

Siow Hwa Teo

List of Publications by Year in descending order

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papers

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81839

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docs citations

66
times ranked

3563
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in sustainable approaches to recover metals from e-waste-A review. Journal of Cleaner Production, 2020, 244, 118815.	4.6	290
2	Efficient biodiesel production from Jatropha curcus using CaSO ₄ /Fe ₂ O ₃ -SiO ₂ core-shell magnetic nanoparticles. Journal of Cleaner Production, 2019, 208, 816-826.	4.6	222
3	High Electrical Conductivity 2D MXene Serves as Additive of Perovskite for Efficient Solar Cells. Small, 2018, 14, e1802738.	5.2	193
4	Sustainable detection and capturing of cerium(III) using ligand embedded solid-state conjugate adsorbent. Journal of Molecular Liquids, 2021, 338, 116667.	2.3	179
5	Modified waste egg shell derived bifunctional catalyst for biodiesel production from high FFA waste cooking oil. A review. Renewable and Sustainable Energy Reviews, 2018, 82, 3645-3655.	8.2	159
6	Sustainable toxic dyes removal with advanced materials for clean water production: A comprehensive review. Journal of Cleaner Production, 2022, 332, 130039.	4.6	159
7	Improving the hydrogen production from water over MgO promoted Ni@Si/CNTs photocatalyst. Journal of Cleaner Production, 2019, 238, 117887.	4.6	158
8	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. Resources, Conservation and Recycling, 2021, 175, 105849.	5.3	152
9	Assessment of clean H ₂ energy production from water using novel silicon photocatalyst. Journal of Cleaner Production, 2020, 244, 118805.	4.6	148
10	Transesterification of Jatropha curcas crude oil to biodiesel on calcium lanthanum mixed oxide catalyst: Effect of stoichiometric composition. Energy Conversion and Management, 2014, 88, 1290-1296.	4.4	137
11	Production of biodiesel from non-edible Jatropha curcas oil via transesterification using Bi ₂ O ₃ -La ₂ O ₃ catalyst. Energy Conversion and Management, 2014, 88, 1257-1262.	4.4	122
12	Design of a novel and highly stable lead-free Cs ₂ NaBi ₆ double perovskite for photovoltaic application. Sustainable Energy and Fuels, 2018, 2, 2419-2428.	2.5	121
13	Algae derived biodiesel using nanocatalytic transesterification process. Chemical Engineering Research and Design, 2016, 111, 362-370.	2.7	120
14	Achievable high <i>V_{oc}</i> of carbon based all-inorganic CsPbI ₂ perovskite solar cells through interface engineering. Journal of Materials Chemistry A, 2019, 7, 1227-1232.	5.2	115
15	Niobium Incorporation into CsPb ₂ Br for Stable and Efficient All-Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 19994-20003.	4.0	106
16	Effective biodiesel synthesis from waste cooking oil and biomass residue solid green catalyst. Chemical Engineering Journal, 2018, 347, 137-144.	6.6	94
17	Production of biodiesel from palm oil using modified Malaysian natural dolomites. Energy Conversion and Management, 2014, 78, 738-744.	4.4	91
18	Biodiesel production from crude Jatropha Curcas oil using calcium based mixed oxide catalysts. Fuel, 2014, 136, 244-252.	3.4	82

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19	Ultrathin Assembles of Porous Array for Enhanced H ₂ Evolution. Scientific Reports, 2020, 10, 2324.	1.6	75
20	Transesterification of Nannochloropsis oculata microalga's oil to biodiesel using calcium methoxide catalyst. Energy, 2014, 78, 63-71.	4.5	73
21	Transesterification activity and characterization of natural CaO derived from waste venus clam () Tj ETQq1 1 0.784314 rgBT /Overlock and Design, 2017, 105, 303-315.	2.7	72
22	Biodiesel synthesis over millimetric γ -Al ₂ O ₃ /Kl catalyst. Energy, 2015, 89, 965-973.	4.5	69
23	Biodiesel production from Jatropha curcas L. oil with Ca and La mixed oxide catalyst in near supercritical methanol conditions. Journal of Supercritical Fluids, 2015, 104, 243-250.	1.6	67
24	Sustainable energy generation from textile biowaste and its challenges: A comprehensive review. Renewable and Sustainable Energy Reviews, 2022, 157, 112051.	8.2	64
25	Tunable Open Circuit Voltage by Engineering Inorganic Cesium Lead Bromide/Iodide Perovskite Solar Cells. Scientific Reports, 2018, 8, 2482.	1.6	62
26	Effective synthesis of biodiesel from Jatropha curcas oil using betaine assisted nanoparticle heterogeneous catalyst from eggshell of Gallus domesticus. Renewable Energy, 2017, 111, 892-905.	4.3	60
27	Efficient waste Gallus domesticus shell derived calcium-based catalyst for biodiesel production. Fuel, 2018, 211, 67-75.	3.4	60
28	Introducing the novel composite photocatalysts to boost the performance of hydrogen (H ₂) production. Journal of Cleaner Production, 2021, 313, 127909.	4.6	57
29	Hydrothermal effect on synthesis, characterization and catalytic properties of calcium methoxide for biodiesel production from crude Jatropha curcas. RSC Advances, 2015, 5, 4266-4276.	1.7	56
30	Synthesis and application of waste egg shell derived CaO supported W-Mo mixed oxide catalysts for FAME production from waste cooking oil: Effect of stoichiometry. Energy Conversion and Management, 2017, 151, 216-226.	4.4	55
31	Methoxy-functionalized mesostructured stable carbon catalysts for effective biodiesel production from non-edible feedstock. Chemical Engineering Journal, 2018, 334, 1851-1868.	6.6	54
32	La-doped SnO ₂ as ETL for efficient planar-structure hybrid perovskite solar cells. Organic Electronics, 2019, 73, 62-68.	1.4	53
33	Alumina supported/unsupported mixed oxides of Ca and Mg as heterogeneous catalysts for transesterification of Nannochloropsis sp. microalga's oil. Energy Conversion and Management, 2014, 88, 1193-1199.	4.4	52
34	Novel micro-structured carbon-based adsorbents for notorious arsenic removal from wastewater. Chemosphere, 2021, 272, 129653.	4.2	51
35	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. Journal of Cleaner Production, 2021, 323, 129015.	4.6	50
36	Improving valuable metal ions capturing from spent Li-ion batteries with novel materials and approaches. Journal of Molecular Liquids, 2021, 338, 116703.	2.3	50

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37	Towards the robust hydrogen (H ₂) fuel production with niobium complexes-A review. Journal of Cleaner Production, 2021, 318, 128439.	4.6	50
38	The Role of Lanthanum in a Nickel Oxide-Based Inverted Perovskite Solar Cell for Efficiency and Stability Improvement. ChemSusChem, 2019, 12, 518-526.	3.6	49
39	Heterogeneous calcium-based bimetallic oxide catalyzed transesterification of <i>Elaeis guineensis</i> derived triglycerides for biodiesel production. Energy Conversion and Management, 2017, 141, 20-27.	4.4	43
40	Free-standing NiCo ₂ S ₄ @VS ₂ nanoneedle array composite electrode for high performance asymmetric supercapacitor application. Journal of Alloys and Compounds, 2019, 771, 274-280.	2.8	41
41	Efficient reaction for biodiesel manufacturing using bi-functional oxide catalyst. Catalysis Communications, 2021, 149, 106201.	1.6	32
42	Enhancing the sorption performance of surfactant-assisted CaO nanoparticles. RSC Advances, 2014, 4, 65127-65136.	1.7	31
43	Effective biodiesel synthesis from palm fatty acid distillate (PFAD) using carbon-based solid acid catalyst derived glycerol. Renewable Energy, 2019, 142, 658-667.	4.3	30
44	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127767.	2.3	29
45	Biodiesel synthesis from photoautotrophic cultivated oleaginous microalgae using a sand dollar catalyst. RSC Advances, 2015, 5, 47140-47152.	1.7	28
46	Recent advancements and opportunities of decorated graphitic carbon nitride toward solar fuel production and beyond. Sustainable Energy and Fuels, 2021, 5, 4457-4511.	2.5	25
47	Heterogeneous catalysis of transesterification of <i>Jatropha curcas</i> oil over calcium-cerium bimetallic oxide catalyst. RSC Advances, 2014, 4, 48836-48847.	1.7	22
48	Glycerolysis of palm fatty acid distillate for biodiesel feedstock under different reactor conditions. Fuel, 2016, 174, 133-139.	3.4	21
49	Green nano-catalyst for methanolysis of non-edible <i>Jatropha</i> oil. Energy Conversion and Management, 2014, 87, 618-627.	4.4	19
50	Facile Recoverable and Reusable Macroscopic Alumina Supported Ni-based Catalyst for Efficient Hydrogen Production. Scientific Reports, 2019, 9, 16358.	1.6	16
51	Artomandin, a new xanthone from <i>Artocarpus kemando</i> (Moraceae). Natural Product Research, 2011, 25, 995-1003.	1.0	15
52	Resolve deep-rooted challenges of halide perovskite for sustainable energy development and environmental remediation. Nano Energy, 2022, 99, 107401.	8.2	14
53	Development of a Mixed Halide-chalcogenide Bismuth-based Perovskite MABi ₂ S with Small Bandgap and Wide Absorption Range. Chemistry Letters, 2019, 48, 249-252.	0.7	11
54	Studies on the rheological properties of aluminium oxihydroxide (boehmite) colloidal suspension. Ceramics International, 2014, 40, 3779-3783.	2.3	10

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55	Seeded Growth Route to Noble Calcium Carbonate Nanocrystal. PLoS ONE, 2015, 10, e0144805.	1.1	9
56	Catalytically active metal oxides studies for the conversion technology of carboxylic acids and bioresource based fatty acids to ketones: A review. Bioresource Technology Reports, 2022, 17, 100988.	1.5	8
57	Two New Pyranoxanthenes from <i>Mesua beccariana</i> (Guttiferae). Molecules, 2010, 15, 6733-6742.	1.7	6
58	Artosimmin- A Potential Anti-Cancer Lead Compound from <i>Artocarpus odoratissimus</i> . Letters in Organic Chemistry, 2010, 7, 240-244.	0.2	6
59	Optimization the Process of Chemically Modified Carbon Nanofiber Coated Monolith via Response Surface Methodology for CO2 Capture. Materials, 2020, 13, 1775.	1.3	6
60	Selective Deoxygenation of Sludge Palm Oil into Diesel Range Fuel over Mn-Mo Supported on Activated Carbon Catalyst. Catalysts, 2022, 12, 566.	1.6	4
61	Biodiesel Production via Transesterification of <i>Nannochloropsis oculata</i> microalgae's Oil Using Calcium Methoxide as Heterogeneous Catalyst. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2014, 93, 995-999.	0.2	2
62	12-Acetyl-6-hydroxy-3,3,9,9-tetramethylfuro[3,4-b]pyrano[3,2-h]xanthene-7,11(3H,9H)-dione. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3331-o3332.	0.2	1
63	Binary metal-doped methoxide catalyst for biodiesel production from palm stearin. Research on Chemical Intermediates, 2016, 42, 1943-1963.	1.3	1
64	Development of a novel mixed sulfide-iodide lead-free bismuth perovskite. , 2018, , .		1
65	Photocatalytic Hydrogen from Water Over Semiconductors. Green Energy and Technology, 2022, , 175-194.	0.4	0
66	Origin of Open Circuit Voltage in wide band gap absorbers of all inorganic Cesium Perovskite Solar Cells. , 0, , .		0