Claudia Pahl-Wostl

List of Publications by Year in Descending Order

149 papers	11,043 citations	50 h-index	104 g-index
156 ext. papers	12,359 ext. citations	4.4 avg, IF	7.15 L-index

#	Paper	IF	Citations
149	Transformative change in governance systems. *Global Environmental Change*, **2021**, 71, 102405	10.1	1
148	Scale-related governance challenges in the water□energy□food nexus: toward a diagnostic approach. *Sustainability Science*, **2021**, 16, 615-629	6.4	12
147	Narratives, narrations and social structure in environmental governance. *Global Environmental Change*, **2021**, 69, 102317	10.1	1
146	Water Governance and Policies **2021**, 253-272		0
145	Sustainability transformations: socio-political shocks as opportunities for governance transitions. *Global Environmental Change*, **2020**, 63, 102097	10.1	34
144	Enhancing the capacity of water governance to deal with complex management challenges: A framework of analysis. *Environmental Science and Policy*, **2020**, 107, 23-35	6.2	32
143	The effect of optimism bias and governmental action on siltation management within Japanese reservoirs surveyed via artificial neural network. *Big Earth Data*, **2020**, 4, 68-89	4.1	1
142	Adaptive and sustainable water management: from improved conceptual foundations to transformative change. *International Journal of Water Resources Development*, **2020**, 36, 397-415	3	11
141	Governance of the water-energy-food nexus: insights from four infrastructure projects in the Lower Mekong Basin. *Sustainability Science*, **2020**, 15, 885-900	6.4	6
140	Wider learning outcomes of European climate change adaptation projects: A Qualitative Comparative Analysis. *Environmental Innovation and Societal Transitions*, **2020**, 34, 270-297	7.6	7
139	Can □earning spaces□shape transboundary management processes? Evaluating emergent social learning processes in the Zambezi basin. *Environmental Science and Policy*, **2019**, 97, 67-77	6.2	15
138	A Methodological Framework to Initiate and Design Transition Governance Processes. *Sustainability* , **2019**, 11, 844	3.6	15
137	The German Permaculture Community from a Community of Practice Perspective. *Sustainability*, **2019**, 11, 1241	3.6	5
136	Requirements Based Design of Environmental System of Systems: Development and Application of a Nexus Design Framework. *Sustainability*, **2019**, 11, 3464	3.6	4
135	Advancing the research agenda on food systems governance and transformation. *Current Opinion in Environmental Sustainability*, **2019**, 39, 94-102	7.2	23
134	Agrarpolitische Rahmenbedingungen **2019**, 57-108		
133	Integrated and Participatory Design of Sustainable Development Strategies on Multiple Governance Levels. *Sustainability*, **2019**, 11, 5931	3.6	

132	The role of governance modes and meta-governance in the transformation towards sustainable water governance. *Environmental Science and Policy*, **2019**, 91, 6-16	6.2	59
131	Governance of the water-energy-food security nexus: A multi-level coordination challenge. *Environmental Science and Policy*, **2019**, 92, 356-367	6.2	144
130	Towards a relational understanding of the water-energy-food nexus: an analysis of embeddedness and governance in the Upper Blue Nile region of Ethiopia. *Environmental Science and Policy*, **2018**, 90, 173-182	6.2	27
129	Towards an integrated flood management approach to address trade-offs between ecosystem services: Insights from the Dutch and German Rhine, Hungarian Tisza, and Chinese Yangtze basins. *Journal of Hydrology*, **2018**, 559, 984-994	6	15
128	Learning for social-ecological change: a qualitative review of outcomes across empirical literature in natural resource management. *Journal of Environmental Planning and Management*, **2018**, 61, 1085-1112	2.8	42
127	A methodological framework to support the initiation, design and institutionalization of participatory modeling processes in water resources management. *Journal of Hydrology*, **2018**, 556, 701-716	6	32
126	Nexus approaches to global sustainable development. *Nature Sustainability*, **2018**, 1, 466-476	22.1	260
125	Envisioning robust climate change adaptation futures for coastal regions: a comparative evaluation of cases in three continents. *Mitigation and Adaptation Strategies for Global Change*, **2017**, 22, 519-546	3.9	31
124	Corruption risks, management practices, and performance in water service delivery in Kenya and Ghana: an agent-based model. *Ecology and Society*, **2017**, 22,	4.1	8
123	An Evolutionary Perspective on Water Governance: From Understanding to Transformation. *Water Resources Management*, **2017**, 31, 2917-2932	3.7	60
122	A Comparative Analysis of Water Governance, Water Management, and Environmental Performance in River Basins. *Water Resources Management*, **2016**, 30, 2161-2177	3.7	48
121	A Comparative Analysis of Water Governance, Water Management, and Environmental Performance in River Basins **2016**, 30, 2161		1
120	Achieving Sustainable Development Goals from a Water Perspective. *Frontiers in Environmental Science*, **2016**, 4,	4.8	88
119	Handbook on Water Security **2016**,		23
118	A multi-level perspective on learning about climate change adaptation through international cooperation. *Environmental Science and Policy*, **2016**, 66, 242-249	6.2	23
117	Sustainable Groundwater Management: A Comparative Study of Local Policy Changes and Ecosystem Services in South Africa and Germany. *Environmental Policy and Governance*, **2016**, 26, 59-72	2.6	5
116	The role of paradigms in engineering practice and education for sustainable development. *Journal of Cleaner Production*, **2015**, 106, 272-282	10.3	50
115	Water Governance in the Face of Global Change. *Water Governance - Concepts, Methods, and Practice*, **2015**,	0.1	91

114	Governance of transitions towards sustainable development the waterenergyfood nexus in Cyprus. *Water International*, **2015**, 40, 877-894	2.4	66
113	Water Policyfrom Panaceas Towards Embracing Complexity. *Water Governance - Concepts, Methods, and Practice*, **2015**, 11-24	0.1	4
112	Conceptual and Analytical Framework. *Water Governance - Concepts, Methods, and Practice*, **2015**, 25-50	0.1	2
111	A Theory on Water Governance Dynamics. *Water Governance - Concepts, Methods, and Practice*, **2015**, 159-180	0.1	2
110	Evaluating group model building exercises: a method for comparing externalized mental models and group models. *System Dynamics Review*, **2015**, 31, 28-45	1.6	13
109	Governance Modes. *Water Governance - Concepts, Methods, and Practice*, **2015**, 85-98	0.1	4
108	The Challenge of Water Governance. *Water Governance - Concepts, Methods, and Practice*, **2015**, 1-10	0.1	1
107	Empirical Analysesfrom Single Case Studies to Comparative Analyses. *Water Governance - Concepts, Methods, and Practice*, **2015**, 203-248	0.1	1
106	From Understanding to Transforming. *Water Governance - Concepts, Methods, and Practice*, **2015**, 273-284	0.1	1
105	The Role of Institutions, Actors and Social Networks in Societal Change. *Water Governance - Concepts, Methods, and Practice*, **2015**, 51-83	0.1	1
104	Multi-level and Cross-Scale Governance. *Water Governance - Concepts, Methods, and Practice*, **2015**, 99-124	0.1	2
103	Shaping Humanenvironment Interactions. *Water Governance - Concepts, Methods, and Practice*, **2015**, 125-158	0.1	1
102	Virtual and Real World Experimentation. *Water Governance - Concepts, Methods, and Practice*, **2015**, 249-271	0.1	
101	A Methodological Framework for Empirical Analysis. *Water Governance - Concepts, Methods, and Practice*, **2015**, 181-201	0.1	
100	The capacity of water governance to deal with the climate change adaptation challenge: Using fuzzy set Qualitative Comparative Analysis to distinguish between polycentric, fragmented and centralized regimes. *Global Environmental Change*, **2014**, 29, 139-154	10.1	175
99	Functional organization analysis for the design of sustainable engineering systems. *Ecological Engineering*, **2014**, 73, 80-91	3.9	32
98	An Analytical Framework of Social Learning Facilitated by Participatory Methods. *Systemic Practice and Action Research*, **2014**, 27, 575-591	1	43
97	Water Resilience for Human Prosperity **2014**,		64

96	Water Governance and Management Systems and the Role of Ecosystem Services: Case Study Insights□roundwater Management in the Sandveld Region, South Africa **2014**, 271-287		
95	Environmental flows and water governance: managing sustainable water uses. *Current Opinion in Environmental Sustainability*, **2013**, 5, 341-351	7.2	161
94	Enhancing water security for the benefits of humans and nature□he role of governance. *Current Opinion in Environmental Sustainability*, **2013**, 5, 676-684	7.2	61
93	Towards a sustainable water future: shaping the next decade of global water research. *Current Opinion in Environmental Sustainability*, **2013**, 5, 708-714	7.2	50
92	□local□water governance: a multi-level challenge in the anthropocene. *Current Opinion in Environmental Sustainability*, **2013**, 5, 573-580	7.2	90
91	Requirements for adaptive governance of groundwater ecosystem services: insights from Sandveld (South Africa), Upper Guadiana (Spain) and Spree (Germany). *Regional Environmental Change*, **2013**, 13, 53-66	4.3	20
90	Global water, the anthropocene and the transformation of a science. *Current Opinion in Environmental Sustainability*, **2013**, 5, 539-550	7.2	87
89	Transition towards a new global change science: Requirements for methodologies, methods, data and knowledge. *Environmental Science and Policy*, **2013**, 28, 36-47	6.2	55
88	Climate change and water security: challenges for adaptive water management. *Current Opinion in Environmental Sustainability*, **2013**, 5, 625-632	7.2	66
87	Institutional Fit and River Basin Governance: a New Approach Using Multiple Composite Measures. *Ecology and Society*, **2013**, 18,	4.1	37
86	Missing Links in Global Water Governance: a Processes-Oriented Analysis. *Ecology and Society*, **2013**, 18,	4.1	64
85	UN–Water and its Role in Global Water Governance. *Ecology and Society*, **2013**, 18,	4.1	22
84	How Multilevel Societal Learning Processes Facilitate Transformative Change: A Comparative Case Study Analysis on Flood Management. *Ecology and Society*, **2013**, 18,	4.1	92
83	Editorial on Global Water Governance. *Ecology and Society*, **2013**, 18,	4.1	6
82	Global Water Governance in the Context of Global and Multilevel Governance: Its Need, Form, and Challenges. *Ecology and Society*, **2013**, 18,	4.1	40
81	Comparison of Frameworks for Analyzing Social-ecological Systems. *Ecology and Society*, **2013**, 18,	4.1	340
80	Water security for a planet under pressure: interconnected challenges of a changing world call for sustainable solutions. *Current Opinion in Environmental Sustainability*, **2012**, 4, 35-43	7.2	192
79	The Development of Water Allocation Management in The Yellow River Basin. *Water Resources Management*, **2012**, 26, 3395-3414	3.7	21

78	Understanding the development of flood management in the middle Yangtze River. *Environmental Innovation and Societal Transitions*, **2012**, 5, 60-75	7.6	15
77	Combining backcasting and adaptive management for climate adaptation in coastal regions: A methodology and a South African case study. *Futures*, **2012**, 44, 346-364	3.6	56
76	Institutional design propositions for the governance of adaptation to climate change in the water sector. *Global Environmental Change*, **2012**, 22, 67-81	10.1	204
75	From applying panaceas to mastering complexity: Toward adaptive water governance in river basins. *Environmental Science and Policy*, **2012**, 23, 24-34	6.2	296
74	Continuity and Change in Social-ecological Systems: the Role of Institutional Resilience. *Ecology and Society*, **2012**, 17,	4.1	49
73	The process of innovation during transition to a water saving society in China. *Water Policy*, **2012**, 14, 447-469	1.6	21
72	Maturing the New Water Management Paradigm: Progressing from Aspiration to Practice. *Water Resources Management*, **2011**, 25, 837-856	3.7	198
71	A Framework for the Analysis of Governance Structures Applying to Groundwater Resources and the Requirements for the Sustainable Management of Associated Ecosystem Services. *Water Resources Management*, **2011**, 25, 3387-3411	3.7	42
70	Societal learning needed to face the water challenge. *Ambio*, **2011**, 40, 549-53	6.5	38
69	Adaptive Water Management and Policy Learning in a Changing Climate: a Formal Comparative Analysis of Eight Water Management Regimes in Europe, Africa and Asia. *Environmental Policy and Governance*, **2011**, 21, 145-163	2.6	137
68	Informal Participatory Platforms for Adaptive Management. Insights into Niche-finding, Collaborative Design and Outcomes from a Participatory Process in the Rhine Basin. *Ecology and Society*, **2010**, 15,	4.1	24
67	Synapses in the Network: Learning in Governance Networks in the Context of Environmental Management. *Ecology and Society*, **2010**, 15,	4.1	183
66	Climate change adaptation in European river basins. *Regional Environmental Change*, **2010**, 10, 263-284	4.3	86
65	Cross-Comparison of Climate Change Adaptation Strategies Across Large River Basins in Europe, Africa and Asia. *Water Resources Management*, **2010**, 24, 4121-4160	3.7	67
64	Conceptualising uncertainty in environmental decision-making: The example of the EU water framework directive. *Ecological Economics*, **2010**, 69, 502-510	5.6	83
63	Using framing parameters to improve handling of uncertainties in water management practice. *Environmental Policy and Governance*, **2010**, 20, 107-122	2.6	9
62	Making framing of uncertainty in water management practice explicit by using a participant-structured approach. *Journal of Environmental Management*, **2010**, 91, 844-51	7.9	17
61	Analyzing complex water governance regimes: the Management and Transition Framework. *Environmental Science and Policy*, **2010**, 13, 571-581	6.2	242

60	Coping with change: responses of the Uzbek water management regime to socio-economic transition and global change. *Environmental Science and Policy*, **2010**, 13, 620-636	6.2	44
59	Stalled regime transition in the upper Tisza River Basin: the dynamics of linked action situations. *Environmental Science and Policy*, **2010**, 13, 604-619	6.2	37
58	Adaptive Water Governance: Assessing the Institutional Prescriptions of Adaptive (Co-)Management from a Governance Perspective and Defining a Research Agenda. *Ecology and Society*, **2009**, 14,	4.1	439
57	Assessing Framing of Uncertainties in Water Management Practice. *Water Resources Management*, **2009**, 23, 3191-3205	3.7	34
56	A conceptual framework for analysing adaptive capacity and multi-level learning processes in resource governance regimes. *Global Environmental Change*, **2009**, 19, 354-365	10.1	1276
55	Resources Management in Transition. *Ecology and Society*, **2009**, 14,	4.1	24
54	The importance of social learning and culture for sustainable water management. *Ecological Economics*, **2008**, 64, 484-495	5.6	203
53	Specifying Regime A framework for defining and describing regimes in transition research. *Technological Forecasting and Social Change*, **2008**, 75, 623-643	9.5	97
52	A grand challenge for freshwater research: understanding the global water system. *Environmental Research Letters*, **2008**, 3, 010202	6.2	61
51	Agent Behavior Between Maximization and Cooperation. *Rationality and Society*, **2008**, 20, 227-252	0.7	12
50	Chapter Five Participation in Building Environmental Scenarios. *Developments in Integrated Environmental Assessment*, **2008**, 2, 105-122		5
49	The Growing Importance of Social Learning in Water Resources Management and Sustainability Science. *Ecology and Society*, **2008**, 13,	4.1	158
48	Spatial Misfit in Participatory River Basin Management: Effects on Social Learning, a Comparative Analysis of German and French Case Studies. *Ecology and Society*, **2008**, 13,	4.1	43
47	Toward a Relational Concept of Uncertainty: about Knowing Too Little, Knowing Too Differently, and Accepting Not to Know. *Ecology and Society*, **2008**, 13,	4.1	191
46	Governance and the Global Water System: A Theoretical Exploration. *Global Governance*, **2008**, 14, 419-435	3.7	109
45	Formalised and Non-Formalised Methods in Resource Management Knowledge and Social Learning in Participatory Processes: An Introduction. *Systemic Practice and Action Research*, **2008**, 21, 381-387	1	27
44	Where can social learning be improved in international river basin management in Europe?. *Environmental Policy and Governance*, **2008**, 18, 216-227		6
43	Requirements for Adaptive Water Management **2008**, 1-22		34

42	A broadened view on the role for models in natural resource management: Implications for model development **2008**, 187-203		6
41	Social Learning in European River-Basin Management: Barriers and Fostering Mechanisms from 10 River Basins. *Ecology and Society*, **2007**, 12,	4.1	219
40	Social Learning and Water Resources Management. *Ecology and Society*, **2007**, 12,	4.1	608
39	Managing Change toward Adaptive Water Management through Social Learning. *Ecology and Society*, **2007**, 12,	4.1	282
38	A Framing Approach to Cross-disciplinary Research Collaboration: Experiences from a Large-scale Research Project on Adaptive Water Management. *Ecology and Society*, **2007**, 12,	4.1	70
37	Modelling socio-technical transformations in wastewater treatment A methodological proposal. *Technovation*, **2006**, 26, 1090-1100	7.9	26
36	The Importance of Social Learning in Restoring the Multifunctionality of Rivers and Floodplains. *Ecology and Society*, **2006**, 11,	4.1	220
35	Transitions towards adaptive management of water facing climate and global change. *Water Resources Management*, **2006**, 21, 49-62	3.7	669
34	Transitions towards adaptive management of water facing climate and global change **2006**, 49-62		8
33	A conceptual template for integrative human environment research. *Global Environmental Change*, **2005**, 15, 299-307	10.1	104
32	The role of public participation in managing uncertainty in the implementation of the Water Framework Directive. *Environmental Policy and Governance*, **2005**, 15, 333-343		106
31	Netzwerktheorie Analyse von Stoff- und Energietransfers **2004**, 1-12		
30	Processes of social learning in integrated resources management. *Journal of Community and Applied Social Psychology*, **2004**, 14, 193-206	2.8	339
29	Towards sustainability in the water sector The importance of human actors and processes of social learning. *Aquatic Sciences*, **2002**, 64, 394-411	2.5	241
28	Participative and Stakeholder-Based Policy Design, Evaluation and Modeling Processes. *Integrated Assessment: an International Journal*, **2002**, 3, 3-14		171
27	Stakeholder Categorisation in Participatory Integrated Assessment Processes. *Integrated Assessment: an International Journal*, **2002**, 3, 50-62		64
26	Polycentric Integrated Assessment. *Integrated Assessment: an International Journal*, **2002**, 3, 220-232		5
25	Agent-based integrated assessment modelling: the example of climate change. *Integrated Assessment: an International Journal*, **2001**, 2, 17-30		54

24	Impacts. *Climatic Change*, **2001**, 51, 199-241	4.5	16
23	Models at the interface between science and society: impacts and options. *Integrated Assessment: an International Journal*, **2000**, 1, 267-280		37
22	A discrete, allometric approach to the modeling of ecosystem dynamics. *Ecological Modelling*, **2000**, 126, 33-48	3	10
21	Diversity Patterns in Climax Communities. *Oikos*, **1999**, 87, 531	4	4
20	Dynamic structure of a food web model: comparison with a food chain model. *Ecological Modelling*, **1997**, 100, 103-123	3	38
19	Trophic Structure and Carbon Flow Dynamics in the Pelagic Community of a Large Lake **1996**, 60-71		12
18	Sensitivity analysis of ecosystem dynamics based on macroscopic community descriptors: a simulation study. *Ecological Modelling*, **1994**, 75-76, 51-62	3	5
17	Spatio-Temporal Organization Mediated by a Hierarchy in Time Scales in Ensembles of Predator-Prey Pairs **1994**, 260-273		
16	Food Webs and Ecological Networks across Temporal and Spatial Scales. *Oikos*, **1993**, 67, 415	4	18
15	Quantification of species as functional units within an ecological network. *Ecological Modelling*, **1993**, 66, 65-79	3	6
14	The hierarchical organization of the aquatic ecosystem: an outline how reductionism and holism may be reconciled. *Ecological Modelling*, **1993**, 66, 81-100	3	11
13	Description of dynamic systems from the perspective of a network of interactions. *International Journal of Systems Science*, **1993**, 24, 1301-1316	2.3	1
12	Information theoretical analysis of functional temporal and spatial organization in flow networks. *Mathematical and Computer Modelling*, **1992**, 16, 35-52		13
11	Measurement of Scope for Change in Ascendency for Short-Term Assessment of Community Stress. *Canadian Journal of Fisheries and Aquatic Sciences*, **1991**, 48, 968-974	2.4	13
10	Patterns in space and time a new method for their characterization. *Ecological Modelling*, **1991**, 58, 141-157	3	1
9	Temporal Organization: A New Perspective on the Ecological Network. *Oikos*, **1990**, 58, 293	4	18
8	Organization of the dynamic network structure in the dimension of time. *Ecological Modelling*, **1990** , 52, 115-123	3	7
7	Governance for navigating the novel freshwater dynamics of the Anthropocene226-249		