

Douglas C Elliott

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3739786/douglas-c-elliott-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

7,193
citations

42
h-index

77
g-index

77
ext. papers

7,736
ext. citations

4.8
avg. IF

6.43
L-index

#	Paper	IF	Citations
74	Historical Developments in Hydroprocessing Bio-oils. <i>Energy & Fuels</i> , 2007 , 21, 1792-1815	4.1	1089
73	Hydrothermal liquefaction of biomass: developments from batch to continuous process. <i>Bioresource Technology</i> , 2015 , 178, 147-156	11	586
72	A review and perspective of recent bio-oil hydrotreating research. <i>Green Chemistry</i> , 2014 , 16, 491-515	10	362
71	Process development for hydrothermal liquefaction of algae feedstocks in a continuous-flow reactor. <i>Algal Research</i> , 2013 , 2, 445-454	5	341
70	Catalytic Hydroprocessing of Chemical Models for Bio-oil. <i>Energy & Fuels</i> , 2009 , 23, 631-637	4.1	302
69	Catalytic hydroprocessing of biomass fast pyrolysis bio-oil to produce hydrocarbon products. <i>Environmental Progress and Sustainable Energy</i> , 2009 , 28, 441-449	2.5	294
68	Catalytic hydrothermal gasification of biomass. <i>Biofuels, Bioproducts and Biorefining</i> , 2008 , 2, 254-265	5.3	290
67	Chemical processing in high-pressure aqueous environments. 2. Development of catalysts for gasification. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 1542-1548	3.9	245
66	Techno-economic analysis of liquid fuel production from woody biomass via hydrothermal liquefaction (HTL) and upgrading. <i>Applied Energy</i> , 2014 , 129, 384-394	10.7	239
65	State-of-the-art of fast pyrolysis in IEA bioenergy member countries. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 20, 619-641	16.2	223
64	Acidity of Biomass Fast Pyrolysis Bio-oils. <i>Energy & Fuels</i> , 2010 , 24, 6548-6554	4.1	202
63	Catalytic Hydroprocessing of Fast Pyrolysis Bio-oil from Pine Sawdust. <i>Energy & Fuels</i> , 2012 , 26, 3891-3896	4.1	165
62	Development of hydrothermal liquefaction and upgrading technologies for lipid-extracted algae conversion to liquid fuels. <i>Algal Research</i> , 2013 , 2, 455-464	5	122
61	Chemical Processing in High-Pressure Aqueous Environments. 8. Improved Catalysts for Hydrothermal Gasification. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 3776-3781	3.9	121
60	Norms, Standards, and Legislation for Fast Pyrolysis Bio-oils from Lignocellulosic Biomass. <i>Energy & Fuels</i> , 2015 , 29, 2471-2484	4.1	116
59	Chemical Processing in High-Pressure Aqueous Environments. 4. Continuous-Flow Reactor Process Development Experiments for Organics Destruction. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 566-574	3.9	108
58	Chemical Processing in high-pressure aqueous environments. 3. Batch reactor process development experiments for organics destruction. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 558-565	3.9	107

57	Analysis of Oxygenated Compounds in Hydrotreated Biomass Fast Pyrolysis Oil Distillate Fractions. <i>Energy & Fuels</i> , 2011 , 25, 5462-5471	4.1	101
56	Characterization of functionalized nanoporous supports for protein confinement. <i>Nanotechnology</i> , 2006 , 17, 5531-8	3.4	100
55	Conversion of biomass-derived syngas to alcohols and C2 oxygenates using supported Rh catalysts in a microchannel reactor. <i>Catalysis Today</i> , 2007 , 120, 90-95	5.3	97
54	Chemical Processing in High-Pressure Aqueous Environments. 7. Process Development for Catalytic Gasification of Wet Biomass Feedstocks. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1999-2004	9.2	92
53	Process Design and Economics for the Conversion of Algal Biomass to Hydrocarbons: Whole Algae Hydrothermal Liquefaction and Upgrading		92
52	Hydrothermal Processing of Macroalgal Feedstocks in Continuous-Flow Reactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 207-215	8.3	84
51	Review of recent reports on process technology for thermochemical conversion of whole algae to liquid fuels. <i>Algal Research</i> , 2016 , 13, 255-263	5	80
50	Chemical processing in high-pressure aqueous environments. 1. Historical perspective and continuing developments. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 1535-1541	3.9	78
49	Conversion of Biomass Syngas to DME Using a Microchannel Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 1722-1727	3.9	75
48	Aqueous catalyst systems for the water-gas shift reaction. 1. Comparative catalyst studies. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1983 , 22, 426-431		70
47	Hydrocarbon Liquid Production via Catalytic Hydroprocessing of Phenolic Oils Fractionated from Fast Pyrolysis of Red Oak and Corn Stover. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 892-902	8.3	66
46	Stabilization of Softwood-Derived Pyrolysis Oils for Continuous Bio-oil Hydroprocessing. <i>Topics in Catalysis</i> , 2016 , 59, 55-64	2.3	63
45	Hydrocarbon Liquid Production from Biomass via Hot-Vapor-Filtered Fast Pyrolysis and Catalytic Hydroprocessing of the Bio-oil. <i>Energy & Fuels</i> , 2014 , 28, 5909-5917	4.1	62
44	Aqueous catalyst systems for the water-gas shift reaction. 2. Mechanism of basic catalysis. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1983 , 22, 431-435		62
43	Water, alkali and char in flash pyrolysis oils. <i>Biomass and Bioenergy</i> , 1994 , 7, 179-185	5.3	61
42	Catalytic Wet Gasification of Municipal and Animal Wastes. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8839-8845	3.9	59
41	Biofuel from fast pyrolysis and catalytic hydrodeoxygenation. <i>Current Opinion in Chemical Engineering</i> , 2015 , 9, 59-65	5.4	58
40	Results of the IEA Round Robin on Viscosity and Stability of Fast Pyrolysis Bio-oils. <i>Energy & Fuels</i> , 2012 , 26, 3769-3776	4.1	55

39	Development of the Basis for an Analytical Protocol for Feeds and Products of Bio-oil Hydrotreatment. <i>Energy & Fuels</i> , 2012 , 26, 2454-2460	4.1	51
38	Results of the IEA Round Robin on Viscosity and Aging of Fast Pyrolysis Bio-oils: Long-Term Tests and Repeatability. <i>Energy & Fuels</i> , 2012 , 26, 7362-7366	4.1	49
37	Chemical Processing in High-Pressure Aqueous Environments. 6. Demonstration of Catalytic Gasification for Chemical Manufacturing Wastewater Cleanup in Industrial Plants. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 879-883	3.9	49
36	Red Mud Catalytic Pyrolysis of Pinyon Juniper and Single-Stage Hydrotreatment of Oils. <i>Energy & Fuels</i> , 2016 , 30, 7947-7958	4.1	46
35	Guidelines for Transportation, Handling, and Use of Fast Pyrolysis Bio-Oil. 1. Flammability and Toxicity. <i>Energy & Fuels</i> , 2012 , 26, 3864-3873	4.1	46
34	The effect of catalysis on wood-gasification tar composition. <i>Bioresource Technology</i> , 1986 , 9, 195-203		44
33	Hydroprocessing Bio-Oil and Products Separation for Coke Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 389-392	8.3	42
32	Chemical Processing in High-Pressure Aqueous Environments. 9. Process Development for Catalytic Gasification of Algae Feedstocks. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10768-10777	7.9	42
31	Comparisons of the yields and properties of the oil products from direct thermochemical biomass liquefaction processes. <i>Canadian Journal of Chemical Engineering</i> , 1985 , 63, 99-104	2.3	41
30	Results of the International Energy Agency Round Robin on Fast Pyrolysis Bio-oil Production. <i>Energy & Fuels</i> , 2017 , 31, 5111-5119	4.1	40
29	Transportation fuels from biomass via fast pyrolysis and hydroprocessing. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2013 , 2, 525-533	4.7	37
28	Hydrothermal Processing 2011 , 200-231		33
27	Catalytic hydrotreating of black liquor oils. <i>Energy & Fuels</i> , 1991 , 5, 102-109	4.1	33
26	Biomass Direct Liquefaction Options. TechnoEconomic and Life Cycle Assessment		33
25	Production of Gasoline and Diesel from Biomass via Fast Pyrolysis, Hydrotreating and Hydrocracking: A Design Case		33
24	Pyrolysis of Woody Residue Feedstocks: Upgrading of Bio-oils from Mountain-Pine-Beetle-Killed Trees and Hog Fuel. <i>Energy & Fuels</i> , 2014 , 28, 7510-7516	4.1	31
23	Technology advancements in hydroprocessing of bio-oils. <i>Biomass and Bioenergy</i> , 2019 , 125, 151-168	5.3	29
22	Effects of trace contaminants on catalytic processing of biomass-derived feedstocks. <i>Applied Biochemistry and Biotechnology</i> , 2004 , 113-116, 807-25	3.2	28

21	Chemical Processing in High-Pressure Aqueous Environments. 5. New Processing Concepts. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 4111-4118	3.9	27
20	Characterization of upgraded fast pyrolysis oak oil distillate fractions from sulfided and non-sulfided catalytic hydrotreating. <i>Fuel</i> , 2017 , 202, 620-630	7.1	24
19	Conversion of a wet waste feedstock to biocrude by hydrothermal processing in a continuous-flow reactor: grape pomace. <i>Biomass Conversion and Biorefinery</i> , 2017 , 7, 455-465	2.3	23
18	Product Analysis from Direct Liquefaction of Several High-Moisture Biomass Feedstocks. <i>ACS Symposium Series</i> , 1988 , 179-188	0.4	18
17	Bench-Scale Reactor Tests of Low Temperature, Catalytic Gasification of Wet Industrial Wastes. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1993 , 115, 52-56	2.3	15
16	Aqueous catalyst systems for the water-gas shift reaction. 3. Continuous gas processing results. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1986 , 25, 541-549		15
15	Alkali catalysis in biomass gasification. <i>Journal of Analytical and Applied Pyrolysis</i> , 1984 , 6, 299-316	6	15
14	Decarboxylation as a means of upgrading the heating value of low-rank coals. <i>Fuel</i> , 1980 , 59, 805-806	7.1	13
13	Catalytic Hydrothermal Gasification of Lignin-Rich Biorefinery Residues and Algae Final Report		12
12	Analysis of thermochemically-derived wood oil. <i>Fuel</i> , 1984 , 63, 368-372	7.1	11
11	Analysis of chemical intermediates from low-temperature steam gasification of biomass. <i>Fuel</i> , 1984 , 63, 4-8	7.1	8
10	Stabilization of Fast Pyrolysis Oil: Post Processing Final Report		8
9	Low Temperature Gasification of Biomass Under Pressure 1985 , 937-950		8
8	Biomass Conversion to Produce Hydrocarbon Liquid Fuel Via Hot-vapor Filtered Fast Pyrolysis and Catalytic Hydrotreating. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	5
7	Electrochemical Upgrading of Bio-Oil. <i>ECS Transactions</i> , 2017 , 78, 3149-3158	1	5
6	Analysis and Comparison of Products from Wood Liquefaction 1985 , 1003-1018		4
5	Hydrothermal liquefaction of sludge and biomass residues 2020 , 117-131		3
4	Effects of Trace Contaminants on Catalytic Processing of Biomass-Derived Feedstocks 2004 , 807-825		2

- 3 Upgrading Liquid Products: Notes from the Workshop at the International Conference Research in Thermochemical Biomass Conversion **1988**, 1170-1176 2
- 2 Transportation Fuels from Biomass via Fast Pyrolysis and Hydroprocessing **2015**, 65-72 1
- 1 Evaluation of Wastewater Treatment Requirements for Thermochemical Biomass Liquefaction **1993**, 1299-1313