

# Angel Irabien

## List of Publications by Year in descending order

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359  
papers

13,136  
citations

20759

60  
h-index

39575

94  
g-index

371  
all docs

371  
docs citations

371  
times ranked

11719  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards the electrochemical conversion of carbon dioxide into methanol. <i>Green Chemistry</i> , 2015, 17, 2304-2324.	4.6	441
2	Copper-Based Metal-Organic Porous Materials for CO <sub>2</sub> Electrochemical Reduction to Alcohols. <i>ChemSusChem</i> , 2017, 10, 1100-1109.	3.6	316
3	Production of methanol from CO <sub>2</sub> electroreduction at Cu <sub>2</sub> O and Cu <sub>2</sub> O/ZnO-based electrodes in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 709-717.	10.8	249
4	Cu <sub>2</sub> O-loaded gas diffusion electrodes for the continuous electrochemical reduction of CO <sub>2</sub> to methanol. <i>Journal of Catalysis</i> , 2016, 343, 232-239.	3.1	222
5	Food waste management during the COVID-19 outbreak: a holistic climate, economic and nutritional approach. <i>Science of the Total Environment</i> , 2020, 742, 140524.	3.9	192
6	Environmental assessment of polycyclic aromatic hydrocarbons (PAHs) in surface sediments of the Santander Bay, Northern Spain. <i>Chemosphere</i> , 2002, 48, 157-165.	4.2	172
7	Ionic liquids in the electrochemical valorisation of CO <sub>2</sub> . <i>Energy and Environmental Science</i> , 2015, 8, 2574-2599.	15.6	172
8	Carbon Dioxide Capture from Flue Gases Using a Cross-Flow Membrane Contactor and the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethylsulfate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 11045-11051.	1.8	171
9	Magnetic ionic liquids: synthesis, properties and applications. <i>RSC Advances</i> , 2014, 4, 40008-40018.	1.7	164
10	Cu/Bi metal-organic framework-based systems for an enhanced electrochemical transformation of CO <sub>2</sub> to alcohols. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 33, 157-165.	3.3	163
11	Influence of lead, zinc, iron (III) and chromium (III) oxides on the setting time and strength development of Portland cement. <i>Cement and Concrete Research</i> , 2001, 31, 1213-1219.	4.6	158
12	Sn nanoparticles on gas diffusion electrodes: Synthesis, characterization and use for continuous CO <sub>2</sub> electroreduction to formate. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 18, 222-228.	3.3	152
13	Acetate based Supported Ionic Liquid Membranes (SILMs) for CO <sub>2</sub> separation: Influence of the temperature. <i>Journal of Membrane Science</i> , 2014, 452, 277-283.	4.1	145
14	A novel group contribution method in the development of a QSAR for predicting the toxicity ( <i>Vibrio</i> ) Tj ETQq 0 0 rgBT /Overlock 10 Tf 5	2.9	134
15	Nanofiltration separation of polyvalent and monovalent anions in desalination brines. <i>Journal of Membrane Science</i> , 2015, 473, 16-27.	4.1	131
16	Design of ionic liquids: an ecotoxicity ( <i>Vibrio fischeri</i> ) discrimination approach. <i>Green Chemistry</i> , 2011, 13, 1507.	4.6	130
17	Assessment of soil pollution based on total petroleum hydrocarbons and individual oil substances. <i>Journal of Environmental Management</i> , 2013, 130, 72-79.	3.8	128
18	Facilitated transport of CO <sub>2</sub> and SO <sub>2</sub> through Supported Ionic Liquid Membranes (SILMs). <i>Desalination</i> , 2009, 245, 485-493.	4.0	124

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19	Methanol electrosynthesis from CO <sub>2</sub> at Cu <sub>2</sub> O/ZnO prompted by pyridine-based aqueous solutions. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 18, 164-172.	3.3	123
20	Arsenic removal from drinking water by reverse osmosis: Minimization of costs and energy consumption. <i>Separation and Purification Technology</i> , 2015, 144, 46-53.	3.9	118
21	Environmental sustainability assessment of the management of municipal solid waste incineration residues: a review of the current situation. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 1333-1353.	2.1	116
22	Electrocatalytic reduction of CO <sub>2</sub> to formate using particulate Sn electrodes: Effect of metal loading and particle size. <i>Applied Energy</i> , 2015, 157, 165-173.	5.1	116
23	Calcium fluoride recovery from fluoride wastewater in a fluidized bed reactor. <i>Water Research</i> , 2007, 41, 810-818.	5.3	114
24	Conversion of carbon dioxide into formate using a continuous electrochemical reduction process in a lead cathode. <i>Chemical Engineering Journal</i> , 2012, 207-208, 278-284.	6.6	114
25	Enhancing waste management strategies in Latin America under a holistic environmental assessment perspective: A review for policy support. <i>Science of the Total Environment</i> , 2019, 689, 1255-1275.	3.9	113
26	Synthesis of heterometallic metal-organic frameworks and their performance as electrocatalyst for CO <sub>2</sub> reduction. <i>RSC Advances</i> , 2018, 8, 21092-21099.	1.7	108
27	From linear to circular integrated waste management systems: A review of methodological approaches. <i>Resources, Conservation and Recycling</i> , 2018, 135, 279-295.	5.3	106
28	Zero solvent emission process for sulfur dioxide recovery using a membrane contactor and ionic liquids. <i>Journal of Membrane Science</i> , 2009, 330, 80-89.	4.1	105
29	On the estimation of potential food waste reduction to support sustainable production and consumption policies. <i>Food Policy</i> , 2018, 80, 24-38.	2.8	105
30	Electrochemical membrane reactors for the utilisation of carbon dioxide. <i>Chemical Engineering Journal</i> , 2016, 305, 104-120.	6.6	104
31	Synthesis and characterisation of MOF/ionic liquid/chitosan mixed matrix membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>RSC Advances</i> , 2015, 5, 102350-102361.	1.7	102
32	Overview of the PCDD/Fs degradation potential and formation risk in the application of advanced oxidation processes (AOPs) to wastewater treatment. <i>Chemosphere</i> , 2015, 118, 44-56.	4.2	102
33	The Energy-Water-Food Nexus. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 239-262.	3.3	101
34	Separation performance of CO <sub>2</sub> through Supported Magnetic Ionic Liquid Membranes (SMILMs). <i>Separation and Purification Technology</i> , 2012, 97, 26-33.	3.9	98
35	Cu oxide/ZnO-based surfaces for a selective ethylene production from gas-phase CO <sub>2</sub> electroconversion. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 31, 135-142.	3.3	97
36	Bringing value to the chemical industry from capture, storage and use of CO <sub>2</sub> : A dynamic LCA of formic acid production. <i>Science of the Total Environment</i> , 2019, 663, 738-753.	3.9	95

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37	Continuous electrochemical reduction of carbon dioxide into formate using a tin cathode: Comparison with lead cathode. <i>Chemical Engineering Research and Design</i> , 2014, 92, 692-701.	2.7	92
38	Tailoring gas-phase CO <sub>2</sub> electroreduction selectivity to hydrocarbons at Cu nanoparticles. <i>Nanotechnology</i> , 2018, 29, 014001.	1.3	92
39	Extraction of Cr(VI) with aliquat 336 in hollow fiber contactors: mass transfer analysis and modeling. <i>Chemical Engineering Science</i> , 1994, 49, 901-909.	1.9	89
40	Quantitative structure-activity relationships (QSARs) to estimate ionic liquids ecotoxicity EC50 ( <i>Vibrio fischeri</i> ). <i>Journal of Molecular Liquids</i> , 2010, 152, 28-33.	2.3	89
41	Synthesis and characterization of Magnetic Ionic Liquids (MILs) for CO <sub>2</sub> separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 866-871.	1.6	89
42	Evaluation of the contribution of local sources to trace metals levels in urban PM2.5 and PM10 in the Cantabria region (Northern Spain). <i>Journal of Environmental Monitoring</i> , 2010, 12, 1451.	2.1	87
43	Environmental Assessment of Dimethyl Carbonate Production: Comparison of a Novel Electrosynthesis Route Utilizing CO <sub>2</sub> with a Commercial Oxidative Carbonylation Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2088-2097.	3.2	85
44	Equilibrium and kinetics of chromium(VI) extraction with Aliquat 336. <i>Industrial &amp; Engineering Chemistry Research</i> , 1992, 31, 1516-1522.	1.8	84
45	Permeability modulation of Supported Magnetic Ionic Liquid Membranes (SMILMs) by an external magnetic field. <i>Journal of Membrane Science</i> , 2013, 430, 56-61.	4.1	83
46	Formic Acid Manufacture: Carbon Dioxide Utilization Alternatives. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 914.	1.3	83
47	Global warming footprint of the electrochemical reduction of carbon dioxide to formate. <i>Journal of Cleaner Production</i> , 2015, 104, 148-155.	4.6	82
48	Kinetic Analysis of the Simultaneous Nondispersive Extraction and Back-Extraction of Chromium(VI). <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 1369-1377.	1.8	81
49	Continuous electroreduction of CO <sub>2</sub> to formate using Sn gas diffusion electrodes. <i>AIChE Journal</i> , 2014, 60, 3557-3564.	1.8	81
50	Finding an economic and environmental balance in value chains based on circular economy thinking: An eco-efficiency methodology applied to the fish canning industry. <i>Resources, Conservation and Recycling</i> , 2018, 133, 428-437.	5.3	81
51	CO <sub>2</sub> capture in a hollow fiber membrane contactor coupled with ionic liquid: Influence of membrane wetting and process parameters. <i>Separation and Purification Technology</i> , 2020, 233, 115986.	3.9	79
52	Kinetics of the separation-concentration of chromium(VI) with emulsion liquid membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , 1992, 31, 1523-1529.	1.8	76
53	Productivity and Selectivity of Gas-Phase CO <sub>2</sub> Electroreduction to Methane at Copper Nanoparticle-Based Electrodes. <i>Energy Technology</i> , 2017, 5, 922-928.	1.8	72
54	Fluidized bed reactor for fluoride removal. <i>Chemical Engineering Journal</i> , 2005, 107, 113-117.	6.6	69

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55	A techno-economic evaluation approach to the electrochemical reduction of CO <sub>2</sub> for formic acid manufacture. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 34, 490-499.	3.3	69
56	CO <sub>2</sub> electroreduction to formate: Continuous single-pass operation in a filter-press reactor at high current densities using Bi gas diffusion electrodes. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 34, 12-19.	3.3	68
57	Photoelectrochemical Reactors for CO <sub>2</sub> Utilization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15877-15894.	3.2	65
58	Physico-chemical and toxicological characterization of the historic estuarine sediments: A multidisciplinary approach. <i>Environment International</i> , 2007, 33, 436-444.	4.8	64
59	Characterisation and management of incinerator wastes. <i>Journal of Hazardous Materials</i> , 2000, 79, 215-227.	6.5	63
60	Sustainability assessment of electrodialysis powered by photovoltaic solar energy for freshwater production. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 47, 604-615.	8.2	63
61	Supported liquid membranes for the separation-concentration of phenol. 1. Viability and mass-transfer evaluation. <i>Industrial &amp; Engineering Chemistry Research</i> , 1992, 31, 877-886.	1.8	62
62	Membrane mass transport coefficient for the recovery of Cr(VI) in hollow fiber extraction and back-extraction modules. <i>Journal of Membrane Science</i> , 1996, 118, 213-221.	4.1	60
63	Combined application of Life Cycle Assessment and linear programming to evaluate food waste-to-food strategies: Seeking for answers in the nexus approach. <i>Waste Management</i> , 2018, 80, 186-197.	3.7	60
64	Extraction of Anions with Aliquat 336: Chemical Equilibrium Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , 1994, 33, 1765-1770.	1.8	59
65	Kinetics of flue gas desulphurization at low temperatures: fly ash/calcium (31) sorbent behaviour. <i>Chemical Engineering Science</i> , 1997, 52, 715-732.	1.9	59
66	Preparation and characterization of fly ash/hydrated lime sorbents for SO <sub>2</sub> removal. <i>Powder Technology</i> , 1997, 94, 133-139.	2.1	58
67	Optimization of global and local pollution control in electricity production from coal burning. <i>Applied Energy</i> , 2012, 92, 369-378.	5.1	58
68	Neural network prediction of unconfined compressive strength of coal fly ash-cement mixtures. <i>Cement and Concrete Research</i> , 2003, 33, 1137-1146.	4.6	57
69	Improving trade-offs in the figures of merit of gas-phase single-pass continuous CO <sub>2</sub> electrocatalytic reduction to formate. <i>Chemical Engineering Journal</i> , 2021, 405, 126965.	6.6	57
70	LCA of greywater management within a water circular economy restorative thinking framework. <i>Science of the Total Environment</i> , 2018, 621, 1047-1056.	3.9	56
71	Membrane contactors for the recovery of metallic compounds. <i>Journal of Membrane Science</i> , 2005, 257, 161-170.	4.1	55
72	Bimetallic Cu-based hollow fibre electrodes for CO <sub>2</sub> electroreduction. <i>Catalysis Today</i> , 2020, 346, 34-39.	2.2	55

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73	Extraction of lactoferrin with hydrophobic ionic liquids. Separation and Purification Technology, 2012, 98, 432-440.	3.9	53
74	CO <sub>2</sub> capture with room temperature ionic liquids; coupled absorption/desorption and single module absorption in membrane contactor. Chemical Engineering Science, 2020, 223, 115719.	1.9	52
75	Thermal dehydration of calcium hydroxide. 1. Kinetic model and parameters. Industrial & Engineering Chemistry Research, 1990, 29, 1599-1606.	1.8	51
76	Absorption of coal combustion flue gases in ionic liquids using different membrane contactors. Desalination and Water Treatment, 2011, 27, 54-59.	1.0	51
77	Synthesis and Characterisation of ETS-10/Acetate-based Ionic Liquid/Chitosan Mixed Matrix Membranes for CO <sub>2</sub> /N <sub>2</sub> Permeation. Membranes, 2014, 4, 287-301.	1.4	51
78	Electrodialysis with Bipolar Membranes for Valorization of Brines. Separation and Purification Reviews, 2016, 45, 275-287.	2.8	51
79	Modelling of a hollow fibre ceramic contactor for SO <sub>2</sub> absorption. Separation and Purification Technology, 2010, 72, 174-179.	3.9	50
80	Non-dispersive absorption of CO <sub>2</sub> in parallel and cross-flow membrane modules using EMISE. Journal of Chemical Technology and Biotechnology, 2012, 87, 1502-1507.	1.6	50
81	Arsenic Removal from Natural Waters by Adsorption or Ion Exchange: An Environmental Sustainability Assessment. Industrial & Engineering Chemistry Research, 2014, 53, 18920-18927.	1.8	50
82	Kinetic modelling of cadmium removal from phosphoric acid by non-dispersive solvent extraction. Journal of Membrane Science, 1997, 130, 193-203.	4.1	49
83	Environmental challenges of the chlor-alkali production: Seeking answers from a life cycle approach. Science of the Total Environment, 2017, 580, 147-157.	3.9	48
84	Comparative study of the destruction of polychlorinated dibenzo-p-dioxins and dibenzofurans during Fenton and electrochemical oxidation of landfill leachates. Chemosphere, 2013, 90, 132-138.	4.2	47
85	Environmental and economic assessment of the formic acid electrochemical manufacture using carbon dioxide: Influence of the electrode lifetime. Sustainable Production and Consumption, 2019, 18, 72-82.	5.7	47
86	Separation of Cr (VI) with Aliquat 336: Chemical Equilibrium Modeling. Separation Science and Technology, 1997, 32, 1543-1555.	1.3	46
87	Analysis and optimization of continuous organic solvent nanofiltration by membrane cascade for pharmaceutical separation. AIChE Journal, 2014, 60, 931-948.	1.8	46
88	Separation of propylene/propane mixtures using Ag+RTIL solutions. Evaluation and comparison of the performance of gas-liquid contactors. Journal of Membrane Science, 2010, 360, 130-141.	4.1	45
89	Environmental management of bottom ash from municipal solid waste incineration based on a life cycle assessment approach. Clean Technologies and Environmental Policy, 2014, 16, 1319-1328.	2.1	45
90	Addressing challenges and opportunities of the European seafood sector under a circular economy framework. Current Opinion in Environmental Science and Health, 2020, 13, 101-106.	2.1	45

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91	Chitosan:poly (vinyl) alcohol composite alkaline membrane incorporating organic ionomers and layered silicate materials into a PEM electrochemical reactor. <i>Journal of Membrane Science</i> , 2016, 498, 395-407.	4.1	44
92	Valorization of desalination brines by electrodialysis with bipolar membranes using nanocomposite anion exchange membranes. <i>Desalination</i> , 2017, 406, 16-24.	4.0	44
93	Kinetics of flue gas desulfurization at low temperatures: nonideal surface adsorption model. <i>Chemical Engineering Science</i> , 1992, 47, 1533-1543.	1.9	43
94	Long-range magnetic ordering in magnetic ionic liquid: Emim[FeCl <sub>4</sub> ]. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 296006.	0.7	43
95	Environmental sustainability assessment in the process industry: A case study of waste-to-energy plants in Spain. <i>Resources, Conservation and Recycling</i> , 2014, 93, 144-155.	5.3	43
96	Highly concentrated HCl and NaOH from brines using electrodialysis with bipolar membranes. <i>Separation and Purification Technology</i> , 2020, 242, 116785.	3.9	43
97	Effect of CaSO <sub>4</sub> on the structure and use of Ca(OH) <sub>2</sub> /fly ash sorbents for SO <sub>2</sub> removal. <i>Powder Technology</i> , 2001, 119, 201-205.	2.1	42
98	Multi-objective optimization of coal-fired electricity production with CO <sub>2</sub> capture. <i>Applied Energy</i> , 2012, 98, 266-272.	5.1	42
99	Ionic liquid-based three phase partitioning (ILTPP) systems: Ionic liquid recovery and recycling. <i>Fluid Phase Equilibria</i> , 2014, 371, 67-74.	1.4	42
100	Waste management under a life cycle approach as a tool for a circular economy in the canned anchovy industry. <i>Waste Management and Research</i> , 2016, 34, 724-733.	2.2	42
101	Long-term behaviour of toxic metals in stabilized steel foundry dusts. <i>Journal of Hazardous Materials</i> , 1995, 40, 31-42.	6.5	41
102	Fluoride Recovery in a Fluidized Bed: Crystallization of Calcium Fluoride on Silica Sand. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 796-802.	1.8	41
103	Particle growth kinetics of calcium fluoride in a fluidized bed reactor. <i>Chemical Engineering Science</i> , 2007, 62, 2958-2966.	1.9	41
104	Membrane modules for CO <sub>2</sub> capture based on PVDF hollow fibers with ionic liquids immobilized. <i>Journal of Membrane Science</i> , 2016, 498, 218-226.	4.1	41
105	Electrochemical Oxidation of Lignosulfonate: Total Organic Carbon Oxidation Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 9848-9853.	1.8	40
106	Impact of the global economic crisis on metal levels in particulate matter (PM) at an urban area in the Cantabria Region (Northern Spain). <i>Environmental Pollution</i> , 2011, 159, 1129-1135.	3.7	40
107	Non-dispersive absorption of CO <sub>2</sub> in [emim][EtSO <sub>4</sub> ] and [emim][Ac]: Temperature influence. <i>Separation and Purification Technology</i> , 2014, 132, 120-125.	3.9	40
108	Energy-water-food nexus in the Spanish greenhouse tomato production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1307-1316.	2.1	40

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109	Regional evaluation of particulate matter composition in an Atlantic coastal area (Cantabria region,) Tj ETQq1 1 0.784314 rgBT /Overl 2011, 101, 280-293.	1.8	39
110	LTA/Poly(1â€rimethylsilylâ€1â€propyne) Mixedâ€Matrix Membranes for Highâ€Temperature CO <sub>2</sub> /N <sub>2</sub> Separation. Chemical Engineering and Technology, 2015, 38, 658-666.	0.9	39
111	Carbon dioxide capture by [emim][Ac] ionic liquid in a polysulfone hollow fiber membrane contactor. International Journal of Greenhouse Gas Control, 2016, 52, 401-409.	2.3	39
112	Assessing Energy and Environmental Efficiency of the Spanish Agri-Food System Using the LCA/DEA Methodology. Energies, 2018, 11, 3395.	1.6	39
113	Photovoltaic solar electrochemical oxidation (PSEO) for treatment of lignosulfonate wastewater. Journal of Chemical Technology and Biotechnology, 2010, 85, 821-830.	1.6	37
114	Permselectivity improvement in membranes for CO <sub>2</sub> /N <sub>2</sub> separation. Separation and Purification Technology, 2016, 157, 102-111.	3.9	37
115	Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. Desalination, 2017, 411, 19-27.	4.0	37
116	Innovative alternatives to methanol manufacture: Carbon footprint assessment. Journal of Cleaner Production, 2019, 225, 426-434.	4.6	37
117	Experimental study of the waste binder anhydrite in the solidification/ stabilization process of heavy metal sludges. Journal of Hazardous Materials, 1998, 57, 155-168.	6.5	36
118	Microstructural Changes in the Desulfurization Reaction at Low Temperature. Industrial & Engineering Chemistry Research, 1999, 38, 1384-1390.	1.8	36
119	Life cycle assessment modelling of waste-to-energy incineration in Spain and Portugal. Waste Management and Research, 2014, 32, 492-499.	2.2	36
120	Hollow Fiber Membrane Contactors in CO <sub>2</sub> Desorption: A Review. Energy & Fuels, 2021, 35, 111-136.	2.5	36
121	Supported liquid membranes for the separation-concentration of phenol. 2. Mass-transfer evaluation according to fundamental equations. Industrial & Engineering Chemistry Research, 1992, 31, 1745-1753.	1.8	35
122	Ionic Liquids: Green Solvents for Chemical Processing. Journal of Chemistry, 2013, 2013, 1-2.	0.9	35
123	Source contribution to the bulk atmospheric deposition of minor and trace elements in a Northern Spanish coastal urban area. Atmospheric Research, 2014, 145-146, 80-91.	1.8	35
124	Photovoltaic solar electro dialysis with bipolar membranes. Desalination, 2018, 433, 155-163.	4.0	35
125	Catalyst coated membrane electrodes for the gas phase CO <sub>2</sub> electroreduction to formate. Catalysis Today, 2020, 346, 58-64.	2.2	35
126	Separation of L-Phenylalanine by Nondispersive Extraction and Backextraction. Equilibrium and Kinetic Parameters. Separation Science and Technology, 1998, 33, 119-139.	1.3	34



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127	Modeling of particle growth: Application to water treatment in a fluidized bed reactor. Chemical Engineering Journal, 2007, 134, 66-71.	6.6	34
128	Comparison of Flat and Hollow Fiber Mixed Matrix Composite Membranes for CO <sub>2</sub> Separation with Temperature. Chemical Engineering and Technology, 2017, 40, 997-1007.	0.9	34
129	Ionic liquid based three phase partitioning (ILTP) systems for whey protein recovery: ionic liquid selection. Journal of Chemical Technology and Biotechnology, 2015, 90, 939-946.	1.6	33
130	Environmental behaviour of stabilised foundry sludge. Journal of Hazardous Materials, 2004, 109, 95-104.	6.5	32
131	Design of the Photovoltaic Solar Electro-Oxidation (PSEO) process for wastewater treatment. Chemical Engineering Research and Design, 2011, 89, 2679-2685.	2.7	32
132	Human Risk Assessment of Contaminated Soils by Oil Products: Total TPH Content Versus Fraction Approach. Human and Ecological Risk Assessment (HERA), 2014, 20, 1231-1248.	1.7	32
133	Life Cycle Assessment model for the chlor-alkali process: A comprehensive review of resources and available technologies. Sustainable Production and Consumption, 2017, 12, 44-58.	5.7	32
134	Nondispersive Extraction of Cr(VI) with Aliquat 336: Influence of Carrier Concentration. Separation Science and Technology, 1996, 31, 271-282.	1.3	31
135	Kinetics of dry flue gas desulfurization at low temperatures using Ca(OH) <sub>2</sub> : competitive reactions of sulfation and carbonation. Chemical Engineering Science, 2001, 56, 1387-1393.	1.9	31
136	Stochastic MILP model for optimal timing of investments in CO <sub>2</sub> capture technologies under uncertainty in prices. Energy, 2013, 54, 343-351.	4.5	31
137	LCA-based Comparison of Two Organic Fraction Municipal Solid Waste Collection Systems in Historical Centres in Spain. Energies, 2019, 12, 1407.	1.6	31
138	Environmental sustainability assessment of seawater reverse osmosis brine valorization by means of electro dialysis with bipolar membranes. Environmental Science and Pollution Research, 2020, 27, 1256-1266.	2.7	31
139	Continuous electroconversion of CO <sub>2</sub> into formate using 2 nm tin oxide nanoparticles. Applied Catalysis B: Environmental, 2021, 297, 120447.	10.8	31
140	Kinetic model for desulfurization at low temperatures using calcium hydroxide. Chemical Engineering Science, 1990, 45, 3427-3433.	1.9	30
141	Trade-Offs between Nutrient Circularity and Environmental Impacts in the Management of Organic Waste. Environmental Science & Technology, 2018, 52, 10923-10933.	4.6	30
142	Integrated countercurrent reverse osmosis cascades for hydrogen peroxide ultrapurification. Computers and Chemical Engineering, 2012, 41, 67-76.	2.0	29
143	Environmental sustainability of alternative marine propulsion technologies powered by hydrogen - a life cycle assessment approach. Science of the Total Environment, 2022, 820, 153189.	3.9	29
144	SO <sub>2</sub> reaction with Ca(OH) <sub>2</sub> at medium temperatures (300-425°C). Chemical Engineering Science, 1998, 53, 1869-1881.	1.9	28

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145	When product diversification influences life cycle impact assessment: A case study of canned anchovy. <i>Science of the Total Environment</i> , 2017, 581-582, 629-639.	3.9	28
146	Kinetic analysis of thermogravimetric data; discrimination of integral models. <i>Thermochimica Acta</i> , 1984, 73, 101-108.	1.2	27
147	Internal mass transfer in hollow fiber supported liquid membranes. <i>AIChE Journal</i> , 1993, 39, 521-525.	1.8	27
148	Mathematical modelling of phenol photooxidation: Kinetics of the process toxicity. <i>Chemical Engineering Journal</i> , 2007, 134, 23-28.	6.6	27
149	Mixed Matrix Membranes for O <sub>2</sub> /N <sub>2</sub> Separation: The Influence of Temperature. <i>Membranes</i> , 2016, 6, 28.	1.4	27
150	Introducing life cycle thinking to define best available techniques for products: Application to the anchovy canning industry. <i>Journal of Cleaner Production</i> , 2017, 155, 139-150.	4.6	27
151	Characterization of metal finishing sludges: influence of the pH. <i>Journal of Hazardous Materials</i> , 2000, 79, 63-75.	6.5	26
152	Life cycle assessment of technologies for partial dealcoholisation of wines. <i>Sustainable Production and Consumption</i> , 2015, 2, 29-39.	5.7	26
153	Energy Embedded in Food Loss Management and in the Production of Uneaten Food: Seeking a Sustainable Pathway. <i>Energies</i> , 2019, 12, 767.	1.6	26
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