Paulien M Herder

List of Publications by Year
in descending order

96	2,277	304368	233125
papers	citations	22 h-index	45 g-index

99	99	99	2153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energetic communities for community energy: A review of key issues and trends shaping integrated community energy systems. Renewable and Sustainable Energy Reviews, 2016, 56, 722-744.	8.2	503
2	The dual effects of the Internet of Things (IoT): A systematic review of the benefits and risks of IoT adoption by organizations. International Journal of Information Management, 2020, 51, 101952.	10.5	170
3	Trust, awareness, and independence: Insights from a socio-psychological factor analysis of citizen knowledge and participation in community energy systems. Energy Research and Social Science, 2018, 38, 33-40.	3.0	146
4	Institutional challenges caused by the integration of renewable energy sources in the European electricity sector. Renewable and Sustainable Energy Reviews, 2017, 75, 660-667.	8.2	123
5	System and Actor Perspectives on Sociotechnical Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 981-992.	3.4	109
6	Uncertainties in the design and operation of distributed energy resources: The case of micro-CHP systems. Energy, 2008, 33, 1518-1536.	4.5	83
7	The Pugh Controlled Convergence method: model-based evaluation and implications for design theory. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2009, 20, 41-58.	1.2	83
8	Assessing relative importance and mutual influence of barriers for CCS deployment of the ROAD project using AHP and DEMATEL methods. International Journal of Greenhouse Gas Control, 2015, 41, 336-357.	2.3	66
9	Local Alternative for Energy Supply: Performance Assessment of Integrated Community Energy Systems. Energies, 2016, 9, 981.	1.6	61
10	Integrated conceptual design of a robust and reliable waste-heat district heating system. Applied Thermal Engineering, 2007, 27, 1158-1164.	3.0	50
11	On the robustness, effectiveness and reliability of chemical and mechanical heat pumps for low-temperature heat source district heating: A comparative simulation-based analysis and evaluation. Energy, 2008, 33, 908-929.	4.5	37
12	Buying real options â€“ Valuing uncertainty in infrastructure planning. Futures, 2011, 43, 961-969.	1.4	37
13	Designing Socio-Technical Systems. , 2009, , 601-630.		35
14	Designing infrastructures using a complex systems perspective. Journal of Design Research, 2008, 7, 17.	0.1	33
15	Integrating reliability optimization into chemical process synthesis. Reliability Engineering and System Safety, 2002, 78, 247-258.	5.1	32
16	Decision-making for sewer asset management: Theory and practice. Urban Water Journal, 2016, 13, 57-68.	1.0	31
17	Internet of Things adoption for reconfiguring decision-making processes in asset management. Business Process Management Journal, 2019, 25, 495-511.	2.4	31
18	Intuition and information in decision-making for sewer asset management. Urban Water Journal, 2014, 11, 506-518.	1.0	28

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19	Expansion planning of the North Sea offshore grid: Simulation of integrated governance constraints. Energy Economics, 2018, 72, 376-392.	5.6	27
20	Diversity and Challenges of the Urban Commons: A Comprehensive Review. International Journal of the Commons, 2021, 15, 1.	0.6	27
21	A concurrent engineering approach to chemical process design. International Journal of Production Economics, 2000, 64, 311-318.	5.1	25
22	Transmission expansion simulation for the European Northern Seas offshore grid. Energy, 2017, 125, 805-824.	4.5	24
23	Research in engineering design: the role of mathematical theory and empirical evidence. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2010, 21, 145-151.	1.2	23
24	The use of video-taped lectures and web-based communications in teaching: A distance-teaching and cross-Atlantic collaboration experiment. European Journal of Engineering Education, 2002, 27, 39-48.	1.5	22
25	Methanol-Based Industrial Cluster Design:Â A Study of Design Options and the Design Process. Industrial & Engineering Chemistry Research, 2004, 43, 3879-3885.	1.8	22
26	Industrial application of RAM modeling. Reliability Engineering and System Safety, 2008, 93, 501-508.	5.1	21
27	Cooperation under uncertainty: Assessing the value of risk sharing and determining the optimal risk-sharing rule for agents with pre-existing business and diverging risk attitudes. International Journal of Project Management, 2017, 35, 530-540.	2.7	21
28	Recycling industrial waste heat for sustainable district heating: a multi-actor perspective. International Journal of Environmental Technology and Management, 2009, 10, 412.	0.1	20
29	Analysing community-based initiatives for heating and cooling: A systematic and critical review. Energy Research and Social Science, 2022, 88, 102507.	3.0	19
30	Governing Asset Management Data Infrastructures. Procedia Computer Science, 2016, 95, 303-310.	1.2	18
31	Long term optimization of asset replacement in energy infrastructures. , 2006, , .		17
32	Formation and Continuation of Thermal Energy Community Systems: An Explorative Agent-Based Model for the Netherlands. Energies, 2020, 13, 2829.	1.6	16
33	An Evaluation of the Pugh Controlled Convergence Method. , 2007, , 193.		13
34	Asset management maturity in public infrastructure: the case of Rijkswaterstaat. International Journal of Strategic Engineering Asset Management, 2013, 1, 439.	0.6	13
35	Energy security in community energy systems: An agent-based modelling approach. Journal of Cleaner Production, 2022, 366, 132765.	4.6	13
36	Challenges for process systems engineering in infrastructure design. Computers and Chemical Engineering, 2000, 24, 1775-1780.	2.0	12

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37	Data Infrastructures for Asset Management Viewed as Complex Adaptive Systems. Procedia Computer Science, 2014, 36, 124-130.	1.2	12
38	Towards Modelling Data Infrastructures in the Asset Management Domain. Procedia Computer Science, 2015, 61, 274-280.	1.2	12
39	The integrated offshore grid in Europe: Exploring challenges for regional energy governance. Energy Research and Social Science, 2019, 52, 55-67.	3.0	12
40	A spatially explicit planning approach for power systems with a high share of renewable energy sources. Applied Energy, 2020, 260, 114233.	5.1	12
41	An ex ante assessment of value conflicts and social acceptance of sustainable heating systems. Energy Policy, 2021, 153, 112265.	4.2	12
42	Investment Decision Making for Alternative Fuel Public Transport Buses: The Case of Brisbane Transport. Journal of Public Transportation, 2010, 13, 115-133.	0.3	12
43	A gaming approach to networked infrastructure management. Structure and Infrastructure Engineering, 2017, 13, 855-868.	2.0	10
44	An Approach for Integrating Valuable Flexibility During Conceptual Design of Networks. Networks and Spatial Economics, 2017, 17, 317-341.	0.7	10
45	A comprehensive approach to reviewing latent topics addressed by literature across multiple disciplines. Applied Energy, 2018, 228, 2111-2128.	5.1	10
46	Commoning toward urban resilience: The role of trust, social cohesion, and involvement in a simulated urban commons setting. Journal of Urban Affairs, 2023, 45, 142-167.	1.0	10
47	A Systems View on Infrastructure Asset Management. , 2012, , 31-46.		9
48	Next Generation Data Infrastructures: Towards an Extendable Model of the Asset Management Data Infrastructure as Complex Adaptive System. Complexity, 2019, 2019, 1-17.	0.9	8
49	Actor Behaviour and Robustness of Industrial Symbiosis Networks: An Agent-Based Modelling Approach. Jasss, 2021, 24, .	1.0	8
50	Maximising the Worth of Nascent Networks. Networks and Spatial Economics, 2014, 14, 27-46.	0.7	7
51	Analysis of future electricity demand and supply in the low voltage distribution grid. , 2014, , .		7
52	Exploring for real options during CCS networks conceptual design to mitigate effects of path-dependency and lock-in. International Journal of Greenhouse Gas Control, 2015, 42, 16-25.	2.3	7
53	A double analysis of stakeholder interaction in public infrastructure management. Facilities, 2011, 29, 563-576.	0.8	6
54	The influence of information quality on decision-making for networked infrastructure management. Structure and Infrastructure Engineering, 2017, 13, 696-708.	2.0	6

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55	Developing and Understanding Design Interventions in Relation to Industrial Symbiosis Dynamics. Sustainability, 2017, 9, 826.	1.6	6
56	Resilient Drinking Water Resources. Water Resources Management, 2021, 35, 337-351.	1.9	6
57	Design of a syngas infrastructure. Computer Aided Chemical Engineering, 2008, 25, 223-228.	0.3	5
58	Simulation and Gaming for Understanding the Complexity of Cooperation in Industrial Networks. , 2012, , 81-92.		5
59	A method for designing minimumâ€cost multisource multisink network layouts. Systems Engineering, 2020, 23, 14-35.	1.6	5
60	Developing and implementing innovative ICT-supported engineering education and educational services: results of a faculty-wide research and implementation programme. European Journal of Engineering Education, 2003, 28, 403-420.	1.5	4
61	Road roles Using gaming simulation as decision technique for future asset management practices. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	4
62	An approach for flexible design of infrastructure networks via a risk sharing contract: The case of CO2 transport infrastructure. International Journal of Greenhouse Gas Control, 2017, 63, 401-411.	2.3	4
63	Conceptualization of Vehicle-to-Grid Contract Types and Their Formalization in Agent-Based Models. Complexity, 2018, 2018, 1-11.	0.9	4
64	System of Systems Perspectives on Infrastructures. , 0, , 257-274.		4
65	Decision making in the methanol production chain a screening tool for exploring alternative production chains. Computer Aided Chemical Engineering, 2003, 15, 481-486.	0.3	3
66	Using Gilbert networks to reveal uncertainty in the planning of multi-user infrastructures. , 2011, , .		3
67	Valuing information for sewer replacement decisions. Water Science and Technology, 2016, 74, 796-804.	1.2	3
68	Aggregated fuel cell vehicles in electricity markets with high wind penetration. , 2018, , .		3
69	Modeling the decentralized energy investment and operation in the prosumer era: a systematic review. , 2020, , .		3
70	Sustaining Collective Action in Urban Community Gardens. Jasss, 2021, 24, .	1.0	3
71	Information Use in Dutch Sewer Asset Management. Lecture Notes in Mechanical Engineering, 2015, , 615-624.	0.3	3
72	Re-organise: Game-Based Learning of Circular Business Model Innovation. Frontiers in Sustainability, 2022, 3, .	1.3	3

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73	Adaptive control approach in modeling life-cycle maintenance policy selection and optimisation during infrastructure systems conceptual design & operation. Computer Aided Chemical Engineering, 2007, 24, 1145-1150.	0.3	2
74	The Car as Power Plant: Towards socio-technical systems integration. , 2015, , .		2
75	Assessing complexity of carbon capture and storage using multi-criteria decision-making methods. , 2015, , .		2
76	Smart thermal grid. , 2015, , .		2
77	A socio-technical perspective to flexible design of energy infrastructure systems. , 2016, , .		2
78	Incentivising consumers in smart grids to shift their electricity use. , 2016, , .		2
79	Agent-based modelling and simulation for circular business model experimentation. Resources, Conservation & Recycling Advances, 2021, 12, 200055.	1.1	2
80	The Dynamics of Outsourcing Maintenance of Civil Infrastructures in Performance-Based Contracts. Lecture Notes in Mechanical Engineering, 2014, , 677-687.	0.3	2
81	From Mitigation to Adaptation in Asset Management for Climate Change: A Discussion. Lecture Notes in Mechanical Engineering, 2015, , 103-115.	0.3	2
82	Highlights from CESUN 2016: Contemporary issues in methodological rigor for systems research. Systems Engineering, 2017, 20, 481-482.	1.6	1
83	Static volume-based and control-based contracts for coordinating vehicle-to-grid supply in a microgrid. , 2017, , .		1
84	Enhancing the resilience of drinking water infrastructures. International Journal of Critical Infrastructures, 2022, 18, 1.	0.1	1
85	Building a Syngas Infrastructure: Translating Inverse Properties into Design Recommendations. , 2012, , .		1
86	Developing a methanol-based industrial cluster. Computer Aided Chemical Engineering, 2003, 14, 305-310.	0.3	0
87	Sustainable District Heating System: A Multi-Actor Perspective. , 2006, , .		0
88	Multi-fuel syngas infrastructures in seaports. , 2008, , .		0
89	Integration of societal outage cost into infrastructure design and maintenance optimisation. , 2009, , .		0
90	An agent based model for the exploration and assessment of sulfur technology for upstream stranded gas fields. Computer Aided Chemical Engineering, 2013, , 1051-1056.	0.3	0

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91	Reliability Integration to Process Synthesis applied to GTL Processes. Computer Aided Chemical Engineering, 2014, 33, 79-84.	0.3	0
92	Innovative contracting and the need for dynamic adaptive standards in the asset management of transportation infrastructures. International Journal of Strategic Engineering Asset Management, 2015, 2, 395.	0.6	0
93	The Role of Wealth Inequality on Collective Action for Management of Common Pool Resource. Springer Proceedings in Complexity, 2021, , 375-379.	0.2	0
94	Flexible Gas Infrastructures. Lecture Notes in Mechanical Engineering, 2014, , 655-663.	0.3	0
95	Coordinating Data-Driven Decision-Making in Public Asset Management Organizations: A Quasi-Experiment for Assessing the Impact of Data Governance on Asset Management Decision Making. Lecture Notes in Computer Science, 2016, , 573-583.	1.0	0
96	Technology, Policy and Management: Co-evolving or Converging?. , 2018, , 9-14.		0