

# Season S Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

4,821  
citations

126708

33  
h-index

233125

45  
g-index

45  
all docs

45  
docs citations

45  
times ranked

5637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. <i>Chemosphere</i> , 2016, 148, 276-291.	4.2	959
2	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. <i>Environment International</i> , 2020, 134, 105046.	4.8	701
3	Metal-organic framework (MOF)-derived catalysts for fine chemical production. <i>Coordination Chemistry Reviews</i> , 2020, 416, 213319.	9.5	427
4	A critical review on sustainable biochar system through gasification: Energy and environmental applications. <i>Bioresource Technology</i> , 2017, 246, 242-253.	4.8	263
5	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. <i>Chemical Engineering Journal</i> , 2017, 328, 246-273.	6.6	196
6	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. <i>Bioresource Technology</i> , 2019, 291, 121878.	4.8	177
7	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018, 252, 76-82.	4.8	132
8	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. <i>Bioresource Technology</i> , 2017, 237, 222-230.	4.8	121
9	Recycling contaminated wood into eco-friendly particleboard using green cement and carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2016, 137, 861-870.	4.6	116
10	Value-added recycling of construction waste wood into noise and thermal insulating cement-bonded particleboards. <i>Construction and Building Materials</i> , 2016, 125, 316-325.	3.2	106
11	Valorization of cellulosic food waste into levulinic acid catalyzed by heterogeneous Brønsted acids: Temperature and solvent effects. <i>Chemical Engineering Journal</i> , 2017, 327, 328-335.	6.6	99
12	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. <i>Bioresource Technology</i> , 2016, 219, 338-347.	4.8	98
13	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. <i>Chemosphere</i> , 2017, 176, 315-323.	4.2	93
14	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018, 314, 52-61.	2.2	92
15	Selective Glucose Isomerization to Fructose via a Nitrogen-doped Solid Base Catalyst Derived from Spent Coffee Grounds. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16113-16120.	3.2	86
16	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. <i>Journal of Hazardous Materials</i> , 2020, 383, 121243.	6.5	75
17	Polar aprotic solvent-water mixture as the medium for catalytic production of hydroxymethylfurfural (HMF) from bread waste. <i>Bioresource Technology</i> , 2017, 245, 456-462.	4.8	71
18	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6990-7001.	3.2	63

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19	Tin-Functionalized Wood Biochar as a Sustainable Solid Catalyst for Glucose Isomerization in Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4851-4860.	3.2	59
20	Valorization of starchy, cellulosic, and sugary food waste into hydroxymethylfurfural by one-pot catalysis. <i>Chemosphere</i> , 2017, 184, 1099-1107.	4.2	58
21	Valorization of lignocellulosic fibres of paper waste into levulinic acid using solid and aqueous Brønsted acid. <i>Bioresource Technology</i> , 2018, 247, 387-394.	4.8	55
22	Aging effects on chemical transformation and metal(loid) removal by entrapped nanoscale zero-valent iron for hydraulic fracturing wastewater treatment. <i>Science of the Total Environment</i> , 2018, 615, 498-507.	3.9	55
23	Potential impact of flowback water from hydraulic fracturing on agricultural soil quality: Metal/metalloid bioaccessibility, Microtox bioassay, and enzyme activities. <i>Science of the Total Environment</i> , 2017, 579, 1419-1426.	3.9	54
24	Microwave-assisted depolymerization of various types of waste lignins over two-dimensional CuO/BCN catalysts. <i>Green Chemistry</i> , 2020, 22, 725-736.	4.6	52
25	CO <sub>2</sub> curing and fibre reinforcement for green recycling of contaminated wood into high-performance cement-bonded particleboards. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 18, 107-116.	3.3	47
26	Chemical transformation of food and beverage waste-derived fructose to hydroxymethylfurfural as a value-added product. <i>Catalysis Today</i> , 2018, 314, 70-77.	2.2	47
27	Selective hydrogenation of furfural to tetrahydrofurfuryl alcohol over a Rh-loaded carbon catalyst in aqueous solution under mild conditions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 293-301.	2.5	47
28	Removal of chlorinated organic solvents from hydraulic fracturing wastewater by bare and entrapped nanoscale zero-valent iron. <i>Chemosphere</i> , 2018, 196, 9-17.	4.2	45
29	De Novo synthesis of platinum-nanoparticle-encapsulated UiO-66-NH <sub>2</sub> for photocatalytic thin film fabrication with enhanced performance of phenol degradation. <i>Journal of Hazardous Materials</i> , 2020, 397, 122431.	6.5	44
30	Effect of Solvent, Role of Formic Acid and Rh/C Catalyst for the Efficient Liquefaction of Lignin. <i>ChemCatChem</i> , 2019, 11, 4604-4616.	1.8	43
31	Synthesis of zeolite A using sewage sludge ash for application in warm mix asphalt. <i>Journal of Cleaner Production</i> , 2018, 172, 686-695.	4.6	41
32	Assessment of agricultural waste-derived activated carbon in multiple applications. <i>Environmental Research</i> , 2020, 191, 110176.	3.7	34
33	Zero-valent iron for the abatement of arsenate and selenate from flowback water of hydraulic fracturing. <i>Chemosphere</i> , 2017, 167, 163-170.	4.2	33
34	Insights into the subsurface transport of As(V) and Se(VI) in produced water from hydraulic fracturing using soil samples from Qingshankou Formation, Songliao Basin, China. <i>Environmental Pollution</i> , 2017, 223, 449-456.	3.7	25
35	Sorption, mobility, and bioavailability of PBDEs in the agricultural soils: Roles of co-existing metals, dissolved organic matter, and fertilizers. <i>Science of the Total Environment</i> , 2018, 619-620, 1153-1162.	3.9	23
36	Supercritical Carbon Dioxide Extraction of Value-Added Products and Thermochemical Synthesis of Platform Chemicals from Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2821-2829.	3.2	23

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37	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. <i>Journal of Cleaner Production</i> , 2019, 212, 420-427.	4.6	23
38	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. <i>Journal of Cleaner Production</i> , 2021, 280, 124418.	4.6	22
39	Valorization of biomass from plant microbial fuel cells into levulinic acid by using liquid/solid acids and green solvents. <i>Journal of Cleaner Production</i> , 2020, 260, 121097.	4.6	20
40	Sustainability likelihood of remediation options for metal-contaminated soil/sediment. <i>Chemosphere</i> , 2017, 174, 421-427.	4.2	19
41	Effect of N <sub>2</sub> flow rate on kinetic investigation of lignin pyrolysis. <i>Environmental Research</i> , 2020, 190, 109976.	3.7	19
42	Catalytically active interfaces in titania nanorod-supported copper catalysts for CO oxidation. <i>Nano Research</i> , 2020, 13, 533-542.	5.8	18
43	Enhancing anti-microbial properties of wood-plastic composites produced from timber and plastic wastes. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12227-12237.	2.7	16
44	Engineered Nitrogen-Decorated Carbon Networks for the Metal-Free Catalytic Isomerization of Glucose to Fructose. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16959-16963.	3.2	12
45	Synthesis of MOF525/PEDOT Composites as Microelectrodes for Electrochemical Sensing of Dopamine. <i>Polymers</i> , 2020, 12, 1976.	2.0	12