

Douglas C Elliott

List of Publications by Year in Descending Order

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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 | Hydrothermal liquefaction of sludge and biomass residues 2020 , 117-131 | | 3 |
| 73 | Technology advancements in hydroprocessing of bio-oils. <i>Biomass and Bioenergy</i> , 2019 , 125, 151-168 | 5.3 | 29 |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | Electrochemical Upgrading of Bio-Oil. <i>ECS Transactions</i> , 2017 , 78, 3149-3158 | 1 | 5 |
| 68 | Red Mud Catalytic Pyrolysis of Pinyon Juniper and Single-Stage Hydrotreatment of Oils. <i>Energy & Fuels</i> , 2016 , 30, 7947-7958 | 4.1 | 46 |
| 67 | 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 |
| 66 | Stabilization of Softwood-Derived Pyrolysis Oils for Continuous Bio-oil Hydroprocessing. <i>Topics in Catalysis</i> , 2016 , 59, 55-64 | 2.3 | 63 |
| 65 | 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 |
| 64 | 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 |
| 63 | Norms, Standards, and Legislation for Fast Pyrolysis Bio-oils from Lignocellulosic Biomass. <i>Energy & Fuels</i> , 2015 , 29, 2471-2484 | 4.1 | 116 |
| 62 | Biofuel from fast pyrolysis and catalytic hydrodeoxygenation. <i>Current Opinion in Chemical Engineering</i> , 2015 , 9, 59-65 | 5.4 | 58 |
| 61 | Hydrothermal liquefaction of biomass: developments from batch to continuous process. <i>Bioresource Technology</i> , 2015 , 178, 147-156 | 11 | 586 |
| 60 | Transportation Fuels from Biomass via Fast Pyrolysis and Hydroprocessing 2015 , 65-72 | | 1 |
| 59 | A review and perspective of recent bio-oil hydrotreating research. <i>Green Chemistry</i> , 2014 , 16, 491-515 | 10 | 362 |
| 58 | 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 |

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| 57 | 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 |
| 56 | Hydrothermal Processing of Macroalgal Feedstocks in Continuous-Flow Reactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 207-215 | 8.3 | 84 |
| 55 | 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 |
| 54 | 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 |
| 53 | Transportation fuels from biomass via fast pyrolysis and hydroprocessing. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2013 , 2, 525-533 | 4.7 | 37 |
| 52 | Hydroprocessing Bio-Oil and Products Separation for Coke Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2013 , 1, 389-392 | 8.3 | 42 |
| 51 | Process development for hydrothermal liquefaction of algae feedstocks in a continuous-flow reactor. <i>Algal Research</i> , 2013 , 2, 445-454 | 5 | 341 |
| 50 | 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 |
| 49 | Catalytic Hydroprocessing of Fast Pyrolysis Bio-oil from Pine Sawdust. <i>Energy & Fuels</i> , 2012 , 26, 3891-3896 | 4.1 | 65 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | Analysis of Oxygenated Compounds in Hydrotreated Biomass Fast Pyrolysis Oil Distillate Fractions. <i>Energy & Fuels</i> , 2011 , 25, 5462-5471 | 4.1 | 101 |
| 42 | Hydrothermal Processing 2011 , 200-231 | | 33 |
| 41 | Acidity of Biomass Fast Pyrolysis Bio-oils. <i>Energy & Fuels</i> , 2010 , 24, 6548-6554 | 4.1 | 202 |
| 40 | 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 |

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| 39 | Catalytic Hydroprocessing of Chemical Models for Bio-oil. <i>Energy & Fuels</i> , 2009 , 23, 631-637 | 4.1 | 302 |
| 38 | Catalytic hydrothermal gasification of biomass. <i>Biofuels, Bioproducts and Biorefining</i> , 2008 , 2, 254-265 | 5.3 | 290 |
| 37 | Catalytic Wet Gasification of Municipal and Animal Wastes. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8839-8845 | 3.9 | 59 |
| 36 | Historical Developments in Hydroprocessing Bio-oils. <i>Energy & Fuels</i> , 2007 , 21, 1792-1815 | 4.1 | 1089 |
| 35 | 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 |
| 34 | 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 |
| 33 | Characterization of functionalized nanoporous supports for protein confinement. <i>Nanotechnology</i> , 2006 , 17, 5531-8 | 3.4 | 100 |
| 32 | Conversion of Biomass Syngas to DME Using a Microchannel Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 1722-1727 | 3.9 | 75 |
| 31 | 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 |
| 30 | 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 | 3.9 | 92 |
| 29 | Effects of Trace Contaminants on Catalytic Processing of Biomass-Derived Feedstocks 2004 , 807-825 | | 2 |
| 28 | 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 |
| 27 | Chemical Processing in High-Pressure Aqueous Environments. 5. New Processing Concepts. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 4111-4118 | 3.9 | 27 |
| 26 | Water, alkali and char in flash pyrolysis oils. <i>Biomass and Bioenergy</i> , 1994 , 7, 179-185 | 5.3 | 61 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |

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|----|---|-----|----|
| 21 | 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 |
| 20 | Evaluation of Wastewater Treatment Requirements for Thermochemical Biomass Liquefaction 1993 , 1299-1313 | | |
| 19 | Catalytic hydrotreating of black liquor oils. <i>Energy & Fuels</i> , 1991 , 5, 102-109 | 4.1 | 33 |
| 18 | Product Analysis from Direct Liquefaction of Several High-Moisture Biomass Feedstocks. <i>ACS Symposium Series</i> , 1988 , 179-188 | 0.4 | 18 |
| 17 | Upgrading Liquid Products: Notes from the Workshop at the International Conference Research in Thermochemical Biomass Conversion 1988 , 1170-1176 | | 2 |
| 16 | The effect of catalysis on wood-gasification tar composition. <i>Bioresource Technology</i> , 1986 , 9, 195-203 | | 44 |
| 15 | 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 |
| 14 | 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 |
| 13 | Low Temperature Gasification of Biomass Under Pressure 1985 , 937-950 | | 8 |
| 12 | Analysis and Comparison of Products from Wood Liquefaction 1985 , 1003-1018 | | 4 |
| 11 | Alkali catalysis in biomass gasification. <i>Journal of Analytical and Applied Pyrolysis</i> , 1984 , 6, 299-316 | 6 | 15 |
| 10 | Analysis of thermochemically-derived wood oil. <i>Fuel</i> , 1984 , 63, 368-372 | 7.1 | 11 |
| 9 | Analysis of chemical intermediates from low-temperature steam gasification of biomass. <i>Fuel</i> , 1984 , 63, 4-8 | 7.1 | 8 |
| 8 | 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 |
| 7 | 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 |
| 6 | Decarboxylation as a means of upgrading the heating value of low-rank coals. <i>Fuel</i> , 1980 , 59, 805-806 | 7.1 | 13 |
| 5 | Stabilization of Fast Pyrolysis Oil: Post Processing Final Report | | 8 |
| 4 | Process Design and Economics for the Conversion of Algal Biomass to Hydrocarbons: Whole Algae Hydrothermal Liquefaction and Upgrading | | 92 |

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| 3 | Biomass Direct Liquefaction Options. TechnoEconomic and Life Cycle Assessment | 33 |
| 2 | Production of Gasoline and Diesel from Biomass via Fast Pyrolysis, Hydrotreating and Hydrocracking: A Design Case | 33 |
| 1 | Catalytic Hydrothermal Gasification of Lignin-Rich Biorefinery Residues and Algae Final Report | 12 |