Igor Nikolic

List of Publications by Year
in descending order

45 papers	853 citations	567144 15 h-index	526166 27 g-index
47 all docs	47 docs citations	47 times ranked	1012 citing authors

#	Article	IF	Citations
1	Participatory multi-modelling as the creation of a boundary object ecology: the case of future energy infrastructures in the Rotterdam Port Industrial Cluster. Sustainability Science, 2021, 16, 901-918.	2.5	17
2	Agent-based modelling of the social dynamics of energy end use. , 2020, , 321-351.		5
3	From Niche to Market—An Agent-Based Modeling Approach for the Economic Uptake of Electro-Fuels (Power-to-Fuel) in the German Energy System. Energies, 2020, 13, 5522.	1.6	10
4	The role of household adaptation measures in reducing vulnerability to flooding: a coupled agent-based and flood modelling approach. Hydrology and Earth System Sciences, 2020, 24, 5329-5354.	1.9	7
5	Flood risk management in Sint Maarten – A coupled agent-based and flood modelling method. Journal of Environmental Management, 2019, 248, 109317.	3.8	39
6	The influence of the energy transition on the significance of key energy metrics. Renewable and Sustainable Energy Reviews, 2019, 111, 215-223.	8.2	35
7	Why fully liberalised electricity markets will fail to meet deep decarbonisation targets even with strong carbon pricing. Energy Policy, 2019, 131, 99-110.	4.2	32
8	Modeling with Stakeholders for Transformative Change. Sustainability, 2019, 11, 825.	1.6	52
9	Surveying After a Disaster: Capturing Elements of Vulnerability, Risk and Lessons Learned from a Household Survey in the Case Study of Hurricane Irma in Sint Maarten. Journal of Extreme Events, 2019, 06, 1950001.	1.2	11
10	A coupled flood-agent-institution modelling (CLAIM) framework for urban flood risk management. Environmental Modelling and Software, 2019, 111, 483-492.	1.9	53
11	Jumping to a better world: An agent-based exploration of criticality in low-carbon energy transitions. Energy Research and Social Science, 2019, 47, 156-165.	3.0	15
12	Behaviour change in post-consumer recycling: Applying agent-based modelling in social experiment. Journal of Cleaner Production, 2018, 187, 1006-1013.	4.6	57
13	Multi-model ecologies for shaping future energy systems: Design patterns and development paths. Renewable and Sustainable Energy Reviews, 2018, 82, 3441-3451.	8.2	19
14	A Complementary Understanding of Residential Energy Demand, Consumption and Services. , 2018, , 111-127.		0
15	Exploring policy impacts for servicising in product-based markets: A generic agent-based model. Journal of Cleaner Production, 2017, 145, 1-13.	4.6	14
16	An Agent-Based Model of Flood Risk and Insurance. Jasss, 2017, 20, .	1.0	41
17	An Agent-Based Model of Electricity Consumer: Smart Metering Policy Implications in Europe. Jasss, 2017, 20, .	1.0	7
18	An Energy Systems Modelling Tool for the Social Simulation Community. Jasss, 2016, 19, .	1.0	8

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19	Sustainable Competence Development of Business Students: Effectiveness of Using Serious Games. Lecture Notes in Computer Science, 2016, , 3-14.	1.0	1
20	IE = Industrial Evolution?. Journal of Industrial Ecology, 2015, 19, 198-200.	2.8	3
21	Multimodel Ecologies: Cultivating Model Ecosystems in Industrial Ecology. Journal of Industrial Ecology, 2015, 19, 252-263.	2.8	13
22	Enhancing Recycling of Construction Materials: An Agent Based Model with Empirically Based Decision Parameters. Jasss, 2014, 17, .	1.0	18
23	Evolving Greenhouses: An Agent-Based Model of Universal Darwinism in Greenhouse Horticulture. Jasss, 2013, 16, .	1.0	2
24	How Radical is a Radical Innovation? An Outline for a Computational Approach. Energy Procedia, 2012, 20, 346-353.	1.8	15
25	New Methods for Analysis of Systems-of-Systems and Policy: The Power of Systems Theory,Crowd Sourcing and Data Management. , 2012, , .		2
26	Modeling Metal Flow Systems. Journal of Industrial Ecology, 2012, 16, 176-190.	2.8	27
27	Self-Organization in Wikis. , 2012, , .		2
28	A method for developing agent-based models of socio-technical systems. , 2011, , .		23
29	Universal Darwinism in greenhouses: Proof of concept using an agent based model. , 2011, , .		2
30	Infrastructure modelling 2.0. International Journal of Critical Infrastructures, 2010, 6, 168.	0.1	6
31	Industrial Ecology 2.0. Journal of Industrial Ecology, 2010, 14, 707-726.	2.8	46
32	On the development of agent-based models for infrastructure evolution. International Journal of Critical Infrastructures, 2010, 6, 148.	0.1	16
33	Critical infrastructures: a review from a complex adaptive systems perspective. International Journal of Critical Infrastructures, 2010, 6, 380.	0.1	21
34	Model based decision support for creation and operation of sustainable infrastructure. , 2009, , .		0
35	Integration of Life Cycle Assessment Into Agentâ€Based Modeling. Journal of Industrial Ecology, 2009, 13, 306-325.	2.8	86
36	Understanding and Shaping the Evolution of Sustainable Large-Scale Socio-Technical Systems. , 2009, , .		2

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37	On the development of Agent-Based Models for infrastructure evolution. , 2008, , .		2
38	Integrating Life Cycle Analysis with Agent Based Modeling: Deciding on bio-electricity. , 2008, , .		1
39	Facilitating Interdisciplinary Modelling of Complex Problems. , 2007, , .		6
40	Assessing business continuity risks in IT. , 2007, , .		9
41	Framework for Understanding and Shaping Systems of Systems The case of industry and infrastructure development in seaport regions. , 2007, , .		6
42	Shaping Regional Industry-Infrastructure Networks An Agent Based Modelling Framework. , 2006, , .		8
43	Dematerialization: Not Just a Matter of Weight. Journal of Industrial Ecology, 2004, 8, 121-137.	2.8	106
44	Evolving a Climate-Resilient Electricity Infrastructure in the Netherlands. , 0, , .		3
45	Emergence Engineering: A Review. SSRN Electronic Journal, 0, , .	0.4	0