Tengfei Wang

List of Publications by Year
in descending order

67	3,616	218677	138484
papers	citations	26 h-index	58 g-index

67	67	67	2952
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A review of the hydrothermal carbonization of biomass waste for hydrochar formation: Process conditions, fundamentals, and physicochemical properties. Renewable and Sustainable Energy Reviews, 2018, 90, 223-247.	16.4	803
2	Production of char from sewage sludge employing hydrothermal carbonization: Char properties, combustion behavior and thermal characteristics. Fuel, 2016, 176, 110-118.	6.4	306
3	Valorization of hydrothermal liquefaction aqueous phase: pathways towards commercial viability. Progress in Energy and Combustion Science, 2020, 77, 100819.	31.2	204
4	A review on airborne microorganisms in particulate matters: Composition, characteristics and influence factors. Environment International, 2018, 113, 74-90.	10.0	187
5	Influence of temperature on nitrogen fate during hydrothermal carbonization of food waste. Bioresource Technology, 2018, 247, 182-189.	9.6	163
6	Hydrothermal carbonisation of sewage sludge for char production with different waste biomass: Effects of reaction temperature and energy recycling. Energy, 2017, 127, 167-174.	8.8	131
7	Hydrothermal carbonization of sewage sludge: The effect of feed-water pH on fate and risk of heavy metals in hydrochars. Bioresource Technology, 2016, 218, 183-188.	9.6	128
8	Feedwater pH affects phosphorus transformation during hydrothermal carbonization of sewage sludge. Bioresource Technology, 2017, 245, 182-187.	9.6	107
9	Co-hydrothermal carbonization of food waste-woody biomass blend towards biofuel pellets production. Bioresource Technology, 2018, 267, 371-377.	9.6	88
10	Evaluation of the clean characteristics and combustion behavior of hydrochar derived from food waste towards solid biofuel production. Bioresource Technology, 2018, 266, 275-283.	9.6	87
11	Hydrothermal carbonization of sewage sludge: Effect of feed-water pH on hydrocharâ€™s physicochemical properties, organic component and thermal behavior. Journal of Hazardous Materials, 2020, 388, 122084.	12.4	82
12	Biowaste hydrothermal carbonization for hydrochar valorization: Skeleton structure, conversion pathways and clean biofuel applications. Bioresource Technology, 2021, 324, 124686.	9.6	80
13	Investigation of the structure and reaction pathway of char obtained from sewage sludge with biomass wastes, using hydrothermal treatment. Journal of Cleaner Production, 2017, 166, 114-123.	9.3	79
14	Towards sustainable coal industry: Turning coal bottom ash into wealth. Science of the Total Environment, 2022, 804, 149985.	8.0	75
15	Production of fuel pellets via hydrothermal carbonization of food waste using molasses as a binder. Waste Management, 2018, 77, 185-194.	7.4	71
16	Effect of temperature on the sulfur fate during hydrothermal carbonization of sewage sludge. Environmental Pollution, 2020, 260, 114067.	7.5	64
17	Acetic Acid and Sodium Hydroxide-Aided Hydrothermal Carbonization of Woody Biomass for Enhanced Pelletization and Fuel Properties. Energy & Fuels, 2017, 31, 12200-12208.	5.1	61
18	Speciation and transformation of nitrogen for spirulina hydrothermal carbonization. Bioresource Technology, 2019, 286, 121385.	9.6	58

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19	Fabrication of bean dreg-derived carbon with high adsorption for methylene blue: Effect of hydrothermal pretreatment and pyrolysis process. Bioresource Technology, 2019, 274, 525-532.	9.6	54
20	Effect of sewage sludge hydrochar on soil properties and Cd immobilization in a contaminated soil. Chemosphere, 2017, 189, 627-633.	8.2	48
21	Co-hydrothermal carbonization of food waste-woody sawdust blend: Interaction effects on the hydrochar properties and nutrients characteristics. Bioresource Technology, 2020, 316, 123900.	9.6	45
22	An acid-stable bacterial laccase identified from the endophyte Pantoea ananatis Sd-1 genome exhibiting lignin degradation and dye decolorization abilities. Biotechnology Letters, 2015, 37, 2279-2288.	2.2	44
23	Bubble nucleation, micro-explosion and residue formation in superheated jatropha oil droplet: The phenomena of vapor plume and vapor cloud. Fuel, 2020, 261, 116431.	6.4	38
24	Spirulina hydrothermal carbonization: Effect on hydrochar properties and sulfur transformation. Bioresource Technology, 2020, 306, 123148.	9.6	36
25	Fe(II) activated persulfate assisted hydrothermal conversion of sewage sludge: Focusing on nitrogen transformation mechanism and removal effectiveness. Chemosphere, 2020, 244, 125473.	8.2	35
26	Breaking the Affinity Limit with Dual-Phase-Accessible Hotspot for Ultrahigh Raman Scattering of Nonadsorptive Molecules. Analytical Chemistry, 2020, 92, 6941-6948.	6.5	33
27	Physiological, biochemical and proteomic insight into integrated strategies of an endophytic bacterium Burkholderia cenocepacia strain YG-3 response to cadmium stress. Metallomics, 2019, 11, 1252-1264.	2.4	29
28	Nitrogen-doped porous carbon from Camellia oleifera shells with enhanced electrochemical performance. Materials Science and Engineering C, 2016, 61, 449-456.	7.3	27
29	Traffic-related heavy metals uptake by wild plants grow along two main highways in Hunan Province, China: effects of soil factors, accumulation ability, and biological indication potential. Environmental Science and Pollution Research, 2016, 23, 13368-13377.	5.3	26
30	In-depth comparison of morphology, microstructure, and pathway of char derived from sewage sludge and relevant model compounds. Waste Management, 2020, 102, 432-440.	7.4	23
31	Source Apportionment Coupled with Gas/Particle Partitioning Theory and Risk Assessment of Polycyclic Aromatic Hydrocarbons Associated with Size-Segregated Airborne Particulate Matter. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	20
32	Pelletizing of hydrochar biofuels with organic binders. Fuel, 2020, 280, 118659.	6.4	20
33	Persulfate assisted hydrothermal processing of spirulina for enhanced deoxidation carbonization. Bioresource Technology, 2021, 322, 124543.	9.6	20
34	Biocrude Oil from Algal Bloom Microalgae: A Novel Integration of Biological and Thermochemical Techniques. Environmental Science & Technology, 2021, 55, 1973-1983.	10.0	20
35	Towards transportation fuel production from food waste: Potential of biocrude oil distillates for gasoline, diesel, and jet fuel. Fuel, 2021, 301, 121028.	6.4	20
36	Low temperature co-pyrolysis of food waste with PVC-derived char: Products distributions, char properties and mechanism of bio-oil upgrading. Energy, 2021, 219, 119670.	8.8	18

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37	Glycyrrhizic Acid against Mycoplasma gallisepticum-Induced Inflammation and Apoptosis Through Suppressing the MAPK Pathway in Chickens. Journal of Agricultural and Food Chemistry, 2022, 70, 1996-2009.	5.2	18
38	What is the influence of the nitrogen-containing composition during hydrothermal carbonization of biomass? A new perspective from mimic feedstock. Bioresource Technology Reports, 2019, 5, 343-350.	2.7	17
39	Cloning and expression of a trehalose synthase from Pseudomonas putida KT2440 for the scale-up production of trehalose from maltose. Canadian Journal of Microbiology, 2014, 60, 599-604.	1.7	16
40	Phosphorus pollution control using waste-based adsorbents: Material synthesis, modification, and sustainability. Critical Reviews in Environmental Science and Technology, 2022, 52, 2023-2059.	12.8	16
41	Enhancing energy recovery via two stage co-fermentation of hydrothermal liquefaction aqueous phase and crude glycerol. Energy Conversion and Management, 2021, 231, 113855.	9.2	16
42	Development of a mobile, pilot scale hydrothermal liquefaction reactor: Food waste conversion product analysis and techno-economic assessment. Energy Conversion and Management: X, 2021, 10, 100076.	1.6	15
43	Distribution and Conversion of Polycyclic Aromatic Hydrocarbons during the Hydrothermal Treatment of Sewage Sludge. Energy & Fuels, 2017, 31, 9542-9549.	5.1	14
44	Load transfer and performance evaluation of piled beam-supported embankments. Acta Geotechnica, 2022, 17, 4145-4171.	5.7	14
45	Perchlorate catalysis reduction by benzalkonium chloride immobilized biomass carbon supported Re-Pd bimetallic cluster particle electrode. Chemical Engineering Journal, 2018, 348, 765-774.	12.7	13
46	Andrographolide attenuates Mycoplasma gallisepticum-induced inflammation and apoptosis by the JAK/PI3K/AKT signal pathway in the chicken lungs and primary alveolar type II epithelial cells. International Immunopharmacology, 2022, 109, 108819.	3.8	12
47	Solidâ€state fermentation of Moringa oleifera leaf meal using Bacillus pumilus <scp>CICC</scp> 10440. Journal of Chemical Technology and Biotechnology, 2017, 92, 2083-2089.	3.2	11
48	Effect of molasses binder on the pelletization of food waste hydrochar for enhanced biofuel pellets production. Sustainable Chemistry and Pharmacy, 2019, 14, 100183.	3.3	11
49	Recent advances of environmental pollutants detection via paperâ€based sensing strategy. Luminescence, 2021, 36, 1818-1836.	2.9	10
50	Fluorescence immunoassay rapid detection of 2019-nCoV antibody based on the fluorescence resonance energy transfer between graphene quantum dots and Ag@Au nanoparticle. Microchemical Journal, 2022, 173, 107046.	4.5	10
51	Monitoring of an instrumented geosynthetic-reinforced piled embankment with a triangular pile configuration. International Journal of Rail Transportation, 2023, 11, 69-91.	2.7	10
52	Flexible and conductive graphene-based fibers fabricated from pigment and TiO₂ PU dual coatings as a colored insulative shell structure. Journal of Materials Chemistry C, 2018, 6, 13261-13268.	5.5	8
53	Production of methane from biomass glycerol through coupling of steam reforming and methanation on Ni-Mn/Al2O3. Sustainable Chemistry and Pharmacy, 2019, 13, 100150.	3.3	8
54	Ultrafine Re/Pd nanoparticles on polydopamine modified carbon nanotubes for efficient perchlorate reduction and reusability. Journal of Colloid and Interface Science, 2020, 574, 122-130.	9.4	8

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55	Potential of removing Pb, Cd, and Cu from aqueous solutions using a novel modified ginkgo leaves biochar by simply one-step pyrolysis. Biomass Conversion and Biorefinery, 0, , 1.	4.6	8
56	Nitrogen distribution and evolution during persulfate assisted hydrothermal carbonization of spirulina. Bioresource Technology, 2021, 342, 125980.	9.6	8
57	Determination of organophosphate flame retardant tris(2â€chloroethyl)phosphine based on the luminolâ€“H₂O₂ chemiluminescence system. Luminescence, 2022, 37, 263-267.	2.9	8
58	The adsorption mechanisms of ClO₄^{â¯} onto highly graphited and hydrophobic porous carbonaceous materials from biomass. RSC Advances, 2016, 6, 93975-93984.	3.6	7
59	Simultaneous total organic carbon and humic acid removals for landfill leachate using subcritical water catalytic oxidation based on response surface methodology. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	5
60	Calculation for Frost Jacking Resistance of Single Helical Steel Piles in Cohesive Soils. Journal of Cold Regions Engineering - ASCE, 2021, 35, .	1.1	5
61	Ratiometric fluorescent probe for tetracycline detection based on waste printing paper. Luminescence, 2021, 36, 1553-1560.	2.9	5
62	Oxidative Tea Polyphenols Greatly Inhibit the Absorption of Atenolol. Frontiers in Pharmacology, 2016, 7, 192.	3.5	3
63	Study on three droplet sequential burning characteristics of coal direct liquefied diesel. AIP Advances, 2021, 11, 045034.	1.3	3
64	A finite volume-based model for the hydrothermal behavior of soil under freezeâ€“thaw cycles. PLoS ONE, 2021, 16, e0252680.	2.5	3
65	Evaluation of Glycyrrhizic Acid Therapeutic Effect and Safety in Mycoplasma gallisepticum (HS) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.3	3
66	Micro Morphology of Soot Particles Sampled from High Pressure Jet Flames of Diesel from Direct Coal Liquefaction. Journal of Thermal Science, 2022, 31, 2155-2170.	1.9	1
67	A New Diterpenoid from Isodon phyllostachys. Chemistry of Natural Compounds, 2021, 57, 315-318.	0.8	0