

Kelly Hawboldt

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.

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	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
125	Study of surface heterogeneity and nitrogen functionalizing of biochars: Molecular modeling approach. <i>Carbon</i> , 2021 , 171, 161-170	10.4	6
124	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
123	Simulation of sour-oxic-nitrite chemical environment in oil and gas facilities. <i>Canadian Journal of Chemical Engineering</i> , 2021 ,	2.3	1
122	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
121	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
120	Corrosion risk assessment using adaptive bow-tie (ABT) analysis. <i>Reliability Engineering and System Safety</i> , 2021 , 214, 107731	6.3	8
119	Investigating the Influence of Biochar Amendment on the Physicochemical Properties of Podzolic Soil. <i>Agriculture (Switzerland)</i> , 2020 , 10, 471	3	5
118	CFD analysis of fast pyrolysis process in a pilot-scale auger reactor. <i>Fuel</i> , 2020 , 273, 117782	7.1	8
117	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
116	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
115	Application of Integrated Risk-Based Approach to Safety Design of High Speed LNG Powered Vessels. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2020 , 253-269	0.4	
114	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
113	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
112	Sulfur speciation in soured reservoirs: chemical equilibrium and kinetics. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 1603-1612	2.2	1
111	Improvement of bark pyrolysis oil and value added chemical recovery by pervaporation. <i>Fuel Processing Technology</i> , 2020 , 199, 106292	7.2	6
110	Modeling impacts of combustion products on humans in complex processing facilities. <i>Process Safety Progress</i> , 2020 , 39, e12114	1	3

109	Hard to Soft: Biogenic Absorbent Sponge-like Material from Waste Mussel Shells. <i>Matter</i> , 2020 , 3, 2029-2041	4.1	3
108	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
107	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
106	Co-pyrolysis of softwood with waste mussel shells: Biochar analysis. <i>Fuel</i> , 2020 , 282, 118792	7.1	15
105	Kinetic modeling of biosurfactant production by <i>Bacillus subtilis</i> N3-1P using brewery waste. <i>Chemical Product and Process Modeling</i> , 2020 ,	1.1	4
104	Thermodynamic model of fast pyrolysis bio-oil advanced distillation curves. <i>Fuel</i> , 2020 , 261, 116446	7.1	5
103	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
102	Co-pyrolysis of softwood with waste mussel shells: Liquid analysis. <i>Fuel</i> , 2019 , 254, 115584	7.1	10
101	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
100	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
99	Study of selective condensation for woody biomass pyrolysis oil vapours. <i>Fuel</i> , 2019 , 245, 233-239	7.1	23
98	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
97	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
96	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
95	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
94	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
93	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
92	Multi-objective optimization of simultaneous saccharification and fermentation for cellulosic ethanol production. <i>Renewable Energy</i> , 2018 , 125, 100-107	8.1	7

91	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
90	Bibliometric Analysis of Microbiologically Influenced Corrosion (MIC) of Oil and Gas Engineering Systems. <i>Corrosion</i> , 2018 , 74, 468-486	1.8	19
89	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
88	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
87	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
86	Marine transportation risk assessment using Bayesian Network: Application to Arctic waters. <i>Ocean Engineering</i> , 2018 , 159, 422-436	3.9	87
85	A review on condensing system for biomass pyrolysis process. <i>Fuel Processing Technology</i> , 2018 , 180, 1-13	7.2	62
84	Adsorption of thiosulphate, trithionate, tetrathionate using biomass ash/char. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 5401-5408	6.8	6
83	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
82	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
81	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
80	Nitrogen Functionalized Biochar as a Renewable Adsorbent for Efficient CO ₂ Removal. <i>Energy & Fuels</i> , 2018 , 32, 11742-11748	4.1	30
79	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
78	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
77	Enzymatic processing of mussel shells to produce biorenewable calcium carbonate in seawater. <i>Green Chemistry</i> , 2018 , 20, 2913-2920	10	8
76	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
75	Fish Processing Waste Streams as a Feedstock for Fuels 2017 , 229-276		1
74	Fire impact assessment in FLNG processing facilities using Computational Fluid Dynamics (CFD). <i>Fire Safety Journal</i> , 2017 , 92, 42-52	3.3	39

73	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
72	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
71	A network based approach to envisage potential accidents in offshore process facilities. <i>Process Safety Progress</i> , 2017 , 36, 178-191	1	17
70	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
69	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
68	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
67	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
66	Dynamic risk-based maintenance for offshore processing facility. <i>Process Safety Progress</i> , 2016 , 35, 399-406		30
65	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
64	Improving gas absorption efficiency using a novel dual membrane contactor. <i>Journal of Membrane Science</i> , 2016 , 510, 249-258	9.6	6
63	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
62	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
61	Effect of production conditions on self-heating propensity of torrefied sawmill residues. <i>Fuel</i> , 2015 , 160, 227-237	7.1	29
60	Thermal and flow properties of fish oil blends with bunker fuel oil. <i>Fuel</i> , 2015 , 158, 641-649	7.1	6
59	CFD Analysis of Hydrate Formation in Pipelines. <i>Petroleum Science and Technology</i> , 2015 , 33, 571-578	1.4	4
58	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
57	Supersonic gas separators: Review of latest developments. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 109-121	4.6	30
56	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

55	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
54	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
53	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
52	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
51	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
50	Combustion products toxicity risk assessment in an offshore installation. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 616-624	5.5	17
49	2014 ,		1
48	Renewable resources from the oceans: Adding value to the by-products of the aquaculture and fishing industries 2014 ,		2
47	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
46	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
45	Explosion modeling and analysis of BP Deepwater Horizon accident. <i>Safety Science</i> , 2013 , 57, 150-160	5.8	48
44	Biofuels from fish processing plant effluents waste characterization and oil extraction and quality. <i>Sustainable Energy Technologies and Assessments</i> , 2013 , 4, 36-44	4.7	8
43	An integrated approach for fire and explosion consequence modelling. <i>Fire Safety Journal</i> , 2013 , 61, 324-337	3.3	54
42	A Study of Process Optimization of Extraction of Oil from Fish Waste for Use as A Low-Grade Fuel. <i>JAACS, Journal of the American Oil ChemistshSociety</i> , 2013 , 90, 1903-1915	1.8	12
41	Green chemistry and the ocean-based biorefinery. <i>Green Chemistry</i> , 2013 , 15, 860	10	182
40	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
39	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
38	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

37	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
36	Modeling of pool fires in cold regions. <i>Fire Safety Journal</i> , 2012 , 48, 1-10	3.3	4
35	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
34	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
33	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
32	Emission factor estimation for oil and gas facilities. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 295-299	5.5	8
31	Kinetics and safety analysis of sulfide mineral self-heating. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 106, 53-61	4.1	12
30	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
29	Separation of elemental sulfur from hydrometallurgical residue: A review. <i>Hydrometallurgy</i> , 2011 , 109, 80-89	4	30
28	Uncertainty-based quantitative assessment of sustainability for higher education institutions. <i>Journal of Cleaner Production</i> , 2011 , 19, 720-732	10.3	39
27	SusDesign 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
26	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
25	Thermal stability investigation of sulfide minerals in DSC. <i>Journal of Hazardous Materials</i> , 2010 , 178, 814-828	12.8	33
24	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	4.1	4
23	Advanced kinetics for calorimetric techniques and thermal stability screening of sulfide minerals. <i>Thermochimica Acta</i> , 2010 , 501, 35-45	2.9	8
22	ECOLOGICAL RISK-BASED PERFORMANCE EVALUATION OF A WASTE STABILIZATION POND. <i>Environmental Engineering and Management Journal</i> , 2010 , 9, 757-764	0.6	3
21	Risk Assessment and Management Using Accident Precursors Modeling in Offshore Process Operation 2009 ,		2
20	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

19	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
18	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
17	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
16	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
15	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	
14	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
13	E-Green \square A Robust Risk-Based Environmental Assessment Tool for Process Industries. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8787-8795	3.9	17
12	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
11	Novel Dual-Membrane Gas-Liquid Contactors: Modelling and Concept Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7882-7891	3.9	5
10	Environmental monitoring of fish plant effluent in coastal Newfoundland 2005 ,		2
9	Life Cycle Analysis of wind-fuel cell integrated system. <i>Renewable Energy</i> , 2005 , 30, 157-177	8.1	87
8	Ammonia Pyrolysis and Oxidation in the Claus Furnace. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 144-151	3.9	49
7	New experimental data and kinetic rate expression for the Claus reaction. <i>Chemical Engineering Science</i> , 2000 , 55, 5141-5148	4.4	60
6	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
5	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
4	A cellular automaton model for microcarrier cultures. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 90-100.	4.9	34
3	Cell cycle dynamics of microcarrier cultures. <i>Journal of Biotechnology</i> , 1994 , 34, 133-47	3.7	4
2	A review on sources and extraction of phenolic compounds as precursors for bio-based phenolic resins. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	4

- 1 Evaluation of conventional solvent processes for lipid and astaxanthin extraction from shrimp processing by-products. *Chemical Engineering Communications*,1-14 2.2 ○