in Characterizing Potential Feedstock for Sustainable Green Lubricants by Advance Transesterification Process and its Global as Well as Pakistani Prospective. <i>Bioenergy Research</i> , 2020, 13, 1-22.	3.9	32
42	An overview of fluoride-based solid lubricants in sliding contacts. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4974-4996.	5.7	28
43	Experimental assessment of non-edible candlenut biodiesel and its blend characteristics as diesel engine fuel. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2350-2363.	5.3	27
44	A Review on Effects of Lubricant Formulations on Tribological Performance and Boundary Lubrication Mechanisms of Non-Doped DLC/DLC Contacts. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2017, 42, 267-294.	12.3	27
45	Influence of intrinsic and extrinsic conditions on the tribological characteristics of diamond-like carbon coatings: A review. <i>Journal of Materials Research</i> , 2016, 31, 1814-1836.	2.6	25
46	Production optimization and tribological characteristics of cottonseed oil methyl ester. <i>Journal of Cleaner Production</i> , 2019, 209, 62-73.	9.3	22
47	Physicochemical and tribological properties of microalgae oil as biolubricant for hydrogen-powered engine. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22364-22381.	7.1	21
48	Functionalization of graphene-based materials: Effective approach for enhancement of tribological performance as lubricant additives. <i>Diamond and Related Materials</i> , 2021, 115, 108357.	3.9	19
49	Effect of Addition of Palm Oil Biodiesel in Waste Plastic Oil on Diesel Engine Performance, Emission, and Lubricity. <i>ACS Omega</i> , 2021, 6, 21655-21675.	3.5	19
50	RSM and Artificial Neural Networking based production optimization of sustainable Cotton bio-lubricant and evaluation of its lubricity & tribological properties. <i>Energy Reports</i> , 2021, 7, 830-839.	5.1	19
51	Grafting of straight alkyl chain improved the hydrophobicity and tribological performance of graphene oxide in oil as lubricant. <i>Journal of Molecular Liquids</i> , 2020, 319, 114276.	4.9	18
52	Tribological Improvement Using Ionic Liquids as Additives in Synthetic and Bio-Based Lubricants for Steel-Steel Contacts. <i>Tribology Transactions</i> , 2020, 63, 235-250.	2.0	17
53	Investigation of the tribochemical interactions of a tungsten-doped diamond-like carbon coating (W-DLC) with formulated palm trimethylolpropane ester (TMP) and polyalphaolefin (PAO). <i>RSC Advances</i> , 2017, 7, 26513-26531.	3.6	15
54	Ester of thiolated butylated hydroxytoluene: Potential antioxidant for synthetic lubricant oil. <i>Thermochimica Acta</i> , 2018, 670, 7-12.	2.7	14

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55	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.	9.3	11
56	Evaluation of engine performance and exhaust emission characteristics in a diesel engine using isobutanolâ€” Calophyllum inophyllum biodieselâ€”diesel ternary blends. <i>Environmental Science and Pollution Research</i> , 2019, 26, 11815-11826.	5.3	11
57	Semicarbazide and thiosemicarbazide containing butylated hydroxytoluene moiety: new potential antioxidant additives for synthetic lubricating oil. <i>RSC Advances</i> , 2021, 11, 7138-7145.	3.6	11
58	Synergistic Behavior of Graphene and Ionic Liquid as Bio-Based Lubricant Additive. <i>Lubricants</i> , 2021, 9, 46.	2.9	11
59	Working Temperature Effect of A-C: H/A-C: H and Steel/Steel Contacts on Tribo Properties in Presence of Sunflower Oil as a Bio Lubricant. <i>Procedia Engineering</i> , 2013, 68, 550-557.	1.2	9
60	Synthesis, characterisation and tribological evaluation of surface-capped molybdenum sulphide nanoparticles as efficient antiwear bio-based lubricant additives. <i>Industrial Lubrication and Tribology</i> , 2017, 69, 378-386.	1.3	9
61	Tribological characteristics comparison of formulated palm trimethylolpropane ester and polyalphaolefin for cam/tappet interface of direct acting valve train system. <i>Industrial Lubrication and Tribology</i> , 2018, 70, 888-901.	1.3	9
62	MoS ₂ â€”Functionalized Graphene Compositesâ€”Potential Replacement for Lubricant Friction Modifier and Antiâ€”Wear Additives. <i>Advanced Engineering Materials</i> , 2021, 23, 2100030.	3.5	9
63	Influence of polymethyl acrylate additive on the formation of particulate matter and NOX emission of a biodieselâ€”diesel-fueled engine. <i>Environmental Science and Pollution Research</i> , 2017, 24, 18479-18493.	5.3	8
64	The effect of particle size on the dispersion and wear protection ability of MoS ₂ particles in polyalphaolefin and trimethylolpropane ester. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018, 232, 987-998.	1.8	7
65	Chemically active oil filter to develop detergent free bio-based lubrication for diesel engine. <i>Energy</i> , 2017, 124, 413-422.	8.8	6
66	Enhancing vehicleâ€™s engine warm up using integrated mechanical approach. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 210, 012064.	0.6	6
67	HEAT TRANSFER ENHANCEMENT IN A HORIZONTAL PIPE: THE EFFECTS OF FLOWRATE, PULSATION FREQUENCY AND AMPLITUDE. <i>Journal of Enhanced Heat Transfer</i> , 2011, 18, 295-309.	1.1	6
68	Effect of diesel-palm biodiesel fuel with plastic pyrolysis oil and waste cooking biodiesel on tribological characteristics of lubricating oil. <i>AJ - Alexandria Engineering Journal</i> , 2022, 61, 7221-7231.	6.4	6
69	The effect of nanocrystalline cellulose on flow properties of fiber crop aqueous suspension. <i>Carbohydrate Polymers</i> , 2018, 184, 376-382.	10.2	5
70	Compatibility of Ionic Liquid With Glycerol Monooleate and Molybdenum Dithiocarbamate as Additives in Bio-Based Lubricant. <i>Journal of Tribology</i> , 2020, 142, .	1.9	4
71	Surface analysis of early retrieved polyethylene tibial inserts for both knees in total knee replacement. <i>Engineering Failure Analysis</i> , 2020, 109, 104279.	4.0	3
72	Effect of Fatty Acid Methyl Ester on Fuel-Injector Wear Characteristics. <i>Journal of Biobased Materials and Bioenergy</i> , 2020, 14, 327-339.	0.3	3

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73	Investigation on the feasibility of eliminating harmonic excitation signal en-route to performing experimental modal analysis (EMA) under operational condition. Journal of Mechanical Science and Technology, 2018, 32, 3009-3021.	1.5	2
74	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.	1.6	2
75	Effect of plastic pyrolytic oil and waste cooking biodiesel on tribological properties of palm biodieselâ€ diesel fuel blends. Industrial Lubrication and Tribology, 2022, 74, 932-942.	1.3	2
76	Tribological compatibility analysis of conventional lubricant additives with palm trimethylolpropane ester (TMP) and tetrahedral amorphous diamond-like carbon coating (ta-C). Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 999-1013.	1.8	1
77	Tribomechanical Behaviour of Non-oxide Ceramic Matrix Composites in Dry Sliding. Composites Science and Technology, 2021, , 1-49.	0.6	1
78	Enhancing AW/EP tribological characteristics of biolubricant synthesized from chemically modified cotton methyl-esters by using nanoparticle as additives. Industrial Lubrication and Tribology, 2022, 74, 411-420.	1.3	1
79	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, .	1.9	0