Cheng Heng Pang

List of Publications by Year
in descending order

59	2,036	236833	254106
papers	citations	25 h-index	43 g-index

60	60	60	2343
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Estimation of the time-varying reproduction number of COVID-19 outbreak in China. International Journal of Hygiene and Environmental Health, 2020, 228, 113555.	2.1	201
2	The First 75 Days of Novel Coronavirus (SARS-CoV-2) Outbreak: Recent Advances, Prevention, and Treatment. International Journal of Environmental Research and Public Health, 2020, 17, 2323.	1.2	178
3	Hg⁰ Capture over CoMoS/Î³-Al₂O₃ with MoS₂ Nanosheets at Low Temperatures. Environmental Science & Technology, 2016, 50, 1056-1064.	4.6	157
4	Microwave-enhanced pyrolysis of macroalgae and microalgae for syngas production. Bioresource Technology, 2017, 237, 47-56.	4.8	129
5	A novel index for the study of synergistic effects during the co-processing of coal and biomass. Applied Energy, 2017, 188, 215-225.	5.1	80
6	Recent Advances in Transition Metal Nitrideâ€Based Materials for Photocatalytic Applications. Advanced Functional Materials, 2021, 31, 2100553.	7.8	80
7	Synthesis of graphene: Potential carbon precursors and approaches. Nanotechnology Reviews, 2020, 9, 1284-1314.	2.6	72
8	An automated ash fusion test for characterisation of the behaviour of ashes from biomass and coal at elevated temperatures. Fuel, 2013, 103, 454-466.	3.4	68
9	The COVID-19 Vaccines: Recent Development, Challenges and Prospects. Vaccines, 2021, 9, 349.	2.1	60
10	Development of nano Ni x Mg y O solid solutions with outstanding anti-carbon deposition capability for the steam reforming of methanol. Applied Catalysis B: Environmental, 2016, 194, 84-97.	10.8	59
11	MoO3-adjusted Î´-MnO2 nanosheet for catalytic oxidation of Hg0 to Hg2+. Applied Catalysis B: Environmental, 2020, 263, 117829.	10.8	59
12	Relationship between thermal behaviour of lignocellulosic components and properties of biomass. Bioresource Technology, 2014, 172, 312-320.	4.8	57
13	A recent trend: application of graphene in catalysis. Carbon Letters, 2021, 31, 177-199.	3.3	56
14	Synthesis of graphene oxide and graphene quantum dots from miscanthus via ultrasound-assisted mechano-chemical cracking method. Ultrasonics Sonochemistry, 2021, 73, 105519.	3.8	55
15	Dataâ€Driven Materials Innovation and Applications. Advanced Materials, 2022, 34, e2104113.	11.1	51
16	Morphology and reactivity characteristics of char biomass particles. Bioresource Technology, 2011, 102, 5237-5243.	4.8	43
17	In-situ monitoring of the transformation of ash upon heating and the prediction of ash fusion behaviour of coal/biomass blends. Energy, 2020, 199, 117330.	4.5	40
18	Investigations on the generation of oil-in-water (O/W) nanoemulsions through the combination of ultrasound and microchannel. Ultrasonics Sonochemistry, 2020, 69, 105258.	3.8	35

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19	Ignition and Kinetic Studies: The Influence of Lignin on Biomass Combustion. Energy & Fuels, 2019, 33, 6463-6472.	2.5	34
20	A proposed biomass char classification system. Fuel, 2018, 232, 845-854.	3.4	31
21	Hg0-temperature-programmed surface reaction and its application on the investigation of metal oxides for Hg0 capture. Fuel, 2016, 181, 1089-1094.	3.4	30
22	Influence of lignocellulose and plant cell walls on biomass char morphology and combustion reactivity. Biomass and Bioenergy, 2018, 119, 480-491.	2.9	30
23	The impact of ash pellet characteristics and pellet processing parameters on ash fusion behaviour. Fuel, 2019, 251, 779-788.	3.4	30
24	Effect of the addition of different waste carbonaceous materials on coal gasification in CO2 atmosphere. Fuel Processing Technology, 2016, 149, 231-238.	3.7	26
25	The data-intensive scientific revolution occurring where two-dimensional materials meet machine learning. Cell Reports Physical Science, 2021, 2, 100482.	2.8	26
26	Influence of minerals on the thermal processing of bamboo with a suite of carbonaceous materials. Fuel, 2016, 180, 256-262.	3.4	25
27	Catalytic pyrolysis of linear low-density polyethylene using recycled coal ash: Kinetic study and environmental evaluation. Korean Journal of Chemical Engineering, 2021, 38, 2235-2246.	1.2	22
28	Screening of Metal Oxidesfor Hg0Capture. Energy Procedia, 2015, 75, 2421-2426.	1.8	21
29	Integration of machine learning approaches for accelerated discovery of transition-metal dichalcogenides as Hg0 sensing materials. Applied Energy, 2019, 254, 113651.	5.1	21
30	The influence of lignocellulose on biomass pyrolysis product distribution and economics via steady state process simulation. Journal of Analytical and Applied Pyrolysis, 2021, 158, 104968.	2.6	20
31	Influence of co-processing of coal and oil shale on combustion characteristics, kinetics and ash fusion behaviour. Energy, 2021, 216, 119229.	4.5	16
32	Co-regulation of dispersion, exposure and defect sites on CeO2 (111) surface for catalytic oxidation of Hg0. Journal of Hazardous Materials, 2022, 424, 126566.	6.5	15
33	Fish pond water treatment using ultrasonic cavitation and advanced oxidation processes. Chemosphere, 2021, 274, 129702.	4.2	15
34	Physical stability and rheological behavior of Pickering emulsions stabilized by proteinâ€“polysaccharide hybrid nanoconjugates. Nanotechnology Reviews, 2021, 10, 1293-1305.	2.6	15
35	CO2 gasification and pyrolysis reactivity evaluation of oil shale. Energy Procedia, 2019, 158, 1694-1699.	1.8	14
36	Miscanthus as a carbon precursor for graphene oxide: A possibility influenced by pyrolysis temperature. Bioresource Technology, 2021, 331, 124934.	4.8	14

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37	The integration of hydrogenation and carbon capture utilisation and storage technology: A potential lowâ€carbon approach to chemical synthesis in China. International Journal of Energy Research, 2021, 45, 19789-19818.	2.2	14
38	Theoretical insights of catalytic oxidation of Hg0 on g-C3N4-supported Fe/Co/Ni-based bi-metallic catalysts using O2 in coal-fired flue gas as the oxidant. Fuel, 2021, 306, 121593.	3.4	13
39	Synthesis of Sodium Alginateâ€“Silver Nanocomposites Using Plasma Activated Water and Cold Atmospheric Plasma Treatment. Nanomaterials, 2021, 11, 2306.	1.9	12
40	Physicoâ€chemical, thermal, and mechanical properties of <scp>PLAâ€nHA</scp> nanocomposites: Effect of glass fiber reinforcement. Journal of Applied Polymer Science, 2020, 137, 49286.	1.3	10
41	Effects of Microwave-enhanced Pretreatment on Oil Shale Milling Performance. Energy Procedia, 2019, 158, 1712-1717.	1.8	9
42	In vitro Digestion and Swelling Kinetics of Thymoquinone-Loaded Pickering Emulsions Incorporated in Alginate-Chitosan Hydrogel Beads. Frontiers in Nutrition, 2021, 8, 752207.	1.6	9
43	Analysis of environmental impacts and energy derivation potential of biomass pyrolysis via Piper diagram. Journal of Analytical and Applied Pyrolysis, 2021, 154, 104995.	2.6	8
44	Polygenic Scores and Parental Predictors: An Adult Height Study Based on the United Kingdom Biobank and the Framingham Heart Study. Frontiers in Genetics, 2021, 12, 669441.	1.1	8
45	DFT simulation-based screening of single transition metals supported on g-C3N4 for the catalytic oxidation of Hg0. Fuel, 2021, 305, 121456.	3.4	8
46	Effect of dissolution rate and subsequent ion release on cytocompatibility properties of borophosphate glasses. Biomedical Glasses, 2019, 5, 85-97.	2.4	7
47	Application of Machine Learning in Industrial Boilers: Fault Detection, Diagnosis, and Prognosis. ChemBioEng Reviews, 2021, 8, 535-544.	2.6	7
48	Synthesis and functionalization of cauliflower-like mesoporous siliceous foam materials from oil shale waste for post-combustion carbon capture. Journal of CO2 Utilization, 2020, 40, 101199.	3.3	6
49	An advanced ash fusion study on the melting behaviour of coal, oil shale and blends under gasification conditions using picture analysis and graphing method. Chinese Journal of Chemical Engineering, 2021, 32, 393-407.	1.7	6
50	A Note for the Extended P-Graph Model for the Synthesis of Batch Water Network. Process Integration and Optimization for Sustainability, 2021, 5, 675-686.	1.4	5
51	Application of supercritical fluid in the synthesis of graphene materials: a review. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	5
52	Mn doped CeO2-MoO3/Î³-Al2O3 catalysts for the enhanced adsorption and catalytic oxidation of Hg0 in oxygen atmosphere. Applied Surface Science, 2022, 581, 152327.	3.1	5
53	Investigation on Coâ€“Modified Ni x Mg y O Solid Solutions for Hydrogen Production from Steam Reforming of Acetic Acid and a Model Blend. ChemistrySelect, 2019, 4, 9829-9835.	0.7	4
54	Biomass to nanoparticles: Recent advances in the process and processing towards sustainability. Chemical Engineering and Processing: Process Intensification, 2022, 175, 108908.	1.8	4

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55	The synthesis of carbon-based quantum dots: A supercritical fluid approach and perspective. Materials Today Physics, 2022, 27, 100752.	2.9	4
56	The Kinetics Studies and Thermal Characterisation of Biomass. Energy Procedia, 2019, 158, 357-363.	1.8	3
57	Screening of Metal Oxides to Promote CO₂ Adsorption Performance over Polyethyleneimine Incorporated Solid Adsorbents. Materials Science Forum, 0, 1005, 93-100.	0.3	3
58	Insights into the Role of Graphene/Grapheneâ€hybrid Nanocomposites in Antiviral Therapy. ChemBioEng Reviews, 2021, 8, 549.	2.6	1
59	Sustainability and life cycle cost analysis of biomass pyrolysis. IOP Conference Series: Materials Science and Engineering, 2021, 1117, 012016.	0.3	0