

Liz Varga

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,169
citations

471509

17
h-index

414414

32
g-index

55
all docs

55
docs citations

55
times ranked

1330
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrastructure and city ontologies. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2023, 176, 43-52.	1.7	0
2	Analysis of Resilience Situations for Complex Engineered Systems â€“ the Resilience Holon. IEEE Systems Journal, 2022, 16, 2265-2276.	4.6	1
3	Steering supply chains from a complex systems perspective. European Journal of Management Studies, 2022, 27, 5-38.	1.6	5
4	5G network deployment and the associated energy consumption in the UK: A complex systemsâ€™ exploration. Technological Forecasting and Social Change, 2022, 180, 121672.	11.6	15
5	Network Properties for Robust Multilayer Infrastructure Systems: A Percolation Theory Review. IEEE Access, 2021, 9, 135755-135773.	4.2	6
6	Evaluating the Bovine Tuberculosis Eradication Mechanism and Its Risk Factors in Englandâ€™s Cattle Farms. International Journal of Environmental Research and Public Health, 2021, 18, 3451.	2.6	5
7	Optimising renewable energy integration in new housing developments with low carbon technologies. Renewable Energy, 2021, 169, 527-540.	8.9	30
8	Economic Evaluation of Mental Health Effects of Flooding Using Bayesian Networks. International Journal of Environmental Research and Public Health, 2021, 18, 7467.	2.6	1
9	Digital Twins in Civil Infrastructure Systems. Sustainability, 2021, 13, 11549.	3.2	35
10	Micro-generation technologies and consumption of resources: A complex systemsâ€™ exploration. Journal of Cleaner Production, 2020, 247, 119091.	9.3	13
11	Modelling the diffusion and operation of anaerobic digestions in Great Britain under future scenarios within the scope of water-energy-food nexus. Journal of Cleaner Production, 2020, 253, 119897.	9.3	15
12	Engineering Resilient Complex Systems: The Necessary Shift Toward Complexity Science. IEEE Systems Journal, 2020, 14, 3865-3874.	4.6	20
13	Infrastructure Interdependencies: Opportunities from Complexity. Journal of Infrastructure Systems, 2020, 26, .	1.8	27
14	Sustainability from household and infrastructure innovations. Sustainability Science, 2020, 15, 1753-1766.	4.9	4
15	Anaerobic Digestion of food waste: Eliciting sustainable water-energy-food nexus practices with Agent Based Modelling and visual analytics. Journal of Cleaner Production, 2020, 255, 120060.	9.3	29
16	A Review of Methods to Study Resilience of Complex Engineering and Engineered Systems. IEEE Access, 2020, 8, 87775-87799.	4.2	18
17	Modelling and simulation of steel reheating processes under oxy-fuel combustion conditions â€“ Technical and environmental perspectives. Energy, 2019, 185, 730-743.	8.8	14
18	Control of Supercritical Organic Rankine Cycle based Waste Heat Recovery System Using Conventional and Fuzzy Self-tuned PID Controllers. International Journal of Control, Automation and Systems, 2019, 17, 2969-2981.	2.7	13

#	ARTICLE	IF	CITATIONS
19	A Resilience Toolbox and Research Design for Black Sky Hazards to Power Grids. Complexity, 2019, 2019, 1-15.	1.6	2
20	Resilience or robustness: identifying topological vulnerabilities in rail networks. Royal Society Open Science, 2019, 6, 181301.	2.4	40
21	Nonlinear dynamic simulation and control of large-scale reheating furnace operations using a zone method based model. Applied Thermal Engineering, 2018, 135, 41-53.	6.0	22
22	Function Value-Based Multi-Objective Optimisation of Reheating Furnace Operations Using Hooke-Jeeves Algorithm. Energies, 2018, 11, 2324.	3.1	4
23	Design of Local Services Markets for Pricing DSO-TSO Procurement Coordination. , 2018, , .		9
24	Optimal Scheduling of Multi-Carrier Energy Networks Considering Liquid Air Energy Storage. , 2018, , .		3
25	Energy and Complexity. Complexity, 2018, 2018, 1-2.	1.6	6
26	Reducing industrial energy demand in the UK: A review of energy efficiency technologies and energy saving potential in selected sectors. Renewable and Sustainable Energy Reviews, 2018, 94, 1153-1178.	16.4	110
27	Fuzzy Nonlinear Dynamic Evaporator Model in Supercritical Organic Rankine Cycle Waste Heat Recovery Systems. Energies, 2018, 11, 901.	3.1	12
28	Power Generation Expansion Optimization Model Considering Multi-Scenario Electricity Demand Constraints: A Case Study of Zhejiang Province, China. Energies, 2018, 11, 1498.	3.1	10
29	Linking energy behaviour, attitude and habits with environmental predisposition and knowledge. International Journal of Sustainable Energy, 2017, 36, 398-414.	2.4	24
30	Anaerobic digestion: a prime solution for water, energy and food nexus challenges. Energy Procedia, 2017, 123, 22-29.	1.8	14
31	Refrigerated warehouses as intelligent hubs to integrate renewable energy in industrial food refrigeration and to enhance power grid sustainability. Trends in Food Science and Technology, 2017, 60, 96-103.	15.1	25
32	System dynamics of oxyfuel power plants with liquid oxygen energy storage. Energy Procedia, 2017, 142, 3727-3733.	1.8	4
33	Model-based multi-objective optimisation of reheating furnace operations using genetic algorithm. Energy Procedia, 2017, 142, 2143-2151.	1.8	17
34	Multiutility service companies: A complex systems model of increasing resource efficiency. Complexity, 2016, 21, 23-33.	1.6	4
35	A framework for targeting household energy savings through habitual behavioural change. International Journal of Sustainable Energy, 2016, 35, 686-700.	2.4	61
36	The uncertainty of systemic risk. Risk Management, 2015, 17, 240-275.	2.3	10

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37	An agent-based model for energy service companies. Energy Conversion and Management, 2015, 94, 233-244.	9.2	20
38	Agent-based modeling of the energy network for hybrid cars. Energy Conversion and Management, 2015, 98, 376-386.	9.2	5
39	Towards resource-efficient and service-oriented integrated infrastructure operation. Technological Forecasting and Social Change, 2015, 92, 40-52.	11.6	65
40	Energy and complexity: New ways forward. Applied Energy, 2015, 138, 150-159.	10.1	224
41	Characterizing conversion points and complex infrastructure systems: Creating a system representation for agent-based modeling. Complexity, 2014, 19, 30-43.	1.6	11
42	Identifying Adaptation Options and Constraints: The Role of Agronomist Knowledge in Catchment Management Strategy. Water Resources Management, 2014, 28, 511-526.	3.9	7
43	Agent based modeling of energy networks. Energy Conversion and Management, 2014, 82, 308-319.	9.2	46
44	Modelling sustainable energy futures for the UK. Futures, 2014, 57, 28-40.	2.5	8
45	Single infrastructure utility provision to households: Technological feasibility study. Futures, 2013, 49, 35-48.	2.5	11
46	Future utility services™ (un)knowns framework: Knowledge existence and knowledge reach. Futures, 2013, 54, 68-86.	2.5	2
47	Developing an AHP based decision model for energy systems policy making. , 2013, , .		9
48	Transforming Critical Infrastructure. International Journal of E-Planning Research, 2013, 2, 38-49.	1.4	1
49	Rethinking Future of Utilities: Supplying All Services through One Sustainable Utility Infrastructure. Environmental Science & Technology, 2012, 46, 5271-5272.	10.0	5
50	The evolutionary complexity of social and economic systems: The inevitability of uncertainty and surprise. Risk Management, 2010, 12, 9-30.	2.3	17
51	A cladistic classification of commercial aerospace supply chain evolution. Journal of Manufacturing Technology Management, 2009, 20, 235-257.	6.4	41
52	Aerospace Supply Chains as Evolutionary Networks of Activities: Innovation via Risk-Sharing Partnerships. Creativity and Innovation Management, 2008, 17, 304-318.	3.3	30
53	Management Decision-Making: Risk Reduction Through Simulation. Risk Management, 2006, 8, 310-328.	2.3	3
54	A co-evolutionary Complex Systems Perspective on Information Systems. Journal of Information Technology, 2006, 21, 229-238.	3.9	36

#	ARTICLE	IF	CITATIONS
55	Towards self-healing in water infrastructure systems. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 0, , 1-9.	1.7	0