

# Valentin Bertsch

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2144400/valentin-bertsch-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

946  
citations

15  
h-index

29  
g-index

53  
ext. papers

1,258  
ext. citations

5.4  
avg, IF

5.06  
L-index

#	Paper	IF	Citations
51	Public acceptance and preferences related to renewable energy and grid expansion policy: Empirical insights for Germany. <i>Energy</i> , <b>2016</b> , 114, 465-477	7.9	142
50	What drives the profitability of household PV investments, self-consumption and self-sufficiency?. <i>Applied Energy</i> , <b>2017</b> , 204, 1-15	10.7	99
49	Multi-criteria decision support and evaluation of strategies for nuclear remediation management?. <i>Omega</i> , <b>2009</b> , 37, 238-251	7.2	85
48	Electricity load profiles in Europe: The importance of household segmentation. <i>Energy Research and Social Science</i> , <b>2014</b> , 3, 30-45	7.7	77
47	A review of the role of distributed generation (DG) in future electricity systems. <i>Energy</i> , <b>2018</b> , 163, 822-836	7.3	69
46	Combining local preferences with multi-criteria decision analysis and linear optimization to develop feasible energy concepts in small communities. <i>European Journal of Operational Research</i> , <b>2018</b> , 268, 1092-1110	5.6	37
45	Sensitivity analyses in multi-attribute decision support for off-site nuclear emergency and recovery management. <i>International Journal of Energy Sector Management</i> , <b>2007</b> , 1, 342-365	2.5	29
44	What drives people's opinions of electricity infrastructure? Empirical evidence from Ireland. <i>Energy Policy</i> , <b>2017</b> , 106, 472-497	7.2	28
43	Modelling demand response with process models and energy systems models: Potential applications for wastewater treatment within the energy-water nexus. <i>Applied Energy</i> , <b>2020</b> , 260, 114321	10.7	24
42	The Role of Community Involvement Mechanisms in Reducing Resistance to Energy Infrastructure Development. <i>Ecological Economics</i> , <b>2018</b> , 146, 447-474	5.6	23
41	The role of power-to-gas in the future energy system: Market and portfolio effects. <i>Energy</i> , <b>2019</b> , 185, 1197-1209	7.9	20
40	Self-consumption through power-to-heat and storage for enhanced PV integration in decentralised energy systems. <i>Solar Energy</i> , <b>2018</b> , 163, 150-161	6.8	19
39	The impact of electricity tariffs on residential demand side flexibility: results of bottom-up load profile modeling. <i>Energy Systems</i> , <b>2018</b> , 9, 759-792	1.7	18
38	Highly resolved optimal renewable allocation planning in power systems under consideration of dynamic grid topology. <i>Computers and Operations Research</i> , <b>2018</b> , 96, 281-293	4.6	16
37	Network constraints in techno-economic energy system models: towards more accurate modeling of power flows in long-term energy system models. <i>Energy Systems</i> , <b>2013</b> , 4, 267-287	1.7	16
36	A participatory multi-criteria approach for power generation and transmission planning. <i>Annals of Operations Research</i> , <b>2016</b> , 245, 177-207	3.2	14
35	Two-stage stochastic, large-scale optimization of a decentralized energy system: a case study focusing on solar PV, heat pumps and storage in a residential quarter. <i>OR Spectrum</i> , <b>2018</b> , 40, 265-310	1.9	14

34	Experimental and theoretical characterization of commercial nanofiltration membranes for the treatment of ion exchange spent regenerant. <i>Journal of Membrane Science</i> , <b>2020</b> , 606, 118117	9.6	13
33	Towards the implementation of circular economy in the water softening industry: A technical, economic and environmental analysis. <i>Journal of Cleaner Production</i> , <b>2020</b> , 255, 120291	10.3	12
32	Impact of residential electricity tariffs with variable energy prices on low voltage grids with photovoltaic generation. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2016</b> , 79, 161-171	5.1	11
31	Preference elicitation and sensitivity analysis in multicriteria group decision support for industrial risk and emergency management. <i>International Journal of Emergency Management</i> , <b>2008</b> , 5, 7	0.5	11
30	Enhanced network effects and stochastic modelling in generation expansion planning: Insights from an insular power system. <i>Socio-Economic Planning Sciences</i> , <b>2020</b> , 71, 100859	3.7	10
29	Heat pump efficiency in fifth generation ultra-low temperature district heating networks using a wastewater heat source. <i>Energy</i> , <b>2021</b> , 236, 121318	7.9	10
28	A natural language generation approach to support understanding and traceability of multi-dimensional preferential sensitivity analysis in multi-criteria decision making. <i>Expert Systems With Applications</i> , <b>2017</b> , 83, 131-144	7.8	9
27	Combined membrane and thermal desalination processes for the treatment of ion exchange resins spent brine. <i>Applied Energy</i> , <b>2019</b> , 254, 113699	10.7	9
26	Reduced-order models for assessing demand response with heat pumps Insights from the German energy system. <i>Energy and Buildings</i> , <b>2020</b> , 223, 110144	7	9
25	Examining the benefits of load shedding strategies using a rolling-horizon stochastic mixed complementarity equilibrium model. <i>European Journal of Operational Research</i> , <b>2018</b> , 267, 643-658	5.6	9
24	Multicriteria decision support for business continuity planning in the event of critical infrastructure disruptions. <i>International Journal of Critical Infrastructures</i> , <b>2009</b> , 5, 156	1	9
23	Moderated Decision Support and Countermeasure Planning for Off-Site Emergency Management <b>2005</b> , 63-80		9
22	Techno-economic analysis of integrated processes for the treatment and valorisation of neutral coal mine effluents. <i>Journal of Cleaner Production</i> , <b>2020</b> , 270, 122472	10.3	8
21	Ein Rollenmodell zur Einbindung der Endkunden in eine smarte Energiewelt. <i>Zeitschrift für Energiewirtschaft</i> , <b>2013</b> , 37, 195-210	0.7	8
20	Multi-criteria decision support and stakeholder involvement in emergency management. <i>International Journal of Emergency Management</i> , <b>2006</b> , 3, 114	0.5	8
19	Is flexible and dispatchable generation capacity rewarded in electricity futures markets? A multinational impact analysis. <i>Energy</i> , <b>2020</b> , 196, 117050	7.9	8
18	Evaluation strategies for nuclear and radiological emergency and post-accident management. <i>Radioprotection</i> , <b>2010</b> , 45, S133-S147	1.1	7
17	Implementing prosumers into heating networks. <i>Energy</i> , <b>2021</b> , 230, 120844	7.9	7

16	The reference installation approach for the estimation of industrial assets at risk. <i>European Journal of Industrial Engineering</i> , <b>2008</b> , 2, 73	1.1	6
15	Economic evaluation of battery storage systems bidding on day-ahead and automatic frequency restoration reserves markets. <i>Applied Energy</i> , <b>2021</b> , 298, 117267	10.7	6
14	Optimal load shedding in distributed networks with sigmoid cost functions <b>2015</b> ,		5
13	Power system impacts of community acceptance policies for renewable energy deployment under storage cost uncertainty. <i>Renewable Energy</i> , <b>2020</b> , 156, 893-912	8.1	4
12	Review and Extension of Suitability Assessment Indicators of Weather Model Output for Analyzing Decentralized Energy Systems. <i>Atmosphere</i> , <b>2015</b> , 6, 1871-1888	2.7	4
11	Layout Optimisation of Decentralised Energy Systems Under Uncertainty. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR</i> , <b>2014</b> , 29-35	0.1	4
10	Drivers of People's Preferences for Spatial Proximity to Energy Infrastructure Technologies: A Cross-country Analysis. <i>Energy Journal</i> , <b>2021</b> , 42,	3.5	4
9	Aggregation of Households in Community Energy Systems: An Analysis from Actors' and Market Perspectives. <i>Energies</i> , <b>2020</b> , 13, 5154	3.1	3
8	Multi-Criteria Decision Support and Uncertainty Handling, Propagation and Visualisation for Emergency and Remediation Management <b>2006</b> , 755-760		3
7	Improving the computational efficiency of stochastic programs using automated algorithm configuration: an application to decentralized energy systems. <i>Annals of Operations Research</i> , <b>2019</b> , 1	3.2	2
6	Preferences for curtailable electricity contracts: Can curtailment benefit consumers and the electricity system?. <i>Energy Economics</i> , <b>2021</b> , 102, 105454	8.3	2
5	A looming revolution: Implications of self-generation for the risk exposure of retailers. <i>Energy Economics</i> , <b>2020</b> , 92, 104970	8.3	1
4	Are Renewables Profitable in 2030? A Comparison between Wind and Solar Across Europe. <i>SSRN Electronic Journal</i> ,	1	1
3	Integrating Behavioural Aspects in Energy System Modelling – A Review. <i>Energies</i> , <b>2021</b> , 14, 4579	3.1	1
2	Comment on "How green is blue hydrogen?" <i>Energy Science and Engineering</i> ,	3.4	1
1	Short-term risk management of electricity retailers under rising shares of decentralized solar generation. <i>Energy Economics</i> , <b>2022</b> , 109, 105956	8.3	0