

Kelly Hawboldt

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2593513/kelly-hawboldt-publications-by-citations.pdf>

Version: 2024-04-24

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.

126
papers

2,962
citations

30
h-index

49
g-index

128
ext. papers

3,563
ext. citations

5.4
avg, IF

6.13
L-index

#	Paper	IF	Citations
126	Green chemistry and the ocean-based biorefinery. <i>Green Chemistry</i> , 2013 , 15, 860	10	182
125	Dynamic risk assessment using failure assessment and Bayesian theory. <i>Journal of Loss Prevention in the Process Industries</i> , 2009 , 22, 600-606	3.5	159
124	A review on the pyrolysis of woody biomass to bio-oil: Focus on kinetic models. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 52, 1580-1595	16.2	152
123	A review of bio-oils from waste biomass: Focus on fish processing waste. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 798-821	16.2	113
122	A review on common adsorbents for acid gases removal: Focus on biochar. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 1705-1720	16.2	101
121	Blends of pyrolysis oil, petroleum, and other bio-based fuels: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 59, 406-419	16.2	93
120	Modelling of BP Texas City refinery accident using dynamic risk assessment approach. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 191-199	5.5	93
119	Marine transportation risk assessment using Bayesian Network: Application to Arctic waters. <i>Ocean Engineering</i> , 2018 , 159, 422-436	3.9	87
118	Life Cycle Analysis of wind/fuel cell integrated system. <i>Renewable Energy</i> , 2005 , 30, 157-177	8.1	87
117	Offshore produced water management: A review of current practice and challenges in harsh/Arctic environments. <i>Marine Pollution Bulletin</i> , 2016 , 104, 7-19	6.7	74
116	New experimental data and kinetic rate expression for H ₂ S pyrolysis and re-association. <i>Chemical Engineering Science</i> , 2000 , 55, 957-966	4.4	65
115	A review of lipid extraction from fish processing by-product for use as a biofuel. <i>Biomass and Bioenergy</i> , 2014 , 63, 330-340	5.3	64
114	A review on condensing system for biomass pyrolysis process. <i>Fuel Processing Technology</i> , 2018 , 180, 1-13	7.2	62
113	New experimental data and kinetic rate expression for the Claus reaction. <i>Chemical Engineering Science</i> , 2000 , 55, 5141-5148	4.4	60
112	Dynamic risk analysis of offloading process in floating liquefied natural gas (FLNG) platform using Bayesian Network. <i>Journal of Loss Prevention in the Process Industries</i> , 2016 , 41, 259-269	3.5	60
111	An integrated approach for fire and explosion consequence modelling. <i>Fire Safety Journal</i> , 2013 , 61, 324-337	3.3	54
110	Modelling an integrated impact of fire, explosion and combustion products during transitional events caused by an accidental release of LNG. <i>Chemical Engineering Research and Design</i> , 2019 , 128, 259-272	5.5	49

109	Ammonia Pyrolysis and Oxidation in the Claus Furnace. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 144-151	3.9	49
108	Explosion modeling and analysis of BP Deepwater Horizon accident. <i>Safety Science</i> , 2013 , 57, 150-160	5.8	48
107	Fire impact assessment in FLNG processing facilities using Computational Fluid Dynamics (CFD). <i>Fire Safety Journal</i> , 2017 , 92, 42-52	3.3	39
106	Uncertainty-based quantitative assessment of sustainability for higher education institutions. <i>Journal of Cleaner Production</i> , 2011 , 19, 720-732	10.3	39
105	Comparison of Four Adsorption Isotherm Models for Characterizing Molecular Recognition of Individual Phenolic Compounds in Porous Tailor-Made Molecularly Imprinted Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11998-12009	9.5	34
104	A cellular automaton model for microcarrier cultures. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 90-100	4.9	34
103	An ecological risk assessment model for Arctic oil spills from a subsea pipeline. <i>Marine Pollution Bulletin</i> , 2018 , 135, 1117-1127	6.7	34
102	Thermal stability investigation of sulfide minerals in DSC. <i>Journal of Hazardous Materials</i> , 2010 , 178, 814-828	4.2	33
101	Biochar for the removal of metals from solution: A review of lignocellulosic and novel marine feedstocks. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103975	6.8	32
100	Application of resins with functional groups in the separation of metal ions/species: A review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2018 , 39, 395-413	3.1	32
99	Extraction of lipids and astaxanthin from crustacean by-products: A review on supercritical CO ₂ extraction. <i>Trends in Food Science and Technology</i> , 2020 , 103, 94-108	15.3	32
98	Supersonic gas separators: Review of latest developments. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 109-121	4.6	30
97	Separation of elemental sulfur from hydrometallurgical residue: A review. <i>Hydrometallurgy</i> , 2011 , 109, 80-89	4	30
96	Dynamic risk-based maintenance for offshore processing facility. <i>Process Safety Progress</i> , 2016 , 35, 399-406	4.0	30
95	Nitrogen Functionalized Biochar as a Renewable Adsorbent for Efficient CO ₂ Removal. <i>Energy & Fuels</i> , 2018 , 32, 11742-11748	4.1	30
94	Effect of production conditions on self-heating propensity of torrefied sawmill residues. <i>Fuel</i> , 2015 , 160, 227-237	7.1	29
93	Optimization of biosurfactant production by N3-1P using the brewery waste as the carbon source. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 3371-3380	2.6	28
92	The Importance of Thiosalts Speciation: Review of Analytical Methods, Kinetics, and Treatment. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 2013-2070	11.1	28

91	A critical review on life cycle analysis of algae biodiesel: current challenges and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110143	16.2	28
90	Upgrading of biomass sourced pyrolysis oil review: focus on co-pyrolysis and vapour upgrading during pyrolysis. <i>Biomass Conversion and Biorefinery</i> , 2018 , 8, 775-787	2.3	26
89	Pyrolysis: A Theoretical and Experimental Study on the Conversion of Softwood Sawmill Residues to Biooil. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 605-611	3.9	26
88	Study of selective condensation for woody biomass pyrolysis oil vapours. <i>Fuel</i> , 2019 , 245, 233-239	7.1	23
87	Model for microbiologically influenced corrosion potential assessment for the oil and gas industry. <i>Corrosion Engineering Science and Technology</i> , 2018 , 53, 378-392	1.7	22
86	Sustainable development of process facilities: state-of-the-art review of pollution prevention frameworks. <i>Journal of Hazardous Materials</i> , 2008 , 150, 4-20	12.8	21
85	Upgrading and isolation of low molecular weight compounds from bark and softwood bio-oils through vacuum distillation. <i>Separation and Purification Technology</i> , 2018 , 194, 123-129	8.3	21
84	Production and Characterization of Pyrolysis Oil from Sawmill Residues in an Auger Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1920-1925	3.9	19
83	Bibliometric Analysis of Microbiologically Influenced Corrosion (MIC) of Oil and Gas Engineering Systems. <i>Corrosion</i> , 2018 , 74, 468-486	1.8	19
82	Accidental release of Liquefied Natural Gas in a processing facility: Effect of equipment congestion level on dispersion behaviour of the flammable vapour. <i>Journal of Loss Prevention in the Process Industries</i> , 2019 , 61, 237-248	3.5	19
81	A hybrid SVR-PSO model to predict a CFD-based optimised bubbling fluidised bed pyrolysis reactor. <i>Energy</i> , 2020 , 191, 116414	7.9	18
80	Parametric analysis of pyrolysis process on the product yields in a bubbling fluidized bed reactor. <i>Fuel</i> , 2018 , 234, 616-625	7.1	17
79	Combustion products toxicity risk assessment in an offshore installation. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 616-624	5.5	17
78	A network based approach to envisage potential accidents in offshore process facilities. <i>Process Safety Progress</i> , 2017 , 36, 178-191	1	17
77	E-Green – A Robust Risk-Based Environmental Assessment Tool for Process Industries. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8787-8795	3.9	17
76	Review and analysis of microbiologically influenced corrosion: the chemical environment in oil and gas facilities. <i>Corrosion Engineering Science and Technology</i> , 2018 , 53, 549-563	1.7	17
75	Reservoir souring: sulfur chemistry in offshore oil and gas reservoir fluids. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 1105-1118	2.2	16
74	Co-pyrolysis of softwood with waste mussel shells: Biochar analysis. <i>Fuel</i> , 2020 , 282, 118792	7.1	15

73	Analysis of the effect of module design on gas absorption in cross flow hollow membrane contactors via computational fluid dynamics (CFD) analysis. <i>Journal of Membrane Science</i> , 2016 , 520, 415-424	9.6	15
72	Comparative study between physicochemical characterization of biochar and metal organic frameworks (MOFs) as gas adsorbents. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 2114-2120	2.3	14
71	Prediction of natural gas behaviour in loading and unloading operations of marine CNG transportation systems. <i>Journal of Natural Gas Science and Engineering</i> , 2009 , 1, 31-38	4.6	14
70	Experimental Study of Solubility of Natural Gas Components in Aqueous Solutions of Ethylene Glycol at Low-Temperature and High-Pressure Conditions. <i>Journal of Chemical & Engineering Data</i> , 2007 , 52, 1741-1746	2.8	14
69	Contaminant removal from natural gas using dual hollow fiber membrane contactors. <i>Journal of Membrane Science</i> , 2012 , 397-398, 9-16	9.6	13
68	Prediction of Minerals Producing Acid Mine Drainage Using a Computer-Assisted Thermodynamic Chemical Equilibrium Model. <i>Mine Water and the Environment</i> , 2009 , 28, 74-78	2.4	13
67	A Study of Process Optimization of Extraction of Oil from Fish Waste for Use as A Low-Grade Fuel. <i>JAOCS, Journal of the American Oil ChemistshSociety</i> , 2013 , 90, 1903-1915	1.8	12
66	Kinetics and safety analysis of sulfide mineral self-heating. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 106, 53-61	4.1	12
65	SusDesign \square An approach for a sustainable process system design and its application to a thermal power plant. <i>Applied Thermal Engineering</i> , 2010 , 30, 1896-1913	5.8	12
64	Developing a novel methodology for ecological risk assessment of thiosalts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2014 , 28, 383-391	3.5	11
63	Probabilistic Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in Produced Water. <i>Human and Ecological Risk Assessment (HERA)</i> , 2009 , 15, 1049-1063	4.9	11
62	Co-pyrolysis of softwood with waste mussel shells: Liquid analysis. <i>Fuel</i> , 2019 , 254, 115584	7.1	10
61	Development and Validation of a Process Model To Describe Pyrolysis of Forestry Residues in an Auger Reactor. <i>Energy & Fuels</i> , 2017 , 31, 10833-10841	4.1	9
60	Quantitative risk-based ranking of chemicals considering hazardous thermal reactions. <i>Journal of Chemical Health and Safety</i> , 2014 , 21, 27-38	1.7	9
59	An Integrated Decision-Making Framework for Sustainability Assessment: A Case Study of Memorial University. <i>Higher Education Policy</i> , 2011 , 24, 481-498	1.5	9
58	CFD analysis of fast pyrolysis process in a pilot-scale auger reactor. <i>Fuel</i> , 2020 , 273, 117782	7.1	8
57	Biofuels from fish processing plant effluents \square waste characterization and oil extraction and quality. <i>Sustainable Energy Technologies and Assessments</i> , 2013 , 4, 36-44	4.7	8
56	Probing Surface Functionality on Amorphous Carbons Using X-ray Photoelectron Spectroscopy of Bound Metal Ions. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 26300-26307	3.8	8

55	Comparison of biofuel quality of waste derived oils as a function of oil extraction methods. <i>Fuel</i> , 2015 , 158, 183-190	7.1	8
54	Development, optimization, validation and application of faster gas chromatography - flame ionization detector method for the analysis of total petroleum hydrocarbons in contaminated soils. <i>Journal of Chromatography A</i> , 2015 , 1425, 240-8	4.5	8
53	Emission factor estimation for oil and gas facilities. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 295-299	5.5	8
52	Advanced kinetics for calorimetric techniques and thermal stability screening of sulfide minerals. <i>Thermochimica Acta</i> , 2010 , 501, 35-45	2.9	8
51	A Study of the Effect of Quench Design on the Quality of Experimental Kinetic Data. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 2260-2263	3.9	8
50	Application of biochar for acid gas removal: experimental and statistical analysis using CO. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 10902-10915	5.1	8
49	Enzymatic processing of mussel shells to produce biorenewable calcium carbonate in seawater. <i>Green Chemistry</i> , 2018 , 20, 2913-2920	10	8
48	Corrosion risk assessment using adaptive bow-tie (ABT) analysis. <i>Reliability Engineering and System Safety</i> , 2021 , 214, 107731	6.3	8
47	Review: Removal of Thiosalt/Sulfate from Mining Effluents by Adsorption and Ion Exchange. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2019 , 40, 79-86	3.1	7
46	Multi-objective optimization of simultaneous saccharification and fermentation for cellulosic ethanol production. <i>Renewable Energy</i> , 2018 , 125, 100-107	8.1	7
45	Methodology to analyse LNG spill on steel structure in congested marine offshore facility. <i>Journal of Loss Prevention in the Process Industries</i> , 2019 , 62, 103936	3.5	7
44	Risk-Based Prioritisation of Indoor Air Pollution Monitoring Using Computational Fluid Dynamics. <i>Indoor and Built Environment</i> , 2012 , 21, 663-673	1.8	7
43	Thermal and flow properties of fish oil blends with bunker fuel oil. <i>Fuel</i> , 2015 , 158, 641-649	7.1	6
42	Adsorption of thiosulphate, trithionate, tetrathionate using biomass ash/char. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 5401-5408	6.8	6
41	Ranking Canadian universities: a quantitative approach for sustainability assessment using uD-SiM. <i>International Journal of Sustainable Engineering</i> , 2012 , 5, 357-373	3.1	6
40	Improvement of bark pyrolysis oil and value added chemical recovery by pervaporation. <i>Fuel Processing Technology</i> , 2020 , 199, 106292	7.2	6
39	Improving gas absorption efficiency using a novel dual membrane contactor. <i>Journal of Membrane Science</i> , 2016 , 510, 249-258	9.6	6
38	A hybrid input variable selection method for building soft sensor from correlated process variables. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016 , 157, 67-77	3.8	6

37	Study of surface heterogeneity and nitrogen functionalizing of biochars: Molecular modeling approach. <i>Carbon</i> , 2021 , 171, 161-170	10.4	6
36	Study on Iron-nickel Separation Using Ion Exchange Resins with Different Functional Groups for Potential Iron Sub-production. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2021 , 42, 75-89	3.1	6
35	Wealth from waste: blue mussels (<i>Mytilus edulis</i>) offer up a sustainable source of natural and synthetic nacre. <i>Green Chemistry</i> , 2019 , 21, 3920-3929	10	5
34	Investigating the Influence of Biochar Amendment on the Physicochemical Properties of Podzolic Soil. <i>Agriculture (Switzerland)</i> , 2020 , 10, 471	3	5
33	Prediction of asphaltene precipitation using non-isothermal compositional network model. <i>Journal of Petroleum Science and Engineering</i> , 2009 , 64, 11-19	4.4	5
32	Novel Dual-Membrane Gas/Liquid Contactors: Modelling and Concept Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7882-7891	3.9	5
31	Thermodynamic model of fast pyrolysis bio-oil advanced distillation curves. <i>Fuel</i> , 2020 , 261, 116446	7.1	5
30	Sulfate removal using colloid-enhanced ultrafiltration: performance evaluation and adsorption studies. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 5609-5624	5.1	5
29	CFD Analysis of Hydrate Formation in Pipelines. <i>Petroleum Science and Technology</i> , 2015 , 33, 571-578	1.4	4
28	Modeling of pool fires in cold regions. <i>Fire Safety Journal</i> , 2012 , 48, 1-10	3.3	4
27	IECP: An approach for integrated environmental and cost evaluation of process design alternatives and its application to evaluate different NOx prevention technologies in a 125 MW thermal power plant. <i>Energy for Sustainable Development</i> , 2011 , 15, 61-68	5.4	4
26	Assessment of minerals and iron-bearing phases present in hydrometallurgical residues from a nickel sulfide concentrate and availability of residue associated metals. <i>Hydrometallurgy</i> , 2010 , 101, 126-134	4.34	4
25	Cell cycle dynamics of microcarrier cultures. <i>Journal of Biotechnology</i> , 1994 , 34, 133-47	3.7	4
24	Assessment of cross-reactivity in a tailor-made molecularly imprinted polymer for phenolic compounds using four adsorption isotherm models. <i>Journal of Chromatography A</i> , 2020 , 1629, 461463	4.5	4
23	A review on sources and extraction of phenolic compounds as precursors for bio-based phenolic resins. <i>Biomass Conversion and Biorefinery</i> , 2021 , 1, 1-11	2.3	4
22	Kinetic modeling of biosurfactant production by <i>Bacillus subtilis</i> N3-1P using brewery waste. <i>Chemical Product and Process Modeling</i> , 2020 , 4, 1-11	1.1	4
21	Decision making for produced water management: an integrated multi-criteria approach. <i>International Journal of Environmental Technology and Management</i> , 2013 , 16, 102	0.6	3
20	ECOLOGICAL RISK-BASED PERFORMANCE EVALUATION OF A WASTE STABILIZATION POND. <i>Environmental Engineering and Management Journal</i> , 2010 , 9, 757-764	0.6	3

19	Modeling impacts of combustion products on humans in complex processing facilities. <i>Process Safety Progress</i> , 2020 , 39, e12114	1	3
18	Hard to Soft: Biogenic Absorbent Sponge-like Material from Waste Mussel Shells. <i>Matter</i> , 2020 , 3, 2029-2041	4	3
17	Biosurfactant production by native marine bacteria (<i>Acinetobacter calcoaceticus</i> P1-1A) using waste carbon sources: Impact of process conditions. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 2386	2.3	3
16	Experimental and mass transfer modelling of oil extraction from salmon processing waste using SC-CO ₂ . <i>Journal of Supercritical Fluids</i> , 2015 , 104, 160-170	4.2	2
15	Electrolysis of pyrolysis oil distillates and permeates in a multi-anode proton exchange membrane cell. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117892	21.8	2
14	Numerical Modelling of a Fast Pyrolysis Process in a Bubbling Fluidized Bed Reactor. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017 , 73, 012032	0.3	2
13	Renewable resources from the oceans: Adding value to the by-products of the aquaculture and fishing industries 2014 ,		2
12	Risk Assessment and Management Using Accident Precursors Modeling in Offshore Process Operation 2009 ,		2
11	Environmental monitoring of fish plant effluent in coastal Newfoundland 2005 ,		2
10	Fish Processing Waste Streams as a Feedstock for Fuels 2017 , 229-276		1
9	Input variable selection for an inferential predictor using the retrospective Taguchi method. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1760-1769	2.3	1
8	2014 ,		1
7	Selective Separation of Iron from Simulated Nickel Leach Solutions Using Ion Exchange Technology. <i>Minerals, Metals and Materials Series</i> , 2018 , 2161-2172	0.3	1
6	Sulfur speciation in soured reservoirs: chemical equilibrium and kinetics. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 1603-1612	2.2	1
5	Simulation of sour-oxic-nitrite chemical environment in oil and gas facilities. <i>Canadian Journal of Chemical Engineering</i> , 2021 ,	2.3	1
4	Supercritical CO ₂ extraction of lipids and astaxanthin from Atlantic shrimp by-products with static co-solvents: Process optimization and mathematical modeling studies. <i>Journal of CO₂ Utilization</i> , 2022 , 58, 101938	7.6	1
3	Evaluation of conventional solvent processes for lipid and astaxanthin extraction from shrimp processing by-products. <i>Chemical Engineering Communications</i> , 1-14	2.2	0
2	Decision support system for risk management of produced water in offshore oil and gas industries. <i>International Journal of Water</i> , 2009 , 5, 70	0.9	

- 1 Application of Integrated Risk-Based Approach to Safety Design of High Speed LNG Powered Vessels. *Springer Transactions in Civil and Environmental Engineering*, **2020**, 253-269 0.4