

Valentin Bertsch

List of Publications by Year in Descending Order

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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	Short-term risk management of electricity retailers under rising shares of decentralized solar generation. <i>Energy Economics</i> , 2022 , 109, 105956	8.3	0
50	Integrating Behavioural Aspects in Energy System Modelling – A Review. <i>Energies</i> , 2021 , 14, 4579	3.1	1
49	Economic evaluation of battery storage systems bidding on day-ahead and automatic frequency restoration reserves markets. <i>Applied Energy</i> , 2021 , 298, 117267	10.7	6
48	Implementing prosumers into heating networks. <i>Energy</i> , 2021 , 230, 120844	7.9	7
47	Preferences for curtailable electricity contracts: Can curtailment benefit consumers and the electricity system?. <i>Energy Economics</i> , 2021 , 102, 105454	8.3	2
46	Drivers of People’s Preferences for Spatial Proximity to Energy Infrastructure Technologies: A Cross-country Analysis. <i>Energy Journal</i> , 2021 , 42,	3.5	4
45	Heat pump efficiency in fifth generation ultra-low temperature district heating networks using a wastewater heat source. <i>Energy</i> , 2021 , 236, 121318	7.9	10
44	A looming revolution: Implications of self-generation for the risk exposure of retailers. <i>Energy Economics</i> , 2020 , 92, 104970	8.3	1
43	Aggregation of Households in Community Energy Systems: An Analysis from Actors’ and Market Perspectives. <i>Energies</i> , 2020 , 13, 5154	3.1	3
42	Experimental and theoretical characterization of commercial nanofiltration membranes for the treatment of ion exchange spent regenerant. <i>Journal of Membrane Science</i> , 2020 , 606, 118117	9.6	13
41	Reduced-order models for assessing demand response with heat pumps – Insights from the German energy system. <i>Energy and Buildings</i> , 2020 , 223, 110144	7	9
40	Techno-economic analysis of integrated processes for the treatment and valorisation of neutral coal mine effluents. <i>Journal of Cleaner Production</i> , 2020 , 270, 122472	10.3	8
39	Enhanced network effects and stochastic modelling in generation expansion planning: Insights from an insular power system. <i>Socio-Economic Planning Sciences</i> , 2020 , 71, 100859	3.7	10
38	Towards the implementation of circular economy in the water softening industry: A technical, economic and environmental analysis. <i>Journal of Cleaner Production</i> , 2020 , 255, 120291	10.3	12
37	Power system impacts of community acceptance policies for renewable energy deployment under storage cost uncertainty. <i>Renewable Energy</i> , 2020 , 156, 893-912	8.1	4
36	Modelling demand response with process models and energy systems models: Potential applications for wastewater treatment within the energy-water nexus. <i>Applied Energy</i> , 2020 , 260, 114321	10.7	24
35	Is flexible and dispatchable generation capacity rewarded in electricity futures markets? A multinational impact analysis. <i>Energy</i> , 2020 , 196, 117050	7.9	8

34	Combined membrane and thermal desalination processes for the treatment of ion exchange resins spent brine. <i>Applied Energy</i> , 2019 , 254, 113699	10.7	9
33	Improving the computational efficiency of stochastic programs using automated algorithm configuration: an application to decentralized energy systems. <i>Annals of Operations Research</i> , 2019 , 1	3.2	2
32	The role of power-to-gas in the future energy system: Market and portfolio effects. <i>Energy</i> , 2019 , 185, 1197-1209	7.9	20
31	The impact of electricity tariffs on residential demand side flexibility: results of bottom-up load profile modeling. <i>Energy Systems</i> , 2018 , 9, 759-792	1.7	18
30	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> , 2018 , 268, 1092-1110	5.6	37
29	Self-consumption through power-to-heat and storage for enhanced PV integration in decentralised energy systems. <i>Solar Energy</i> , 2018 , 163, 150-161	6.8	19
28	Highly resolved optimal renewable allocation planning in power systems under consideration of dynamic grid topology. <i>Computers and Operations Research</i> , 2018 , 96, 281-293	4.6	16
27	The Role of Community Involvement Mechanisms in Reducing Resistance to Energy Infrastructure Development. <i>Ecological Economics</i> , 2018 , 146, 447-474	5.6	23
26	Examining the benefits of load shedding strategies using a rolling-horizon stochastic mixed complementarity equilibrium model. <i>European Journal of Operational Research</i> , 2018 , 267, 643-658	5.6	9
25	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> , 2018 , 40, 265-310	1.9	14
24	A review of the role of distributed generation (DG) in future electricity systems. <i>Energy</i> , 2018 , 163, 822-836	8.6	69
23	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> , 2017 , 83, 131-144	7.8	9
22	What drives people's opinions of electricity infrastructure? Empirical evidence from Ireland. <i>Energy Policy</i> , 2017 , 106, 472-497	7.2	28
21	What drives the profitability of household PV investments, self-consumption and self-sufficiency?. <i>Applied Energy</i> , 2017 , 204, 1-15	10.7	99
20	A participatory multi-criteria approach for power generation and transmission planning. <i>Annals of Operations Research</i> , 2016 , 245, 177-207	3.2	14
19	Public acceptance and preferences related to renewable energy and grid expansion policy: Empirical insights for Germany. <i>Energy</i> , 2016 , 114, 465-477	7.9	142
18	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> , 2016 , 79, 161-171	5.1	11
17	Review and Extension of Suitability Assessment Indicators of Weather Model Output for Analyzing Decentralized Energy Systems. <i>Atmosphere</i> , 2015 , 6, 1871-1888	2.7	4

16	Optimal load shedding in distributed networks with sigmoid cost functions 2015 ,		5
15	Electricity load profiles in Europe: The importance of household segmentation. <i>Energy Research and Social Science</i> , 2014 , 3, 30-45	7.7	77
14	Layout Optimisation of Decentralised Energy Systems Under Uncertainty. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR</i> , 2014 , 29-35	0.1	4
13	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> , 2013 , 4, 267-287	1.7	16
12	Ein Rollenmodell zur Einbindung der Endkunden in eine smarte Energiewelt. <i>Zeitschrift für Energiewirtschaft</i> , 2013 , 37, 195-210	0.7	8
11	Evaluation strategies for nuclear and radiological emergency and post-accident management. <i>Radioprotection</i> , 2010 , 45, S133-S147	1.1	7
10	Multicriteria decision support for business continuity planning in the event of critical infrastructure disruptions. <i>International Journal of Critical Infrastructures</i> , 2009 , 5, 156	1	9
9	Multi-criteria decision support and evaluation of strategies for nuclear remediation management?. <i>Omega</i> , 2009 , 37, 238-251	7.2	85
8	The reference installation approach for the estimation of industrial assets at risk. <i>European Journal of Industrial Engineering</i> , 2008 , 2, 73	1.1	6
7	Preference elicitation and sensitivity analysis in multicriteria group decision support for industrial risk and emergency management. <i>International Journal of Emergency Management</i> , 2008 , 5, 7	0.5	11
6	Sensitivity analyses in multi-attribute decision support for off-site nuclear emergency and recovery management. <i>International Journal of Energy Sector Management</i> , 2007 , 1, 342-365	2.5	29
5	Multi-criteria decision support and stakeholder involvement in emergency management. <i>International Journal of Emergency Management</i> , 2006 , 3, 114	0.5	8
4	Multi-Criteria Decision Support and Uncertainty Handling, Propagation and Visualisation for Emergency and Remediation Management 2006 , 755-760		3
3	Moderated Decision Support and Countermeasure Planning for Off-Site Emergency Management 2005 , 63-80		9
2	Are Renewables Profitable in 2030? A Comparison between Wind and Solar Across Europe. <i>SSRN Electronic Journal</i> ,	1	1
1	Comment on How green is blue hydrogen? <i>Energy Science and Engineering</i> ,	3.4	1