

# Harro von Blottnitz

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

2,242  
citations

393982

19  
h-index

276539

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2841  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of assessments conducted on bio-ethanol as a transportation fuel from a net energy, greenhouse gas, and environmental life cycle perspective. <i>Journal of Cleaner Production</i> , 2007, 15, 607-619.	4.6	594
2	Environmental analysis of plastic production processes: Comparing petroleum-based polypropylene and polyethylene with biologically-based poly- $\beta$ -hydroxybutyric acid using life cycle analysis. <i>Journal of Biotechnology</i> , 2007, 130, 57-66.	1.9	360
3	Commercialisation of biofuel industry in Africa: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2008, 12, 690-711.	8.2	196
4	A comparison of the environmental benefits of bagasse-derived electricity and fuel ethanol on a life-cycle basis. <i>Energy Policy</i> , 2006, 34, 2654-2661.	4.2	140
5	A life-cycle comparison between inorganic and biological catalysis for the production of biodiesel. <i>Journal of Cleaner Production</i> , 2008, 16, 1368-1378.	4.6	137
6	Capacity-cost and location-cost analyses for biogas plants in Africa. <i>Resources, Conservation and Recycling</i> , 2010, 55, 63-73.	5.3	91
7	2nd Generation biofuels a sure bet? A life cycle assessment of how things could go wrong. <i>Journal of Cleaner Production</i> , 2011, 19, 138-144.	4.6	66
8	Investigation of scale economies for African biogas installations. <i>Energy Conversion and Management</i> , 2007, 48, 3090-3094.	4.4	59
9	Accumulation and characteristics of plastic debris along five beaches in Cape Town. <i>Marine Pollution Bulletin</i> , 2019, 138, 451-457.	2.3	58
10	Damage costs of nitrogen fertilizer in Europe and their internalization. <i>Journal of Environmental Planning and Management</i> , 2006, 49, 413-433.	2.4	53
11	A comparative life cycle assessment of eutectic freeze crystallisation and evaporative crystallisation for the treatment of saline wastewater. <i>Desalination</i> , 2012, 306, 17-23.	4.0	47
12	Sustainable development at the core of undergraduate engineering curriculum reform: a new introductory course in chemical engineering. <i>Journal of Cleaner Production</i> , 2015, 106, 300-307.	4.6	41
13	Promoting active learning in sustainable development: experiences from a 4th year chemical engineering course. <i>Journal of Cleaner Production</i> , 2006, 14, 916-923.	4.6	40
14	In pursuit of environmentally friendly straws: a comparative life cycle assessment of five straw material options in South Africa. <i>International Journal of Life Cycle Assessment</i> , 2020, 25, 1818-1832.	2.2	34
15	Global Warming Potential and Fossil-Energy Requirements of Biodiesel Production Scenarios in South Africa. <i>Energy &amp; Fuels</i> , 2010, 24, 2489-2499.	2.5	28
16	Potentialities of biogas installation in South African meat value chain for environmental impacts reduction. <i>Journal of Cleaner Production</i> , 2017, 153, 465-473.	4.6	27
17	Life cycle assessment of the desulfurisation flotation process to prevent acid rock drainage: A base metal case study. <i>Minerals Engineering</i> , 2015, 76, 126-134.	1.8	26
18	Status of life cycle assessment and engineering research in South Africa. <i>International Journal of Life Cycle Assessment</i> , 2002, 7, 167-172.	2.2	24

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19	A revised approach for estimating informally disposed domestic waste in rural versus urban South Africa and implications for waste management. <i>South African Journal of Science</i> , 2020, 116, .	0.3	20
20	Are biofuel concerns globally relevant? Prospects for a proposed pioneer bioethanol project in South Africa. <i>Energy for Sustainable Development</i> , 2014, 23, 1-14.	2.0	19
21	Renewable energy for sustainable urban development: Redefining the concept of energisation. <i>Energy Policy</i> , 2010, 38, 2179-2187.	4.2	18
22	A technological and economic exploration of phosphate recovery from centralised sewage treatment in a transitioning economy context. <i>Water S A</i> , 2017, 43, 343.	0.2	15
23	A comparison of environmental benefits of transport and electricity applications of carbohydrate derived ethanol and hydrogen. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1126-1134.	3.8	13
24	Teaching a new technology, eutectic freeze crystallization, by means of a solved problem. <i>Education for Chemical Engineers</i> , 2012, 7, e163-e168.	2.8	13
25	Sustainability science for meeting Africaâ€™s challenges: setting the stage. <i>Sustainability Science</i> , 2017, 12, 635-640.	2.5	13
26	An economic model for energisation and its integration into the urban energy planning process. <i>Energy Policy</i> , 2010, 38, 2370-2378.	4.2	12
27	Cost analyses and predictions for a fuel ethanol plant in a rural and landlocked African country: Lang factor approach. <i>International Journal of Production Economics</i> , 2009, 119, 207-216.	5.1	11
28	Flows and fates of nickel&cadmium batteries in the City of Cape Town. <i>Minerals Engineering</i> , 2010, 23, 211-218.	1.8	10
29	The description of solid wastes by particle mass instead of particle size distributions. <i>Resources, Conservation and Recycling</i> , 2002, 34, 193-207.	5.3	9
30	Investigation of Arsenic Airborne in Particulate Matter around Caterersâ€™ Wood Fires in the Cape Town Region. <i>Aerosol and Air Quality Research</i> , 2013, 13, 219-224.	0.9	9
31	Development of a method for estimating product-specific leakage propensity and its inclusion into the life cycle management of plastic products. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 1431-1438.	2.2	8
32	A material flow analysis of wood and paper in Cape Town: is there potential to redirect flows in formal and informal sectors to foster use as a renewable resource?. <i>International Journal of Environment and Sustainable Development</i> , 2007, 6, 147.	0.2	7
33	Cleaner Production in the South African Coal Mining and Processing Industry: A Case Study Investigation. <i>International Journal of Coal Preparation and Utilization</i> , 2008, 28, 224-236.	1.2	7
34	Occurrence of CCA-treated timber in caterersâ€™ fuelwood stocks in the Cape Town region. <i>South African Journal of Science</i> , 2013, 109, 1-5.	0.3	7
35	The role of decision support frameworks in industrial policy development: A South African iron and steel scrap case study. <i>Sustainable Production and Consumption</i> , 2018, 13, 113-125.	5.7	7
36	Carbon intensive but decarbonising quickly? Retrospective and prospective Life Cycle Assessments of South African pome fruit. <i>Journal of Cleaner Production</i> , 2019, 212, 139-150.	4.6	6

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37	From life cycle talking to taking action. International Journal of Life Cycle Assessment, 2010, 15, 326-329.	2.2	5
38	Thermodynamic and kinetic considerations for biodiesel production by reactive distillation. Environmental Progress and Sustainable Energy, 2013, 32, 373-376.	1.3	5
39	LCA Knowledge Network in Africa (ALCANET). International Journal of Life Cycle Assessment, 2005, 10, 449-449.	2.2	4
40	Sustainability science for meeting Africa's challenges. Sustainability Science, 2016, 11, 371-372.	2.5	2
41	Investigation of the Use of Biogas in a Gas Hob. Waste and Biomass Valorization, 2013, 4, 539-548.	1.8	1
42	LCM 2009 – the global challenge of managing life cycles. International Journal of Life Cycle Assessment, 2009, 14, 379-380.	2.2	0