

# Soh Kheang Loh

## List of Publications by Year in descending order

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88  
papers

2,381  
citations

304743

22  
h-index

223800

46  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2427  
citing authors

#	ARTICLE	IF	CITATIONS
1	The potential of the Malaysian oil palm biomass as a renewable energy source. <i>Energy Conversion and Management</i> , 2017, 141, 285-298.	9.2	288
2	A review of torrefaction of oil palm solid wastes for biofuel production. <i>Energy Conversion and Management</i> , 2017, 149, 101-120.	9.2	213
3	Biochar from oil palm biomass: A review of its potential and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 729-739.	16.4	209
4	Conventional methods and emerging wastewater polishing technologies for palm oil mill effluent treatment: A review. <i>Journal of Environmental Management</i> , 2015, 149, 222-235.	7.8	137
5	Oxidative stability and storage behavior of fatty acid methyl esters derived from used palm oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2006, 83, 947-952.	1.9	91
6	Production and Characterization of Bio-Char from the Pyrolysis of Empty Fruit Bunches. <i>American Journal of Applied Sciences</i> , 2011, 8, 984-988.	0.2	89
7	Fractionation and extraction of bio-oil for production of greener fuel and value-added chemicals: Recent advances and future prospects. <i>Chemical Engineering Journal</i> , 2020, 397, 125406.	12.7	88
8	First Report on Malaysia's experiences and development in biogas capture and utilization from palm oil mill effluent under the Economic Transformation Programme: Current and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 1257-1274.	16.4	84
9	Pretreatment of empty fruit bunch from oil palm for fuel ethanol production and proposed biorefinery process. <i>Bioresource Technology</i> , 2013, 135, 275-282.	9.6	75
10	Enhancement of palm oil refinery waste " Spent bleaching earth (SBE) into bio organic fertilizer and their effects on crop biomass growth. <i>Industrial Crops and Products</i> , 2013, 49, 775-781.	5.2	70
11	Robust enzymatic hydrolysis of Formiline-pretreated oil palm empty fruit bunches (EFB) for efficient conversion of polysaccharide to sugars and ethanol. <i>Bioresource Technology</i> , 2014, 166, 584-591.	9.6	50
12	Isolation and structural characterisation of a reactive chiral palladium(II) complex containing a ClO <sub>4</sub> ligand. <i>Tetrahedron: Asymmetry</i> , 1996, 7, 45-48.	1.8	43
13	Lipid productivity and fatty acid composition-guided selection of <i>Chlorella</i> strains isolated from Malaysia for biodiesel production. <i>Journal of Applied Phycology</i> , 2014, 26, 1399-1413.	2.8	43
14	Surface-active physicochemical characteristics of spent bleaching earth on soil-plant interaction and water-nutrient uptake: A review. <i>Applied Clay Science</i> , 2017, 140, 59-65.	5.2	43
15	A simple route to a novel enantiomerically pure P-chiral phosphine ligand containing a tertiary amide functional group. <i>Chemical Communications</i> , 1996, , 591.	4.1	41
16	Palladium-Complex-Promoted Asymmetric Synthesis of Stereoisomeric P-Chiral Pyridylphosphines via an Unusual Exo-Endo Stereochemically Controlled Asymmetric Diels-Alder Reaction between 2-Vinylpyridine and Coordinated 3,4-Dimethyl-1-phenylphosphole. <i>Organometallics</i> , 1998, 17, 3931-3936.	2.3	41
17	Metal Template Synthesis and Coordination Chemistry of Functionalized P-Chiral Phosphanorbornenes. <i>Tetrahedron</i> , 2000, 56, 7-15.	1.9	35
18	Bisulfite pretreatment changes the structure and properties of oil palm empty fruit bunch to improve enzymatic hydrolysis and bioethanol production. <i>Biotechnology Journal</i> , 2015, 10, 915-925.	3.5	33

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19	OIL PALM ECONOMIC PERFORMANCE IN MALAYSIA AND R&D PROGRESS IN 2017 – Review Article. Journal of Oil Palm Research, 0, , .	2.1	31
20	Fractionation of oil palm empty fruit bunch by bisulfite pretreatment for the production of bioethanol and high value products. Bioresource Technology, 2016, 200, 572-578.	9.6	29
21	ACTIVATED CARBON FROM OIL PALM BIOMASS AS POTENTIAL ADSORBENT FOR PALM OIL MILL EFFLUENT TREATMENT. Journal of Oil Palm Research, 2017, 29, 278-290.	2.1	28
22	Removal of Organic Contaminant from Aqueous Solution Using Magnetic Biochar. Procedia Engineering, 2016, 148, 228-235.	1.2	27
23	Asymmetric syntheses, structures and co-ordination chemistry of palladium(II) complexes containing a chiral P,S hybrid bidentate ligand. Journal of the Chemical Society Dalton Transactions, 1996, , 4443.	1.1	26
24	Fractionation of pyrolysis oil via supercritical carbon dioxide extraction: Optimization study using response surface methodology (RSM). Biomass and Bioenergy, 2017, 107, 155-163.	5.7	24
25	Organic Acid Pretreatment of Oil Palm Trunk Biomass for Succinic Acid Production. Waste and Biomass Valorization, 2020, 11, 5549-5559.	3.4	23
26	Comparison of different industrial scale palm oil mill effluent anaerobic systems in degradation of organic contaminants and kinetic performance. Journal of Cleaner Production, 2020, 262, 121361.	9.3	23
27	Extraction of palm kernel shell derived pyrolysis oil by supercritical carbon dioxide: Evaluation and modeling of phenol solubility. Biomass and Bioenergy, 2018, 116, 106-112.	5.7	22
28	Vegetative growth enhancement of organic fertilizer from anaerobically-treated palm oil mill effluent (POME) supplemented with chicken manure in food-energy-water nexus challenge. Food and Bioproducts Processing, 2019, 117, 95-104.	3.6	21
29	Effect of Pyrolysis Temperature and Time on Properties of Palm Kernel Shell-Based Biochar. IOP Conference Series: Materials Science and Engineering, 2019, 548, 012020.	0.6	20
30	Experimental and modelling study of the torrefaction of empty fruit bunches as a potential fuel for palm oil mill boilers. Biomass and Bioenergy, 2020, 136, 105530.	5.7	20
31	Characterisation of industrially produced oil palm kernel shell biochar and its potential as slow release nitrogen-phosphate fertilizer and carbon sink. Materials Today: Proceedings, 2020, 31, 221-227.	1.8	19
32	OIL PALM ECONOMIC PERFORMANCE IN MALAYSIA AND R&D PROGRESS IN 2019. Journal of Oil Palm Research, 0, , .	2.1	19
33	Individual torrefaction parameter enhances characteristics of torrefied empty fruit bunches. Biomass Conversion and Biorefinery, 2021, 11, 461-472.	4.6	18
34	Compatibility of utilising nitrogen-rich oil palm trunk sap for succinic acid fermentation by Actinobacillus succinogenes 130Z. Bioresource Technology, 2019, 293, 122085.	9.6	17
35	Enzymatic Hydrolysate of Palm Oil Mill Effluent as Potential Substrate for Biofloculant BM-8 Production. Waste and Biomass Valorization, 2020, 11, 17-29.	3.4	17
36	CULTIVATION OF MICROALGAE IN MEDIUM CONTAINING PALM OIL MILL EFFLUENT AND ITS CONVERSION INTO BIOFUEL. Journal of Oil Palm Research, 2017, 29, 291-299.	2.1	16

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37	1-Methyl-2-vinylpyrrole and 1-phenyl-3,4-dimethylphosphole: their coordination chemistries and reactivities in a chiral palladium complex promoted asymmetric Diels-Alder reaction. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 423-428.	1.8	15
38	Palm oil mill effluent as a low-cost substrate for biofloculant production by <i>Bacillus marisflavi</i> NA8. <i>Bioresources and Bioprocessing</i> , 2016, 3, .	4.2	15
39	A comprehensive study on torrefaction of empty fruit bunches: Characterization of solid, liquid and gas products. <i>Energy</i> , 2021, 230, 120877.	8.8	14
40	Life Cycle Assessment (LCA) of Production and Fractionation of Bio-Oil Derived from Palm Kernel Shell: a Gate-to-Gate Case Study. <i>Process Integration and Optimization for Sustainability</i> , 2018, 2, 343-351.	2.6	13
41	Synergistic effect of anaerobic co-digestion of palm oil mill effluent (POME) with <i>Moringa oleifera</i> extract. <i>Biomass and Bioenergy</i> , 2021, 144, 105885.	5.7	13
42	PALM KERNEL SHELL BIOCHAR PRODUCTION, CHARACTERISTICS AND CARBON SEQUESTRATION POTENTIAL. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	13
43	A critical analysis on biogas production and utilisation potential from palm oil mill effluent. <i>Journal of Cleaner Production</i> , 2022, 361, 132040.	9.3	12
44	PYROLYSIS OF EMPTY FRUIT BUNCHES: INFLUENCE OF TEMPERATURE ON THE YIELDS AND COMPOSITION OF GASEOUS PRODUCT. <i>American Journal of Applied Sciences</i> , 2014, 11, 606-610.	0.2	11
45	Whole slurry saccharification of mild oxalic acid-pretreated oil palm trunk biomass improves succinic acid production. <i>Industrial Crops and Products</i> , 2021, 171, 113854.	5.2	11
46	PILOT SCALE BIOCHAR PRODUCTION FROM PALM KERNEL SHELL (PKS) IN A FIXED BED ALLOTHERMAL REACTOR. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	11
47	Production and physico-chemical characterization of biochar from palm kernel shell. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	10
48	Assessing water footprint for the oil palm supply chain- a cradle to gate study. <i>Agricultural Water Management</i> , 2020, 237, 106184.	5.6	10
49	GHG analysis of the production of crude palm oil considering the conversion of agricultural wastes to by-products. <i>Sustainable Production and Consumption</i> , 2021, 28, 1552-1564.	11.0	10
50	Organopalladium complex promoted asymmetric synthesis of a P-chiral phosphanorbornene in ionic liquids and in organic solvents. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 4933-4938.	1.8	9
51	Effect of nano-hydroxyapatite modification of bamboo fiber on the properties of bamboo fiber/poly(lactic acid) composites. <i>BioResources</i> , 2019, 14, 1694-1707.	1.0	9
52	Social life cycle assessment of crude palm oil production in Malaysia. <i>Sustainable Production and Consumption</i> , 2022, 29, 90-99.	11.0	9
53	A Weibull statistics-based lignocellulose saccharification model and a built-in parameter accurately predict lignocellulose hydrolysis performance. <i>Biotechnology Journal</i> , 2015, 10, 1424-1433.	3.5	8
54	Upgrading of oil palm biomass by torrefaction process: A preliminary study. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	8

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55	Glycerolysis of Palm Fatty Acid Distillate (PFAD) as Biodiesel Feedstock Using Heterogeneous Catalyst. Waste and Biomass Valorization, 2021, 12, 735-744.	3.4	8
56	CHLORELLA BIOMASS PRODUCTION IN ANNULAR PHOTOBIOREACTOR USING PALM OIL MILL EFFLUENT (POME): EFFECT OF HYDRODYNAMICS AND MASS TRANSFER, IRRADIANCE, AERATION RATE AND POME CONCENTRATION. Journal of Oil Palm Research, 2016, 28, 496-510.	2.1	8
57	Technical assessment and flue gases emission monitoring of an oil palm biomass "biogas cofired boiler. Environmental Progress and Sustainable Energy, 2019, 38, 13189.	2.3	7
58	Oil palm trunk biomass pretreatment with oxalic acid and its effect on enzymatic digestibility and fermentability. Materials Today: Proceedings, 2021, 42, 119-123.	1.8	7
59	Prospect, Challenges and Opportunities on Biofuels in Malaysia. , 2013, , 3-14.		7
60	Hydrolysis of Residual Starch from Sago Pith Residue and its Fermentation to Bioethanol. Sains Malaysiana, 2017, 46, 1269-1278.	0.5	7
61	Development of choline-based deep eutectic solvents for efficient concentrating of hemicelluloses in oil palm empty fruit bunches. Korean Journal of Chemical Engineering, 2019, 36, 1619-1625.	2.7	6
62	Flame curtain pyrolysis of oil palm fronds for potential acidic soil amelioration and climate change mitigation. Journal of Environmental Chemical Engineering, 2020, 8, 103982.	6.7	6
63	Influence of Solid Loading Concentrations, Inoculums Size and Nitrogen Sources on Ethanol Production from Empty Fruit Bunches (EFB) Hydrolysate in Separate Hydrolysis and Fermentation (SHF). Research Journal of Applied Sciences, 2011, 6, 310-319.	0.1	6
64	Effect of spent bleaching earth based bio organic fertilizer on growth, yield and quality of eggplants under field condition. , 2013, , .		5
65	Pilot-Scale Investigation of the Integrated Anaerobic "Aerobic Bioreactor (IAAB) Treating Palm Oil Mill Effluent (POME): Startup and Performance Evaluation. Industrial & Engineering Chemistry Research, 2021, 60, 3839-3859.	3.7	5
66	OPTIMISATION OF PROCESS CONDITIONS FOR ETHANOL PRODUCTION FROM ENZYMATICALLY SACCHARIFIED EMPTY FRUIT BUNCH USING RESPONSE SURFACE METHODOLOGY (RSM). Journal of Oil Palm Research, 0, , .	2.1	5
67	CONVERSION OF CRUDE GLYCEROL TO 1, 3-PROPANEDIOL BY NEWLY ISOLATED <i>Kluyvera cryocrescens</i> . Journal of Oil Palm Research, 2016, 28, 222-227.	2.1	4
68	ADSORPTION OF NPK FERTILISER AND HUMIC ACID ON PALM KERNEL SHELL BIOCHAR. Journal of Oil Palm Research, 0, , .	2.1	4
69	Investigation of struvite crystals formed in palm oil mill effluent anaerobic digester. Heliyon, 2021, 7, e05931.	3.2	3
70	Production and Characterization of Low-Ash Empty Fruit Bunches Pellets as a Solid Biofuel. Bioenergy Research, 2022, 15, 517-529.	3.9	3
71	QUALITY COMPLIANCE AND ENVIRONMENTAL IMPACT ASSESSMENT OF COMMERCIAL EMPTY FRUIT BUNCH (EFB) PELLET FUEL IN MALAYSIA. Journal of Oil Palm Research, 0, , .	2.1	3
72	PALM OIL MILL EFFLUENT AS ALGAE CULTIVATION MEDIUM FOR BIODIESEL PRODUCTION. Journal of Oil Palm Research, 0, , .	2.1	3

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73	Low cost nutrient-rich oil palm trunk bagasse hydrolysate for bio-succinic acid production by <i>Actinobacillus succinogenes</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2022, 52, 950-960.	1.9	3
74	REGENERATED SPENT BLEACHING EARTH FOR THE DECOLOURISATION AND BOD REDUCTION OF PALM OIL MILL EFFLUENT. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	2
75	FERMENTATION OF BIODIESEL-DERIVED WASTE FOR 1,3-PROPANEDIOL PRODUCTION WITH RESPONSE SURFACE METHODOLOGY. <i>Journal of Oil Palm Research</i> , 2017, 29, 74-80.	2.1	2
76	POME Treatment Efficacy as Affected by Carrier Material Size in Micro-Bioreactor System. <i>Applied Mechanics and Materials</i> , 0, 567, 104-109.	0.2	0
77	Optimisation of fermentation conditions for bioethanol production from oil palm trunk sap by <i>Saccharomyces cerevisiae</i> . <i>Malaysian Journal of Microbiology</i> , 2015, , .	0.1	0
78	MALAYSIAN B5 IMPLEMENTATION AND ITS QUALITY. <i>Journal of Oil Palm Research</i> , 2016, 28, 331-343.	2.1	0
79	SCALE DEPOSITS FROM PALM OIL MILL EFFLUENT (POME) TREATMENT AND VARIOUS OTHER INDUSTRIES: A DEVELOPMENTAL REVIEW. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
80	A PROCESS TO SIMULTANEOUSLY PRODUCE A HIGH DIACYLGLYCEROL OIL AND A CAROTENES-ENRICHED TRIACYLGLYCEROL OIL FROM OIL PALM FRESH FRUIT BUNCHES. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
81	PROCESS OPTIMISATION OF 1,3-PROPANEDIOL PRODUCTION BY <i>Klebsiella pneumoniae</i> STRAIN. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
82	COMPATIBILITY OF TERNE SHEET WITH PALM BIODIESEL BLENDS. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
83	ANALYSIS OF THE UNCERTAINTIES OF THE INCLUSION OF INDIRECT LAND USE CHANGE INTO THE EUROPEAN UNION RENEWABLE ENERGY SOURCES DIRECTIVE II. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
84	PILOT SCALE INTEGRATED ANAEROBIC-AEROBIC TREATMENT OF PALM OIL MILL EFFLUENT. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
85	An Integrated Zero Discharge Treatment Technology of Palm Oil Mill Effluent for a Circular Economy. , 0, , .		0
86	NUTRIENT RECOVERY FROM ANAEROBIC PALM OIL MILL EFFLUENT WITH THERMALLY REGENERATED SPENT BLEACHING EARTH USING RESPONSE SURFACE METHODOLOGY. <i>Journal of Oil Palm Research</i> , 0, , .	2.1	0
87	Oil palm biomass value chain for biofuel development in Malaysia: part I. , 2022, , 481-503.		0
88	Oil palm biomass value chain for biofuel development in Malaysia: part II. , 2022, , 505-534.		0