BjÃ¶rn SandÃ©n

List of Publications by Year
in descending order

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43	4,163	147566	264894
papers	citations	31 h-index	42 g-index

44	44	44	3920
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Technological innovation systems in contexts: Conceptualizing contextual structures and interaction dynamics. Environmental Innovation and Societal Transitions, 2015, 16, 51-64.	2.5	367
2	â€˜Legitimationâ€™ and â€˜development of positive externalitiesâ€™: two key processes in the formation phase of technological innovation systems. Technology Analysis and Strategic Management, 2008, 20, 575-592.	2.0	296
3	Energy analysis of batteries in photovoltaic systems. Part I: Performance and energy requirements. Energy Conversion and Management, 2005, 46, 1957-1979.	4.4	258
4	Global energy scenarios meeting stringent CO2 constraintsâ€”cost-effective fuel choices in the transportation sector. Energy Policy, 2003, 31, 961-976.	4.2	249
5	Materials availability for large-scale thin-film photovoltaics. , 2000, 8, 61-76.		243
6	Near-term technology policies for long-term climate targetsâ€”economy wide versus technology specific approaches. Energy Policy, 2005, 33, 1557-1576.	4.2	236
7	The time dimension and lithium resource constraints for electric vehicles. Resources Policy, 2012, 37, 93-103.	4.2	155
8	A framework for analysis of multi-mode interaction among technologies with examples from the history of alternative transport fuels in Sweden. Research Policy, 2011, 40, 403-414.	3.3	154
9	The elusive quest for technology-neutral policies. Environmental Innovation and Societal Transitions, 2011, 1, 135-139.	2.5	150
10	Positive and negative feedback in consequential life-cycle assessment. Journal of Cleaner Production, 2007, 15, 1469-1481.	4.6	143
11	Prospective Life Cycle Assessment of Graphene Production by Ultrasonication and Chemical Reduction. Environmental Science & Technology, 2014, 48, 4529-4536.	4.6	132
12	Energy analysis of batteries in photovoltaic systems. Part II: Energy return factors and overall battery efficiencies. Energy Conversion and Management, 2005, 46, 1980-2000.	4.4	120
13	Transforming the Energy System â€” the Evolution of the German Technological System for Solar Cells. Technology Analysis and Strategic Management, 2004, 16, 3-30.	2.0	116
14	Challenges in Exposure Modeling of Nanoparticles in Aquatic Environments. Human and Ecological Risk Assessment (HERA), 2011, 17, 245-262.	1.7	115
15	Energy Requirements of Carbon Nanoparticle Production. Journal of Industrial Ecology, 2008, 12, 360-375.	2.8	114
16	Material constraints for thin-film solar cells. Energy, 1998, 23, 407-411.	4.5	93
17	Monitoring and assessing technology choice: the case of solar cells. Energy Policy, 2000, 28, 1037-1049.	4.2	87
18	Material constraints for concentrating solar thermal power. Energy, 2012, 44, 944-954.	4.5	86

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19	Explaining regime destabilisation in the pulp and paper industry. Environmental Innovation and Societal Transitions, 2012, 2, 66-81.	2.5	81
20	Review of Potential Environmental and Health Risks of the Nanomaterial Graphene. Human and Ecological Risk Assessment (HERA), 2013, 19, 873-887.	1.7	78
21	Materials and the Global Environment: Waste Mining in the 21st Century. MRS Bulletin, 2001, 26, 477-480.	1.7	71
22	Are scarce metals in cars functionally recycled?. Waste Management, 2017, 60, 407-416.	3.7	71
23	Exploring technology paths: The development of alternative transport fuels in Sweden 2007â€“2020. Technological Forecasting and Social Change, 2008, 75, 1279-1302.	6.2	70
24	Metal resource constraints for electric-vehicle batteries. Transportation Research, Part D: Transport and Environment, 2001, 6, 297-324.	3.2	58
25	Cumulative causation in biofuels development: a critical comparison of the Netherlands and Sweden. Technology Analysis and Strategic Management, 2008, 20, 593-612.	2.0	57
26	Multi-level energy analysis of emerging technologies: a case study in new materials for lithium ion batteries. Journal of Cleaner Production, 2011, 19, 1405-1416.	4.6	56
27	Carbon nanomaterials as potential substitutes for scarce metals. Journal of Cleaner Production, 2017, 156, 253-261.	4.6	55
28	Energy and resource use assessment of graphene as a substitute for indium tin oxide in transparent electrodes. Journal of Cleaner Production, 2016, 132, 289-297.	4.6	51
29	The economic and institutional rationale of PV subsidies. Solar Energy, 2005, 78, 137-146.	2.9	47
30	Impacts of a Silver-Coated Future. Journal of Industrial Ecology, 2011, 15, 844-854.	2.8	44
31	Requirement for metals of electric vehicle batteries. Journal of Power Sources, 2001, 93, 55-71.	4.0	36
32	Particle Flow Analysis. Journal of Industrial Ecology, 2012, 16, 343-351.	2.8	34
33	Handling financial resource mobilisation in technological innovation systems - The case of chinese wind power. Journal of Cleaner Production, 2017, 142, 3872-3882.	4.6	34
34	Understanding reflexive systems of innovation: An analysis of Swedish nanotechnology discourse and organization. Technology Analysis and Strategic Management, 2008, 20, 65-81.	2.0	30
35	Improving the European Commissionâ€™s analytical base for designing instrument mixes in the energy sector: Market failures versus system weaknesses. Energy Research and Social Science, 2017, 33, 11-20.	3.0	29
36	Faster market growth of wind and PV in late adopters due to global experience build-up. Energy, 2017, 131, 267-278.	4.5	27

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37	Solar solution: the next industrial revolution. Materials Today, 2008, 11, 22-24.	8.3	26
38	The critical role of informed political direction for advancing technology: The case of Swedish marine energy. Energy Policy, 2017, 101, 52-64.	4.2	25
39	Distributed power generation versus grid extension: an assessment of solar photovoltaics for rural electrification in Northern Ghana. Progress in Photovoltaics: Research and Applications, 2002, 10, 495-510.	4.4	24
40	Assessing the Environmental Risks of Silver from Clothes in an Urban Area. Human and Ecological Risk Assessment (HERA), 2014, 20, 1008-1022.	1.7	16
41	The limits of academic entrepreneurship: Conflicting expectations about commercialization and innovation in Chinaâ€™s nascent sector for advanced bio-energy technologies. Energy Research and Social Science, 2018, 37, 1-11.	3.0	14
42	Lessons from a century of innovating car recycling value chains. Environmental Innovation and Societal Transitions, 2017, 25, 142-157.	2.5	13
43	Standing the Test of Time: Signals and Noise From Environmental Assessments of Energy Technologies. Materials Research Society Symposia Proceedings, 2007, 1041, 1.	0.1	2