

Jillian L Goldfarb

List of Publications by Year in descending order

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93
papers

3,436
citations

126907

33
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161849

54
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94
docs citations

94
times ranked

3291
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of hydrothermal carbonization conditions on the formation of hydrochars and secondary chars from the organic fraction of municipal solid waste. <i>Fuel</i> , 2018, 233, 257-268.	6.4	212
2	From olive waste to solid biofuel through hydrothermal carbonisation: The role of temperature and solid load on secondary char formation and hydrochar energy properties. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 63-72.	5.5	174
3	Hydrothermal carbonization of <i>Opuntia ficus-indica</i> cladodes: Role of process parameters on hydrochar properties. <i>Bioresource Technology</i> , 2018, 247, 310-318.	9.6	133
4	Improved prediction of higher heating value of biomass using an artificial neural network model based on proximate analysis. <i>Bioresource Technology</i> , 2017, 234, 122-130.	9.6	123
5	Hydrothermal Carbonization as a Valuable Tool for Energy and Environmental Applications: A Review. <i>Energies</i> , 2020, 13, 4098.	3.1	106
6	Demonstrating the suitability of canola residue biomass to biofuel conversion via pyrolysis through reaction kinetics, thermodynamics and evolved gas analyses. <i>Bioresource Technology</i> , 2019, 279, 67-73.	9.6	100
7	Biomass-Based Fuels and Activated Carbon Electrode Materials: An Integrated Approach to Green Energy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3046-3054.	6.7	89
8	Spent coffee enhanced biomethane potential via an integrated hydrothermal carbonization-anaerobic digestion process. <i>Bioresource Technology</i> , 2018, 256, 102-109.	9.6	88
9	One stage olive mill waste streams valorisation via hydrothermal carbonisation. <i>Waste Management</i> , 2018, 80, 224-234.	7.4	87
10	Reactivity of cellulose during hydrothermal carbonization of lignocellulosic biomass. <i>Fuel Processing Technology</i> , 2020, 206, 106456.	7.2	84
11	Vapor Pressures and Enthalpies of Sublimation of Ten Polycyclic Aromatic Hydrocarbons Determined via the Knudsen Effusion Method. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 670-676.	1.9	83
12	Pyrolysis reaction models of waste tires: Application of Master-Plots method for energy conversion via devolatilization. <i>Waste Management</i> , 2017, 68, 405-411.	7.4	83
13	Green tide to green fuels: TG&FTIR analysis and kinetic study of <i>Ulva prolifera</i> pyrolysis. <i>Energy Conversion and Management</i> , 2015, 101, 263-270.	9.2	78
14	Upgrade of citrus waste as a biofuel via slow pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 115, 66-76.	5.5	77
15	Hydrothermal Carbonization Kinetics of Lignocellulosic Agro-Wastes: Experimental Data and Modeling. <i>Energies</i> , 2019, 12, 516.	3.1	70
16	Does hydrothermal carbonization as a biomass pretreatment reduce fuel segregation of coal-biomass blends during oxidation?. <i>Energy Conversion and Management</i> , 2019, 181, 93-104.	9.2	67
17	Hydrothermal carbonization coupled with anaerobic digestion for the valorization of the organic fraction of municipal solid waste. <i>Bioresource Technology</i> , 2020, 314, 123734.	9.6	65
18	Characterization of Chinese, American and Estonian oil shale semicokes and their sorptive potential. <i>Fuel</i> , 2010, 89, 3300-3306.	6.4	64

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19	Valorizing municipal solid waste: Waste to energy and activated carbons for water treatment via pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 133, 48-58.	5.5	61
20	Metal-free activated biochar as an oxygen reduction reaction catalyst in single chamber microbial fuel cells. <i>Journal of Power Sources</i> , 2020, 462, 228183.	7.8	56
21	Co-pyrolysis reaction rates and activation energies of West Virginia coal and cherry pit blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014, 108, 203-211.	5.5	55
22	An integrated biorefinery concept for olive mill waste management: supercritical CO ₂ extraction and energy recovery. <i>Green Chemistry</i> , 2015, 17, 2874-2887.	9.0	54
23	Co-combustion of brewer's spent grains and Illinois No. 6 coal: Impact of blend ratio on pyrolysis and oxidation behavior. <i>Fuel Processing Technology</i> , 2015, 129, 39-51.	7.2	52
24	Product quality optimization in an integrated biorefinery: Conversion of pistachio nutshell biomass to biofuels and activated biochars via pyrolysis. <i>Energy Conversion and Management</i> , 2016, 127, 576-588.	9.2	50
25	Impact of blend ratio on the co-firing of a commercial torrefied biomass and coal via analysis of oxidation kinetics. <i>Bioresource Technology</i> , 2013, 149, 208-215.	9.6	47
26	Porosity development and reactivity changes of coal-biomass blends during co-pyrolysis at various temperatures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 79-88.	5.5	47
27	Vapor pressures and thermodynamics of oxygen-containing polycyclic aromatic hydrocarbons measured using knudsen effusion. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1244-1249.	4.3	43
28	Renewable fuels from pyrolysis of <i>Dunaliella tertiolecta</i> : An alternative approach to biochemical conversions of microalgae. <i>Energy</i> , 2017, 120, 907-914.	8.8	43
29	Hydrothermal Carbonization as a Strategy for Sewage Sludge Management: Influence of Process Withdrawal Point on Hydrochar Properties. <i>Energies</i> , 2020, 13, 2890.	3.1	42
30	Novel Integrated Biorefinery for Olive Mill Waste Management: Utilization of Secondary Waste for Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 876-884.	6.7	39
31	Spatially resolved spectral determination of polysaccharides in hydrothermally carbonized biomass. <i>Green Chemistry</i> , 2018, 20, 1114-1120.	9.0	39
32	Valorizing municipal solid waste via integrating hydrothermal carbonization and downstream extraction for biofuel production. <i>Journal of Cleaner Production</i> , 2021, 289, 125781.	9.3	39
33	Costs, benefits, and the malleability of public support for "Fracking". <i>Energy Policy</i> , 2017, 105, 407-417.	8.8	37
34	Second-generation sustainability: Application of the distributed activation energy model to the pyrolysis of locally sourced biomass-coal blends for use in co-firing scenarios. <i>Fuel</i> , 2015, 160, 297-308.	6.4	36
35	In situ upgrading of pyrolysis biofuels by bentonite clay with simultaneous production of heterogeneous adsorbents for water treatment. <i>Fuel</i> , 2017, 195, 273-283.	6.4	34
36	Integrated thermochemical conversion process for valorizing mixed agricultural and dairy waste to nutrient-enriched biochars and biofuels. <i>Bioresource Technology</i> , 2021, 328, 124765.	9.6	34

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37	Effect of solvent and feedstock selection on primary and secondary chars produced via hydrothermal carbonization of food wastes. <i>Bioresource Technology</i> , 2022, 348, 126799.	9.6	34
38	The Relationship between US Adults' Misconceptions about COVID-19 Vaccines and Vaccination Preferences. <i>Vaccines</i> , 2021, 9, 901.	4.4	32
39	Enhancing biomass+ coal Co-firing scenarios via biomass torrefaction and carbonization: Case study of avocado pit biomass and Illinois No. 6 coal. <i>Renewable Energy</i> , 2018, 122, 152-162.	8.9	31
40	Process Water Recirculation during Hydrothermal Carbonization of Waste Biomass: Current Knowledge and Challenges. <i>Energies</i> , 2021, 14, 2962.	3.1	31
41	Solid waste to biofuels and heterogeneous sorbents via pyrolysis of wheat straw in the presence of fly ash as an in situ catalyst. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 137, 96-105.	5.5	29
42	Sustainable hydrocarbon fuels via Co^{2+} -catalytic deoxygenation of waste cooking oil using inexpensive, unsupported metal oxide catalysts. <i>Fuel</i> , 2020, 263, 116750.	6.4	29
43	Metal leaching from antimicrobial cloth face masks intended to slow the spread of COVID-19. <i>Scientific Reports</i> , 2021, 11, 19216.	3.3	29
44	Synergism among biomass building blocks? Evolved gas and kinetics analysis of starch and cellulose co-pyrolysis. <i>Thermochimica Acta</i> , 2015, 618, 36-47.	2.7	27
45	Impact of Co-Hydrothermal carbonization of animal and agricultural waste on hydrochars' soil amendment and solid fuel properties. <i>Biomass and Bioenergy</i> , 2022, 157, 106329.	5.7	27
46	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 781-786.	2.0	26
47	Valorization of cow manure via hydrothermal carbonization for phosphorus recovery and adsorbents for water treatment. <i>Journal of Environmental Management</i> , 2022, 308, 114561.	7.8	26
48	The effect of halogen hetero-atoms on the vapor pressures and thermodynamics of polycyclic aromatic compounds measured via the Knudsen effusion technique. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 460-466.	2.0	24
49	Oxidation Kinetics of Oil Shale Semicokes: Reactivity as a Function of Pyrolysis Temperature and Shale Origin. <i>Energy & Fuels</i> , 2013, 27, 666-672.	5.1	24
50	Beyond the First Dose – Covid-19 Vaccine Follow-through and Continued Protective Measures. <i>New England Journal of Medicine</i> , 2021, 385, 101-103.	27.0	24
51	Industrial-Scale Hydrothermal Carbonization of Agro-Industrial Digested Sludge: Filterability Enhancement and Phosphorus Recovery. <i>Sustainability</i> , 2021, 13, 9343.	3.2	24
52	Integrating sustainable biofuel and silver nanomaterial production for in situ upgrading of cellulosic biomass pyrolysis. <i>Energy Conversion and Management</i> , 2017, 142, 143-152.	9.2	22
53	Characterization and adsorption applications of composite biochars of clay minerals and biomass. <i>Environmental Science and Pollution Research</i> , 2021, 28, 44277-44287.	5.3	22
54	Public knowledge, contaminant concerns, and support for recycled Water in the United States. <i>Resources, Conservation and Recycling</i> , 2019, 150, 104419.	10.8	21

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55	Heavy Metals in Colorado and Chinese Oil Shale Semicoke: Disposal Issues, Impediments to Byproduct Conversion. <i>Energy & Fuels</i> , 2011, 25, 3522-3529.	5.1	20
56	Free radicals formation on thermally decomposed biomass. <i>Fuel</i> , 2019, 255, 115802.	6.4	20
57	Enhancing cleaner biomass-coal co-combustion by pretreatment of wheat straw via washing versus hydrothermal carbonization. <i>Journal of Cleaner Production</i> , 2022, 366, 132991.	9.3	20
58	Energy along Interstate I-95: Pyrolysis kinetics of Floridian cabbage palm (<i>Sabal palmetto</i>). <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 96, 78-85.	5.5	19
59	Valorization of cherry pits: Great Lakes agro-industrial waste to mediate Great Lakes water quality. <i>Environmental Pollution</i> , 2021, 270, 116073.	7.5	16
60	Enhancement of energy and combustion properties of hydrochar via citric acid catalysed secondary char production. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 10527-10538.	4.6	16
61	Hydrothermal Carbonization of Lemon Peel Waste: Preliminary Results on the Effects of Temperature during Process Water Recirculation. <i>Applied System Innovation</i> , 2021, 4, 19.	4.6	15
62	Synergistic effects of biomass building blocks on pyrolysis gas and bio-oil formation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105100.	5.5	15
63	Melting points and enthalpies of fusion of anthracene and its heteroatomic counterparts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 1063-1070.	3.6	14
64	Enhancing pyrolysis gas and bio-oil formation through transition metals as in situ catalysts. <i>Fuel</i> , 2022, 308, 121900.	6.4	13
65	Review of Sublimation Thermodynamics of Polycyclic Aromatic Compounds and Heterocycles. <i>Journal of Heterocyclic Chemistry</i> , 2013, 50, 1243-1263.	2.6	12
66	Geographic proximity to coal plants and U.S. public support for extending the Production Tax Credit. <i>Energy Policy</i> , 2016, 99, 299-307.	8.8	12
67	Sustainable waste mitigation: biotemplated nanostructured ZnO for photocatalytic water treatment via extraction of biofuels from hydrothermal carbonization of banana stalk. <i>RSC Advances</i> , 2016, 6, 92813-92823.	3.6	12
68	On the suitability of thermogravimetric balances for the study of biomass pyrolysis. <i>Fuel</i> , 2020, 276, 118069.	6.4	12
69	Building Public Support for Science Spending. <i>Science Communication</i> , 2017, 39, 77-100.	3.3	11
70	Enhanced devolatilization during torrefaction of blended biomass streams results in additive heating values and synergistic oxidation behavior of solid fuels. <i>Energy</i> , 2018, 152, 1-12.	8.8	11
71	Production of upgraded biocrude from hydrothermal liquefaction using clays as in situ catalysts. <i>Energy Conversion and Management</i> , 2021, 247, 114764.	9.2	11
72	Raoult's Law and Its Application to Sublimation Vapor Pressures of Mixtures of Polycyclic Aromatic Hydrocarbons. <i>Environmental Engineering Science</i> , 2008, 25, 1429-1438.	1.6	10

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73	Improving the Environmental and Economic Viability of U.S. Oil Shale via Waste-to-Byproduct Conversion of Semicoke to Sorbents. <i>Energy & Fuels</i> , 2016, 30, 188-195.	5.1	10
74	Designing heterogeneous hierarchical material systems: a holistic approach to structural and materials design. <i>MRS Communications</i> , 2019, 9, 628-636.	1.8	10
75	Silver nitrate in situ upgrades pyrolysis biofuels from brewer's spent grain via biotemplating. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 146, 104729.	5.5	10
76	Impact of feed injection and batch processing methods in hydrothermal liquefaction. <i>Journal of Supercritical Fluids</i> , 2020, 164, 104887.	3.2	10
77	Understanding Our Energy Footprint: Undergraduate Chemistry Laboratory Investigation of Environmental Impacts of Solid Fossil Fuel Wastes. <i>Journal of Chemical Education</i> , 2017, 94, 1124-1128.	2.3	9
78	VAPOR PRESSURES AND THERMODYNAMICS OF OXYGEN-CONTAINING POLYCYCLIC AROMATIC HYDROCARBONS MEASURED USING KNUDSEN EFFUSION. <i>Environmental Toxicology and Chemistry</i> , 2007, preprint, 1.	4.3	8
79	Heterogeneous biochars from agriculture residues and coal fly ash for the removal of heavy metals from coking wastewater. <i>RSC Advances</i> , 2019, 9, 16018-16027.	3.6	7
80	Sustainable district energy integrating biomass peaking with geothermal baseload heating: A case study of decarbonizing Cornell's energy system. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	2.0	7
81	Impact of Bentonite Clay on In Situ Pyrolysis vs. Hydrothermal Carbonization of Avocado Pit Biomass. <i>Catalysts</i> , 2022, 12, 655.	3.5	6
82	U.S. public support for biofuels tax credits: Cost frames, local fuel prices, and the moderating influence of partisanship. <i>Energy Policy</i> , 2021, 149, 112098.	8.8	5
83	Ligands and media impact interactions between engineered nanomaterials and clay minerals. <i>NanoImpact</i> , 2019, 13, 112-122.	4.5	4
84	Modeling aqueous contaminant removal due to combined hydrolysis and adsorption: oxytetracycline in the presence of biomass-based activated carbons. <i>Separation Science and Technology</i> , 2019, 54, 705-721.	2.5	4
85	Investigation of computational upscaling of adsorption of SO ₂ and CO ₂ in fixed bed columns. <i>Adsorption</i> , 2019, 25, 773-782.	3.0	3
86	Models and Mechanisms to Explore the Global Oxidation Kinetics of Blends of feed corn stover and Illinois No. 6 Coal. <i>Journal of Thermodynamics & Catalysis</i> , 2014, 05, .	0.2	3
87	Assessment of bio-combustibles production via slow pyrolysis of wine industry residues. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
88	Invasive species or sustainable water filters? A student-led laboratory investigation into locally sourced biomass-based adsorbents for sustainable water treatment. <i>Physical Sciences Reviews</i> , 2019, 4, .	0.8	2
89	Capturing the effects of particle heterogeneity on adsorption in a fixed bed. <i>AIChE Journal</i> , 2022, 68, .	3.6	2
90	Deviations from ideal sublimation vapor pressure behavior in mixtures of polycyclic aromatic compounds with interacting heteroatoms. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 1009-1015.	2.0	1

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91	Clay-catalyzed in situ pyrolysis of cherry pits for upgraded biofuels and heterogeneous adsorbents as recoverable by-products. <i>Biomass Conversion and Biorefinery</i> , 0, , .	4.6	1
92	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
93	Manipulating Dendritic Growth: An Undergraduate Laboratory Experience with the Interplay between Mass Transport, Supersaturated Solutions, and Dendrite Structure. <i>Journal of Chemical Education</i> , 2020, 97, 503-508.	2.3	0