

# Hocheol Song

## List of Publications by Year in descending order

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108  
papers

7,839  
citations

38660

50  
h-index

53109

85  
g-index

108  
all docs

108  
docs citations

108  
times ranked

8352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 675-726.	6.6	196
2	Valorization of hazardous COVID-19 mask waste while minimizing hazardous byproducts using catalytic gasification. <i>Journal of Hazardous Materials</i> , 2022, 423, 127222.	6.5	33
3	Synergistic effects of blending seafood wastes as Co-pyrolysis feedstock on syngas production and biochar properties. <i>Chemical Engineering Journal</i> , 2022, 429, 132487.	6.6	11
4	Co-pyrolysis route of chlorella sp. and bauxite tailings to fabricate metal-biochar as persulfate activator. <i>Chemical Engineering Journal</i> , 2022, 428, 132578.	6.6	29
5	Valorizing plastic toy wastes to flammable gases through CO <sub>2</sub> -mediated pyrolysis with a Co-based catalyst. <i>Journal of Hazardous Materials</i> , 2022, 434, 128850.	6.5	3
6	Removal of toxic elements from aqueous environments using nano zero-valent iron- and iron oxide-modified biochar: a review. <i>Biochar</i> , 2022, 4, 1.	6.2	54
7	Sustainable valorization of styrofoam and CO <sub>2</sub> into syngas. <i>Science of the Total Environment</i> , 2022, 834, 155384.	3.9	5
8	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
9	Sustainable Valorization of E-Waste Plastic through Catalytic Pyrolysis Using CO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8443-8451.	3.2	8
10	Recyclable aqueous metal adsorbent: Synthesis and Cu(II) sorption characteristics of ternary nanocomposites of Fe <sub>3</sub> O <sub>4</sub> nanoparticles@graphene/poly-N-phenylglycine nanofibers. <i>Journal of Hazardous Materials</i> , 2021, 401, 123283.	6.5	28
11	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. <i>Chemical Engineering Journal</i> , 2021, 406, 126782.	6.6	119
12	Recycling of a spent alkaline battery as a catalyst for the total oxidation of hydrocarbons. <i>Journal of Hazardous Materials</i> , 2021, 403, 123929.	6.5	13
13	Valorization of plastics and goethite into iron-carbon composite as persulfate activator for amaranth oxidation. <i>Chemical Engineering Journal</i> , 2021, 407, 127188.	6.6	15
14	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021, 289, 125142.	4.6	56
15	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. <i>Journal of Hazardous Materials</i> , 2021, 408, 124850.	6.5	37
16	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. <i>Journal of Hazardous Materials</i> , 2021, 407, 124344.	6.5	150
17	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021, 329, 124870.	4.8	79
18	Ambient NO <sub>2</sub> adsorption removal by Mg/Al layered double hydroxides and derived mixed metal oxides. <i>Journal of Cleaner Production</i> , 2021, 313, 127956.	4.6	25

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19	Tuneable functionalities in layered double hydroxide catalysts for thermochemical conversion of biomass-derived glucose to fructose. <i>Chemical Engineering Journal</i> , 2020, 383, 122914.	6.6	28
20	Tailoring acidity and porosity of alumina catalysts via transition metal doping for glucose conversion in biorefinery. <i>Science of the Total Environment</i> , 2020, 704, 135414.	3.9	13
21	Efficient removal of diclofenac and cephalexin from aqueous solution using <i>Anthriscus sylvestris</i> -derived activated biochar. <i>Science of the Total Environment</i> , 2020, 745, 140789.	3.9	58
22	Facile synthesis of polyoxometalate-modified metal organic frameworks for eliminating tetrabromobisphenol-A from water. <i>Journal of Hazardous Materials</i> , 2020, 399, 122946.	6.5	14
23	Valorization of plastics and paper mill sludge into carbon composite and its catalytic performance for acarbon material consisted of the multi-layerzo dye oxidation. <i>Journal of Hazardous Materials</i> , 2020, 398, 123173.	6.5	16
24	Adsorption of As(V) and Ni(II) by Fe-Biochar composite fabricated by co-pyrolysis of orange peel and red mud. <i>Environmental Research</i> , 2020, 188, 109809.	3.7	59
25	A review of recent advancements in utilization of biomass and industrial wastes into engineered biochar. <i>Journal of Hazardous Materials</i> , 2020, 400, 123242.	6.5	149
26	Soil contamination by potentially toxic elements and the associated human health risk in geo- and anthropogenic contaminated soils: A case study from the temperate region (Germany) and the arid region (Egypt). <i>Environmental Pollution</i> , 2020, 262, 114312.	3.7	77
27	Zirconia-Assisted Pyrolysis of Coffee Waste in CO <sub>2</sub> Environment for the Simultaneous Production of Fuel Gas and Composite Adsorbent. <i>Journal of Hazardous Materials</i> , 2020, 386, 121989.	6.5	13
28	Influence of humic acid on the long-term performance of direct contact membrane distillation. <i>Energy and Environment</i> , 2019, 30, 109-120.	2.7	11
29	Coupling carbon dioxide and magnetite for the enhanced thermolysis of polyvinyl chloride. <i>Science of the Total Environment</i> , 2019, 696, 133951.	3.9	15
30	Enhancement of syngas for H <sub>2</sub> production via catalytic pyrolysis of orange peel using CO <sub>2</sub> and bauxite residue. <i>Applied Energy</i> , 2019, 254, 113803.	5.1	20
31	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. <i>Environment International</i> , 2019, 133, 105247.	4.8	91
32	Catalytic pyrolysis of low-rank coal using Fe-carbon composite as a catalyst. <i>Energy Conversion and Management</i> , 2019, 199, 111978.	4.4	20
33	Catalytic thermolysis of oak sawdust using Fe-based catalyst and CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 32, 269-275.	3.3	17
34	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. <i>Journal of Hazardous Materials</i> , 2019, 374, 412-419.	6.5	188
35	A review on functional polymer-clay based nanocomposite membranes for treatment of water. <i>Journal of Hazardous Materials</i> , 2019, 379, 120584.	6.5	104
36	Production of bioplastic through food waste valorization. <i>Environment International</i> , 2019, 127, 625-644.	4.8	328

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37	Pyrolysis of aquatic carbohydrates using CO <sub>2</sub> as reactive gas medium: A case study of chitin. <i>Energy</i> , 2019, 177, 136-143.	4.5	17
38	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of H <sub>2</sub> O <sub>2</sub> and K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> in the presence of halide ions. <i>Science of the Total Environment</i> , 2019, 664, 312-321.	3.9	92
39	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. <i>Green Chemistry</i> , 2019, 21, 1267-1281.	4.6	157
40	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. <i>Environmental Pollution</i> , 2019, 247, 410-420.	3.7	145
41	Synthesis of functionalised biochar using red mud, lignin, and carbon dioxide as raw materials. <i>Chemical Engineering Journal</i> , 2019, 361, 1597-1604.	6.6	68
42	Engineered biochar composite fabricated from red mud and lipid waste and synthesis of biodiesel using the composite. <i>Journal of Hazardous Materials</i> , 2019, 366, 293-300.	6.5	31
43	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019, 337, 536-554.	2.3	571
44	Preparation of nitrogen-doped Cu-biochar and its application into catalytic reduction of p-nitrophenol. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1729-1737.	1.8	25
45	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018, 314, 52-61.	2.2	92
46	Propylene carbonate and $\gamma$ -valerolactone as green solvents enhance Sn(IV)-catalysed hydroxymethylfurfural (HMF) production from bread waste. <i>Green Chemistry</i> , 2018, 20, 2064-2074.	4.6	85
47	Biochar influences soil carbon pools and facilitates interactions with soil: A field investigation. <i>Land Degradation and Development</i> , 2018, 29, 2162-2171.	1.8	89
48	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018, 252, 76-82.	4.8	132
49	The potential value of biochar in the mitigation of gaseous emission of nitrogen. <i>Science of the Total Environment</i> , 2018, 612, 257-268.	3.9	69
50	Synthesis of cobalt-impregnated carbon composite derived from a renewable resource: Characterization and catalytic performance evaluation. <i>Science of the Total Environment</i> , 2018, 612, 103-110.	3.9	40
51	Fabrication of Fe/Mn oxide composite adsorbents for adsorptive removal of zinc and phosphate. <i>Journal of Soils and Sediments</i> , 2018, 18, 946-956.	1.5	14
52	Contrasting Roles of Maleic Acid in Controlling Kinetics and Selectivity of Sn(IV)- and Cr(III)-Catalyzed Hydroxymethylfurfural Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14264-14274.	3.2	28
53	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
54	Biowaste for environmental remediation and sustainable waste management. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2155-2155.	2.1	0

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55	Thermochemical conversion of cobalt-loaded spent coffee grounds for production of energy resource and environmental catalyst. <i>Bioresource Technology</i> , 2018, 270, 346-351.	4.8	33
56	Photo-Fenton abatement of aqueous organics using metal-organic frameworks: An advancement from benchmark zeolite. <i>Science of the Total Environment</i> , 2018, 644, 389-397.	3.9	17
57	Phosphoric acid-activated wood biochar for catalytic conversion of starch-rich food waste into glucose and 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2018, 267, 242-248.	4.8	114
58	Effect of Mn substitution on the oxidation/adsorption abilities of iron(III) oxyhydroxides. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2201-2208.	2.1	7
59	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. <i>Bioresource Technology</i> , 2018, 269, 465-475.	4.8	298
60	Contribution of pyrolytic gas medium to the fabrication of co-impregnated biochar. <i>Journal of CO2 Utilization</i> , 2018, 26, 476-486.	3.3	17
61	N doped cobalt-carbon composite for reduction of p-nitrophenol and pendimethaline. <i>Journal of Alloys and Compounds</i> , 2017, 703, 118-124.	2.8	49
62	Metal organic framework derived Cu carbon composite: An efficient non-noble metal catalyst for reduction of hexavalent chromium and pendimethalin. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 331-337.	2.9	32
63	Multi-metal resistance and plant growth promotion potential of a wastewater bacterium <i>Pseudomonas aeruginosa</i> and its synergistic benefits. <i>Environmental Geochemistry and Health</i> , 2017, 39, 1583-1593.	1.8	35
64	Simultaneous production of syngas and magnetic biochar via pyrolysis of paper mill sludge using CO <sub>2</sub> as reaction medium. <i>Energy Conversion and Management</i> , 2017, 145, 1-9.	4.4	80
65	Reduction of Bromate by Cobalt-Impregnated Biochar Fabricated via Pyrolysis of Lignin Using CO <sub>2</sub> as a Reaction Medium. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 13142-13150.	4.0	50
66	Co-pyrolysis of paper mill sludge and spend coffee ground using CO <sub>2</sub> as reaction medium. <i>Journal of CO2 Utilization</i> , 2017, 21, 572-579.	3.3	31
67	Fabrication of magnetic biochar as a treatment medium for As(V) via pyrolysis of FeCl <sub>3</sub> -pretreated spent coffee ground. <i>Environmental Pollution</i> , 2017, 229, 942-949.	3.7	92
68	Fabrication of engineered biochar from paper mill sludge and its application into removal of arsenic and cadmium in acidic water. <i>Bioresource Technology</i> , 2017, 246, 69-75.	4.8	129
69	Treatment of Simulated Coalbed Methane Produced Water Using Direct Contact Membrane Distillation. <i>Water (Switzerland)</i> , 2016, 8, 194.	1.2	9
70	Preparation of Calcined Zirconia-Carbon Composite from Metal Organic Frameworks and Its Application to Adsorption of Crystal Violet and Salicylic Acid. <i>Materials</i> , 2016, 9, 261.	1.3	33
71	Reduction of p-nitrophenol by magnetic Co-carbon composites derived from metal organic frameworks. <i>Chemical Engineering Journal</i> , 2016, 298, 183-190.	6.6	194
72	Catalytic decoloration of commercial azo dyes by copper-carbon composites derived from metal organic frameworks. <i>Journal of Alloys and Compounds</i> , 2016, 689, 625-631.	2.8	49

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73	Fabrication of a novel magnetic carbon nanocomposite adsorbent via pyrolysis of sugar. <i>Chemosphere</i> , 2016, 163, 305-312.	4.2	34
74	Use of carbon dioxide as a reaction medium in the thermo-chemical process for the enhanced generation of syngas and tuning adsorption ability of biochar. <i>Energy Conversion and Management</i> , 2016, 117, 106-114.	4.4	30
75	Synthesis of hydrous zirconium oxide-impregnated chitosan beads and their application for removal of fluoride and lead. <i>Applied Surface Science</i> , 2016, 372, 13-19.	3.1	58
76	Reduction of Nitrate in Groundwater by Fe(0)/Magnetite Nanoparticles Entrapped in Ca-Alginate Beads. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	1.1	27
77	Efficiency assessment of cascade aerator in a passive treatment system for Fe(II) oxidation in ferruginous mine drainage of net alkaline. <i>Environmental Earth Sciences</i> , 2015, 73, 5363-5373.	1.3	11
78	Magnetic chitosan composite for adsorption of cationic and anionic dyes in aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 60-66.	2.9	154
79	Carbon dioxide assisted sustainability enhancement of pyrolysis of waste biomass: A case study with spent coffee ground. <i>Bioresource Technology</i> , 2015, 189, 1-6.	4.8	81
80	The influences of the amount of organic substrate on the performance of pilot-scale passive bioreactors for acid mine drainage treatment. <i>Environmental Earth Sciences</i> , 2015, 73, 4717-4727.	1.3	26
81	Evaluation of phosphate fertilizers and red mud in reducing plant availability of Cd, Pb, and Zn in mine tailings. <i>Environmental Earth Sciences</i> , 2015, 74, 2659-2668.	1.3	30
82	Effects of Heavy Metals on Biodegradation of Fluorene by a <i>Spingobacterium</i> sp. Strain (KM-02) Isolated from Polycyclic Aromatic Hydrocarbon-Contaminated Mine Soil. <i>Environmental Engineering Science</i> , 2015, 32, 891-898.	0.8	23
83	Photoautotrophic hydrogen production by eukaryotic microalgae under aerobic conditions. <i>Nature Communications</i> , 2014, 5, 3234.	5.8	92
84	Review of biotreatment techniques for volatile sulfur compounds with an emphasis on dimethyl sulfide. <i>Process Biochemistry</i> , 2014, 49, 1543-1554.	1.8	51
85	The effect of granular ferric hydroxide amendment on the reduction of nitrate in groundwater by zero-valent iron. <i>Chemosphere</i> , 2013, 93, 2767-2773.	4.2	21
86	The effects of selected preoxidation strategies on I-THM formation and speciation. <i>Water Research</i> , 2012, 46, 5491-5498.	5.3	37
87	The impact of bromide/iodide concentration and ratio on iodinated trihalomethane formation and speciation. <i>Water Research</i> , 2012, 46, 11-20.	5.3	96
88	Pilot-scale passive bioreactors for the treatment of acid mine drainage: Efficiency of mushroom compost vs. mixed substrates for metal removal. <i>Journal of Environmental Management</i> , 2012, 111, 150-158.	3.8	46
89	A novel chitosan/clay/magnetite composite for adsorption of Cu(II) and As(V). <i>Chemical Engineering Journal</i> , 2012, 200-202, 654-662.	6.6	152
90	The effects of pH, bromide and nitrite on halonitromethane and trihalomethane formation from amino acids and amino sugars. <i>Chemosphere</i> , 2012, 86, 323-328.	4.2	73

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91	Enhancement of fermentative bioenergy (ethanol/hydrogen) production using ultrasonication of <i>Scenedesmus obliquus</i> YSW15 cultivated in swine wastewater effluent. <i>Energy and Environmental Science</i> , 2011, 4, 3513.	15.6	82
92	I-THM Formation and Speciation: Preformed Monochloramine versus Prechlorination Followed by Ammonia Addition. <i>Environmental Science &amp; Technology</i> , 2011, 45, 10429-10437.	4.6	69
93	Enhanced Reduction of Nitrate in Groundwater by Zero-valent Iron with Activated Red Mud. <i>Geosystem Engineering</i> , 2011, 14, 65-70.	0.7	8
94	Adsorption of nitrate and Cr(VI) by cationic polymer-modified granular activated carbon. <i>Chemical Engineering Journal</i> , 2011, 175, 298-305.	6.6	112
95	Perchlorate removal from aqueous solutions by granular ferric hydroxide (GFH). <i>Chemical Engineering Journal</i> , 2010, 159, 84-90.	6.6	63
96	Comparative Analysis of Halonitromethane and Trihalomethane Formation and Speciation in Drinking Water: The Effects of Disinfectants, pH, Bromide, and Nitrite. <i>Environmental Science &amp; Technology</i> , 2010, 44, 794-799.	4.6	112
97	Halonitromethane formation potentials in drinking waters. <i>Water Research</i> , 2010, 44, 105-114.	5.3	148
98	Halonitromethanes formation in wastewater treatment plant effluents. <i>Chemosphere</i> , 2010, 79, 174-179.	4.2	49
99	Isolation and fractionation of natural organic matter: evaluation of reverse osmosis performance and impact of fractionation parameters. <i>Environmental Monitoring and Assessment</i> , 2009, 153, 307-321.	1.3	31
100	Defluoridation from aqueous solutions by granular ferric hydroxide (GFH). <i>Water Research</i> , 2009, 43, 490-498.	5.3	259
101	Catalytic hydrodechlorination of chlorinated ethenes by nanoscale zero-valent iron. <i>Applied Catalysis B: Environmental</i> , 2008, 78, 53-60.	10.8	86
102	Amendment of hydroxyapatite in reduction of tetrachloroethylene by zero-valent zinc: Its rate enhancing effect and removal of Zn(II). <i>Chemosphere</i> , 2008, 73, 1420-1427.	4.2	28
103	HAA Formation and Speciation during Chloramination. <i>ACS Symposium Series</i> , 2008, , 124-140.	0.5	2
104	Effects of quenching methods on HAA determination in chloraminated waters. <i>Journal - American Water Works Association</i> , 2008, 100, 89-99.	0.2	13
105	Effect of amorphous silica and silica sand on removal of chromium(VI) by zero-valent iron. <i>Chemosphere</i> , 2007, 66, 858-865.	4.2	122
106	HAA formation during chloramination—significance of monochloramine's direct reaction with DOM. <i>Journal - American Water Works Association</i> , 2007, 99, 57-69.	0.2	47
107	Reduction of Chlorinated Methanes by Nano-Sized Zero-Valent Iron. <i>Kinetics, Pathways, and Effect of Reaction Conditions. Environmental Engineering Science</i> , 2006, 23, 272-284.	0.8	53
108	Reduction of Chlorinated Ethanes by Nanosized Zero-Valent Iron: Kinetics, Pathways, and Effects of Reaction Conditions. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6237-6245.	4.6	328