Jillian L Goldfarb

List of Publications by Year
in descending order

93 papers	3,436 citations	126907 33 h-index	161849 54 g-index
94 all docs	94 docs citations	94 times ranked	3291 citing authors

#	Article	IF	Citations
1	Enhancement of energy and combustion properties of hydrochar via citric acid catalysed secondary char production. Biomass Conversion and Biorefinery, 2023, 13, 10527-10538.	4.6	16
2	Enhancing pyrolysis gas and bio-oil formation through transition metals as in situ catalysts. Fuel, 2022, 308, 121900.	6.4	13
3	Effect of solvent and feedstock selection on primary and secondary chars produced via hydrothermal carbonization of food wastes. Bioresource Technology, 2022, 348, 126799.	9.6	34
4	Capturing the effects of particle heterogeneity on adsorption in a fixed bed. AICHE Journal, 2022, 68, .	3.6	2
5	Impact of Co-Hydrothermal carbonization of animal and agricultural waste on hydrocharsâ€™ soil amendment and solid fuel properties. Biomass and Bioenergy, 2022, 157, 106329.	5.7	27
6	Valorization of cow manure via hydrothermal carbonization for phosphorus recovery and adsorbents for water treatment. Journal of Environmental Management, 2022, 308, 114561.	7.8	26
7	Impact of Bentonite Clay on In Situ Pyrolysis vs. Hydrothermal Carbonization of Avocado Pit Biomass. Catalysts, 2022, 12, 655.	3.5	6
8	Enhancing cleaner biomass-coal co-combustion by pretreatment of wheat straw via washing versus hydrothermal carbonization. Journal of Cleaner Production, 2022, 366, 132991.	9.3	20
9	Valorization of cherry pits: Great Lakes agro-industrial waste to mediate Great Lakes water quality. Environmental Pollution, 2021, 270, 116073.	7.5	16
10	U.S. public support for biofuels tax credits: Cost frames, local fuel prices, and the moderating influence of partisanship. Energy Policy, 2021, 149, 112098.	8.8	5
11	Hydrothermal Carbonization of Lemon Peel Waste: Preliminary Results on the Effects of Temperature during Process Water Recirculation. Applied System Innovation, 2021, 4, 19.	4.6	15
12	Valorizing municipal solid waste via integrating hydrothermal carbonization and downstream extraction for biofuel production. Journal of Cleaner Production, 2021, 289, 125781.	9.3	39
13	Characterization and adsorption applications of composite biochars of clay minerals and biomass. Environmental Science and Pollution Research, 2021, 28, 44277-44287.	5.3	22
14	Process Water Recirculation during Hydrothermal Carbonization of Waste Biomass: Current Knowledge and Challenges. Energies, 2021, 14, 2962.	3.1	31
15	Integrated thermochemical conversion process for valorizing mixed agricultural and dairy waste to nutrient-enriched biochars and biofuels. Bioresource Technology, 2021, 328, 124765.	9.6	34
16	Synergistic effects of biomass building blocks on pyrolysis gas and bio-oil formation. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105100.	5.5	15
17	Beyond the First Dose â€” Covid-19 Vaccine Follow-through and Continued Protective Measures. New England Journal of Medicine, 2021, 385, 101-103.	27.0	24
18	Industrial-Scale Hydrothermal Carbonization of Agro-Industrial Digested Sludge: Filterability Enhancement and Phosphorus Recovery. Sustainability, 2021, 13, 9343.	3.2	24

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19	The Relationship between US Adultsâ€™ Misconceptions about COVID-19 Vaccines and Vaccination Preferences. Vaccines, 2021, 9, 901.	4.4	32
20	Metal leaching from antimicrobial cloth face masks intended to slow the spread of COVID-19. Scientific Reports, 2021, 11, 19216.	3.3	29
21	Production of upgraded biocrude from hydrothermal liquefaction using clays as in situ catalysts. Energy Conversion and Management, 2021, 247, 114764.	9.2	11
22	Manipulating Dendritic Growth: An Undergraduate Laboratory Experience with the Interplay between Mass Transport, Supersaturated Solutions, and Dendrite Structure. Journal of Chemical Education, 2020, 97, 503-508.	2.3	0
23	Sustainable hydrocarbon fuels via â€œone-potâ€•catalytic deoxygenation of waste cooking oil using inexpensive, unsupported metal oxide catalysts. Fuel, 2020, 263, 116750.	6.4	29
24	Silver nitrate in situ upgrades pyrolysis biofuels from brewerâ€™s spent grain via biotemplating. Journal of Analytical and Applied Pyrolysis, 2020, 146, 104729.	5.5	10
25	Hydrothermal Carbonization as a Valuable Tool for Energy and Environmental Applications: A Review. Energies, 2020, 13, 4098.	3.1	106
26	Sustainable district energy integrating biomass peaking with geothermal baseload heating: A case study of decarbonizing Cornell's energy system. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	7
27	On the suitability of thermogravimetric balances for the study of biomass pyrolysis. Fuel, 2020, 276, 118069.	6.4	12
28	Hydrothermal Carbonization as a Strategy for Sewage Sludge Management: Influence of Process Withdrawal Point on Hydrochar Properties. Energies, 2020, 13, 2890.	3.1	42
29	Hydrothermal carbonization coupled with anaerobic digestion for the valorization of the organic fraction of municipal solid waste. Bioresource Technology, 2020, 314, 123734.	9.6	65
30	Impact of feed injection and batch processing methods in hydrothermal liquefaction. Journal of Supercritical Fluids, 2020, 164, 104887.	3.2	10
31	Reactivity of cellulose during hydrothermal carbonization of lignocellulosic biomass. Fuel Processing Technology, 2020, 206, 106456.	7.2	84
32	Metal-free activated biochar as an oxygen reduction reaction catalyst in single chamber microbial fuel cells. Journal of Power Sources, 2020, 462, 228183.	7.8	56
33	Public knowledge, contaminant concerns, and support for recycled Water in the United States. Resources, Conservation and Recycling, 2019, 150, 104419.	10.8	21
34	Free radicals formation on thermally decomposed biomass. Fuel, 2019, 255, 115802.	6.4	20
35	Demonstrating the suitability of canola residue biomass to biofuel conversion via pyrolysis through reaction kinetics, thermodynamics and evolved gas analyses. Bioresource Technology, 2019, 279, 67-73.	9.6	100
36	Ligands and media impact interactions between engineered nanomaterials and clay minerals. NanoImpact, 2019, 13, 112-122.	4.5	4

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37	Designing heterogeneous hierarchical material systems: a holistic approach to structural and materials design. MRS Communications, 2019, 9, 628-636.	1.8	10
38	Heterogeneous biochars from agriculture residues and coal fly ash for the removal of heavy metals from coking wastewater. RSC Advances, 2019, 9, 16018-16027.	3.6	7
39	Investigation of computational upscaling of adsorption of SO2 and CO2 in fixed bed columns. Adsorption, 2019, 25, 773-782.	3.0	3
40	Hydrothermal Carbonization Kinetics of Lignocellulosic Agro-Wastes: Experimental Data and Modeling. Energies, 2019, 12, 516.	3.1	70
41	Does hydrothermal carbonization as a biomass pretreatment reduce fuel segregation of coal-biomass blends during oxidation?. Energy Conversion and Management, 2019, 181, 93-104.	9.2	67
42	Solid waste to biofuels and heterogeneous sorbents via pyrolysis of wheat straw in the presence of fly ash as an in situ catalyst. Journal of Analytical and Applied Pyrolysis, 2019, 137, 96-105.	5.5	29
43	Invasive species or sustainable water filters? A student-led laboratory investigation into locally sourced biomass-based adsorbents for sustainable water treatment. Physical Sciences Reviews, 2019, 4, .	0.8	2
44	Modeling aqueous contaminant removal due to combined hydrolysis and adsorption: oxytetracycline in the presence of biomass-based activated carbons. Separation Science and Technology, 2019, 54, 705-721.	2.5	4
45	Spent coffee enhanced biomethane potential via an integrated hydrothermal carbonization-anaerobic digestion process. Bioresource Technology, 2018, 256, 102-109.	9.6	88
46	Enhancing biomassÂ+ coal Co-firing scenarios via biomass torrefaction and carbonization: Case study of avocado pit biomass and Illinois No. 6 coal. Renewable Energy, 2018, 122, 152-162.	8.9	31
47	Spatially resolved spectral determination of polysaccharides in hydrothermally carbonized biomass. Green Chemistry, 2018, 20, 1114-1120.	9.0	39
48	Valorizing municipal solid waste: Waste to energy and activated carbons for water treatment via pyrolysis. Journal of Analytical and Applied Pyrolysis, 2018, 133, 48-58.	5.5	61
49	Enhanced devolatilization during torrefaction of blended biomass streams results in additive heating values and synergistic oxidation behavior of solid fuels. Energy, 2018, 152, 1-12.	8.8	11
50	Hydrothermal carbonization of Opuntia ficus-indica cladodes: Role of process parameters on hydrochar properties. Bioresource Technology, 2018, 247, 310-318.	9.6	133
51	Assessment of bio-combustibles production via slow pyrolysis of wine industry residues. AIP Conference Proceedings, 2018, , .	0.4	2
52	One stage olive mill waste streams valorisation via hydrothermal carbonisation. Waste Management, 2018, 80, 224-234.	7.4	87
53	2. Invasive species or sustainable water filters? A student-led laboratory investigation into locally sourced biomass-based adsorbents for sustainable water treatment. , 2018, , 13-34.		0
54	Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary chars from the organic fraction of municipal solid waste. Fuel, 2018, 233, 257-268.	6.4	212

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55	In situ upgrading of pyrolysis biofuels by bentonite clay with simultaneous production of heterogeneous adsorbents for water treatment. Fuel, 2017, 195, 273-283.	6.4	34
56	Biomass-Based Fuels and Activated Carbon Electrode Materials: An Integrated Approach to Green Energy Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 3046-3054.	6.7	89
57	From olive waste to solid biofuel through hydrothermal carbonisation: The role of temperature and solid load on secondary char formation and hydrochar energy properties. Journal of Analytical and Applied Pyrolysis, 2017, 124, 63-72.	5.5	174
58	Porosity development and reactivity changes of coalâ€“biomass blends during co-pyrolysis at various temperatures. Journal of Analytical and Applied Pyrolysis, 2017, 124, 79-88.	5.5	47
59	Pyrolysis reaction models of waste tires: Application of Master-Plots method for energy conversion via devolatilization. Waste Management, 2017, 68, 405-411.	7.4	83
60	Improved prediction of higher heating value of biomass using an artificial neural network model based on proximate analysis. Bioresource Technology, 2017, 234, 122-130.	9.6	123
61	Building Public Support for Science Spending. Science Communication, 2017, 39, 77-100.	3.3	11
62	Costs, benefits, and the malleability of public support for â€œFrackingâ€ Energy Policy, 2017, 105, 407-417.	8.8	37
63	Integrating sustainable biofuel and silver nanomaterial production for in situ upgrading of cellulosic biomass pyrolysis. Energy Conversion and Management, 2017, 142, 143-152.	9.2	22
64	Renewable fuels from pyrolysis of Dunaliella tertiolecta: An alternative approach to biochemical conversions of microalgae. Energy, 2017, 120, 907-914.	8.8	43
65	Understanding Our Energy Footprint: Undergraduate Chemistry Laboratory Investigation of Environmental Impacts of Solid Fossil Fuel Wastes. Journal of Chemical Education, 2017, 94, 1124-1128.	2.3	9
66	Novel Integrated Biorefinery for Olive Mill Waste Management: Utilization of Secondary Waste for Water Treatment. ACS Sustainable Chemistry and Engineering, 2017, 5, 876-884.	6.7	39
67	Geographic proximity to coal plants and U.S. public support for extending the Production Tax Credit. Energy Policy, 2016, 99, 299-307.	8.8	12
68	Product quality optimization in an integrated biorefinery: Conversion of pistachio nutshell biomass to biofuels and activated biochars via pyrolysis. Energy Conversion and Management, 2016, 127, 576-588.	9.2	50
69	Sustainable waste mitigation: biotemplated nanostructured ZnO for photocatalytic water treatment via extraction of biofuels from hydrothermal carbonization of banana stalk. RSC Advances, 2016, 6, 92813-92823.	3.6	12
70	Improving the Environmental and Economic Viability of U.S. Oil Shale via Waste-to-Byproduct Conversion of Semicoke to Sorbents. Energy & Fuels, 2016, 30, 188-195.	5.1	10
71	An integrated biorefinery concept for olive mill waste management: supercritical CO₂extraction and energy recovery. Green Chemistry, 2015, 17, 2874-2887.	9.0	54
72	Second-generation sustainability: Application of the distributed activation energy model to the pyrolysis of locally sourced biomassâ€“coal blends for use in co-firing scenarios. Fuel, 2015, 160, 297-308.	6.4	36

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73	Green tide to green fuels: TGâ€"FTIR analysis and kinetic study of Ulva prolifera pyrolysis. Energy Conversion and Management, 2015, 101, 263-270.	9.2	78
74	Upgrade of citrus waste as a biofuel via slow pyrolysis. Journal of Analytical and Applied Pyrolysis, 2015, 115, 66-76.	5.5	77
75	Synergism among biomass building blocks? Evolved gas and kinetics analysis of starch and cellulose co-pyrolysis. Thermochimica Acta, 2015, 618, 36-47.	2.7	27
76	Co-combustion of brewer's spent grains and Illinois No. 6 coal: Impact of blend ratio on pyrolysis and oxidation behavior. Fuel Processing Technology, 2015, 129, 39-51.	7.2	52
77	Co-pyrolysis reaction rates and activation energies of West Virginia coal and cherry pit blends. Journal of Analytical and Applied Pyrolysis, 2014, 108, 203-211.	5.5	55
78	Models and Mechanisms to Explore the Global Oxidation Kinetics of Blends of feed corn stover and Illinois No. 6 Coal. Journal of Thermodynamics & Catalysis, 2014, 05, .	0.2	3
79	Oxidation Kinetics of Oil Shale Semicokes: Reactivity as a Function of Pyrolysis Temperature and Shale Origin. Energy & Fuels, 2013, 27, 666-672.	5.1	24
80	Impact of blend ratio on the co-firing of a commercial torrefied biomass and coal via analysis of oxidation kinetics. Bioresource Technology, 2013, 149, 208-215.	9.6	47
81	Review of Sublimation Thermodynamics of Polycyclic Aromatic Compounds and Heterocycles. Journal of Heterocyclic Chemistry, 2013, 50, 1243-1263.	2.6	12
82	Energy along Interstate I-95: Pyrolysis kinetics of Floridian cabbage palm (Sabal palmetto). Journal of Analytical and Applied Pyrolysis, 2012, 96, 78-85.	5.5	19
83	Heavy Metals in Colorado and Chinese Oil Shale Semicoke: Disposal Issues, Impediments to Byproduct Conversion. Energy & Fuels, 2011, 25, 3522-3529.	5.1	20
84	Deviations from ideal sublimation vapor pressure behavior in mixtures of polycyclic aromatic compounds with interacting heteroatoms. Journal of Chemical Thermodynamics, 2010, 42, 1009-1015.	2.0	1
85	Melting points and enthalpies of fusion of anthracene and its heteroatomic counterparts. Journal of Thermal Analysis and Calorimetry, 2010, 102, 1063-1070.	3.6	14
86	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique. Journal of Chemical Thermodynamics, 2010, 42, 781-786.	2.0	26
87	Characterization of Chinese, American and Estonian oil shale semicokes and their sorptive potential. Fuel, 2010, 89, 3300-3306.	6.4	64
88	The effect of halogen hetero-atoms on the vapor pressures and thermodynamics of polycyclic aromatic compounds measured via the Knudsen effusion technique. Journal of Chemical Thermodynamics, 2008, 40, 460-466.	2.0	24
89	Vapor pressures and thermodynamics of oxygenâ€containing polycyclic aromatic hydrocarbons measured using knudsen effusion. Environmental Toxicology and Chemistry, 2008, 27, 1244-1249.	4.3	43
90	Vapor Pressures and Enthalpies of Sublimation of Ten Polycyclic Aromatic Hydrocarbons Determined via the Knudsen Effusion Method. Journal of Chemical & Engineering Data, 2008, 53, 670-676.	1.9	83

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91	Raoult's Law and Its Application to Sublimation Vapor Pressures of Mixtures of Polycyclic Aromatic Hydrocarbons. Environmental Engineering Science, 2008, 25, 1429-1438.	1.6	10
92	VAPOR PRESSURES AND THERMODYNAMICS OF OXYGEN-CONTAINING POLYCYCLIC AROMATIC HYDROCARBONS MEASURED USING KNUDSEN EFFUSION. Environmental Toxicology and Chemistry, 2007, preprint, 1.	4.3	8
93	Clay-catalyzed in situ pyrolysis of cherry pits for upgraded biofuels and heterogeneous adsorbents as recoverable by-products. Biomass Conversion and Biorefinery, 0, , .	4.6	1