

Hoon Kiat Ng

List of Publications by Year in descending order

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108
papers

4,179
citations

136950

32
h-index

123424

61
g-index

109
all docs

109
docs citations

109
times ranked

4631
citing authors

#	ARTICLE	IF	CITATIONS
1	Remediation of soils contaminated with polycyclic aromatic hydrocarbons (PAHs). <i>Journal of Hazardous Materials</i> , 2009, 172, 532-549.	12.4	678
2	Homogeneous Charge Compression Ignition (HCCI) combustion: Implementation and effects on pollutants in direct injection diesel engines. <i>Applied Energy</i> , 2011, 88, 559-567.	10.1	210
3	Fenton based remediation of polycyclic aromatic hydrocarbons-contaminated soils. <i>Chemosphere</i> , 2011, 83, 1414-1430.	8.2	187
4	Artificial neural networks modelling of engine-out responses for a light-duty diesel engine fuelled with biodiesel blends. <i>Applied Energy</i> , 2012, 92, 769-777.	10.1	187
5	Extraction agents for the removal of polycyclic aromatic hydrocarbons (PAHs) from soil in soil washing technologies. <i>Environmental Pollution</i> , 2014, 184, 640-649.	7.5	165
6	Biochar potential evaluation of palm oil wastes through slow pyrolysis: Thermochemical characterization and pyrolytic kinetic studies. <i>Bioresource Technology</i> , 2017, 236, 155-163.	9.6	156
7	Biomass as an energy source in coal co-firing and its feasibility enhancement via pre-treatment techniques. <i>Fuel Processing Technology</i> , 2017, 159, 287-305.	7.2	111
8	Current status and prospects of Fenton oxidation for the decontamination of persistent organic pollutants (POPs) in soils. <i>Chemical Engineering Journal</i> , 2012, 213, 295-317.	12.7	109
9	Characterisation of engine-out responses from a light-duty diesel engine fuelled with palm methyl ester (PME). <i>Applied Energy</i> , 2012, 90, 58-67.	10.1	97
10	Inorganic chelated modified-Fenton treatment of polycyclic aromatic hydrocarbon (PAH)-contaminated soils. <i>Chemical Engineering Journal</i> , 2012, 180, 1-8.	12.7	88
11	Evaluation of palm oil mill fly ash supported calcium oxide as a heterogeneous base catalyst in biodiesel synthesis from crude palm oil. <i>Energy Conversion and Management</i> , 2014, 88, 1167-1178.	9.2	83
12	Ferric sulphate catalysed esterification of free fatty acids in waste cooking oil. <i>Bioresource Technology</i> , 2010, 101, 7338-7343.	9.6	80
13	Advances in biodiesel fuel for application in compression ignition engines. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 459-493.	4.1	76
14	Recent trends in policies, socioeconomy and future directions of the biodiesel industry. <i>Clean Technologies and Environmental Policy</i> , 2010, 12, 213-238.	4.1	71
15	Application of vegetable oils in the treatment of polycyclic aromatic hydrocarbons-contaminated soils. <i>Journal of Hazardous Materials</i> , 2010, 177, 28-41.	12.4	70
16	Development of a reduced biodiesel combustion kinetics mechanism for CFD modelling of a light-duty diesel engine. <i>Fuel</i> , 2013, 106, 388-400.	6.4	69
17	Advances in ultrasound-assisted transesterification for biodiesel production. <i>Applied Thermal Engineering</i> , 2016, 100, 553-563.	6.0	67
18	Combustion performance and exhaust emissions from the non-pressurised combustion of palm oil biodiesel blends. <i>Applied Thermal Engineering</i> , 2010, 30, 2476-2484.	6.0	60

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19	Heterogeneous free fatty acids esterification in waste cooking oil using ion-exchange resins. <i>Fuel Processing Technology</i> , 2012, 102, 67-72.	7.2	58
20	Development and characterisation of novel heterogeneous palm oil mill boiler ash-based catalysts for biodiesel production. <i>Bioresource Technology</i> , 2012, 125, 158-164.	9.6	57
21	Ethyl lactate as a potential green solvent to extract hydrophilic (polar) and lipophilic (non-polar) phytonutrients simultaneously from fruit and vegetable by-products. <i>Sustainable Chemistry and Pharmacy</i> , 2016, 4, 21-31.	3.3	57
22	Evaluation of non-premixed combustion and fuel spray models for in-cylinder diesel engine simulation. <i>Applied Energy</i> , 2012, 90, 271-279.	10.1	53
23	Pyrolysis of <i>Jatropha curcas</i> pressed cake for bio-oil production in a fixed-bed system. <i>Energy Conversion and Management</i> , 2014, 78, 518-526.	9.2	52
24	Modified Fenton oxidation of polycyclic aromatic hydrocarbon (PAH)-contaminated soils and the potential of bioremediation as post-treatment. <i>Science of the Total Environment</i> , 2012, 419, 240-249.	8.0	50
25	Engine-out characterisation using speed-load mapping and reduced test cycle for a light-duty diesel engine fuelled with biodiesel blends. <i>Fuel</i> , 2011, 90, 2700-2709.	6.4	48
26	Effects of antioxidant additives on pollutant formation from the combustion of palm oil methyl ester blends with diesel in a non-pressurised burner. <i>Energy Conversion and Management</i> , 2010, 51, 1536-1546.	9.2	46
27	Development and validation of a reduced combined biodiesel-diesel reaction mechanism. <i>Fuel</i> , 2013, 104, 620-634.	6.4	46
28	Multistage optimizations of slow pyrolysis synthesis of biochar from palm oil sludge for adsorption of lead. <i>Bioresource Technology</i> , 2017, 245, 944-953.	9.6	41
29	Development of an integrated reduced fuel oxidation and soot precursor formation mechanism for CFD simulations of diesel combustion. <i>Fuel</i> , 2011, 90, 2902-2914.	6.4	39
30	Evaluation of solubility of polycyclic aromatic hydrocarbons in ethyl lactate/water versus ethanol/water mixtures for contaminated soil remediation applications. <i>Journal of Environmental Sciences</i> , 2012, 24, 1064-1075.	6.1	39
31	Development of Thermophysical and Transport Properties for the CFD Simulations of In-Cylinder Biodiesel Spray Combustion. <i>Energy & Fuels</i> , 2012, 26, 4857-4870.	5.1	39
32	Characterisation of ignition delay period for a compression ignition engine operating on blended mixtures of diesel and gasoline. <i>Applied Thermal Engineering</i> , 2014, 66, 55-64.	6.0	38
33	Effect of oxide catalysts on the properties of bio-oil from in-situ catalytic pyrolysis of palm empty fruit bunch fiber. <i>Journal of Environmental Management</i> , 2019, 247, 38-45.	7.8	35
34	Investigation of fuel injection pattern on soot formation and oxidation processes in a light-duty diesel engine using integrated CFD-reduced chemistry. <i>Fuel</i> , 2012, 96, 404-418.	6.4	34
35	Developments in computational fluid dynamics modelling of gasoline direct injection engine combustion and soot emission with chemical kinetic modelling. <i>Applied Thermal Engineering</i> , 2016, 107, 936-959.	6.0	32
36	Simulation of biodiesel combustion in a light-duty diesel engine using integrated compact biodiesel-diesel reaction mechanism. <i>Applied Energy</i> , 2013, 102, 1275-1287.	10.1	31

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37	Kinetics and Mechanisms for Copyrolysis of Palm Empty Fruit Bunch Fiber (EFBF) with Palm Oil Mill Effluent (POME) Sludge. <i>Energy & Fuels</i> , 2017, 31, 8217-8227.	5.1	31
38	Outcome-based Education – The Assessment of Programme Educational Objectives for an Engineering Undergraduate Degree. <i>Engineering Education</i> , 2014, 9, 74-85.	0.3	30
39	Investigation of the effects of palm biodiesel dissolved oxygen and conductivity on metal corrosion and elastomer degradation under novel immersion method. <i>Applied Thermal Engineering</i> , 2016, 104, 294-308.	6.0	29
40	Development of multi-component diesel surrogate fuel models – Part II: Validation of the integrated mechanisms in 0-D kinetic and 2-D CFD spray combustion simulations. <i>Fuel</i> , 2016, 181, 120-130.	6.4	29
41	Ethyl lactate-Fenton treatment of soil highly contaminated with polycyclic aromatic hydrocarbons (PAHs). <i>Chemical Engineering Journal</i> , 2012, 200-202, 247-256.	12.7	28
42	Computational study of biodiesel–diesel fuel blends on emission characteristics for a light-duty diesel engine using OpenFOAM. <i>Applied Energy</i> , 2013, 111, 827-841.	10.1	27
43	Development and validation of a generic reduced chemical kinetic mechanism for CFD spray combustion modelling of biodiesel fuels. <i>Combustion and Flame</i> , 2015, 162, 2354-2370.	5.2	27
44	Development of multi-component diesel surrogate fuel models – Part I: Validation of reduced mechanisms of diesel fuel constituents in 0-D kinetic simulations. <i>Fuel</i> , 2016, 180, 433-441.	6.4	25
45	Torrefaction of oil palm fronds for co-firing in coal power plants. <i>Energy Procedia</i> , 2018, 144, 75-81.	1.8	25
46	Simulation of temporal and spatial soot evolution in an automotive diesel engine using the Moss–Brookes soot model. <i>Energy Conversion and Management</i> , 2012, 58, 171-184.	9.2	24
47	Evaluation and Development of Chemical Kinetic Mechanism Reduction Scheme for Biodiesel and Diesel Fuel Surrogates. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 6, 729-744.	0.2	24
48	Deterioration of palm biodiesel fuel under common rail diesel engine operation. <i>Energy</i> , 2017, 120, 854-863.	8.8	24
49	Ultrasound-assisted transesterification of refined and crude palm oils using heterogeneous palm oil mill fly ash supported calcium oxide catalyst. <i>Energy Science and Engineering</i> , 2015, 3, 257-269.	4.0	22
50	Development of emissions predictor equations for a light-duty diesel engine using biodiesel fuel properties. <i>Fuel</i> , 2012, 95, 544-552.	6.4	21
51	Advances in Computational Fluid Dynamics (CFD) Modeling of In-Cylinder Biodiesel Combustion. <i>Energy & Fuels</i> , 2013, 27, 4489-4506.	5.1	20
52	Investigation of the impacts of ethyl lactate based Fenton treatment on soil quality for polycyclic aromatic hydrocarbons (PAHs)-contaminated soils. <i>Journal of Hazardous Materials</i> , 2013, 262, 691-700.	12.4	20
53	Insight into Co-pyrolysis of Palm Kernel Shell (PKS) with Palm Oil Sludge (POS): Effect on Bio-oil Yield and Properties. <i>Waste and Biomass Valorization</i> , 2020, 11, 5877-5889.	3.4	20
54	Effects of sonication on co-precipitation synthesis and activity of copper manganese oxide catalyst to remove methane and sulphur dioxide gases. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 57-67.	8.2	18

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55	Investigation of ethyl lactate as a green solvent for desorption of total petroleum hydrocarbons (TPH) from contaminated soil. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22008-22018.	5.3	17
56	A validated, rapid, simple and economical high-performance liquid-chromatography method to quantify palm tocopherol and tocotrienols. <i>Journal of Food Composition and Analysis</i> , 2016, 53, 22-29.	3.9	17
57	Thermochemical and structural changes in <i>Jatropha curcas</i> seed cake during torrefaction for its use as coal co-firing feedstock. <i>Energy</i> , 2016, 100, 262-272.	8.8	17
58	Valorisation of oil palm wastes into high yield and energy content biochars via slow pyrolysis: Multivariate process optimisation and combustion kinetic studies. <i>Materials Science for Energy Technologies</i> , 2020, 3, 601-610.	1.8	17
59	Development and Validation of Chemical Kinetic Mechanism Reduction Scheme for Large-Scale Mechanisms. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 7, 653-662.	0.2	16
60	Comparison of conventional and fast pyrolysis for the production of <i>Jatropha curcas</i> bio-oil. <i>Applied Thermal Engineering</i> , 2016, 99, 160-168.	6.0	16
61	In-cylinder diesel spray combustion simulations using parallel computation: A performance benchmarking study. <i>Applied Energy</i> , 2012, 93, 466-478.	10.1	15
62	Optimization of simultaneous carotenes and vitamin E (tocols) extraction from crude palm olein using response surface methodology. <i>Chemical Engineering Communications</i> , 2018, 205, 596-609.	2.6	15
63	Catalytic pyrolysis of cellulose with oxides: effects on physical properties and reaction pathways. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1629-1643.	4.1	15
64	Investigation of Biodieselâ€ Diesel Fuel Blends on Combustion Characteristics in a Light-Duty Diesel Engine Using OpenFOAM. <i>Energy & Fuels</i> , 2013, 27, 208-219.	5.1	14
65	Evaluation of a Lagrangian Soot Tracking Method for the prediction of primary soot particle size under engine-like conditions. <i>Journal of Aerosol Science</i> , 2018, 115, 70-95.	3.8	14
66	Distribution and Source Apportionment of Polycyclic Aromatic Hydrocarbons (PAHs) in Surface Soils from Five Different Locations in Klang Valley, Malaysia. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012, 88, 741-746.	2.7	13
67	Extraction of phenanthrene and fluoranthene from contaminated sand using palm kernel and soybean oils. <i>Journal of Environmental Management</i> , 2012, 107, 124-130.	7.8	13
68	CFD modelling of soot entrainment via thermophoretic deposition and crevice flow in a diesel engine. <i>Journal of Aerosol Science</i> , 2013, 66, 83-95.	3.8	12
69	Soot Formation Modeling of n-dodecane and Diesel Sprays under Engine-Like Conditions. , 0, , .		11
70	Leaching as a Pretreatment Process to Complement Torrefaction in Improving Co-firing Characteristics of <i>Jatropha curcas</i> Seed Cake. <i>Waste and Biomass Valorization</i> , 2016, 7, 559-569.	3.4	11
71	Evaluation of ethyl lactate as solvent in Fenton oxidation for the remediation of total petroleum hydrocarbon (TPH)-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17779-17789.	5.3	9
72	Insights into the effectiveness of synthetic and natural additives in improving biodiesel oxidation stability. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102296.	2.7	9

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73	Feasibility of treating aged polycyclic aromatic hydrocarbons (PAHs)-contaminated soils using ethyl lactate-based Fenton treatment via parametric and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2015, 22, 329-342.	5.3	8
74	Comparison of Bio-Oil Properties from Non-Catalytic and In-Situ Catalytic Fast Pyrolysis of Palm Empty Fruit Bunch. <i>Materials Today: Proceedings</i> , 2018, 5, 23456-23465.	1.8	8
75	The role of humic acid in Fenton reaction for the removal of aliphatic fraction of total petroleum hydrocarbons (diesel range) in soil. <i>Environmental Science and Ecotechnology</i> , 2021, 7, 100109.	13.5	8
76	Kinetics and mechanisms for catalytic pyrolysis of empty fruit bunch fibre and cellulose with oxides. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	7
77	Revealing stroke survivor gait deficits during rehabilitation using ensemble empirical mode decomposition of surface electromyography signals. <i>Biomedical Signal Processing and Control</i> , 2020, 61, 102045.	5.7	7
78	A numerical study on the quasi-steady spray and soot characteristics for soybean methyl ester and its blends with ethanol using CFD-reduced chemical kinetics approach. <i>Energy</i> , 2020, 200, 117540.	8.8	7
79	Computational study of crevice soot entrainment in a diesel engine. <i>Applied Energy</i> , 2013, 102, 898-907.	10.1	6
80	Sensitivity analyses of biodiesel thermo-physical properties under diesel engine conditions. <i>Energy</i> , 2016, 109, 341-352.	8.8	6
81	Simultaneous Recovery of Carotenes and Tocols from Crude Palm Olein Using Ethyl Lactate and Ethanol. <i>Journal of Physics: Conference Series</i> , 2018, 989, 012005.	0.4	6
82	Numerical Analysis of the Effects of Biodiesel Unsaturation Levels on Combustion and Emission Characteristics under Conventional and Diluted Air Conditions. <i>Energy & Fuels</i> , 2018, 32, 8392-8410.	5.1	6
83	Esterification and neutralization of bio-oil from palm empty fruit bunch fibre with calcium oxide. <i>Bioresource Technology Reports</i> , 2020, 12, 100560.	2.7	6
84	Review of the advances in integrated chemical kinetics-computational fluid dynamics combustion modelling studies of gasoline-biodiesel mixtures. <i>Transportation Engineering</i> , 2022, 7, 100102.	4.2	6
85	Evaluation of in situ catalysed hydrogen peroxide propagation (CHP) for phenanthrene and fluoranthene removals from soil and its associated impacts on soil functionality. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2888-2897.	5.3	5
86	A new fractal-based kinetic index to characterize gait deficits with application in stroke survivor functional mobility assessment. <i>Biomedical Signal Processing and Control</i> , 2019, 52, 403-413.	5.7	5
87	Numerical investigation on the ignition and flame characteristics of n-dodecane-n-butanol spray under diesel engine conditions. <i>Fuel</i> , 2022, 325, 124881.	6.4	5
88	Numerical Investigation of Particulate Matter Processes in Gasoline Direct Injection Engines through Integrated Computational Fluid Dynamicsâ€“Chemical Kinetic Modeling. <i>Energy & Fuels</i> , 2020, 34, 4909-4924.	5.1	4
89	Chemical Kinetic Mechanism Reduction Scheme for Diesel Fuel Surrogate. <i>Applied Mechanics and Materials</i> , 0, 541-542, 1006-1010.	0.2	3
90	Comparison of the Yield and Properties of Bio-Oil Produced by Slow and Fast Pyrolysis of Rice Husks and Coconut Shells. <i>Applied Mechanics and Materials</i> , 0, 625, 626-629.	0.2	3

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91	An investigation into the use of CFD to model the co-firing of <i>Jatropha curcas</i> seed cake with coal. International Journal of Green Energy, 2018, 15, 605-621.	3.8	3
92	Development of a reduced multi-component chemical kinetic mechanism for the combustion modelling of diesel-biodiesel-gasoline mixtures. Transportation Engineering, 2022, 7, 100101.	4.2	3
93	Student evaluation of engineering modules for improved teaching-learning effectiveness. Engineering Education, 2010, 5, 52-63.	0.3	2
94	Development and validation of a n-butanol reduced chemical kinetic mechanism under engine relevant conditions. International Journal of Chemical Kinetics, 2021, 53, 1285.	1.6	2
95	A NOVEL STEADY-STATE TEST CYCLE FOR EMISSIONS CHARACTERISATION OF A LIGHT-DUTY DIESEL ENGINE FUELLED WITH BIODIESEL. , 2009, , .		2
96	Development and validation of a new n-dodecane-n-butanol-PAH reduced mechanism under diesel engine-relevant conditions. Fuel, 2022, 319, 123829.	6.4	2
97	Application of Adaptive Local Mesh Refinement (ALMR) Approach for the Modeling of Reacting Biodiesel Fuel Spray using OpenFOAM. , 2014, , .		1
98	A Compact Low Cost Wearable Sensor System for Quantitative Gait Measurement. Applied Mechanics and Materials, 0, 627, 212-216.	0.2	1
99	Investigation of eggshell as catalyst on the torrefaction of empty fruit bunch. Materials Science for Energy Technologies, 2021, 4, 189-201.	1.8	1
100	Numerical Studies of In-Cylinder Combustion and Soot Emission Characteristics of Biodiesel Fuels from Different Feedstock. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 70, 46-61.	0.6	1
101	Biodiesel Synthesis from Refined Palm Oil Using a Calcium Oxide Impregnated Ash-Based Catalyst: Parametric, Kinetics, and Product Characterization Studies. Catalysts, 2022, 12, 706.	3.5	1
102	Development of Biodiesel Skeletal Mechanisms for Kinetic Combustion Modeling. , 2013, , .		0
103	A motion sensor network for quantitative gait measurement. World Journal of Engineering, 2015, 12, 619-626.	1.6	0
104	Heat transfer analysis of laboratory scale fast pyrolysis fluidised bed reactor. AIP Conference Proceedings, 2017, , .	0.4	0
105	Computational fluid dynamics simulation of laboratory scale reactor of fast pyrolysis fluidised bed. Journal of Physics: Conference Series, 2017, 822, 012028.	0.4	0
106	Semi-Empirical Correlations of Physical and Chemical Delay Period of Diesel-Gasoline Combustion. Lecture Notes in Electrical Engineering, 2013, , 493-502.	0.4	0
107	Vibration suppression of a car engine frame via tuned vibration absorber design. International Journal of Vehicle Noise and Vibration, 2020, 16, 13.	0.1	0
108	Parametric investigation of particulate matter emissions in a gasoline direct injection engine using computational fluid dynamics modelling. Australian Journal of Mechanical Engineering, 0, , 1-18.	2.1	0