

Jonathan Albo

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

4,350
citations

109264

35
h-index

175177

52
g-index

56
all docs

56
docs citations

56
times ranked

4248
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 ₂ Electrocatalytic Reduction to Alcohols. <i>ChemSusChem</i> , 2017, 10, 1100-1109.	3.6	316
3	Production of methanol from CO ₂ electroreduction at Cu ₂ O and Cu ₂ O/ZnO-based electrodes in aqueous solution. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 709-717.	10.8	249
4	Cu ₂ O-loaded gas diffusion electrodes for the continuous electrochemical reduction of CO ₂ to methanol. <i>Journal of Catalysis</i> , 2016, 343, 232-239.	3.1	222
5	Ionic liquids in the electrochemical valorisation of CO ₂ . <i>Energy and Environmental Science</i> , 2015, 8, 2574-2599.	15.6	172
6	Carbon Dioxide Capture from Flue Gases Using a Cross-Flow Membrane Contactor and the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethylsulfate. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11045-11051.	1.8	171
7	Magnetic ionic liquids: synthesis, properties and applications. <i>RSC Advances</i> , 2014, 4, 40008-40018.	1.7	164
8	Cu/Bi metal-organic framework-based systems for an enhanced electrochemical transformation of CO ₂ to alcohols. <i>Journal of CO₂ Utilization</i> , 2019, 33, 157-165.	3.3	163
9	Acetate based Supported Ionic Liquid Membranes (SILMs) for CO ₂ separation: Influence of the temperature. <i>Journal of Membrane Science</i> , 2014, 452, 277-283.	4.1	145
10	Methanol electrosynthesis from CO ₂ at Cu ₂ O/ZnO prompted by pyridine-based aqueous solutions. <i>Journal of CO₂ Utilization</i> , 2017, 18, 164-172.	3.3	123
11	Synthesis of heterometallic metal-organic frameworks and their performance as electrocatalyst for CO ₂ reduction. <i>RSC Advances</i> , 2018, 8, 21092-21099.	1.7	108
12	Electrochemical membrane reactors for the utilisation of carbon dioxide. <i>Chemical Engineering Journal</i> , 2016, 305, 104-120.	6.6	104
13	Separation performance of CO ₂ through Supported Magnetic Ionic Liquid Membranes (SMILMs). <i>Separation and Purification Technology</i> , 2012, 97, 26-33.	3.9	98
14	Cu oxide/ZnO-based surfaces for a selective ethylene production from gas-phase CO ₂ electroconversion. <i>Journal of CO₂ Utilization</i> , 2019, 31, 135-142.	3.3	97
15	Gas transport properties of interfacially polymerized polyamide composite membranes under different pre-treatments and temperatures. <i>Journal of Membrane Science</i> , 2014, 449, 109-118.	4.1	95
16	Tailoring gas-phase CO ₂ electroreduction selectivity to hydrocarbons at Cu nanoparticles. <i>Nanotechnology</i> , 2018, 29, 014001.	1.3	92
17	Synthesis and characterization of Magnetic Ionic Liquids (MILs) for CO ₂ separation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 866-871.	1.6	89
18	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

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19	Structural Characterization of Thin-Film Polyamide Reverse Osmosis Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1442-1451.	1.8	83
20	Application of interfacially polymerized polyamide composite membranes to isopropanol dehydration: Effect of membrane pre-treatment and temperature. <i>Journal of Membrane Science</i> , 2014, 453, 384-393.	4.1	81
21	CO ₂ 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
22	Porous Al ₂ O ₃ /TiO ₂ tubes in combination with 1-ethyl-3-methylimidazolium acetate ionic liquid for CO ₂ /N ₂ separation. <i>Separation and Purification Technology</i> , 2014, 122, 440-448.	3.9	78
23	Productivity and Selectivity of Gas-Phase CO ₂ Electroreduction to Methane at Copper Nanoparticle-Based Electrodes. <i>Energy Technology</i> , 2017, 5, 922-928.	1.8	72
24	Use of an optofluidic microreactor and Cu nanoparticles synthesized in ionic liquid and embedded in TiO ₂ for an efficient photoreduction of CO ₂ to methanol. <i>Chemical Engineering Journal</i> , 2021, 404, 126643.	6.6	72
25	Thin Ionic Liquid Membranes Based on Inorganic Supports with Different Pore Sizes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8045-8056.	1.8	65
26	Photoelectrochemical Reactors for CO ₂ Utilization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15877-15894.	3.2	65
27	Challenges in SERS-based pesticide detection and plausible solutions. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12341-12347.	2.4	62
28	Slowing down the deactivation of H-ZSM-5 zeolite catalyst in the methanol-to-olefin (MTO) reaction by P or Zn modifications. <i>Catalysis Today</i> , 2020, 348, 243-256.	2.2	59
29	Bimetallic Cu-based hollow fibre electrodes for CO ₂ electroreduction. <i>Catalysis Today</i> , 2020, 346, 34-39.	2.2	55
30	CO ₂ capture with room temperature ionic liquids; coupled absorption/desorption and single module absorption in membrane contactor. <i>Chemical Engineering Science</i> , 2020, 223, 115719.	1.9	52
31	Absorption of coal combustion flue gases in ionic liquids using different membrane contactors. <i>Desalination and Water Treatment</i> , 2011, 27, 54-59.	1.0	51
32	Non-dispersive absorption of CO ₂ in parallel and cross-flow membrane modules using EMISE. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1502-1507.	1.6	50
33	Arsenic Removal from Natural Waters by Adsorption or Ion Exchange: An Environmental Sustainability Assessment. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18920-18927.	1.8	50
34	A straightforward route to obtain zirconium based metal-organic gels. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 128-132.	2.2	46
35	Long-range magnetic ordering in magnetic ionic liquid: Emim[FeCl ₄]. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 296006.	0.7	43
36	Electrochemical CO ₂ reduction reaction on cost-effective oxide-derived copper and transition metal-nitrogen-carbon catalysts. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 65-73.	2.5	40

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37	Enhanced visible-light photoreduction of CO ₂ to methanol over Mo ₂ C/TiO ₂ surfaces in an optofluidic microreactor. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 304-312.	1.9	37
38	Continuous electroconversion of CO ₂ into formate using 2 nm tin oxide nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120447.	10.8	31
39	Modeling of a Microfluidic Electrochemical Cell for the Electro-Reduction of CO ₂ to CH ₃ OH. <i>Journal of the Electrochemical Society</i> , 2017, 164, E391-E400.	1.3	28
40	Post-combustion CO ₂ capture by coupling [emim] cation based ionic liquids with a membrane contactor; Pseudo-steady-state approach. <i>International Journal of Greenhouse Gas Control</i> , 2020, 99, 103076.	2.3	24
41	Measuring Autonomy Support in University Students: the Spanish Version of the Learning Climate Questionnaire. <i>Spanish Journal of Psychology</i> , 2012, 15, 1466-1472.	1.1	22
42	Mathematical modeling of CO ₂ absorption with ionic liquids in a membrane contactor, study of absorption kinetics and influence of temperature. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1844-1857.	1.6	21
43	Efficient photoelectrochemical conversion of CO ₂ to ethylene and methanol using a Cu cathode and TiO ₂ nanoparticles synthesized in supercritical medium as photoanode. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107441.	3.3	21
44	A group contribution method for the influence of the temperature in the viscosity of magnetic ionic liquids. <i>Fluid Phase Equilibria</i> , 2013, 360, 29-35.	1.4	20
45	Engineering Brain-Specific Pericytes from Human Pluripotent Stem Cells. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 367-382.	2.5	19
46	Electrochemical Conversion of CO ₂ to Value-Added Products. , 2018, , 29-59.		17
47	Modeling and Numerical Investigation of the Performance of Gas Diffusion Electrodes for the Electrochemical Reduction of Carbon Dioxide to Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20929-20942.	1.8	17
48	Porous TiO ₂ thin film-based photocatalytic windows for an enhanced operation of optofluidic microreactors in CO ₂ conversion. <i>IScience</i> , 2021, 24, 102654.	1.9	17
49	Copper(II) invigorated EHU-30 for continuous electroreduction of CO ₂ into value-added chemicals. <i>Scientific Reports</i> , 2022, 12, .	1.6	16
50	Continuous conversion of CO ₂ to alcohols in a TiO ₂ photoanode-driven photoelectrochemical system. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1876-1882.	1.6	14
51	CO ₂ reduction reactions: general discussion. <i>Faraday Discussions</i> , 2015, 183, 261-290.	1.6	6
52	Atom efficiency in small molecule and macromolecule synthesis: general discussion. <i>Faraday Discussions</i> , 2015, 183, 97-123.	1.6	1
53	Capture agents, conversion mechanisms, biotransformations and biomimetics: general discussion. <i>Faraday Discussions</i> , 2015, 183, 463-487.	1.6	1
54	Modelling and process integration of carbon dioxide capture using membrane contactors. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 1261-1265.	0.3	0

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55	Solvent-free synthesis of heterometallic metal-organic frameworks for the electrocatalytic reduction of carbon dioxide. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e282-e282.	0.0	0