

Jan Mertens

List of Publications by Year in descending order

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21
papers

837
citations

567281

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docs citations

21
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822
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine and ultrafine particle number and size measurements from industrial combustion processes: Primary emissions field data. <i>Atmospheric Pollution Research</i> , 2020, 11, 803-814.	3.8	21
2	Prevention of Mist Formation in Amine Based Carbon Capture: Field Testing Using a Wet ElectroStatic Precipitator (WESP) and a Gas-Gas Heater (GGH). <i>Energy Procedia</i> , 2017, 114, 987-999.	1.8	13
3	Results from Aerosol Measurement in Amine Plant Treating Gas Turbine and Residue Fluidized Catalytic Cracker Flue Gases at the CO ₂ Technology Centre Mongstad. <i>Energy Procedia</i> , 2017, 114, 1210-1230.	1.8	11
4	Understanding and Modelling the Effect of Dissolved Metals on Solvent Degradation in Post Combustion CO ₂ Capture Based on Pilot Plant Experience. <i>Energies</i> , 2017, 10, 629.	3.1	11
5	Understanding aerosol based emissions in a Post Combustion CO ₂ Capture process: Parameter testing and mechanisms. <i>International Journal of Greenhouse Gas Control</i> , 2015, 34, 63-74.	4.6	52
6	Effect of a gas- H_2SO_4 gas-heater on H ₂ SO ₄ aerosol formation: Implications for mist formation in amine based carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 470-477.	4.6	24
7	Online Corrosion Monitoring in a Postcombustion CO ₂ Capture Pilot Plant and its Relation to Solvent Degradation and Ammonia Emissions. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5336-5344.	3.7	15
8	Impacts of electricity mix, charging profile, and driving behavior on the emissions performance of battery electric vehicles: A Belgian case study. <i>Applied Energy</i> , 2015, 148, 496-505.	10.1	128
9	A wet electrostatic precipitator (WESP) as countermeasure to mist formation in amine based carbon capture. <i>International Journal of Greenhouse Gas Control</i> , 2014, 31, 175-181.	4.6	34
10	Predicting Aerosol Based Emissions in a Post Combustion CO ₂ Capture Process Using an Aspen Plus Model. <i>Energy Procedia</i> , 2014, 63, 911-925.	1.8	19
11	ELPI+ measurements of aerosol growth in an amine absorption column. <i>International Journal of Greenhouse Gas Control</i> , 2014, 23, 44-50.	4.6	50
12	The hourly life cycle carbon footprint of electricity generation in Belgium, bringing a temporal resolution in life cycle assessment. <i>Applied Energy</i> , 2014, 134, 469-476.	10.1	93
13	Evaluation of the DMX Process for Industrial Pilot Demonstration – Methodology and Results. <i>Energy Procedia</i> , 2014, 63, 6298-6309.	1.8	39
14	Predicting Amine Mist Formation Based on Aerosol Number Concentration and Size Measurements in Flue Gas. <i>Energy Procedia</i> , 2014, 63, 893-901.	1.8	16
15	Investigation of aerosol based emission of MEA due to sulphuric acid aerosol and soot in a Post Combustion CO ₂ Capture process. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 138-144.	4.6	88
16	Understanding ethanolamine (MEA) and ammonia emissions from amine based post combustion carbon capture: Lessons learned from field tests. <i>International Journal of Greenhouse Gas Control</i> , 2013, 13, 72-77.	4.6	82
17	On-line monitoring and controlling emissions in amine post combustion carbon capture: A field test. <i>International Journal of Greenhouse Gas Control</i> , 2012, 6, 2-11.	4.6	52
18	Inverse Modeling of Pesticide Leaching in Lysimeters: Local versus Global and Sequential Single-Objective versus Multiobjective Approaches. <i>Vadose Zone Journal</i> , 2009, 8, 793-804.	2.2	19

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19	Design and Testing of a Drop Counter for Use in Vadose Zone Water Samplers. Vadose Zone Journal, 2008, 7, 434-438.	2.2	4
20	Dissolved Organic Carbon Fluxes under Bare Soil. Journal of Environmental Quality, 2007, 36, 597-606.	2.0	40
21	Numerical Analysis of Passive Capillary Wick Samplers prior to Field Installation. Soil Science Society of America Journal, 2007, 71, 35-42.	2.2	26