

Siow Hwa Teo

List of Publications by Year in descending order

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66
papers

4,258
citations

81900

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114465

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all docs

66
docs citations

66
times ranked

3563
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic Hydrogen from Water Over Semiconductors. <i>Green Energy and Technology</i> , 2022, , 175-194.	0.6	0
2	Functional novel ligand based palladium(II) separation and recovery from e-waste using solvent-ligand approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127767.	4.7	29
3	Sustainable toxic dyes removal with advanced materials for clean water production: A comprehensive review. <i>Journal of Cleaner Production</i> , 2022, 332, 130039.	9.3	159
4	Sustainable energy generation from textile biowaste and its challenges: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112051.	16.4	64
5	Catalytically active metal oxides studies for the conversion technology of carboxylic acids and bioresource based fatty acids to ketones: A review. <i>Bioresource Technology Reports</i> , 2022, 17, 100988.	2.7	8
6	Selective Deoxygenation of Sludge Palm Oil into Diesel Range Fuel over Mn-Mo Supported on Activated Carbon Catalyst. <i>Catalysts</i> , 2022, 12, 566.	3.5	4
7	Resolve deep-rooted challenges of halide perovskite for sustainable energy development and environmental remediation. <i>Nano Energy</i> , 2022, 99, 107401.	16.0	14
8	Efficient reaction for biodiesel manufacturing using bi-functional oxide catalyst. <i>Catalysis Communications</i> , 2021, 149, 106201.	3.3	32
9	Novel micro-structured carbon-based adsorbents for notorious arsenic removal from wastewater. <i>Chemosphere</i> , 2021, 272, 129653.	8.2	51
10	Advances in physiochemical and biotechnological approaches for sustainable metal recovery from e-waste: A critical review. <i>Journal of Cleaner Production</i> , 2021, 323, 129015.	9.3	50
11	Introducing the novel composite photocatalysts to boost the performance of hydrogen (H ₂) production. <i>Journal of Cleaner Production</i> , 2021, 313, 127909.	9.3	57
12	Sustainable detection and capturing of cerium(III) using ligand embedded solid-state conjugate adsorbent. <i>Journal of Molecular Liquids</i> , 2021, 338, 116667.	4.9	179
13	Improving valuable metal ions capturing from spent Li-ion batteries with novel materials and approaches. <i>Journal of Molecular Liquids</i> , 2021, 338, 116703.	4.9	50
14	Towards the robust hydrogen (H ₂) fuel production with niobium complexes-A review. <i>Journal of Cleaner Production</i> , 2021, 318, 128439.	9.3	50
15	Step towards the sustainable toxic dyes removal and recycling from aqueous solution- A comprehensive review. <i>Resources, Conservation and Recycling</i> , 2021, 175, 105849.	10.8	152
16	Recent advancements and opportunities of decorated graphitic carbon nitride toward solar fuel production and beyond. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4457-4511.	4.9	25
17	Assessment of clean H ₂ energy production from water using novel silicon photocatalyst. <i>Journal of Cleaner Production</i> , 2020, 244, 118805.	9.3	148
18	Advances in sustainable approaches to recover metals from e-waste-A review. <i>Journal of Cleaner Production</i> , 2020, 244, 118815.	9.3	290

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19	Ultrathin Assembles of Porous Array for Enhanced H ₂ Evolution. <i>Scientific Reports</i> , 2020, 10, 2324.	3.3	75
20	Optimization the Process of Chemically Modified Carbon Nanofiber Coated Monolith via Response Surface Methodology for CO ₂ Capture. <i>Materials</i> , 2020, 13, 1775.	2.9	6
21	Improving the hydrogen production from water over MgO promoted Ni@Si/CNTs photocatalyst. <i>Journal of Cleaner Production</i> , 2019, 238, 117887.	9.3	158
22	Facile Recoverable and Reusable Macroscopic Alumina Supported Ni-based Catalyst for Efficient Hydrogen Production. <i>Scientific Reports</i> , 2019, 9, 16358.	3.3	16
23	Achievable high V_{oc} of carbon based all-inorganic CsPbI ₂ perovskite solar cells through interface engineering. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1227-1232.	10.3	115
24	Niobium Incorporation into CsPb ₂ Br for Stable and Efficient All-Inorganic Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19994-20003.	8.0	106
25	Effective biodiesel synthesis from palm fatty acid distillate (PFAD) using carbon-based solid acid catalyst derived glycerol. <i>Renewable Energy</i> , 2019, 142, 658-667.	8.9	30
26	La-doped SnO ₂ as ETL for efficient planar-structure hybrid perovskite solar cells. <i>Organic Electronics</i> , 2019, 73, 62-68.	2.6	53
27	Free-standing NiCo ₂ S ₄ @VS ₂ nanoneedle array composite electrode for high performance asymmetric supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2019, 771, 274-280.	5.5	41
28	Development of a Mixed Halide-chalcogenide Bismuth-based Perovskite MABl ₂ S with Small Bandgap and Wide Absorption Range. <i>Chemistry Letters</i> , 2019, 48, 249-252.	1.3	11
29	The Role of Lanthanum in a Nickel Oxide-Based Inverted Perovskite Solar Cell for Efficiency and Stability Improvement. <i>ChemSusChem</i> , 2019, 12, 518-526.	6.8	49
30	Efficient biodiesel production from <i>Jatropha curcus</i> using CaSO ₄ /Fe ₂ O ₃ -SiO ₂ core-shell magnetic nanoparticles. <i>Journal of Cleaner Production</i> , 2019, 208, 816-826.	9.3	222
31	Effective biodiesel synthesis from waste cooking oil and biomass residue solid green catalyst. <i>Chemical Engineering Journal</i> , 2018, 347, 137-144.	12.7	94
32	Tunable Open Circuit Voltage by Engineering Inorganic Cesium Lead Bromide/Iodide Perovskite Solar Cells. <i>Scientific Reports</i> , 2018, 8, 2482.	3.3	62
33	Methoxy-functionalized mesostructured stable carbon catalysts for effective biodiesel production from non-edible feedstock. <i>Chemical Engineering Journal</i> , 2018, 334, 1851-1868.	12.7	54
34	Efficient waste <i>Gallus domesticus</i> shell derived calcium-based catalyst for biodiesel production. <i>Fuel</i> , 2018, 211, 67-75.	6.4	60
35	Modified waste egg shell derived bifunctional catalyst for biodiesel production from high FFA waste cooking oil. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3645-3655.	16.4	159
36	High Electrical Conductivity 2D MXene Serves as Additive of Perovskite for Efficient Solar Cells. <i>Small</i> , 2018, 14, e1802738.	10.0	193

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37	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.	4.9	121
38	Development of a novel mixed sulfide-iodide lead-free bismuth perovskite. , 2018, , .		1
39	Heterogeneous calcium-based bimetallic oxide catalyzed transesterification of Elaeis guineensis derived triglycerides for biodiesel production. Energy Conversion and Management, 2017, 141, 20-27.	9.2	43
40	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.	8.9	60
41	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.	9.2	55
42	Transesterification activity and characterization of natural CaO derived from waste venus clam () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 and Design, 2017, 105, 303-315.	5.6	72
43	Algae derived biodiesel using nanocatalytic transesterification process. Chemical Engineering Research and Design, 2016, 111, 362-370.	5.6	120
44	Glycerolysis of palm fatty acid distillate for biodiesel feedstock under different reactor conditions. Fuel, 2016, 174, 133-139.	6.4	21
45	Binary metal-doped methoxide catalyst for biodiesel production from palm stearin. Research on Chemical Intermediates, 2016, 42, 1943-1963.	2.7	1
46	Seeded Growth Route to Noble Calcium Carbonate Nanocrystal. PLoS ONE, 2015, 10, e0144805.	2.5	9
47	Biodiesel synthesis from photoautotrophic cultivated oleoginuous microalgae using a sand dollar catalyst. RSC Advances, 2015, 5, 47140-47152.	3.6	28
48	Hydrothermal effect on synthesis, characterization and catalytic properties of calcium methoxide for biodiesel production from crude Jatropha curcas. RSC Advances, 2015, 5, 4266-4276.	3.6	56
49	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.	3.2	67
50	Biodiesel synthesis over millimetric γ -Al ₂ O ₃ /KI catalyst. Energy, 2015, 89, 965-973.	8.8	69
51	Biodiesel Production via Transesterification of Nannochloropsis oculata microalga'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
52	Biodiesel production from crude Jatropha Curcas oil using calcium based mixed oxide catalysts. Fuel, 2014, 136, 244-252.	6.4	82
53	Enhancing the sorption performance of surfactant-assisted CaO nanoparticles. RSC Advances, 2014, 4, 65127-65136.	3.6	31
54	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.	9.2	122

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55	Alumina supported/unsupported mixed oxides of Ca and Mg as heterogeneous catalysts for transesterification of <i>Nannochloropsis</i> sp. microalgae's oil. <i>Energy Conversion and Management</i> , 2014, 88, 1193-1199.	9.2	52
56	Transesterification of <i>Jatropha curcas</i> crude oil to biodiesel on calcium lanthanum mixed oxide catalyst: Effect of stoichiometric composition. <i>Energy Conversion and Management</i> , 2014, 88, 1290-1296.	9.2	137
57	Production of biodiesel from palm oil using modified Malaysian natural dolomites. <i>Energy Conversion and Management</i> , 2014, 78, 738-744.	9.2	91
58	Heterogeneous catalysis of transesterification of <i>Jatropha curcas</i> oil over calcium cerium bimetallic oxide catalyst. <i>RSC Advances</i> , 2014, 4, 48836-48847.	3.6	22
59	Green nano-catalyst for methanolysis of non-edible <i>Jatropha</i> oil. <i>Energy Conversion and Management</i> , 2014, 87, 618-627.	9.2	19
60	Transesterification of <i>Nannochloropsis oculata</i> microalgae's oil to biodiesel using calcium methoxide catalyst. <i>Energy</i> , 2014, 78, 63-71.	8.8	73
61	Studies on the rheological properties of aluminium oxihydroxide (boehmite) colloidal suspension. <i>Ceramics International</i> , 2014, 40, 3779-3783.	4.8	10
62	Artomandin, a new xanthone from <i>Artocarpus kemando</i> (Moraceae). <i>Natural Product Research</i> , 2011, 25, 995-1003.	1.8	15
63	Two New Pyranoxanthenes from <i>Mesua beccariana</i> (Guttiferae). <i>Molecules</i> , 2010, 15, 6733-6742.	3.8	6
64	12-Acetyl-6-hydroxy-3,3,9,9-tetramethylfuro[3,4-b]pyrano[3,2-h]xanthene-7,11(3H,9H)-dione. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o3331-o3332.	0.2	1
65	Artosimmin- A Potential Anti-Cancer Lead Compound from <i>Artocarpus odoratissimus</i> . <i>Letters in Organic Chemistry</i> , 2010, 7, 240-244.	0.5	6
66	Origin of Open Circuit Voltage in wide band gap absorbers of all inorganic Cesium Perovskite Solar Cells. , 0, , .		0