

# Simon Roussanaly

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,010  
citations

201385

27  
h-index

243296

44  
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58  
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58  
docs citations

58  
times ranked

1399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Technologies for CO <sub>2</sub> Capture from Cement Productionâ€”Part 1: Technical Evaluation. <i>Energies</i> , 2019, 12, 559.	1.6	137
2	Comparison of Technologies for CO <sub>2</sub> Capture from Cement Productionâ€”Part 2: Cost Analysis. <i>Energies</i> , 2019, 12, 542.	1.6	135
3	Large-scale production and transport of hydrogen from Norway to Europe and Japan: Value chain analysis and comparison of liquid hydrogen and ammonia as energy carriers. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32865-32883.	3.8	118
4	A techno-economic case study of CO <sub>2</sub> capture, transport and storage chain from a cement plant in Norway. <i>Journal of Cleaner Production</i> , 2017, 144, 523-539.	4.6	94
5	Membrane properties required for post-combustion CO <sub>2</sub> capture at coal-fired power plants. <i>Journal of Membrane Science</i> , 2016, 511, 250-264.	4.1	93
6	Benchmarking of CO <sub>2</sub> transport technologies: Part II â€” Offshore pipeline and shipping to an offshore site. <i>International Journal of Greenhouse Gas Control</i> , 2014, 28, 283-299.	2.3	80
7	Techno Economic Evaluation of Amine based CO <sub>2</sub> Capture: Impact of CO <sub>2</sub> Concentration and Steam Supply. <i>Energy Procedia</i> , 2012, 23, 381-390.	1.8	74
8	Towards improved cost evaluation of Carbon Capture and Storage from industry. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103263.	2.3	72
9	Best practices and recent advances in CCS cost engineering and economic analysis. <i>International Journal of Greenhouse Gas Control</i> , 2019, 83, 91-104.	2.3	71
10	Benchmarking of CO <sub>2</sub> transport technologies: Part Iâ€” Onshore pipeline and shipping between two onshore areas. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 584-594.	2.3	65
11	Techno-economic assessment of optimised vacuum swing adsorption for post-combustion CO <sub>2</sub> capture from steam-methane reformer flue gas. <i>Separation and Purification Technology</i> , 2021, 256, 117832.	3.9	64
12	Cost-optimal CO <sub>2</sub> capture ratio for membrane-based capture from different CO <sub>2</sub> sources. <i>Chemical Engineering Journal</i> , 2017, 327, 618-628.	6.6	59
13	Techno-economic Analysis of MEA CO <sub>2</sub> Capture from a Cement Kiln â€” Impact of Steam Supply Scenario. <i>Energy Procedia</i> , 2017, 114, 6229-6239.	1.8	58
14	Techno-economic evaluation of the effects of impurities on conditioning and transport of CO <sub>2</sub> by pipeline. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 627-639.	2.3	50
15	CO <sub>2</sub> capture from waste-to-energy plants: Techno-economic assessment of novel integration concepts of calcium looping technology. <i>Resources, Conservation and Recycling</i> , 2020, 162, 104973.	5.3	50
16	Costs benchmark of CO <sub>2</sub> transport technologies for a group of various size industries. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 341-350.	2.3	49
17	Liquid hydrogen as prospective energy carrier: A brief review and discussion of underlying assumptions applied in value chain analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111772.	8.2	48
18	Techno-economic analyses of CO <sub>2</sub> liquefaction: Impact of product pressure and impurities. <i>International Journal of Refrigeration</i> , 2019, 103, 301-315.	1.8	45

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19	Uncertainty analysis in the techno-economic assessment of CO <sub>2</sub> capture and storage technologies. Critical review and guidelines for use. International Journal of Greenhouse Gas Control, 2020, 100, 103113.	2.3	42
20	How much can novel solid sorbents reduce the cost of post-combustion CO <sub>2</sub> capture? A techno-economic investigation on the cost limits of pressure-vacuum swing adsorption. Applied Energy, 2022, 306, 117955.	5.1	42
21	CO <sub>2</sub> Capture in Natural Gas Production by Adsorption Processes. Energy Procedia, 2017, 114, 2259-2264.	1.8	40
22	The Economic Value of CO <sub>2</sub> for EOR Applications. Energy Procedia, 2014, 63, 7836-7843.	1.8	38
23	CCUS scenarios for the cement industry: Is CO <sub>2</sub> utilization feasible?. Journal of CO <sub>2</sub> Utilization, 2022, 61, 102015.	3.3	33
24	Techno-economic Performance of a Hybrid Membrane Liquefaction Process for Post-combustion CO <sub>2</sub> Capture. Energy Procedia, 2014, 61, 1244-1247.	1.8	32
25	A new approach to the identification of high-potential materials for cost-efficient membrane-based post-combustion CO <sub>2</sub> capture. Sustainable Energy and Fuels, 2018, 2, 1225-1243.	2.5	32
26	Calculating CO <sub>2</sub> avoidance costs of Carbon Capture and Storage from industry. Carbon Management, 2019, 10, 105-112.	1.2	32
27	Multi-stage Membrane Processes for CO <sub>2</sub> Capture from Cement Industry. Energy Procedia, 2014, 63, 6476-6483.	1.8	28
28	Carbon chain analysis on a coal IGCC CCS system with flexible multi-products. Fuel Processing Technology, 2013, 108, 146-153.	3.7	27
29	Impact of Uncertainties on the Design and Cost of CCS From a Waste-to-Energy Plant. Frontiers in Energy Research, 2020, 8, .	1.2	22
30	At what Pressure Shall CO <sub>2</sub> Be Transported by Ship? An in-Depth Cost Comparison of 7 and 15 Barg Shipping. Energies, 2021, 14, 5635.	1.6	22
31	Profiting from CCS innovations: A study to measure potential value creation from CCS research and development. International Journal of Greenhouse Gas Control, 2019, 83, 208-215.	2.3	20
32	A standardized Approach to Multi-criteria Assessment of CCS Chains. Energy Procedia, 2013, 37, 2765-2774.	1.8	18
33	A Systematic Method for Membrane CO <sub>2</sub> Capture Modeling and Analysis. Energy Procedia, 2014, 63, 217-224.	1.8	18
34	Techno-economic comparison of three technologies for pre-combustion CO <sub>2</sub> capture from a lignite-fired IGCC. Frontiers of Chemical Science and Engineering, 2020, 14, 436-452.	2.3	17
35	Integrated Techno-economic and Environmental Assessment of an Amine-based Capture. Energy Procedia, 2013, 37, 2453-2461.	1.8	16
36	A Tool for Integrated Multi-criteria Assessment of the CCS Value Chain. Energy Procedia, 2014, 63, 7290-7297.	1.8	16

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37	Techno-economic evaluation of CO <sub>2</sub> transport from a lignite-fired IGCC plant in the Czech Republic. <i>International Journal of Greenhouse Gas Control</i> , 2017, 65, 235-250.	2.3	16
38	Optimal design and cost of ship-based CO <sub>2</sub> transport under uncertainties and fluctuations. <i>International Journal of Greenhouse Gas Control</i> , 2020, 103, 103190.	2.3	13
39	Economic CO <sub>2</sub> network optimization model COCATE European Project (2010-2013). <i>Energy Procedia</i> , 2013, 37, 2923-2931.	1.8	12
40	Capital structure in LNG infrastructures and gas pipelines projects: Empirical evidences and methodological issues. <i>Energy Policy</i> , 2013, 61, 285-291.	4.2	12
41	Multi-criteria analyses of two solvent and one low-temperature concepts for acid gas removal from natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 20, 38-49.	2.1	12
42	An integrated analysis of carbon capture and storage strategies for power and industry in Europe. <i>Journal of Cleaner Production</i> , 2021, 329, 129427.	4.6	12
43	Multi-criteria Analysis of Two CO <sub>2</sub> Transport Technologies. <i>Energy Procedia</i> , 2013, 37, 2981-2988.	1.8	11
44	Selection of Optimal CO <sub>2</sub> Capture Plant Capacity for Better Investment Decisions. <i>Energy Procedia</i> , 2013, 37, 7039-7045.	1.8	10
45	Energy and Cost Evaluation of A Low-temperature CO <sub>2</sub> Capture Unit for IGCC plants. <i>Energy Procedia</i> , 2014, 63, 2031-2036.	1.8	10
46	Deploying a shipping infrastructure to enable carbon capture and storage from Norwegian industries. <i>Journal of Cleaner Production</i> , 2022, 333, 129586.	4.6	10
47	A Comparison of Post-combustion Capture Technologies for the NGCC. <i>Energy Procedia</i> , 2017, 114, 2631-2641.	1.8	7
48	The role of energy supply in abatement cost curves for CO <sub>2</sub> capture from process industry – A case study of a Swedish refinery. <i>Applied Energy</i> , 2022, 319, 119273.	5.1	7
49	Techno-Economic Analyses of the CaO/CaCO <sub>3</sub> Post-Combustion CO <sub>2</sub> Capture From NGCC Power Plants. <i>Frontiers in Chemical Engineering</i> , 2021, 2, .	1.3	6
50	CCS Chain Capacity Selection for Flexible Load Power Plant. <i>Energy Procedia</i> , 2012, 23, 343-353.	1.8	5
51	CO <sub>2</sub> Capture from IGCC by Low-Temperature Synthesis Gas Separation. <i>Energies</i> , 2022, 15, 515.	1.6	4
52	Towards Improved Cost Evaluation of Carbon Capture, Transport and Storage From Industry. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
53	Country Risk, Ownership Concentration and Debt Ratio of Gas Transport Projects: A Statistical Analysis. <i>Energy Procedia</i> , 2012, 26, 56-66.	1.8	2
54	Understanding the Cost of Retrofitting CO <sub>2</sub> Capture to an Integrated Oil Refinery. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1

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55	Toward Improved Guidelines for Uncertainty Analysis of Carbon Capture and Storage Techno-economic Studies. SSRN Electronic Journal, 0, , .	0.4	0
56	Feasibility of Selective Exhaust Gas Recycle Process for Membrane-based CO2 Capture from Natural Gas Combined Cycles “ Showstoppers and Alternative Process Configurations. SSRN Electronic Journal, 0, , .	0.4	0
57	Best Practices and Recent Advances in Ccs Cost Engineering. SSRN Electronic Journal, 0, , .	0.4	0
58	CCUS Scenarios for the Cement Industry: Is CO2 Utilization Feasible?. SSRN Electronic Journal, 0, , .	0.4	0