# Angel Irabien

List of Publications by Year
in descending order



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|---|---|---|---|
| 359 papers | 13,136 citations | 20817 60 h-index | 39675 94 g-index |
| 371 all docs | 371 docs citations | 371 times ranked | 11719 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Continuous electroreduction of CO2 towards formate in gas-phase operation at high current densities with an anion exchange membrane. Journal of CO2 Utilization, 2022, 56, 101822. | 6.8 | 19 |
| 2 | CO2 electroreduction: Sustainability analysis of the renewable synthetic natural gas. International Journal of Greenhouse Gas Control, 2022, 114, 103549. | 4.6 | 11 |
| 3 | Environmental sustainability of alternative marine propulsion technologies powered by hydrogen - a life cycle assessment approach. Science of the Total Environment, 2022, 820, 153189. | 8.0 | 29 |
| 4 | Hydrogen Utilization in the Sustainable Manufacture of CO<sub>2</sub>-Based Methanol. Industrial & Engineering Chemistry Research, 2022, 61, 6163-6172. | 3.7 | 20 |
| 5 | Efficient photoelectrochemical conversion of CO2 to ethylene and methanol using a Cu cathode and TiO2 nanoparticles synthesized in supercritical medium as photoanode. Journal of Environmental Chemical Engineering, 2022, 10, 107441. | 6.7 | 21 |
| 6 | Deep Decarbonization of the Cement Sector: A Prospective Environmental Assessment of CO<sub>2</sub> Recycling to Methanol. ACS Sustainable Chemistry and Engineering, 2022, 10, 267-278. | 6.7 | 24 |
| 7 | Binary copper-bismuth catalysts for the electrochemical reduction of CO2: Study on surface properties and catalytic activity. Chemical Engineering Journal, 2022, 445, 136575. | 12.7 | 19 |
| 8 | Copper(II) invigorated EHU-30 for continuous electroreduction of CO2 into value-added chemicals. Scientific Reports, 2022, 12, . | 3.3 | 16 |
| 9 | Life cycle assessment of zinc and iron recovery from spent pickling acids by membrane-based solvent extraction and electrowinning. Journal of Environmental Management, 2022, 318, 115567. | 7.8 | 10 |
| 10 | Improving trade-offs in the figures of merit of gas-phase single-pass continuous CO2 electrocatalytic reduction to formate. Chemical Engineering Journal, 2021, 405, 126965. | 12.7 | 57 |
| 11 | Feasibility analysis of a CO<sub>2</sub> recycling plant for the decarbonization of formate and dihydroxyacetone production. Green Chemistry, 2021, 23, 4840-4851. | 9.0 | 12 |
| 12 | Life-cycle assessment as a tool to evaluate the environmental impact of hot-dip galvanisation. Journal of Cleaner Production, 2021, 290, 125676. | 9.3 | 5 |
| 13 | Techno-economic and environmental assessment of methane oxidation layer measures through small-scale clean development mechanism â€“ The case of the Seychelles. Waste Management, 2021, 124, 244-253. | 7.4 | 5 |
| 14 | Unraveling the links between public spending and Sustainable Development Goals: Insights from data envelopment analysis. Science of the Total Environment, 2021, 786, 147459. | 8.0 | 11 |
| 15 | Continuous electroconversion of CO2 into formate using 2 nm tin oxide nanoparticles. Applied Catalysis B: Environmental, 2021, 297, 120447. | 20.2 | 31 |
| 16 | Modelling and simulation of hollow fiber membrane vacuum regeneration for CO2 desorption processes using ionic liquids. Separation and Purification Technology, 2021, 277, 119465. | 7.9 | 9 |
| 17 | Hollow Fiber Membrane Contactors in CO<sub>2</sub> Desorption: A Review. Energy & Fuels, 2021, 35, 111-136. | 5.1 | 36 |
| 18 | How to achieve the sustainability of the seafood sector in the European Atlantic Area?. IOP Conference Series: Materials Science and Engineering, 2021, 1196, 012010. | 0.6 | 0 |

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|---|---|---|---|
| 19 | Catalyst coated membrane electrodes for the gas phase CO2 electroreduction to formate. Catalysis Today, 2020, 346, 58-64. | 4.4 | 35 |
| 20 | Environmental sustainability assessment of seawater reverse osmosis brine valorization by means of electrodialysis with bipolar membranes. Environmental Science and Pollution Research, 2020, 27, 1256-1266. | 5.3 | 31 |
| 21 | Bimetallic Cu-based hollow fibre electrodes for CO2 electroreduction. Catalysis Today, 2020, 346, 34-39. | 4.4 | 55 |
| 22 | CO2 capture in a hollow fiber membrane contactor coupled with ionic liquid: Influence of membrane wetting and process parameters. Separation and Purification Technology, 2020, 233, 115986. | 7.9 | 79 |
| 23 | Mathematical modeling of CO<sub>2</sub> absorption with ionic liquids in a membrane contactor, study of absorption kinetics and influence of temperature. Journal of Chemical Technology and Biotechnology, 2020, 95, 1844-1857. | 3.2 | 21 |
| 24 | Continuous conversion of CO<sub>2</sub>to alcohols in a TiO<sub>2</sub>photoanodeâ€driven photoelectrochemical system. Journal of Chemical Technology and Biotechnology, 2020, 95, 1876-1882. | 3.2 | 14 |
| 25 | Potential formation of PCDD/Fs in triclosan wastewater treatment: An overall toxicity assessment under a life cycle approach. Science of the Total Environment, 2020, 707, 135981. | 8.0 | 15 |
| 26 | Continuous Electrochemical Reduction of CO2 to Formate: Comparative Study of the Influence of the Electrode Configuration with Sn and Bi-Based Electrocatalysts. Molecules, 2020, 25, 4457. | 3.8 | 18 |
| 27 | Enhancement of the electrochemical reduction of CO2 to methanol and suppression of H2 evolution over CuO nanowires. Electrochimica Acta, 2020, 363, 137207. | 5.2 | 25 |
| 28 | Toward the Decarbonization of Hard-To-Abate Sectors: A Case Study of the Soda Ash Production. ACS Sustainable Chemistry and Engineering, 2020, 8, 11956-11966. | 6.7 | 15 |
| 29 | CO2 Desorption Performance from Imidazolium Ionic Liquids by Membrane Vacuum Regeneration Technology. Membranes, 2020, 10, 234. | 3.0 | 11 |
| 30 | Effect of Water and Organic Pollutant in CO2/CH4 Separation Using Hydrophilic and Hydrophobic Composite Membranes. Membranes, 2020, 10, 405. | 3.0 | 10 |
| 31 | The role of power-to-gas in the European Union. Green Chemical Engineering, 2020, 1, 6-8. | 6.3 | 6 |
| 32 | Hydrogen Recovery from Waste Gas Streams to Feed (High-Temperature PEM) Fuel Cells: Environmental Performance under a Life-Cycle Thinking Approach. Applied Sciences (Switzerland), 2020, 10, 7461. | 2.5 | 13 |
| 33 | An Analysis of Research on Membrane-Coated Electrodes in the 2001â€“2019 Period: Potential Application to CO2 Capture and Utilization. Catalysts, 2020, 10, 1226. | 3.5 | 2 |
| 34 | CO2 capture with room temperature ionic liquids; coupled absorption/desorption and single module absorption in membrane contactor. Chemical Engineering Science, 2020, 223, 115719. | 3.8 | 52 |
| 35 | Gasâ€“liquidâ€“solid reaction system for <scp>CO<sub>2</sub></scp> electroreduction to formate without using supporting electrolyte. AICHE Journal, 2020, 66, e16299. | 3.6 | 24 |
| 36 | Highly concentrated HCl and NaOH from brines using electrodialysis with bipolar membranes. Separation and Purification Technology, 2020, 242, 116785. | 7.9 | 43 |

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|---|---|---|---|
| 37 | Food waste management during the COVID-19 outbreak: a holistic climate, economic and nutritional approach. Science of the Total Environment, 2020, 742, 140524. | 8.0 | 192 |
| 38 | Post-combustion CO2 capture by coupling [emim] cation based ionic liquids with a membrane contactor; Pseudo-steady-state approach. International Journal of Greenhouse Gas Control, 2020, 99, 103076. | 4.6 | 24 |
| 39 | Noncooperative Game Theory To Ensure the Marketability of Organic Fertilizers within a Sustainable Circular Economy. ACS Sustainable Chemistry and Engineering, 2020, 8, 3809-3819. | 6.7 | 11 |
| 40 | 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. | 4.1 | 45 |
| 41 | Comparison of Supported Ionic Liquid Membranes and Polymeric Ultrafiltration and Nanofiltration Membranes for Separation of Lignin and Monosaccharides. Membranes, 2020, 10, 29. | 3.0 | 9 |
| 42 | Effect of Humidity on CO2/N2 and CO2/CH4 Separation Using Novel Robust Mixed Matrix Composite Hollow Fiber Membranes: Experimental and Model Evaluation. Membranes, 2020, 10, 6. | 3.0 | 11 |
| 43 | A techno-economic evaluation approach to the electrochemical reduction of CO2 for formic acid manufacture. Journal of CO2 Utilization, 2019, 34, 490-499. | 6.8 | 69 |
| 44 | Energy Embedded in Food Loss Management and in the Production of Uneaten Food: Seeking a Sustainable Pathway. Energies, 2019, 12, 767. | 3.1 | 26 |
| 45 | Enhancing waste management strategies in Latin America under a holistic environmental assessment perspective: A review for policy support. Science of the Total Environment, 2019, 689, 1255-1275. | 8.0 | 113 |
| 46 | From Goods to Services: The Life Cycle Assessment Perspective. Journal of Service Science Research, 2019, 11, 17-45. | 0.8 | 10 |
| 47 | Sustainable Membraneâ€Coated Electrodes for CO<sub>2</sub> Electroreduction to Methanol in Alkaline Media. ChemElectroChem, 2019, 6, 5273-5282. | 3.4 | 19 |
| 48 | Cu/Bi metal-organic framework-based systems for an enhanced electrochemical transformation of CO2 to alcohols. Journal of CO2 Utilization, 2019, 33, 157-165. | 6.8 | 163 |
| 49 | Nutritional data management of food losses and waste under a life cycle approach: Case study of the Spanish agri-food system. Journal of Food Composition and Analysis, 2019, 82, 103223. | 3.9 | 17 |
| 50 | Environmental performance of alternatives to treat fly ash from a waste to energy plant. Journal of Cleaner Production, 2019, 231, 1016-1026. | 9.3 | 17 |
| 51 | CO2 electroreduction to formate: Continuous single-pass operation in a filter-press reactor at high current densities using Bi gas diffusion electrodes. Journal of CO2 Utilization, 2019, 34, 12-19. | 6.8 | 68 |
| 52 | Economics of Enhancing Nutrient Circularity in an Organic Waste Valorization System. Environmental Science & Technology, 2019, 53, 6123-6132. | 10.0 | 24 |
| 53 | LCA-based Comparison of Two Organic Fraction Municipal Solid Waste Collection Systems in Historical Centres in Spain. Energies, 2019, 12, 1407. | 3.1 | 31 |
| 54 | Cu oxide/ZnO-based surfaces for a selective ethylene production from gas-phase CO2 electroconversion. Journal of CO2 Utilization, 2019, 31, 135-142. | 6.8 | 97 |

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|---|---|---|---|
| 55 | Innovative alternatives to methanol manufacture: Carbon footprint assessment. Journal of Cleaner Production, 2019, 225, 426-434. | 9.3 | 37 |
| 56 | Bringing value to the chemical industry from capture, storage and use of CO2: A dynamic LCA of formic acid production. Science of the Total Environment, 2019, 663, 738-753. | 8.0 | 95 |
| 57 | 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. | 11.0 | 47 |
| 58 | The carbon footprint of Power-to-Synthetic Natural Gas by Photovoltaic solar powered Electrochemical Reduction of CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1488" altimg="si14.gif"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>. Sustainable Production and Consumption, 2019, 17, 229-240. | 11.0 | 23 |
| 59 | Learning-by-Doing: The Chem-E-Car CompetitionÂ® in the University of Cantabria as case study. Education for Chemical Engineers, 2019, 26, 14-23. | 4.8 | 9 |
| 60 | Desalination by Renewable Energy-Powered Electrodialysis Processes. , 2019, , 111-131. | | 3 |
| 61 | Effect of relative humidity on the gas transport properties of zeolite A/PTMSP mixed matrix membranes. RSC Advances, 2018, 8, 3536-3546. | 3.6 | 21 |
| 62 | Photovoltaic solar electrodialysis with bipolar membranes. Desalination, 2018, 433, 155-163. | 8.2 | 35 |
| 63 | Finding an economic and environmental balance in value chains based on circular economy thinking: An eco-efficiency methodology applied to the fish canning industry. Resources, Conservation and Recycling, 2018, 133, 428-437. | 10.8 | 81 |
| 64 | Contribution to closing the loop on waste materials: valorization of bottom ash from waste-to-energy plants under a life cycle approach. Journal of Material Cycles and Waste Management, 2018, 20, 1507-1515. | 3.0 | 9 |
| 65 | Minimization of Resource Consumption and Carbon Footprint of a Circular Organic Waste Valorization System. ACS Sustainable Chemistry and Engineering, 2018, 6, 3493-3501. | 6.7 | 25 |
| 66 | Optimal design of industrial scale continuous process for fractionation by membrane technologies of protein hydrolysate derived from fish wastes. Separation and Purification Technology, 2018, 197, 137-146. | 7.9 | 20 |
| 67 | Revisiting the LCA+DEA method in fishing fleets. How should we be measuring efficiency?. Marine Policy, 2018, 91, 34-40. | 3.2 | 20 |
| 68 | LCA of greywater management within a water circular economy restorative thinking framework. Science of the Total Environment, 2018, 621, 1047-1056. | 8.0 | 56 |
| 69 | From linear to circular integrated waste management systems: A review of methodological approaches. Resources, Conservation and Recycling, 2018, 135, 279-295. | 10.8 | 106 |
| 70 | Introducing the Green Protein Footprint method as an understandable measure of the environmental cost of anchovy consumption. Science of the Total Environment, 2018, 621, 40-53. | 8.0 | 17 |
| 71 | Tailoring gas-phase CO<sub>2</sub> electroreduction selectivity to hydrocarbons at Cu nanoparticles. Nanotechnology, 2018, 29, 014001. | 2.6 | 92 |
| 72 | Connecting wastes to resources for clean technologies in the chlor-alkali industry: a life cycle approach. Clean Technologies and Environmental Policy, 2018, 20, 229-242. | 4.1 | 9 |

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|---|---|---|---|
| 73 | Assessing Energy and Environmental Efficiency of the Spanish Agri-Food System Using the LCA/DEA Methodology. Energies, 2018, 11, 3395. | 3.1 | 39 |
| 74 | Monetizing Environmental Footprints: Index Development and Application to a Solar-Powered Chemicals Self-Supplied Desalination Plant. ACS Sustainable Chemistry and Engineering, 2018, 6, 14533-14541. | 6.7 | 11 |
| 75 | Photoelectrochemical Reactors for CO<sub>2</sub> Utilization. ACS Sustainable Chemistry and Engineering, 2018, 6, 15877-15894. | 6.7 | 65 |
| 76 | On the estimation of potential food waste reduction to support sustainable production and consumption policies. Food Policy, 2018, 80, 24-38. | 6.0 | 105 |
| 77 | Supported Ionic Liquid Membranes for Separation of Lignin Aqueous Solutions. Processes, 2018, 6, 143. | 2.8 | 11 |
| 78 | Combined application of Life Cycle Assessment and linear programming to evaluate food waste-to-food strategies: Seeking for answers in the nexus approach. Waste Management, 2018, 80, 186-197. | 7.4 | 60 |
| 79 | Trade-Offs between Nutrient Circularity and Environmental Impacts in the Management of Organic Waste. Environmental Science & Technology, 2018, 52, 10923-10933. | 10.0 | 30 |
| 80 | Formic Acid Manufacture: Carbon Dioxide Utilization Alternatives. Applied Sciences (Switzerland), 2018, 8, 914. | 2.5 | 83 |
| 81 | Estimating CO2/N2 Permselectivity through Si/Al = 5 Small-Pore Zeolites/PTMSP Mixed Matrix Membranes: Influence of Temperature and Topology. Membranes, 2018, 8, 32. | 3.0 | 8 |
| 82 | Preparation and Identification of Optimal Synthesis Conditions for a Novel Alkaline Anion-Exchange Membrane. Polymers, 2018, 10, 913. | 4.5 | 13 |
| 83 | Synthesis of heterometallic metalâ€“organic frameworks and their performance as electrocatalyst for CO<sub>2</sub> reduction. RSC Advances, 2018, 8, 21092-21099. | 3.6 | 108 |
| 84 | Electrochemical Conversion of CO 2 to Value-Added Products. , 2018, , 29-59. | | 17 |
| 85 | Solvent-free synthesis of heterometallic metalâ€“organic frameworks for the electrocatalytic reduction of carbon dioxide. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e282-e282. | 0.1 | 0 |
| 86 | When product diversification influences life cycle impact assessment: A case study of canned anchovy. Science of the Total Environment, 2017, 581-582, 629-639. | 8.0 | 28 |
| 87 | Sn nanoparticles on gas diffusion electrodes: Synthesis, characterization and use for continuous CO 2 electroreduction to formate. Journal of CO2 Utilization, 2017, 18, 222-228. | 6.8 | 152 |
| 88 | Enhancing fouling resistance of polyethylene anion exchange membranes using carbon nanotubes and iron oxide nanoparticles. Desalination, 2017, 411, 19-27. | 8.2 | 37 |
| 89 | Mass Transfer Analysis of CO<sub>2</sub> Capture by PVDF Membrane Contactor and Ionic Liquid. Chemical Engineering and Technology, 2017, 40, 678-690. | 1.5 | 11 |
| 90 | Comparison of Flat and Hollowâ€Fiber Mixedâ€Matrix Composite Membranes for CO<sub>2</sub> Separation with Temperature. Chemical Engineering and Technology, 2017, 40, 997-1007. | 1.5 | 34 |

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|---|---|---|---|
| 91 | Methanol electrosynthesis from CO 2 at Cu 2 O/ZnO prompted by pyridine-based aqueous solutions. Journal of CO2 Utilization, 2017, 18, 164-172. | 6.8 | 123 |
| 92 | 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. | 11.0 | 32 |
| 93 | Incorporating linear programing and life cycle thinking into environmental sustainability decision-making: a case study on anchovy canning industry. Clean Technologies and Environmental Policy, 2017, 19, 1897-1912. | 4.1 | 20 |
| 94 | Aiding eco-labelling process and its implementation: Environmental Impact Assessment Methodology to define Product Category Rules for canned anchovies. MethodsX, 2017, 4, 143-152. | 1.6 | 1 |
| 95 | Productivity and Selectivity of Gasâ€Phase CO<sub>2</sub> Electroreduction to Methane at Copper Nanoparticleâ€Based Electrodes. Energy Technology, 2017, 5, 922-928. | 3.8 | 72 |
| 96 | Environmental challenges of the chlor-alkali production: Seeking answers from a life cycle approach. Science of the Total Environment, 2017, 580, 147-157. | 8.0 | 48 |
| 97 | Electrochemical impedance spectroscopy of enhanced layered nanocomposite ion exchange membranes. Journal of Membrane Science, 2017, 541, 611-620. | 8.2 | 10 |
| 98 | Separation of CO2-N2 gas mixtures: Membrane combination and temperature influence. Separation and Purification Technology, 2017, 188, 197-205. | 7.9 | 20 |
| 99 | Hybrid Solvent ([emim][Ac]+water) To Improve the CO<sub>2</sub> Capture Efficiency in a PVDF Hollow Fiber Contactor. ACS Sustainable Chemistry and Engineering, 2017, 5, 734-743. | 6.7 | 19 |
| 100 | Valorization of desalination brines by electrodialysis with bipolar membranes using nanocomposite anion exchange membranes. Desalination, 2017, 406, 16-24. | 8.2 | 44 |
| 101 | Copperâ€Based Metalâ€“Organic Porous Materials for CO<sub>2</sub> Electrocatalytic Reduction to Alcohols. ChemSusChem, 2017, 10, 1100-1109. | 6.8 | 316 |
| 102 | Introducing life cycle thinking to define best available techniques for products: Application to the anchovy canning industry. Journal of Cleaner Production, 2017, 155, 139-150. | 9.3 | 27 |
| 103 | Measuring the Vulnerability of an Energy Intensive Sector to the EU ETS under a Life Cycle Approach: The Case of the Chlor-Alkali Industry. Sustainability, 2017, 9, 837. | 3.2 | 6 |
| 104 | Addressing decision-making in the process industry using life cycle approach coupled to Linear Programming: A case study on anchovy canning industry in Cantabria Region (Northern Spain). Computer Aided Chemical Engineering, 2017, 40, 2023-2028. | 0.5 | 1 |
| 105 | Life cycle modelling of a handicraft sector: the anchovy canning industry in Cantabria (Northern) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 0.5 | 1 |
| 106 | High Performance of Alkaline Anion-Exchange Membranes Based on Chitosan/Poly (vinyl) Alcohol Doped with Graphene Oxide for the Electrooxidation of Primary Alcohols. Journal of Carbon Research, 2016, 2, 10. | 2.7 | 15 |
| 107 | Mixed Matrix Membranes for O2/N2 Separation: The Influence of Temperature. Membranes, 2016, 6, 28. | 3.0 | 27 |
| 108 | Electrochemical membrane reactors for the utilisation of carbon dioxide. Chemical Engineering Journal, 2016, 305, 104-120. | 12.7 | 104 |

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|---|---|---|---|
| 109 | The Energy-Water-Food Nexus. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 239-262. | 6.8 | 101 |
| 110 | Estimating airborne heavy metal concentrations in Dunkerque (northern France). Arabian Journal of Geosciences, 2016, 9, 1. | 1.3 | 1 |
| 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. | 4.6 | 39 |
| 112 | Waste management under a life cycle approach as a tool for a circular economy in the canned anchovy industry. Waste Management and Research, 2016, 34, 724-733. | 3.9 | 42 |
| 113 | PERFORMANCE ASSESSMENT OF A POLYMER ELECTROLYTE MEMBRANE ELECTROCHEMICAL REACTOR UNDER ALKALINE CONDITIONS â" A CASE STUDY WITH THE ELECTROOXIDATION OF ALCOHOLS. Electrochimica Acta, 2016, 206, 165-175. | 5.2 | 4 |
| 114 | In Silico Evaluation of Ultrafiltration and Nanofiltration Membrane Cascades for Continuous Fractionation of Protein Hydrolysate from Tuna Processing Byproduct. Industrial & Engineering Chemistry Research, 2016, 55, 7493-7504. | 3.7 | 8 |
| 115 | Electrosynthesis of dimethyl carbonate from methanol and <scp>CO<sub>2</sub></scp> using potassium methoxide and the ionic liquid [bmim][Br] in a filterâ€press cell: a study of the influence of cell configuration. Journal of Chemical Technology and Biotechnology, 2016, 91, 507-513. | 3.2 | 21 |
| 116 | Cu2O-loaded gas diffusion electrodes for the continuous electrochemical reduction of CO2 to methanol. Journal of Catalysis, 2016, 343, 232-239. | 6.2 | 222 |
| 117 | Environmental Assessment of Dimethyl Carbonate Production: Comparison of a Novel Electrosynthesis Route Utilizing CO<sub>2</sub>with a Commercial Oxidative Carbonylation Process. ACS Sustainable Chemistry and Engineering, 2016, 4, 2088-2097. | 6.7 | 85 |
| 118 | Electrodialysis with Bipolar Membranes for Valorization of Brines. Separation and Purification Reviews, 2016, 45, 275-287. | 5.5 | 51 |
| 119 | Modeling of the binodal curve of ionic liquid/salt aqueous systems. Fluid Phase Equilibria, 2016, 426, 10-16. | 2.5 | 10 |
| 120 | Energyâ€"waterâ€"food nexus in the Spanish greenhouse tomato production. Clean Technologies and Environmental Policy, 2016, 18, 1307-1316. | 4.1 | 40 |
| 121 | Local source identification of trace metals in urban/industrial mixed land-use areas with daily PM10 limit value exceedances. Atmospheric Research, 2016, 171, 92-106. | 4.1 | 23 |
| 122 | Microalgae biorefinery alternatives and hazard evaluation. Chemical Engineering Research and Design, 2016, 107, 117-125. | 5.6 | 13 |
| 123 | Permselectivity improvement in membranes for CO2/N2 separation. Separation and Purification Technology, 2016, 157, 102-111. | 7.9 | 37 |
| 124 | Hybrid Ionic Liquid-Chitosan Membranes for CO2 Separation: Mechanical and Thermal Behavior. International Journal of Chemical Reactor Engineering, 2016, 14, 713-718. | 1.1 | 17 |
| 125 | Chitosan:poly (vinyl) alcohol composite alkaline membrane incorporating organic ionomers and layered silicate materials into a PEM electrochemical reactor. Journal of Membrane Science, 2016, 498, 395-407. | 8.2 | 44 |
| 126 | Membrane modules for CO 2 capture based on PVDF hollow fibers with ionic liquids immobilized. Journal of Membrane Science, 2016, 498, 218-226. | 8.2 | 41 |

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|---|---|---|---|
| 127 | Multiobjective Optimization of Membrane Networks for Fractionation of Protein Hydrolysate from Fish By-Products. Computer Aided Chemical Engineering, 2016, , 415-420. | 0.5 | 4 |
| 128 | Renewable electricity integration at a regional level: Cantabria case study. Computer Aided Chemical Engineering, 2016, 38, 211-216. | 0.5 | 0 |
| 129 | Supported Magnetic Ionic Liquid Membranes. , 2016, , 1862-1863. | | 0 |
| 130 | Life cycle assessment of technologies for partial dealcoholisation of wines. Sustainable Production and Consumption, 2015, 2, 29-39. | 11.0 | 26 |
| 131 | CO2electro-valorization to dimethyl carbonate from methanol using potassium methoxide and the ionic liquid [bmim][Br] in a filter-press electrochemical cell. Journal of Chemical Technology and Biotechnology, 2015, 90, 1433-1438. | 3.2 | 17 |
| 132 | LTA/Poly(1â€trimethylsilylâ€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. | 1.5 | 39 |
| 133 | Multiobjective Optimization Applied to the Integration of Polyamide and Cellulose Acetate Reverse Osmosis Membranes in Hybrid Cascades for Ultrapurification of Wet Chemicals. Industrial & Engineering Chemistry Research, 2015, 54, 1006-1014. | 3.7 | 0 |
| 134 | Towards the electrochemical conversion of carbon dioxide into methanol. Green Chemistry, 2015, 17, 2304-2324. | 9.0 | 441 |
| 135 | Arsenic removal from drinking water by reverse osmosis: Minimization of costs and energy consumption. Separation and Purification Technology, 2015, 144, 46-53. | 7.9 | 118 |
| 136 | Ionic liquids in the electrochemical valorisation of CO<sub>2</sub>. Energy and Environmental Science, 2015, 8, 2574-2599. | 30.8 | 172 |
| 137 | Estimation of PM10-Bound As, Cd, Ni and Pb Levels by Means of Statistical Modelling: PLSR and ANN Approaches. Water, Air, and Soil Pollution, 2015, 226, 1. | 2.4 | 0 |
| 138 | Environmental sustainability assessment of the management of municipal solid waste incineration residues: a review of the current situation. Clean Technologies and Environmental Policy, 2015, 17, 1333-1353. | 4.1 | 116 |
| 139 | Preparation and characterization of novel chitosanâ€based mixed matrix membranes resistant in alkaline media. Journal of Applied Polymer Science, 2015, 132, . | 2.6 | 19 |
| 140 | Production of methanol from CO2 electroreduction at Cu2O and Cu2O/ZnO-based electrodes in aqueous solution. Applied Catalysis B: Environmental, 2015, 176-177, 709-717. | 20.2 | 249 |
| 141 | A comparative study between the fluxes of trace elements in bulk atmospheric deposition at industrial, urban, traffic, and rural sites. Environmental Science and Pollution Research, 2015, 22, 13427-13441. | 5.3 | 14 |
| 142 | Sustainability assessment of electrodialysis powered by photovoltaic solar energy for freshwater production. Renewable and Sustainable Energy Reviews, 2015, 47, 604-615. | 16.4 | 63 |
| 143 | Electrocatalytic reduction of CO2 to formate using particulate Sn electrodes: Effect of metal loading and particle size. Applied Energy, 2015, 157, 165-173. | 10.1 | 116 |
| 144 | Synthesis and characterisation of MOF/ionic liquid/chitosan mixed matrix membranes for CO<sub>2</sub>/N<sub>2</sub> separation. RSC Advances, 2015, 5, 102350-102361. | 3.6 | 102 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Integration of quality-dependent prices in the optimization strategy for chemicals ultrapurification by reverse osmosis membrane cascades. Desalination and Water Treatment, 2015, 56, 3486-3493. | 1.0 | 1 |
| 146 | Recovery of desalination brines: separation of calcium, magnesium and sulfate as a pre-treatment step. Desalination and Water Treatment, 2015, 56, 3617-3625. | 1.0 | 19 |
| 147 | Global warming footprint of the electrochemical reduction of carbon dioxide to formate. Journal of Cleaner Production, 2015, 104, 148-155. | 9.3 | 82 |
| 148 | Ionic liquidâ€based three phase partitioning (<scp>ILTPP</scp>) systems for whey protein recovery: ionic liquid selection. Journal of Chemical Technology and Biotechnology, 2015, 90, 939-946. | 3.2 | 33 |
| 149 | Overview of the PCDD/Fs degradation potential and formation risk in the application of advanced oxidation processes (AOPs) to wastewater treatment. Chemosphere, 2015, 118, 44-56. | 8.2 | 102 |
| 150 | Nanofiltration separation of polyvalent and monovalent anions in desalination brines. Journal of Membrane Science, 2015, 473, 16-27. | 8.2 | 131 |
| 151 | Optimization of ionic liquid recycling in Ionic Liquid-based Three Phase Partitioning processes. Computer Aided Chemical Engineering, 2015, 37, 1475-1480. | 0.5 | 0 |
| 152 | Synergistic Effect of Combining Titanosilicate and 1-Ethyl-3-Methylimidazolium Acetate in Mixed Matrix Membranes for Efficient C02 Separation. European Journal of Sustainable Development (discontinued), 2015, 4, . | 0.9 | 1 |
| 153 | Separation of Proteins by Ionic Liquid-Based Three-Phase Partitioning. , 2014, , 207-234. | | 2 |
| 154 | Ionic Liquid-Based Three Phase Partitioning (ILTPP) for Lactoferrin Recovery. Separation Science and Technology, 2014, 49, 957-965. | 2.5 | 24 |
| 155 | Synthesis and Characterisation of ETS-10/Acetate-based Ionic Liquid/Chitosan Mixed Matrix Membranes for CO2/N2 Permeation. Membranes, 2014, 4, 287-301. | 3.0 | 51 |
| 156 | Ionic liquid recovery alternatives in ionic liquidâ€based threeâ€phase partitioning (ILTPP). AICHE Journal, 2014, 60, 3577-3586. | 3.6 | 21 |
| 157 | Continuous electroreduction of CO<sub>2</sub> to formate using Sn gas diffusion electrodes. AICHE Journal, 2014, 60, 3557-3564. | 3.6 | 81 |
| 158 | Kinetic analysis and biodegradability of the Fenton mineralization of bisphenol A. Journal of Chemical Technology and Biotechnology, 2014, 89, 1228-1234. | 3.2 | 15 |
| 159 | Life cycle assessment modelling of waste-to-energy incineration in Spain and Portugal. Waste Management and Research, 2014, 32, 492-499. | 3.9 | 36 |
| 160 | Preliminary assessment of soil contamination by hydrocarbon storage activities: Main site investigation selection. Journal of Geochemical Exploration, 2014, 147, 283-290. | 3.2 | 11 |
| 161 | Acetate based Supported Ionic Liquid Membranes (SILMs) for CO2 separation: Influence of the temperature. Journal of Membrane Science, 2014, 452, 277-283. | 8.2 | 145 |
| 162 | Analysis and optimization of continuous organic solvent nanofiltration by membrane cascade for pharmaceutical separation. AICHE Journal, 2014, 60, 931-948. | 3.6 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Ionic liquid-based three phase partitioning (ILTPP) systems: Ionic liquid recovery and recycling. Fluid Phase Equilibria, 2014, 371, 67-74. | 2.5 | 42 |
| 164 | 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. | 4.1 | 35 |
| 165 | Arsenic Removal from Natural Waters by Adsorption or Ion Exchange: An Environmental Sustainability Assessment. Industrial & Engineering Chemistry Research, 2014, 53, 18920-18927. | 3.7 | 50 |
| 166 | Environmental sustainability assessment in the process industry: A case study of waste-to-energy plants in Spain. Resources, Conservation and Recycling, 2014, 93, 144-155. | 10.8 | 43 |
| 167 | Magnetic ionic liquids: synthesis, properties and applications. RSC Advances, 2014, 4, 40008-40018. | 3.6 | 164 |
| 168 | The critical role of the operating conditions on the Fenton oxidation of 2-chlorophenol: Assessment of PCDD/Fs formation. Journal of Hazardous Materials, 2014, 279, 579-585. | 12.4 | 20 |
| 169 | Synthesis and characterization of Magnetic Ionic Liquids (<scp>MILs</scp>) for <scp>CO<sub>2</sub></scp> separation. Journal of Chemical Technology and Biotechnology, 2014, 89, 866-871. | 3.2 | 89 |
| 170 | Synthesis and Characterization of ETS-10/Chitosan Nanocomposite Membranes for Pervaporation. Separation Science and Technology, 2014, 49, 1903-1909. | 2.5 | 23 |
| 171 | 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. | 3.4 | 32 |
| 172 | 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. | 4.1 | 45 |
| 173 | Discussion on graphical methods to identify point sources from wind and particulate matter-bound metal data. Urban Climate, 2014, 10, 671-681. | 5.7 | 7 |
| 174 | A comparison of models for assessing human risks of petroleum hydrocarbons in polluted soils. Environmental Modelling and Software, 2014, 55, 61-69. | 4.5 | 22 |
| 175 | Continuous electrochemical reduction of carbon dioxide into formate using a tin cathode: Comparison with lead cathode. Chemical Engineering Research and Design, 2014, 92, 692-701. | 5.6 | 92 |
| 176 | Non-dispersive absorption of CO2 in [emim][EtSO4] and [emim][Ac]: Temperature influence. Separation and Purification Technology, 2014, 132, 120-125. | 7.9 | 40 |
| 177 | Effective Lifetime Study of Commercial Reverse Osmosis Membranes for Optimal Hydrogen Peroxide Ultrapurification Processes. Industrial & Engineering Chemistry Research, 2013, 52, 17270-17284. | 3.7 | 16 |
| 178 | Permeability modulation of Supported Magnetic Ionic Liquid Membranes (SMILMs) by an external magnetic field. Journal of Membrane Science, 2013, 430, 56-61. | 8.2 | 83 |
| 179 | Assessment of soil pollution based on total petroleum hydrocarbons and individual oil substances. Journal of Environmental Management, 2013, 130, 72-79. | 7.8 | 128 |
| 180 | A group contribution method for the influence of the temperature in the viscosity of magnetic ionic liquids. Fluid Phase Equilibria, 2013, 360, 29-35. | 2.5 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | 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. | 8.2 | 47 |
| 182 | Stochastic MILP model for optimal timing of investments in CO2 capture technologies under uncertainty in prices. Energy, 2013, 54, 343-351. | 8.8 | 31 |
| 183 | Analysis and Modeling of the Continuous Electro-oxidation Process for Organic Matter Removal in Urban Wastewater Treatment. Industrial & Engineering Chemistry Research, 2013, 52, 7534-7540. | 3.7 | 25 |
| 184 | Environmental Sustainability Assessment of an Innovative Cr (III) Passivation Process. ACS Sustainable Chemistry and Engineering, 2013, 1, 481-487. | 6.7 | 17 |
| 185 | Ionic Liquids: Green Solvents for Chemical Processing. Journal of Chemistry, 2013, 2013, 1-2. | 1.9 | 35 |
| 186 | Decision tool for the selection among different reverse osmosis membranes for hydrogen peroxide ultrapurification. Computer Aided Chemical Engineering, 2013, , 745-750. | 0.5 | 1 |
| 187 | Variability in metal deposition among industrial, rural and urban areas in the Cantabria Region (Northern Spain). , 2013, , . | | 3 |
| 188 | Conversion of carbon dioxide into formate using a continuous electrochemical reduction process in a lead cathode. Chemical Engineering Journal, 2012, 207-208, 278-284. | 12.7 | 114 |
| 189 | Analysis of Hybrid Reverse Osmosis Cascades for Ultrapurification of Chemicals. Procedia Engineering, 2012, 44, 1653-1654. | 1.2 | 0 |
| 190 | Evaluation of the urban/rural particle-bound PAH and PCB levels in the northern Spain (Cantabria) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 2.7 | 23 |
| 191 | Multi-objective optimization of coal-fired electricity production with CO2 capture. Applied Energy, 2012, 98, 266-272. | 10.1 | 42 |
| 192 | MINLP model for optimizing electricity production from coal-fired power plants considering carbon management. Energy Policy, 2012, 51, 493-501. | 8.8 | 16 |
| 193 | Separation performance of CO2 through Supported Magnetic Ionic Liquid Membranes (SMILMs). Separation and Purification Technology, 2012, 97, 26-33. | 7.9 | 98 |
| 194 | Extraction of lactoferrin with hydrophobic ionic liquids. Separation and Purification Technology, 2012, 98, 432-440. | 7.9 | 53 |
| 195 | Multiobjective optimization of membrane processes for chemicals ultrapurification. Computer Aided Chemical Engineering, 2012, , 542-546. | 0.5 | 13 |
| 196 | Nonâ€dispersive absorption of CO<sub>2</sub> in parallel and crossâ€flow membrane modules using EMISE. Journal of Chemical Technology and Biotechnology, 2012, 87, 1502-1507. | 3.2 | 50 |
| 197 | Optimum design of reverse osmosis systems for hydrogen peroxide ultrapurification. AICHE Journal, 2012, 58, 3718-3730. | 3.6 | 23 |
| 198 | Environmental and economic evaluation of SO2 recovery in a ceramic hollow fibre membrane contactor. Chemical Engineering and Processing: Process Intensification, 2012, 52, 151-154. | 3.6 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Analysis, modelling and simulation of hydrogen peroxide ultrapurification by multistage reverse osmosis. Chemical Engineering Research and Design, 2012, 90, 442-452. | 5.6 | 18 |
| 200 | Optimization of global and local pollution control in electricity production from coal burning. Applied Energy, 2012, 92, 369-378. | 10.1 | 58 |
| 201 | Integrated countercurrent reverse osmosis cascades for hydrogen peroxide ultrapurification. Computers and Chemical Engineering, 2012, 41, 67-76. | 3.8 | 29 |
| 202 | Multi-objective optimization of coal-fired electricity production with CO2 capture. Computer Aided Chemical Engineering, 2012, 30, 277-281. | 0.5 | 0 |
| 203 | Assessment of regional metal levels in ambient air by statistical regression models. Journal of Environmental Monitoring, 2011, 13, 1991. | 2.1 | 2 |
| 204 | Design of ionic liquids: an ecotoxicity (Vibrio fischeri) discrimination approach. Green Chemistry, 2011, 13, 1507. | 9.0 | 130 |
| 205 | Absorption of coal combustion flue gases in ionic liquids using different membrane contactors. Desalination and Water Treatment, 2011, 27, 54-59. | 1.0 | 51 |
| 206 | Regional evaluation of particulate matter composition in an Atlantic coastal area (Cantabria region,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5<br>2011, 101, 280-293. | 4.1 | 39 |
| 207 | Contribution of point sources to trace metal levels in urban areas surrounded by industrial activities in the Cantabria Region (Northern Spain). Procedia Environmental Sciences, 2011, 4, 76-86. | 1.4 | 7 |
| 208 | Multi-objective optimization of the electricity production from coal burning. Computer Aided Chemical Engineering, 2011, 29, 1814-1818. | 0.5 | 1 |
| 209 | Membrane process optimization for hydrogen peroxide ultrapurification. Computer Aided Chemical Engineering, 2011, , 678-682. | 0.5 | 7 |
| 210 | Modelling and process integration of carbon dioxide capture using membrane contactors. Computer Aided Chemical Engineering, 2011, 29, 1261-1265. | 0.5 | 0 |
| 211 | Impact of the global economic crisis on metal levels in particulate matter (PM) at an urban area in the Cantabria Region (Northern Spain). Environmental Pollution, 2011, 159, 1129-1135. | 7.5 | 40 |
| 212 | Design of the Photovoltaic Solar Electro-Oxidation (PSEO) process for wastewater treatment. Chemical Engineering Research and Design, 2011, 89, 2679-2685. | 5.6 | 32 |
| 213 | Organochlorine pesticide residues in sediments from coastal environment of Cantabria (northern) Tj ETQq1 1 0.784314 rgBT /Overlock<br>385-401. | 2.7 | 20 |
| 214 | Assessment of PCDD/Fs and PCBs in Sediments from the Spanish Northern Atlantic Coast. Water, Air, and Soil Pollution, 2011, 221, 287-299. | 2.4 | 18 |
| 215 | Photovoltaic solar electro-oxidation (PSEO) process for wastewater treatment. Chemical Engineering Journal, 2011, 170, 7-13. | 12.7 | 24 |
| 216 | Modelling of a hollow fibre ceramic contactor for SO2 absorption. Separation and Purification Technology, 2010, 72, 174-179. | 7.9 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Prospective CO2 emissions from energy supplying systems: photovoltaic systems and conventional grid within Spanish frame conditions. International Journal of Life Cycle Assessment, 2010, 15, 557-566. | 4.7 | 24 |
| 218 | Decade-long monitoring reveals a transient distortion of baseline butyltin bioaccumulation pattern in gastropods. Marine Pollution Bulletin, 2010, 60, 931-934. | 5.0 | 18 |
| 219 | Photovoltaic solar electrochemical oxidation (PSEO) for treatment of lignosulfonate wastewater. Journal of Chemical Technology and Biotechnology, 2010, 85, 821-830. | 3.2 | 37 |
| 220 | Ultrapurification of hydrogen peroxide solution from ionic metals impurities to semiconductor grade by reverse osmosis. Separation and Purification Technology, 2010, 76, 44-51. | 7.9 | 25 |
| 221 | Separation of propylene/propane mixtures using Ag+â€“RTIL solutions. Evaluation and comparison of the performance of gasâ€“liquid contactors. Journal of Membrane Science, 2010, 360, 130-141. | 8.2 | 45 |
| 222 | Quantitative structureâ€“activity relationships (QSARs) to estimate ionic liquids ecotoxicity EC50 (Vibrio fischeri). Journal of Molecular Liquids, 2010, 152, 28-33. | 4.9 | 89 |
| 223 | Long-range magnetic ordering in magnetic ionic liquid: Emim[FeCl4]. Journal of Physics Condensed Matter, 2010, 22, 296006. | 1.8 | 43 |
| 224 | Intensification of Sulfur Dioxide Absorption: Environmental and Economic Optimization. Computer Aided Chemical Engineering, 2010, , 1003-1008. | 0.5 | 2 |
| 225 | Carbon Dioxide Capture from Flue Gases Using a Cross-Flow Membrane Contactor and the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethylsulfate. Industrial & Engineering Chemistry Research, 2010, 49, 11045-11051. | 3.7 | 171 |
| 226 | Evaluation of the contribution of local sources to trace metals levels in urban PM2.5 and PM10 in the Cantabria region (Northern Spain). Journal of Environmental Monitoring, 2010, 12, 1451. | 2.1 | 87 |
| 227 | Environmental Sustainability Assessment of Electricity From Fossil Fuel Combustion: Carbon Footprint. Low Carbon Economy, 2010, 01, 86-91. | 1.2 | 1 |
| 228 | Regulated metal levels in particulate matter in the Cantabria region (Northern Spain) using multivariate linear regression (MLR). , 2010, , . | | 0 |
| 229 | Modeling of Amphoteric Heavy Metals Solubility in Stabilized/Solidified Steel Foundry Dust. Environmental Engineering Science, 2009, 26, 251-262. | 1.6 | 7 |
| 230 | Zero solvent emission process for sulfur dioxide recovery using a membrane contactor and ionic liquids. Journal of Membrane Science, 2009, 330, 80-89. | 8.2 | 105 |
| 231 | Influence of commercial and residual sorbents and silicates as additives on the stabilisation/solidification of organic and inorganic industrial waste. Journal of Hazardous Materials, 2009, 164, 755-761. | 12.4 | 25 |
| 232 | Improvement of calcium fluoride crystallization by means of the reduction of fines formation. Chemical Engineering Journal, 2009, 154, 231-235. | 12.7 | 15 |
| 233 | Facilitated transport of CO2 and SO2 through Supported Ionic Liquid Membranes (SILMs). Desalination, 2009, 245, 485-493. | 8.2 | 124 |
| 234 | Hybrid Molecular QSAR Model for Toxicity Estimation: Application to Ionic Liquids. Computer Aided Chemical Engineering, 2009, 26, 63-67. | 0.5 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Removal of Arsenic(III), Chromium(III) and Iron(III) Traces from Hydrofluoric Acid Solutions by Specialty Anion Exchangers. Solvent Extraction and Ion Exchange, 2009, 27, 727-744. | 2.0 | 2 |
| 236 | Environmental Sustainability Normalization of Industrial Processes. Computer Aided Chemical Engineering, 2009, , 1105-1109. | 0.5 | 17 |
| 237 | Sulfur dioxide nonâ€dispersive absorption in N,Nâ€dimethylaniline using a ceramic membrane contactor. Journal of Chemical Technology and Biotechnology, 2008, 83, 1570-1577. | 3.2 | 17 |
| 238 | Resources reduction in the fluorine industry: fluoride removal and recovery in a fluidized bed crystallizer. Clean Technologies and Environmental Policy, 2008, 10, 203-210. | 4.1 | 15 |
| 239 | Electrochemical Oxidation of Lignosulfonate: Total Organic Carbon Oxidation Kinetics. Industrial & Engineering Chemistry Research, 2008, 47, 9848-9853. | 3.7 | 40 |
| 240 | Life Cycle Assessment as a Tool for Cleaner Production: Application to Aluminium Trifluoride. International Journal of Chemical Reactor Engineering, 2007, 5, . | 1.1 | 4 |
| 241 | Recovery of Sulfur Dioxide Using Non-Dispersive Absorption. International Journal of Chemical Reactor Engineering, 2007, 5, . | 1.1 | 4 |
| 242 | Calcium fluoride recovery from fluoride wastewater in a fluidized bed reactor. Water Research, 2007, 41, 810-818. | 11.3 | 114 |
| 243 | A novel group contribution method in the development of a QSAR for predicting the toxicity (Vibrio) Tj ETQq1 1 0.784314 rgBT /Over | 6.0 | 134 |
| 244 | Physico-chemical and toxicological characterization of the historic estuarine sediments: A multidisciplinary approach. Environment International, 2007, 33, 436-444. | 10.0 | 64 |
| 245 | Distribution of butyltin and derivatives in oyster shells and trapped sediments of two estuaries in Cantabria (Northern Spain). Chemosphere, 2007, 67, 623-629. | 8.2 | 23 |
| 246 | Modeling of particle growth: Application to water treatment in a fluidized bed reactor. Chemical Engineering Journal, 2007, 134, 66-71. | 12.7 | 34 |
| 247 | Particle growth kinetics of calcium fluoride in a fluidized bed reactor. Chemical Engineering Science, 2007, 62, 2958-2966. | 3.8 | 41 |
| 248 | Modeling of zinc solubility in stabilized/solidified electric arc furnace dust. Journal of Hazardous Materials, 2007, 144, 720-724. | 12.4 | 21 |
| 249 | Mathematical modelling of phenol photooxidation: Kinetics of the process toxicity. Chemical Engineering Journal, 2007, 134, 23-28. | 12.7 | 27 |
| 250 | Purification of dilute hydrofluoric acid by commercial ion exchange resins. Separation and Purification Technology, 2007, 56, 118-125. | 7.9 | 19 |
| 251 | Fluoride Recovery in a Fluidized Bed:Â Crystallization of Calcium Fluoride on Silica Sand. Industrial & Engineering Chemistry Research, 2006, 45, 796-802. | 3.7 | 41 |
| 252 | Use of membrane contactors as an efficient alternative to reduce effluent ecotoxicity. Desalination, 2006, 191, 79-85. | 8.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Influence of the Organic Compounds on the Ecotoxicity in the Treatment of Foundry Sludge and Olive Mill Waste. Annali Di Chimica, 2006, 96, 505-514. | 0.6 | 2 |
| 254 | Integration along the lifecycle of calcium fluoride in the fluorine industry. Computer Aided Chemical Engineering, 2006, , 811-816. | 0.5 | 1 |
| 255 | Mechanical Properties and Environmental Assessment of Mortars Containing Metallic Oxides. Journal of Environmental Engineering, ASCE, 2006, 132, 949-955. | 1.4 | 2 |
| 256 | Membrane contactors for the recovery of metallic compounds. Journal of Membrane Science, 2005, 257, 161-170. | 8.2 | 55 |
| 257 | Fluidized bed reactor for fluoride removal. Chemical Engineering Journal, 2005, 107, 113-117. | 12.7 | 69 |
| 258 | Mechanistical and non-linear modelling approaches to in-duct desulfurization. Chemical Engineering and Processing: Process Intensification, 2005, 44, 709-715. | 3.6 | 11 |
| 259 | Modelling of in-duct desulfurization reactors. Chemical Engineering Journal, 2005, 107, 119-125. | 12.7 | 18 |
| 260 | ALKYD PAINT WASTE CHARACTERIZATION AND DISTILLATION. Chemical Engineering Communications, 2005, 192, 1490-1504. | 2.6 | 10 |
| 261 | Environmental behavior of cement-based stabilized foundry sludge products incorporating additives. Journal of Hazardous Materials, 2004, 109, 45-52. | 12.4 | 16 |
| 262 | Environmental behaviour of stabilised foundry sludge. Journal of Hazardous Materials, 2004, 109, 95-104. | 12.4 | 32 |
| 263 | Ecotoxicity Assessment of Stabilized/Solidified Foundry Sludge. Environmental Science & Technology, 2004, 38, 1897-1900. | 10.0 | 21 |
| 264 | Neural network prediction of unconfined compressive strength of coal fly ashâ€“cement mixtures. Cement and Concrete Research, 2003, 33, 1137-1146. | 11.0 | 57 |
| 265 | Sorbent behavior in urban waste incineration: acid gas removal and thermogravimetric characterization. Thermochimica Acta, 2003, 397, 227-236. | 2.7 | 6 |
| 266 | Environmental assessment of cement/foundry sludge products. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 2.2 | 2 |
| 267 | Leaching Behavior of Lead, Chromium (III), and Zinc in Cement/Metal Oxides Systems. Journal of Environmental Engineering, ASCE, 2003, 129, 532-538. | 1.4 | 13 |
| 268 | SIMULATION OF THE FGD IN-DUCT INJECTION PROCESS AT LOW TEMPERATURES WITH COMPETITIVE REACTIONS. Clean Air, 2003, 4, 53-69. | 0.0 | 1 |
| 269 | Kinetic study of the hydrothermal reaction of fly ash with ca(oh)2 in the preparation of desulfurant sorbents. Chemical Engineering Communications, 2002, 189, 310-321. | 2.6 | 15 |
| 270 | BEHAVIOUR OF CEMENT/PLATING WASTE DERIVED PRODUCTS: UNCONFINED COMPRESSIVE STRENGTH AND SETTING TIME. , 2002, , 77-86. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | SO2Removal in the Filter Cake of a Jet-Pulsed Filter:Â A Combined Filter and Fixed-Bed Reaction Model. Industrial & Engineering Chemistry Research, 2002, 41, 5459-5469. | 3.7 | 8 |
| 272 | Environmental assessment of polycyclic aromatic hydrocarbons (PAHs) in surface sediments of the Santander Bay, Northern Spain. Chemosphere, 2002, 48, 157-165. | 8.2 | 172 |
| 273 | Binders based on cement/glassy combustion residues for the stabilisation/solidification of industrial wastes. Journal of Chemical Technology and Biotechnology, 2002, 77, 326-330. | 3.2 | 2 |
| 274 | Prediction of TCLP leachates of electric arc furnace dust/cement products using neural network analysis. Environmental Progress, 2002, 21, 95-104. | 0.7 | 6 |
| 275 | Waste minimisation in a hard chromiun plating small medium enterprise (SME). Waste Management, 2002, 22, 931-936. | 7.4 | 9 |
| 276 | Environmental assessment of lubricants before and after wire drawing process. Journal of Hazardous Materials, 2001, 85, 181-191. | 12.4 | 2 |
| 277 | Influence of lead, zinc, iron (III) and chromium (III) oxides on the setting time and strength development of Portland cement. Cement and Concrete Research, 2001, 31, 1213-1219. | 11.0 | 158 |
| 278 | Cement-Waste and Clay-Waste Derived Products from Metal Wastes. Chemical Engineering Research and Design, 2001, 79, 38-44. | 5.6 | 11 |
| 279 | Kinetics of dry flue gas desulfurization at low temperatures using Ca(OH)2: competitive reactions of sulfation and carbonation. Chemical Engineering Science, 2001, 56, 1387-1393. | 3.8 | 31 |
| 280 | Effect of CaSO4 on the structure and use of Ca(OH)2/fly ash sorbents for SO2 removal. Powder Technology, 2001, 119, 201-205. | 4.2 | 42 |
| 281 | Simulation of the FGD in-duct injection technology using complex kinetic models. Computer Aided Chemical Engineering, 2001, , 147-152. | 0.5 | 2 |
| 282 | Analysis of literature data from 3,000 cement/waste products. Waste Management Series, 2000, 1, 332-343. | 0.0 | 0 |
| 283 | Environmental Characterisation of Ferrous Foundry Wastes. Environmental Technology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 2.2 | 7 |
| 284 | Thermogravimetric determination of the influence of water vapour in the FGD in-duct injection at low temperatures. Journal of Chemical Technology and Biotechnology, 2000, 75, 484-490. | 3.2 | 6 |
| 285 | Characterization of metal finishing sludges: influence of the pH. Journal of Hazardous Materials, 2000, 79, 63-75. | 12.4 | 26 |
| 286 | Characterisation and management of incinerator wastes. Journal of Hazardous Materials, 2000, 79, 215-227. | 12.4 | 63 |
| 287 | INFLUENCE OF PARTICLE SIZE AND STRUCTURAL PROPERTIES OF SORBENTS PREPARED FROM FLY-ASH AND Ca(OH)2 ON THE SO2 REMOVAL ABILITY. Chemical Engineering Communications, 2000, 182, 69-80. | 2.6 | 8 |
| 288 | Environmental Characterization of Metal Finishing Sludges. Environmental Technology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 | 2.2 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Microstructural Changes in the Desulfurization Reaction at Low Temperature. Industrial & Engineering Chemistry Research, 1999, 38, 1384-1390. | 3.7 | 36 |
| 290 | SO2 reaction with Ca(OH)2 at medium temperatures (300â€“425Â°C). Chemical Engineering Science, 1998, 53, 1869-1881. | 3.8 | 28 |
| 291 | Flue-gas desulfurization at medium temperatures. Kinetic model validation from thermogravimetric data. Fuel, 1998, 77, 749-755. | 6.4 | 11 |
| 292 | Experimental study of the waste binder anhydrite in the solidification/ stabilization process of heavy metal sludges. Journal of Hazardous Materials, 1998, 57, 155-168. | 12.4 | 36 |
| 293 | Viability of the separation of Cd from highly concentrated Niâ^'Cd mixtures by non-dispersive solvent extraction. Chemical Engineering Journal, 1998, 70, 237-243. | 12.7 | 25 |
| 294 | Separation of L-Phenylalanine by Nondispersive Extraction and Backextraction. Equilibrium and Kinetic Parameters. Separation Science and Technology, 1998, 33, 119-139. | 2.5 | 34 |
| 295 | Separation of Cr (VI) with Aliquat 336: Chemical Equilibrium Modeling. Separation Science and Technology, 1997, 32, 1543-1555. | 2.5 | 46 |
| 296 | Preparation and characterization of fly ash/hydrated lime sorbents for SO2 removal. Powder Technology, 1997, 94, 133-139. | 4.2 | 58 |
| 297 | Kinetic modelling of cadmium removal from phosphoric acid by non-dispersive solvent extraction. Journal of Membrane Science, 1997, 130, 193-203. | 8.2 | 49 |
| 298 | Kinetics of flue gas desulphurization at low temperatures: fly ash/calcium (31) sorbent behaviour. Chemical Engineering Science, 1997, 52, 715-732. | 3.8 | 59 |
| 299 | MODELLING OF LIQUID-LIQUID NON-DISPERSIVE EXTRACTION PROCESSES IN HOLLOW FIBER MODULES. , 1997, , . | | 0 |
| 300 | VIABILITY OF THE LIQUID-LIQUID SEPARATION OF CADMIUM FROM PHOSPHORIC ACID USING ALIQUAT 336 AS EXTRACTANT. , 1997, , . | | 0 |
| 301 | SEPARATION PROCESSES BY NON-DISPERSIVE LIQUID-LIQUID EXTRACTION. MATHEMATICAL MODELLING OF THE SEPARATION SELECTIVITY. , 1997, , . | | 0 |
| 302 | Kinetic Analysis of the Simultaneous Nondispersive Extraction and Back-Extraction of Chromium(VI). Industrial & Engineering Chemistry Research, 1996, 35, 1369-1377. | 3.7 | 81 |
| 303 | Desulfurization yield of calcium hydroxide/fly-ash mixtures. Thermogravimetric determination. Thermochimica Acta, 1996, 286, 173-185. | 2.7 | 24 |
| 304 | Membrane mass transport coefficient for the recovery of Cr(VI) in hollow fiber extraction and back-extraction modules. Journal of Membrane Science, 1996, 118, 213-221. | 8.2 | 60 |
| 305 | Nondispersive Extraction of Cr(VI) with Aliquat 336: Influence of Carrier Concentration. Separation Science and Technology, 1996, 31, 271-282. | 2.5 | 31 |
| 306 | Kinetic studies on low temperature, dry flue gas desulphurization. Coal Science and Technology, 1995, 24, 1859-1862. | 0.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Long-term behaviour of toxic metals in stabilized steel foundry dusts. Journal of Hazardous Materials, 1995, 40, 31-42. | 12.4 | 41 |
| 308 | Desulfurization rate at low temperatures using calcium hydroxide and fly ash. Coal Science and Technology, 1995, 24, 1863-1866. | 0.0 | 3 |
| 309 | The influence of binder/waste ratio on leaching characteristics of solidified/stabilized steel foundry dusts. Environmental Technology (United Kingdom), 1994, 15, 343-351. | 2.2 | 14 |
| 310 | Extraction of Cr(VI) with aliquat 336 in hollow fiber contactors: mass transfer analysis and modeling. Chemical Engineering Science, 1994, 49, 901-909. | 3.8 | 89 |
| 311 | Extraction of Anions with Aliquat 336: Chemical Equilibrium Modeling. Industrial & Engineering Chemistry Research, 1994, 33, 1765-1770. | 3.7 | 59 |
| 312 | Solidification/stabilization Process For Steel Foundry Dust Using Cement Based Binders: Influence Of Processing Variables. Waste Management and Research, 1994, 12, 405-415. | 3.9 | 0 |
| 313 | Response to "Comments on thermal dehydration of calcium hydroxide. 1. Kinetic model and parameters". Industrial & Engineering Chemistry Research, 1994, 33, 448-448. | 3.7 | 0 |
| 314 | Internal mass transfer in hollow fiber supported liquid membranes. AICHE Journal, 1993, 39, 521-525. | 3.6 | 27 |
| 315 | Flue gas desulfurization at low temperatures.Characterization of the structural changes in the solid sorbent. Powder Technology, 1993, 75, 167-172. | 4.2 | 17 |
| 316 | PHENOL RECOVERY WITH SLM USING â€œCYANEX 923â€• Chemical Engineering Communications, 1993, 120, 85-97. | 2.6 | 21 |
| 317 | Supported liquid membranes for the separation-concentration of phenol. 1. Viability and mass-transfer evaluation. Industrial & Engineering Chemistry Research, 1992, 31, 877-886. | 3.7 | 62 |
| 318 | Kinetics of the separation-concentration of chromium(VI) with emulsion liquid membranes. Industrial & Engineering Chemistry Research, 1992, 31, 1523-1529. | 3.7 | 76 |
| 319 | 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. | 3.7 | 35 |
| 320 | Effect of a variable solute distribution coefficient on mass separation in hollow fibers. Industrial & Engineering Chemistry Research, 1992, 31, 1362-1366. | 3.7 | 14 |
| 321 | Equilibrium and kinetics of chromium(VI) extraction with Aliquat 336. Industrial & Engineering Chemistry Research, 1992, 31, 1516-1522. | 3.7 | 84 |
| 322 | Flue gas desulphurization at low temperatures. Thermochimica Acta, 1992, 207, 255-264. | 2.7 | 14 |
| 323 | Kinetics of flue gas desulfurization at low temperatures: nonideal surface adsorption model. Chemical Engineering Science, 1992, 47, 1533-1543. | 3.8 | 43 |
| 324 | Mathematical Modelling of Phenol Recovery Using Supported Liquid Membranes.. Process Metallurgy, 1992, , 1539-1542. | 0.1 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Membrane Behaviour in Chromate Recovery Using Emulsion Liquid Membranes. Process Metallurgy, 1992, 7, 1585-1588. | 0.1 | 0 |
| 326 | Inertization of toxic wastes. Toxicological and Environmental Chemistry, 1991, 31, 593-601. | 1.2 | 2 |
| 327 | Recovery of Cr(VI) with Emulsion Liquid Membranes (ELM) in Mechanically Stirred Contactors. , 1991, , 641-646. | | 0 |
| 328 | Phenol Recovery with Supported Liquid Membranes: Experimental Study. , 1991, , 647-651. | | 2 |
| 329 | Kinetic model for desulfurization at low temperatures using calcium hydroxide. Chemical Engineering Science, 1990, 45, 3427-3433. | 3.8 | 30 |
| 330 | Kinetics of metal extraction: Model discrimination and parameter estimation. Chemical Engineering and Processing: Process Intensification, 1990, 27, 13-18. | 3.6 | 8 |
| 331 | Thermal dehydration of calcium hydroxide. 2. Surface area evolution. Industrial & Engineering Chemistry Research, 1990, 29, 1606-1611. | 3.7 | 10 |
| 332 | Thermal dehydration of calcium hydroxide. 1. Kinetic model and parameters. Industrial & Engineering Chemistry Research, 1990, 29, 1599-1606. | 3.7 | 51 |
| 333 | Kinetic behaviour of non-isothermal lime hydration. The Chemical Engineering Journal, 1989, 40, 93-99. | 0.3 | 10 |
| 334 | Integral kinetic analysis from temperature programmed reaction data: alkaline hydrolysis of ethyl acetate as test reaction. Thermochimica Acta, 1989, 141, 169-180. | 2.7 | 13 |
| 335 | Conversion into powder in the thermal decomposition of a complex solid containing ammonium hexafluoro-aluminate and aluminium oxide. Powder Technology, 1989, 57, 151-155. | 4.2 | 2 |
| 336 | Mathematical modelling of industrial reactions using thermoanalytical methods. Thermochimica Acta, 1988, 134, 441-444. | 2.7 | 0 |
| 337 | The behaviour of thienotriazolodiazepine drugs in acidic medium. Kinetics of hydrolysis of brotizolam. Die Pharmazie, 1988, 43, 212-3. | 0.5 | 4 |
| 338 | Kinetic modeling of the toluene chloromethylation. Industrial & Engineering Chemistry Research, 1987, 26, 1725-1735. | 3.7 | 4 |
| 339 | Relation between homogeneous acid catalysis and ion exchange resins using a test reaction. Applied Catalysis, 1987, 31, 179-191. | 0.8 | 4 |
| 340 | Kinetic analysis of the liquid-phase depolymerization of trioxane from programmed-temperature data. Journal of Thermal Analysis, 1987, 32, 997-1004. | 0.6 | 5 |
| 341 | Kinetic analysis of liquid-phase depolymerization of trioxane from programmed temperature data. Journal of Thermal Analysis, 1987, 32, 1333-1344. | 0.6 | 1 |
| 342 | Analysis and modelling of 1-butyl alcohol esterification with hydrobromic acid and sulfuric acid as homogeneous catalyst. Chemical Engineering Science, 1987, 42, 2467-2472. | 3.8 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Application of chitosan to cobalt recovery: Evaluation by factorial design of experiments. Journal of Applied Polymer Science, 1987, 33, 2107-2115. | 2.6 | 12 |
| 344 | Kinetic analysis of homogeneous acid catalysis in the chloromethylation of toluene. Journal of Molecular Catalysis, 1987, 39, 105-113. | 1.2 | 2 |
| 345 | On the modelling of catalytic activity in homogeneous liquid phase acid-base reactions. Journal of Molecular Catalysis, 1987, 43, 51-63. | 1.2 | 1 |
| 346 | Analysis and modelling of segregative reactions. 1-Butyl alcohol esterification with hydrobromic acid. Chemical Engineering Science, 1986, 41, 3031-3036. | 3.8 | 2 |
| 347 | Thermal decomposition of (C6H5-NH3)4Mo8O26 Â· 2H2O. isothermal and non-isothermal kinetic analysis. Thermochimica Acta, 1986, 98, 81-87. | 2.7 | 2 |
| 348 | Purification of industrial acrylamide by ion exchange. Industrial & Engineering Chemistry Process Design and Development, 1986, 25, 771-776. | 0.6 | 2 |
| 349 | Kinetic analysis for liquid-phase reactions from programmed temperature data. Thermochimica Acta, 1985, 94, 323-331. | 2.7 | 9 |
| 350 | Kinetic analysis for liquid-phase reactions from programmed temperature data. Thermochimica Acta, 1985, 94, 333-343. | 2.7 | 7 |
| 351 | Thermal dehydration of (C6H5î—¸NH3)4Mo8O26 Â· 2H2O. Isothermal kinetic analysis. Thermochimica Acta, 1984, 75, 1-8. | 2.7 | 6 |
| 352 | Kinetic analysis of thermogravimetric data; discrimination of integral models. Thermochimica Acta, 1984, 73, 101-108. | 2.7 | 27 |
| 353 | Thermogravimetric study of (C6H5NH3)4Mo8O26Â·2H2O. isothermal decomposition of aniline. Journal of Thermal Analysis, 1984, 29, 251-255. | 0.6 | 4 |
| 354 | Reaction scheme in the non-isothermal decomposition of (C6H5NH3)4Mo8O26 Â· 2 H2O. Journal of Thermal Analysis, 1984, 29, 589-596. | 0.6 | 6 |
| 355 | Kinetic interpretation of the thermal decomposition of anilinium octamolybdate at different heating rate. Journal of Thermal Analysis, 1984, 29, 1131-1137. | 0.6 | 17 |
| 356 | EinfluÃŸ der Reaktionsbedingungen bei der Chlormethylierung von Styrol. Angewandte Makromolekulare Chemie, 1982, 105, 91-97. | 0.2 | 1 |
| 357 | IMPROVING GAS BARRIER PROPERTIES USING MIXED MATRIX MEMBRANES BASED ON ION EXCHANGE CAPACITIES OF THE POLYMERS. , 0, , . | | 0 |
| 358 | Study of alcohol diffusion through commercial anion exchange membranes for CO2 electrolyzers. , 0, , . | | 0 |
| 359 | Continuous gas-phase electrochemical reduction of CO2 to formate using Bi Catalyst Coated Membrane Electrodes in a filter press reactor Â. , 0, , . | | 0 |