## JÃ<sup>1</sup>/<sub>4</sub>rgen Scheffran

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5827699/publications.pdf

Version: 2024-02-01

159 papers 6,057 citations

38 h-index 71

g-index

172 all docs

172 docs citations

172 times ranked

5263 citing authors

#	Article	IF	CITATIONS
1	Climate change, vulnerability and adaptation in North Africa with focus on Morocco. Agriculture, Ecosystems and Environment, 2012, 156, 12-26.	5.3	350
2	Farmers' perceptions of and adaptation strategies to climate change and their determinants: the case of Punjab province, Pakistan. Earth System Dynamics, 2015, 6, 225-243.	7.1	343
3	Enhanced chemical weathering as a geoengineering strategy to reduce atmospheric carbon dioxide, supply nutrients, and mitigate ocean acidification. Reviews of Geophysics, 2013, 51, 113-149.	23.0	323
4	Climate as a risk factor for armed conflict. Nature, 2019, 571, 193-197.	27.8	306
5	Climate change vulnerability, adaptation and risk perceptions at farm level in Punjab, Pakistan. Science of the Total Environment, 2016, 547, 447-460.	8.0	272
6	Climate Change and Violent Conflict. Science, 2012, 336, 869-871.	12.6	249
7	Migration as a contribution to resilience and innovation in climate adaptation: Social networks and co-development in Northwest Africa. Applied Geography, 2012, 33, 119-127.	3.7	224
8	Adaptation to climate change and its impacts on food productivity and crop income: Perspectives of farmers in rural Pakistan. Journal of Rural Studies, 2016, 47, 254-266.	4.7	186
9	Climate change vulnerability, water resources and social implications in North Africa. Regional Environmental Change, 2020, 20, 1.	2.9	184
10	One effect to rule them all? A comment on climate and conflict. Climatic Change, 2014, 127, 391-397.	3.6	181
11	Evaluating climate geoengineering proposals in the context of the Paris Agreement temperature goals. Nature Communications, 2018, 9, 3734.	12.8	166
12	Farmer Perceptions of Climate Change, Observed Trends and Adaptation of Agriculture in Pakistan. Environmental Management, 2019, 63, 110-123.	2.7	133
13	Climate and conflicts: the security risks of global warming. Regional Environmental Change, $2011, 11, 27-39$ .	2.9	129
14	Climate-related flood risks and urban responses in the Pearl River Delta, China. Regional Environmental Change, 2015, 15, 379-391.	2.9	102
15	Vulnerability of informal settlements in the context of rapid urbanization and climate change. Environment and Urbanization, 2019, 31, 157-176.	2.6	101
16	Raiding pastoral livelihoods: motives and effects of violent conflict in north-western Kenya. Pastoralism, 2012, 2, 25.	1.0	79
17	Vulnerability to climate change of smallholder farmers in the Hamadan province, Iran. Climate Risk Management, 2019, 23, 146-159.	3.2	74
18	Sustainability Assessment of Electricity Generation Technologies in Egypt Using Multi-Criteria Decision Analysis. Energies, 2018, 11, 1117.	3.1	69

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19	On exposure, vulnerability and violence: Spatial distribution of risk factors for climate change and violent conflict across Kenya and Uganda. Political Geography, 2014, 43, 68-81.	2.5	67
20	Revealing the role of livelihood assets in livelihood strategies: Towards enhancing conservation and livelihood development in the Hara Biosphere Reserve, Iran. Ecological Indicators, 2018, 94, 336-347.	6.3	66
21	Disentangling the Climate-conflict Nexus: Empirical and Theoretical Assessment of Vulnerabilities and Pathways. Review of European Studies, 2012, 4, .	0.3	64
22	Impacts of changing urban land-use structure on sustainable city growth in China: A population-density dynamics perspective. Habitat International, 2021, 107, 102296.	5.8	62
23	Ecological and economic sustainability in fishery management: A multi-agent model for understanding competition and cooperation. Ecological Economics, 2009, 68, 1061-1073.	5.7	58
24	On climate, conflict and cumulation: suggestions for integrative cumulation of knowledge in the research on climate change and violent conflict. Global Change, Peace and Security, 2014, 26, 263-279.	0.8	57
25	The Role of Social Networks in Agricultural Adaptation to Climate Change: Implications for Sustainable Agriculture in Pakistan. Climate, 2017, 5, 85.	2.8	57
26	Conceptualizing ConflictSpace: Toward a Geography of Relational Power and Embeddedness in the Analysis of Interstate Conflict. Annals of the American Association of Geographers, 2009, 99, 827-835.	3.0	56
27	A system dynamics model of smart groundwater governance. Agricultural Water Management, 2019, 221, 502-518.	5.6	56
28	Viability analysis of management frameworks for fisheries. Environmental Modeling and Assessment, 2006, 11, 69-79.	2.2	55
29	Bioenergy and land use: a spatial-agent dynamic model of energy crop production in Illinois. International Journal of Environment and Pollution, 2009, 39, 4.	0.2	53
30	Migration as an Adaptation Strategy and its Gendered Implications: A Case Study From the Upper Indus Basin. Mountain Research and Development, 2014, 34, 255-265.	1.0	53
31	Urban flood risks and emerging challenges in a Chinese delta: The case of the Pearl River Delta. Environmental Science and Policy, 2021, 122, 101-115.	4.9	51
32	Conflict and cooperation in the waterâ€security nexus: a global comparative analysis of river basins under climate change. Wiley Interdisciplinary Reviews: Water, 2016, 3, 495-515.	6.5	50
33	Frontiers of urbanization: Identifying and explaining urbanization hot spots in the south of Mexico City using human and remote sensing. Applied Geography, 2017, 79, 1-10.	3.7	50
34	Methods for Long-Term Environmental Policy Challenges. Global Environmental Politics, 2009, 9, 106-133.	3.0	49
35	Climate change, water management and stakeholder analysis in the Dongjiang River basin in South China. International Journal of Water Resources Development, 2018, 34, 166-191.	2.0	48
36	Violent climate or climate of violence? Concepts and relations with focus on Kenya and Sudan. International Journal of Human Rights, 2014, 18, 369-390.	1.2	47

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37	Environmental impacts and causes of conflict in the Horn of Africa: A review. Earth-Science Reviews, 2018, 177, 284-290.	9.1	47
38	Assessment of Flood Losses with Household Responses: Agent-Based Simulation in an Urban Catchment Area. Environmental Modeling and Assessment, 2018, 23, 369-388.	2.2	44
39	Selection of sustainable development indicators for the assessment of electricity production in Egypt. Sustainable Energy Technologies and Assessments, 2017, 22, 65-73.	2.7	41
40	Climatic and environmental change in the Karakoram: making sense of community perceptions and adaptation strategies. Regional Environmental Change, 2014, 14, 1151-1162.	2.9	40
41	Securitization of media reporting on climate change? A cross-national analysis in nine countries. Security Dialogue, 2016, 47, 76-96.	2.2	39
42	Scenarios for regional passenger car fleets and their CO2 emissions. Energy Policy, 2012, 41, 66-74.	8.8	38
43	Directions for Research on Climate and Conflict. Earth's Future, 2020, 8, e2020EF001532.	6.3	37
44	Cooperation and Co-Existence Between Farmers and Herders in the Midst of Violent Farmer-Herder Conflicts in Ghana. African Studies Review, 2018, 61, 78-102.	0.3	36
45	Climate Conflicts 2.0? Climate Engineering as a Challenge for International Peace and Security. Security and Peace, 2012, 30, 193-200.	0.1	35
46	The ConflictSpace of Cataclysm: The International System and the Spread of War 1914-1917. Foreign Policy Analysis, 2011, 7, 143-168.	1.0	34
47	Optimizing the bioenergy industry infrastructure: Transportation networks and bioenergy plant locations. Applied Energy, 2017, 192, 247-261.	10.1	34
48	Resilience and environmental security: towards joint application in peacebuilding. Global Change, Peace and Security, 2017, 29, 107-127.	0.8	33
49	Perspectives on tipping points in integrated models of the natural and human Earth system: cascading effects and telecoupling. Environmental Research Letters, 2022, 17, 015004.	5.2	33
50	Assessing the predictability of future livelihood strategies of pastoralists in semi-arid Morocco under climate change. Technological Forecasting and Social Change, 2012, 79, 371-382.	11.6	32
51	Migration, Social Demands and Environmental Change amongst the Frafra of Northern Ghana and the Biali in Northern Benin. Sustainability, 2014, 6, 375-398.	3.2	28
52	Optimizing the Biofuels Infrastructure: Transportation Networks and Biorefinery Locations in Illinois., 2010,, 151-173.		27
53	The give-or-take-some dilemma: An empirical investigation of a hybrid social dilemma. Organizational Behavior and Human Decision Processes, 2011, 116, 83-95.	2.5	26
54	Resilience of small-scale societies: a view from drylands. Ecology and Society, 2016, 21, .	2.3	24

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55	The dynamic interaction between economy and ecology. Mathematics and Computers in Simulation, 2000, 53, 371-380.	4.4	23
56	The nexus of oil, conflict, and climate change vulnerability of pastoral communities in northwest Kenya. Earth System Dynamics, 2015, 6, 703-717.	7.1	23
57	Human mobility, climate adaptation, and development. Migration and Development, 2016, 5, 165-170.	1.1	23
58	An Agent-Based Modeling Framework for Simulating Human Exposure to Environmental Stresses in Urban Areas. Urban Science, 2018, 2, 36.	2.3	23
59	Cooperation in global climate policy: potentialities and limitations. Energy Policy, 2001, 29, 315-326.	8.8	22
60	Introduction: Climate Change, Human Security, and Violent Conflict in the Anthropocene. Hexagon Series on Human and Environmental Security and Peace, 2012, , 3-40.	0.2	22
61	Change in Environmental Benefits of Urban Land Use and Its Drivers in Chinese Cities, 2000–2010. International Journal of Environmental Research and Public Health, 2016, 13, 535.	2.6	22
62	A Conceptual Modeling Approach to Health-Related Urban Well-Being. Urban Science, 2017, 1, 17.	2.3	22
63	The state of agricultural landscapes in the Mediterranean: smallholder agriculture and land abandonment in terraced landscapes of the Ricote Valley, southeast Spain. Regional Environmental Change, 2021, 21, 1.	2.9	22
64	Theories and Models of Climate-Security Interaction: Framework and Application to a Climate Hot Spot in North Africa. Hexagon Series on Human and Environmental Security and Peace, 2012, , 91-131.	0.2	22
65	A local to global perspective on oil and wind exploitation, resource governance and conflict in Northern Kenya. Conflict, Security and Development, 2018, 18, 571-600.	1.3	21
66	From complex conflicts to stable cooperation: Cases in environment and security. Complexity, 2007, 13, 78-91.	1.6	20
67	Health impacts of smog pollution: the human dimensions of exposure. Lancet Planetary Health, The, 2017, 1, e132-e133.	11.4	20
68	Disaggregated validation of disaster-resilience indicators using household survey data: A case study of Hong Kong. Sustainable Cities and Society, 2021, 67, 102726.	10.4	20
69	Awareness of sea-level response under climate change on the coast of Ghana. Journal of Coastal Conservation, 2018, 22, 183-197.	1.6	19
70	Pathways to water conflict during drought in the MENA region. Journal of Peace Research, 2021, 58, 568-582.	2.9	19
71	Climate change and security. Bulletin of the Atomic Scientists, 2008, 64, 19-26.	0.6	18
72	The complexity of security. Complexity, 2008, 14, 13-21.	1.6	17

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73	Climate change and security. Bulletin of the Atomic Scientists, 2008, 64, 19-25.	0.6	17
74	Identifying sustainable rural entrepreneurship indicators in the Iranian context. Journal of Cleaner Production, 2021, 290, 125186.	9.3	17
75	Control and game-theoretic assessment of climate change: Options for Joint Implementation. Annals of Operations Research, 2000, 97, 203-212.	4.1	16
76	Agent-Based Computational Modelling: An Introduction. , 2006, , 1-16.		15
77	Control and Game-Theoretical Treatment of a Cost-Security Model for Disarmament. Mathematical Methods in the Applied Sciences, 1997, 20, 653-666.	2.3	14
78	Insecurity, Resource Scarcity, and Migration to Camps of Internally Displaced Persons in Northeast Nigeria. Sustainability, 2020, 12, 6830.	3.2	14
79	The Climate-Conflict Nexus: Pathways, Regional Links, and Case Studies. Hexagon Series on Human and Environmental Security and Peace, 2016, , 285-304.	0.2	13
80	Tools for Stakeholder Assessment and Interaction. , 2006, , 153-185.		13
81	The potential of volunteered geographic information to investigate peri-urbanization in the conservation zone of Mexico City. Environmental Monitoring and Assessment, 2018, 190, 219.	2.7	12
82	Livelihood transitions transformed households' carbon footprint in the Three Gorges Reservoir area of China. Journal of Cleaner Production, 2021, 328, 129607.	9.3	12
83	Social capital and farmers' leadership in Iranian rural communities: application of social network analysis. Journal of Environmental Planning and Management, 2023, 66, 977-1001.	4.5	12
84	Modelling armed conflict risk under climate change with machine learning and time-series data. Nature Communications, 2022, 13, .	12.8	12
85	Actors and networks in resource conflict resolution under climate change in rural Kenya. Earth System Dynamics, 2016, 7, 441-452.	7.1	11
86	Water Resources, Forced Migration and Tensions with Host Communities in the Nigerian Part of the Lake Chad Basin. Resources, 2021, 10, 27.	3.5	11
87	A Dynamic Sustainability Analysis of Energy Landscapes in Egypt: A Spatial Agent-Based Model Combined with Multi-Criteria Decision Analysis. Jasss, 2019, 22, .	1.8	11
88	An Agent-Based Approach to Integrated Assessment Modelling of Climate Change. Jasss, 2020, 23, .	1.8	11
89	An inverted U-shaped curve relating farmland vulnerability to biological disasters: Implications for sustainable intensification in China. Science of the Total Environment, 2020, 732, 138829.	8.0	10
90	Adaptive management of energy transitions in long-term climate change. Computational Management Science, 2008, 5, 259-286.	1.3	9

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91	Bioenergy and Food Supply: A Spatial-Agent Dynamic Model of Agricultural Land Use for Jiangsu Province in China. Energies, 2015, 8, 13284-13307.	3.1	9
92	Time-series trend analysis and farmer perceptions of rainfall and temperature in northwestern Ethiopia. Environment, Development and Sustainability, 2021, 23, 12904-12924.	5.0	9
93	The Formation of Adaptive Coalitions. , 2006, , 163-178.		9
94	On Foes and FlowsÂ: Vulnerabilities, Adaptive Capacities and Transboundary Relations in the Nile River Basin in Times of Climate Change. Europe En Formation, 2013, n° 365, 99-138.	0.1	9
95	The Nexus of Climate Change, Land Use, and Conflict: Complex Human–Environment Interactions in Northern Africa. Bulletin of the American Meteorological Society, 2015, 96, 1561-1564.	3.3	8
96	Between the heat and the hardships. Climate change and mixed migration flows in Morocco. Migration and Development, 2016, 5, 293-213.	1.1	8
97	A life-cycle assessment framework for quantifying the carbon footprint of rural households based on survey data. MethodsX, 2021, 8, 101411.	1.6	8
98	Resilience of human settlements against landslide risk: The case of Kurdistan Province, Iran. Land Degradation and Development, 2021, 32, 5360-5377.	3.9	8
99	Sustainable agriculture in Northeastern India: how do tribal farmers perceive and respond to climate change?. International Journal of Sustainable Development and World Ecology, 2022, 29, 291-302.	5.9	8
100	Climate-related disasters and agricultural land conversion: towards prevention policies. Climate and Development, 2022, 14, 814-828.	3.9	8
101	Social Networks in Water Governance and Climate Adaptation in Kenya. Green Energy and Technology, 2015, , 151-167.	0.6	7
102	Environmental Conflict and Sustainable Development: A Conflict Model and its Application to Climate and Energy Policy., 1999,, 195-218.		7
103	The Root Causes of the Crisis in Northeast Nigeria: Historical, Socioeconomic and Environmental Dimensions. Mediterranean Journal of Social Sciences, 2020, 11, 95.	0.2	7
104	Modelling the Impact of the Greenhouse Effect on International Stability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 31-38.	0.4	6
105	Human and remote sensing data to investigate the frontiers of urbanization in the south of Mexico City. Data in Brief, 2017, 11, 5-11.	1.0	6
106	Verification and security of transformation to a nuclear-weapon-free world: the framework of the Treaty on the Prohibition of Nuclear Weapons. Global Change, Peace and Security, 2018, 30, 143-162.	0.8	6
107	The entwined Cold War roots of missile defense and climate geoengineering. Bulletin of the Atomic Scientists, 2019, 75, 222-228.	0.6	6
108	A Transdisciplinary Approach to Identifying Transboundary Tipping Points in a Contentious Area: Experiences from across the Jordan River Region. Sustainability, 2019, 11, 1184.	3.2	6

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109	Calculated Security? Mathematical Modelling of Conflict and Cooperation. , 2003, , 390-412.		6
110	Umweltkonflikte und nachhaltige Entwicklung - ein Konfliktmodell und seine Anwendung in der Klima- und Energiepolitik. , 1998, , 209-232.		6
111	Preventing Dangerous Climate Change. , 2008, , 493-526.		6
112	Prediction of landslides by machine learning algorithms and statistical methods in Iran. Environmental Earth Sciences, 2022, 81, .	2.7	6
113	Conflicts and Security Risks of Climate Change in the Mediterranean Region. , 2014, , 625-640.		5
114	Reconciling food and bioenergy feedstock supply in emerging economies: Evidence from Jiangsu Province in China. International Journal of Green Energy, 2017, 14, 509-521.	3.8	5
115	Real or Hyped? Linkages Between Environmental / Climate Change and Conflicts – The Case of Farmers and Fulani Pastoralists in Ghana. , 2019, , 161-185.		5
116	Climate extremes and conflict dynamics. , 2020, , 293-315.		5
117	Frieden und nachhaltige Entwicklung. , 2011, , 310-323.		5
118	Optimization of an n -Person Game Under Linear Side Conditions. , 2000, , 76-85.		5
119	From a Climate of Complexity to Sustainable Peace: Viability Transformations and Adaptive Governance in the Anthropocene. Hexagon Series on Human and Environmental Security and Peace, 2016, , 305-346.	0.2	5
120	Evaluating economic and ecological management to determine the economic size of pastoral units for different climatic zones in the northeast of Iran. Journal of Environmental Management, 2022, 301, 113766.	7.8	5
121	Climate and war: No clear-cut schism. Nature, 2013, 498, 171-171.	27.8	4
122	Reducing climate adaptation deficits using revolving fund network schemes in rural areas of Kenya: case study of Loitoktok district. African J of Economic and Sustainable Development, 2013, 2, 347.	0.3	4
123	Technological and social networks of a pastoralist artificial society: agent-based modeling of mobility patterns. Journal of Computational Social Science, 2021, 4, 681-707.	2.4	4
124	Policy-business interaction in emissions trading between multiple regions., 2006,, 353-367.		4
125	Agent-Based Modeling of Environmental Conflict and Cooperation. , 0, , .		4
126	A Comprehensive Evaluation of Electricity Planning Models in Egypt: Optimization versus Agent-Based Approaches. Sustainability, 2022, 14, 1563.	3.2	4

#	Article	lF	CITATIONS
127	Conflict-Sensitive Climate Change Adaptation: A Review. Sustainability, 2022, 14, 8060.	3.2	4
128	Verification and Risk for an Anti-Satellite Weapons Ban1. Bulletin of Peace Proposals, 1986, 17, 165-173.	0.2	3
129	Nuclear space—an indispensable option?. Space Policy, 2001, 17, 261-264.	1.5	3
130	Forum on the Spread of War, 1914-1917: A Dialogue between Political Scientists and Historians. Foreign Policy Analysis, 2011, 7, 139-141.	1.0	3
131	Possible Implications of Climate Engineering for Peace and Security. Bulletin of the American Meteorological Society, 2013, 94, ES13-ES16.	3.3	3
132	Enabling Environments for Sustainable Energy Transitions: The Diffusion of Technology, Innovation and Investment in Low-Carbon Societies. Hexagon Series on Human and Environmental Security and Peace, 2016, , 721-756.	0.2	3
133	A social network analysis of internally displaced communities in northeast Nigeria: potential conflicts with host communities in the Lake Chad region. Geo Journal, 2022, 87, 4251-4268.	3.1	3
134	Economic Growth, Emission Reduction and the Choice of Energy Technology in a Dynamic-Game Framework., 2002,, 329-336.		3
135	One year of the COVID-19 pandemic in the Global South: Uneven vulnerabilities in Brazilian cities. Erdkunde, 2022, 76, 75-91.	0.8	3
136	The Transition to Chaos in the SCX Model of International Security $\hat{A}$ S. IFAC Postprint Volumes IPPV   International Federation of Automatic Control, 1995, 28, 209-214.	0.4	2
137	Energy Landscapes: Modeling of Renewable Energy Resources with an Emphasis on Northern Germany. Bulletin of the American Meteorological Society, 2018, 99, ES71-ES74.	3.3	2
138	Cities on the Coast and Patterns of Movement between Population Growth and Diffusion. Entropy, 2021, 23, 1041.	2.2	2
139	Criteria for a Sustainable Bioenergy Infrastructure and Lifecycle. Biotechnology in Agriculture and Forestry, 2010, , 409-447.	0.2	2
140	Modelling Sustainable Use of Natural Resources. , 2000, , 560-565.		2
141	Impacts of the German Energy Transition on Coastal Communities in Schleswig-Holstein, Germany. Regions, 2017, 307, 9-12.	0.1	2
142	Climate Change: Human Security Between Conflict and Cooperation. , 2022, , 807-819.		2
143	Assessing the Siting Potential of Low-Carbon Energy Power Plants in the Yangtze River Delta: A GIS-Based Approach. Energies, 2022, 15, 2167.	3.1	2
144	Climate Adaptation and Successful Adaptation Definitions: Latin American Perspectives Using the Delphi Method. Sustainability, 2022, 14, 5350.	3.2	2

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145	The Treaty is Out of the Bottle: The Power and Logic of Nuclear Disarmament. Journal for Peace and Nuclear Disarmament, 2019, 2, 114-132.	1.0	1
146	Multi-Domain Design Structure Matrix Approach Applied to Urban System Modeling. Urban Science, 2020, 4, 28.	2.3	1
147	Stability and Optimal Control of a Multiplayer Dynamic Game. Operations Research Proceedings: Papers of the Annual Meeting = VortrÃge Der Jahrestagung / DGOR, 2001, , 14-19.	0.1	1
148	Bioenergy Economics and Policy: Introduction and Overview., 2010,, 3-13.		1
149	Weather, War, and Chaos: Richardson's Encounter with Molecules and Nations. Pioneers in Arts, Humanities, Science, Engineering, Practice, 2020, , 87-99.	0.0	1
150	Reinventing the wheel – The preservation and potential of traditional water wheels in the terraced irrigated landscapes of the Ricote Valley, southeast Spain. Agricultural Water Management, 2022, 259, 107240.	5.6	1
151	The social dimensions of human security under a changing climate. , 2013, , .		1
152	A Dynamic-Game Model of Cooperation in Energy and Climate Change. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 41-44.	0.4	0
153	Pathways, Impacts, and Policies on Severe Aerosol Injections into the Atmosphere: 2011 Severe Atmospheric Aerosols Events Conference. Bulletin of the American Meteorological Society, 2012, 93, ES85-ES88.	3.3	0
154	Klimaneutralitä Edition Kulturwissenschaft, 2015, , 187-194.	0.1	0
155	A Dynamic-Agent-Based Sustainability Assessment of Energy Systems. Green Energy and Technology, 2021, , 161-181.	0.6	0
156	Strengthening International Security through International Law. , 2008, , 185-208.		0
157	Conditions for Cooperation and Trading in Value-Cost Dynamic Games. , 2013, , 173-203.		0
158	Klimawandel als RisikoverstÃrker in komplexen Systemen. , 2017, , 287-294.		0
159	Challenges, risks and threats for security in Europe - $11$ th Network Europe Conference Warsaw $19$ th - $22$ nd May $2019.$ , $2019.$ , .		0