Lorenz M Hilty

List of Publications by Year in descending order

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LODENZ M HUTY

#	Article	IF	CITATIONS
1	Digital sufficiency: conceptual considerations for ICTs on a finite planet. Annales Des Telecommunications/Annals of Telecommunications, 2023, 78, 277-295.	2.5	14
2	Toward a method for assessing the energy impacts of telecommuting based on time-use data. Travel Behaviour & Society, 2022, 27, 107-116.	5.0	6
3	The digital sharing economy: A confluence of technical and social sharing. Environmental Innovation and Societal Transitions, 2021, 38, 127-139.	5.5	65
4	Impacts of telecommuting on time use and travel: A case study of a neighborhood telecommuting center in Stockholm. Travel Behaviour & Society, 2021, 23, 157-165.	5.0	19
5	Representation, Propagation, and Interpretation of Uncertain Knowledge in Dynamic Probabilistic Material Flow Models. Environmental Modeling and Assessment, 2021, 26, 709-721.	2.2	0
6	Digital transformation—life cycle assessment of digital services, multifunctional devices and cloud computing. International Journal of Life Cycle Assessment, 2020, 25, 2093-2098.	4.7	32
7	Sources of variation in life cycle assessments of smartphones and tablet computers. Environmental Impact Assessment Review, 2020, 84, 106416.	9.2	35
8	Conceptualizing the impact of information and communication technology on individual time and energy use. Telematics and Informatics, 2020, 49, 101375.	5.8	18
9	Digitally Enabled Sharing and the Circular Economy: Towards a Framework for Sustainability Assessment. Progress in IS, 2020, , 105-116.	0.6	7
10	The Relevance of Digital Sharing Business Models for Sustainability. , 2020, , .		7
11	A Typology of Digital Sharing Business Models: A Design Science Research Approach. Lecture Notes in Computer Science, 2020, , 297-308.	1.3	1
12	Contribution-based prioritization of LCI database improvements: the most important unit processes in ecoinvent. International Journal of Life Cycle Assessment, 2019, 24, 1778-1792.	4.7	6
13	How LCA contributes to the environmental assessment of higher order effects of ICT application: A review of different approaches. Journal of Cleaner Production, 2019, 219, 698-712.	9.3	92
14	Transparenz normativer Orientierungen in partizipativen TA-Projekten. TATuP - Zeitschrift Für TechnikfolgenabschÃæung in Theorie Und Praxis, 2019, 28, 58-64.	0.4	1
15	Motivating students on ICT-related study programs to engage with the subject of sustainable development. International Journal of Sustainability in Higher Education, 2018, 19, 642-656.	3.1	14
16	Sustainable software products—Towards assessment criteria for resource and energy efficiency. Future Generation Computer Systems, 2018, 86, 199-210.	7.5	62
17	Service Lifetime, Storage Time, and Disposal Pathways of Electronic Equipment: A Swiss Case Study. Journal of Industrial Ecology, 2018, 22, 196-208.	5.5	44
18	Assessing Indirect Environmental Effects of Information and Communication Technology (ICT): A Systematic Literature Review. Sustainability, 2018, 10, 2662.	3.2	71

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19	Where Do Our Resources Go? Indium, Neodymium, and Gold Flows Connected to the Use of Electronic Equipment in Switzerland. Sustainability, 2018, 10, 2658.	3.2	41
20	ICT-Enabled Sharing Economy and Environmental Sustainability—A Resource-Oriented Approach. Progress in IS, 2018, , 53-65.	0.6	11
21	Conceptualizing the Digital Sharing Economy in the Context of Sustainability. Sustainability, 2018, 10, 4453.	3.2	70
22	Unintended Side Effects of the Digital Transition: European Scientists' Messages from a Proposition-Based Expert Round Table. Sustainability, 2018, 10, 2001.	3.2	82
23	An agent-based model of wood markets: Scenario analysis. Forest Policy and Economics, 2018, 95, 26-36.	3.4	9
24	An Approach to Assess Indirect Environmental Effects of Digitalization Based on a Time-Use Perspective. Progress in IS, 2018, , 67-78.	0.6	14
25	Empirical validation of an agent-based model of wood markets in Switzerland. PLoS ONE, 2018, 13, e0190605.	2.5	10
26	Use, Storage, and Disposal of Electronic Equipment in Switzerland. Environmental Science & Technology, 2017, 51, 4494-4502.	10.0	27
27	Contribution-based prioritization of LCI database improvements: Method design, demonstration, and evaluation. Environmental Modelling and Software, 2016, 86, 204-218.	4.5	12
28	Service lifetime and disposal pathways of business devices. , 2016, , .		1
29	Using Systems Thinking and System Dynamics Modeling to Understand Rebound Effects. Progress in IS, 2016, , 237-255.	0.6	2
30	A dynamic probabilistic material flow modeling method. Environmental Modelling and Software, 2016, 76, 69-80.	4.5	54
31	LICARA nanoSCAN - A tool for the self-assessment of benefits and risks of nanoproducts. Environment International, 2016, 91, 150-160.	10.0	53
32	Enhancing Agent-Based Models with Discrete Choice Experiments. Jasss, 2016, 19, .	1.8	18
33	The Energy Demand of ICT: A Historical Perspective and Current Methodological Challenges. Advances in Intelligent Systems and Computing, 2015, , 71-103.	0.6	22
34	The Things of the Internet of Things in BPMN. Lecture Notes in Business Information Processing, 2015, , 285-297.	1.0	48
35	Information technology and renewable energy — Modelling, simulation, decision support and environmental assessment. Environmental Impact Assessment Review, 2015, 52, 1.	9.2	5
36	Ethical Issues in Ubiquitous Computing—Three Technology Assessment Studies Revisited. Advances in Intelligent Systems and Computing, 2015, , 45-60.	0.6	9

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37	ICT for Sustainability: An Emerging Research Field. Advances in Intelligent Systems and Computing, 2015, , 3-36.	0.6	150
38	An Information System Supporting Cap and Trade in Organizations. Advances in Intelligent Systems and Computing, 2015, , 285-299.	0.6	1
39	Gamification and Sustainable Consumption: Overcoming the Limitations of Persuasive Technologies. Advances in Intelligent Systems and Computing, 2015, , 367-385.	0.6	39
40	Dematerialization Through Electronic Media?. Advances in Intelligent Systems and Computing, 2015, , 405-421.	0.6	14
41	Modeling the Effects of ICT on Environmental Sustainability: Revisiting a System Dynamics Model Developed for the European Commission. Advances in Intelligent Systems and Computing, 2015, , 449-474.	0.6	15
42	The Energy Intensity of the Internet: Home and Access Networks. Advances in Intelligent Systems and Computing, 2015, , 137-155.	0.6	23
43	The Energy Intensity of the Internet: Edge and Core Networks. Advances in Intelligent Systems and Computing, 2015, , 157-170.	0.6	14
44	Evaluating the sustainability of electronic media: Strategies for life cycle inventory data collection and their implications for LCA results. Environmental Modelling and Software, 2014, 56, 27-36.	4.5	24
45	Modeling Metal Stocks and Flows: A Review of Dynamic Material Flow Analysis Methods. Environmental Science & Technology, 2014, 48, 2102-2113.	10.0	350
46	Assessing Internet energy intensity: A review of methods and results. Environmental Impact Assessment Review, 2014, 45, 63-68.	9.2	74
47	The Direct Energy Demand of Internet Data Flows. Journal of Industrial Ecology, 2013, 17, 680-688.	5.5	54
48	Simulation der Smart Grid Integration eines modernen Bürogebädes am Beispiel von IBM-Schweiz. , 2013, , 59-68.		0
49	Effects of Internet-based multiple-site conferences on greenhouse gas emissions. Telematics and Informatics, 2012, 29, 362-374.	5.8	125
50	Prospective Impacts of Electronic Textiles on Recycling and Disposal. Journal of Industrial Ecology, 2011, 15, 496-511.	5.5	66
51	Environmental impacts of lighting technologies — Life cycle assessment and sensitivity analysis. Environmental Impact Assessment Review, 2011, 31, 334-343.	9.2	81
52	Information and Communication Technologies for a more Sustainable World. , 2011, , 410-418.		3
53	Information and Communication Technologies for a more Sustainable World. , 2011, , 36-45.		1
54	Scenario Analysis. Journal of Industrial Ecology, 2010, 14, 826-843.	5.5	128

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55	SUSTAINABLE DEVELOPMENT AND ICT INTERPRETED IN A NATURAL SCIENCE CONTEXT. Information, Communication and Society, 2010, 13, 7-22.	4.0	29
56	ICT and Sustainable Development. International Federation for Information Processing, 2010, , 227-235.	0.4	32
57	The Precautionary Principle as a Framework for a Sustainable Information Society. Journal of Business Ethics, 2009, 85, 493-505.	6.0	31
58	One laptop per child, local refurbishment or overseas donations? Sustainability assessment of computer supply scenarios for schools in Colombia. Journal of Environmental Management, 2009, 90, 3498-3511.	7.8	39
59	Impact assessment and policy learning in the European Commission. Environmental Impact Assessment Review, 2008, 28, 90-105.	9.2	42
60	The Material Side of Virtualization. , 2007, , 5-6.		1
61	Risiken und Nebenwirkungen der Informatisierung des Alltags. , 2007, , 187-205.		1
62	Life cycle assessment of second generation (2G) and third generation (3G) mobile phone networks. Environment International, 2006, 32, 656-675.	10.0	65
63	Environmental informatics. Environmental Modelling and Software, 2006, 21, 1517-1518.	4.5	11
64	The relevance of information and communication technologies for environmental sustainability – A prospective simulation study. Environmental Modelling and Software, 2006, 21, 1618-1629.	4.5	268
65	Environmental Assessment of End-of-Life Treatment Options for a GSM 900 Antenna Rack (12 pp paper) Tj ETQq1	1,0.7843 4.7	14 rgBT /0 11
66	Rebound effects of progress in information technology. Poiesis & Praxis, 2006, 4, 19-38.	0.3	56
67	Electronic waste—an emerging risk?. Environmental Impact Assessment Review, 2005, 25, 431-435.	9.2	73
68	The end of life treatment of second generation mobile phone networks: Strategies to reduce the environmental impact. Environmental Impact Assessment Review, 2005, 25, 540-566.	9.2	57
69	Smart labels in municipal solid waste — a case for the Precautionary Principle?. Environmental Impact Assessment Review, 2005, 25, 567-586.	9.2	52
70	Pervasive Computing – A Case for the Precautionary Principle?. Lecture Notes in Computer Science, 2005, , 1-2.	1.3	0
71	Towards sustainable pervasive computing - Guest editorial. IEEE Technology and Society Magazine, 2005, 24, 7-8.	0.8	3
72	The Precautionary Principle in the Information Society. Human and Ecological Risk Assessment (HERA), 2004, 10, 787-799.	3.4	25

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73	Introduction: Technology Assessment for Pervasive Computing. Human and Ecological Risk Assessment (HERA), 2004, 10, 759-761.	3.4	0
74	Assessing the Human, Social, and Environmental Risks of Pervasive Computing. Human and Ecological Risk Assessment (HERA), 2004, 10, 853-874.	3.4	55
75	Analysis of energy footprints associated with recycling of glass and plastic—case studies for industrial ecology. Ecological Modelling, 2004, 174, 175-189.	2.5	39
76	Environmental impacts of an international conference. Environmental Impact Assessment Review, 2002, 22, 543-557.	9.2	61
77	Sustainable development and information technology. Environmental Impact Assessment Review, 2002, 22, 445-447.	9.2	3
78	A General Modelling and Simulation System for Sustainability Impact Assessment in the Field of Traffic and Logistics. , 2001, , 167-185.		1
79	Betriebliche Umweltinformationssysteme (BUIS) - eine Literaturanalyse. Informatik-Spektrum, 1997, 20, 159-167.	1.3	4
80	Environmental Management Information Systems for Production and Recycling. IFIP Advances in Information and Communication Technology, 1997, , 21-29.	0.7	6
81	15.Betriebliche Umweltinformatik. , 1995, , 295-312.		2
82	Betriebliche und überbetriebliche Umweltinformationssysteme als informationstechnische Infrastruktur für das Stoffstrommanagement. , 1995, , 193-205.		2
83	Anforderungen an ein ökologisch orientiertes Logistik-Informationssystem. Informatik Aktuell, 1992, , 254-263.	0.6	2