

# Franz X Bogner

## List of Publications by Year in Descending Order

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**Version:** 2024-04-24

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140  
papers

3,366  
citations

30  
h-index

53  
g-index

145  
ext. papers

3,872  
ext. citations

2.2  
avg. IF

6.12  
L-index

#	Paper	IF	Citations
140	Wege zum nachhaltigen Umgang mit Kunststoffen: Kernbotschaften sozialwissenschaftlicher Forschung. <i>Gaia</i> , <b>2022</b> , 31, 51-53	1.4	
139	The supportive role of environmental attitude for learning about environmental issues. <i>Journal of Environmental Psychology</i> , <b>2022</b> , 81, 101799	6.7	2
138	The relevance of school self-concept and creativity for CLIL outreach learning. <i>Studies in Educational Evaluation</i> , <b>2022</b> , 73, 101153	2	0
137	Education for Sustainable Development: How Seminar Design and Time Structure of Teacher Professional Development Affect Students' Motivation and Creativity. <i>Education Sciences</i> , <b>2022</b> , 12, 296	2.2	1
136	Green Awareness in Action of Saving Energy in School Life: Modeling Environmental Literacy in Theory and Practice Experience <b>2022</b> , 3531-3556		1
135	Measuring Students' School Motivation. <i>Education Sciences</i> , <b>2022</b> , 12, 378	2.2	1
134	Knowledge acquisition and environmental values in a microplastic learning module: Does the learning environment matter?. <i>Studies in Educational Evaluation</i> , <b>2021</b> , 71, 101091	2	1
133	The Effect of Environmental Values on German Primary School Students' Knowledge on Water Supply. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 702	3	2
132	Assessing Environmental Attitudes and Cognitive Achievement within 9 Years of Informal Earth Education. <i>Sustainability</i> , <b>2021</b> , 13, 3622	3.6	4
131	COVID-19 and lockdown schooling: how digital learning environments influence semantic structures and sustainability knowledge.. <i>Discover Sustainability</i> , <b>2021</b> , 2, 32	1.3	1
130	Green Awareness in Action of Saving Energy in School Life: Modeling Environmental Literacy in Theory and Practice Experience <b>2021</b> , 1-27		
129	Green Awareness in Action of Saving Energy in School Life: Modeling Environmental Literacy in Theory and Practice Experience <b>2021</b> , 1-26		
128	Learning about waste management: The role of science motivation, preferences in technology and environmental values. <i>Sustainable Futures</i> , <b>2021</b> , 3, 100054	2.9	
127	Conceptions of university students on microplastics in Germany. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257734	3.7	0
126	Cannot See the Forest for the Trees? Comparing Learning Outcomes of a Field Trip vs. a Classroom Approach. <i>Forests</i> , <b>2021</b> , 12, 1265	2.8	2
125	Biosphere 2 as an informal learning platform to assess motivation, fascination, and cognitive achievement for sustainability. <i>Studies in Educational Evaluation</i> , <b>2021</b> , 70, 101061	2	1
124	Individual Creativity and Career Choices of Pre-teens in the Context of a Math-Art Learning Event. <i>Open Education Studies</i> , <b>2021</b> , 3, 147-156	0.7	1

123	The Relation between Knowledge Acquisition and Environmental Values within the Scope of a Biodiversity Learning Module. <i>Sustainability</i> , <b>2020</b> , 12, 2036	3.6	15
122	Between Science Education and Environmental Education: How Science Motivation Relates to Environmental Values. <i>Sustainability</i> , <b>2020</b> , 12, 1968	3.6	7
121	Simply INGEN(E)ious! How Creative DNA Modeling Can Enrich Classic Hands-On Experimentation. <i>Journal of Microbiology and Biology Education</i> , <b>2020</b> , 21,	1.3	2
120	How fascination for biology is associated with students' learning in a biodiversity citizen science project. <i>Studies in Educational Evaluation</i> , <b>2020</b> , 66, 100892	2	2
119	Environmental Values and Technology Preferences of First-Year University Students. <i>Sustainability</i> , <b>2020</b> , 12, 62	3.6	1
118	Deeper learning as integrated knowledge and fascination for Science. <i>International Journal of Science Education</i> , <b>2020</b> , 42, 807-834	2.2	9
117	Cognitive Learning about Waste Management: How Relevance and Interest Influence Long-Term Knowledge. <i>Education Sciences</i> , <b>2020</b> , 10, 102	2.2	6
116	Modelling environmental literacy with environmental knowledge, values and (reported) behaviour. <i>Studies in Educational Evaluation</i> , <b>2020</b> , 65, 100863	2	17
115	How Creativity in STEAM Modules Intervenes with Self-Efficacy and Motivation. <i>Education Sciences</i> , <b>2020</b> , 10, 70	2.2	17
114	Inquiry-based learning and E-learning: how to serve high and low achievers. <i>Smart Learning Environments</i> , <b>2020</b> , 7,	4.2	3
113	Explore Your Local Biodiversity – How School Grounds Evoke Visions of Sustainability. <i>American Biology Teacher</i> , <b>2020</b> , 82, 606-613	0.3	2
112	Green Awareness in Action – How Energy Conservation Action Forces on Environmental Knowledge, Values and Behaviour in Adolescents' School Life. <i>Sustainability</i> , <b>2020</b> , 12, 955	3.6	12
111	Students' Care for Dogs, Environmental Attitudes, and Behaviour. <i>Sustainability</i> , <b>2020</b> , 12, 1317	3.6	4
110	Is there deep learning on Mars? STEAM education in an inquiry-based out-of-school setting. <i>Interactive Learning Environments</i> , <b>2020</b> , 1-13	3.1	4
109	Bringing Out-of-School Learning into the Classroom: Self- versus Peer-Monitoring of Learning Behaviour. <i>Education Sciences</i> , <b>2020</b> , 10, 284	2.2	1
108	FutureForest: Promoting Biodiversity Literacy by Implementing Citizen Science in the Classroom. <i>American Biology Teacher</i> , <b>2020</b> , 82, 234-240	0.3	5
107	Microplastics in the Environment: Raising Awareness in Primary Education. <i>American Biology Teacher</i> , <b>2020</b> , 82, 478-487	0.3	4
106	Self-evaluative Scientific Modeling in an Outreach Gene Technology Laboratory. <i>Journal of Science Education and Technology</i> , <b>2020</b> , 29, 725-739	2.8	2

105	International educators' perspectives on the purpose of science education and the relationship between school science and creativity. <i>Research in Science and Technological Education</i> , <b>2020</b> , 38, 19-41	1	7
104	Conceptual change when growing up: frameset for role models?. <i>International Journal of Adolescence and Youth</i> , <b>2020</b> , 25, 292-304	3.3	5
103	Module-Phase-Dependent Development of Pedagogical Content Knowledge: Replicating a Role-Change Approach in Pre-Service Teacher Education in an Outreach Lab. <i>Research in Science Education</i> , <b>2019</b> , 51, 1177	1.5	1
102	Comparing the Use of Two Different Model Approaches on Students' Understanding of DNA Models. <i>Education Sciences</i> , <b>2019</b> , 9, 115	2.2	7
101	Measuring Environmental Perceptions Grounded on Different Theoretical Models: The 2-Major Environmental Values (2-MEV) Model in Comparison with the New Ecological Paradigm (NEP) Scale. <i>Sustainability</i> , <b>2019</b> , 11, 1286	3.6	10
100	Intervention Impact on Young Students' Associations about Wolf and Lynx. <i>Society and Animals</i> , <b>2019</b> , 27, 544-574	0.5	4
99	From STEM to STEAM: Cracking the Code? How Creativity & Motivation Interacts with Inquiry-based Learning. <i>Creativity Research Journal</i> , <b>2019</b> , 31, 284-295	1.8	29
98	Investigations of Modellers and Model Viewers in an Out-of-School Gene Technology Laboratory. <i>Research in Science Education</i> , <b>2019</b> , 1	1.5	4
97	A Role-Play-Based Tutor Training in Preservice Teacher Education for Developing Procedural Pedagogical Content Knowledge by Optimizing Tutor-Student Interactions in the Context of an Outreach Lab. <i>Journal of Science Teacher Education</i> , <b>2019</b> , 30, 461-482	1.1	4
96	Environmental values and environmental concern. <i>Environmental Education Research</i> , <b>2019</b> , 25, 1570-1583	1	11
95	Between Environmental Utilization and Protection: Adolescent Conceptions of Biodiversity. <i>Sustainability</i> , <b>2019</b> , 11, 4517	3.6	11
94	Hearing: An Inquiry-Based Learning Module Linking Biology & Physics. <i>American Biology Teacher</i> , <b>2019</b> , 81, 485-489	0.3	
93	Die Wirkung von Biologieunterricht auf verantwortungsbewusstes Verhalten zu umweltgerechter Nachhaltigkeit (Environmental Literacy) <b>2019</b> , 209-226		
92	Bridging the Gap Towards Flying: Archaeopteryx as a Unique Evolutionary Tool to Inquiry-Based Learning <b>2019</b> , 149-165		1
91	Is creativity, hands-on modeling and cognitive learning gender-dependent?. <i>Thinking Skills and Creativity</i> , <b>2019</b> , 31, 91-102	3	18
90	Monitoring a gender gap in interest and social aspects of technology in different age groups. <i>International Journal of Technology and Design Education</i> , <b>2019</b> , 29, 217-229	1.1	6
89	How teachers' attitudes on GMO relate to their environmental values. <i>Journal of Environmental Psychology</i> , <b>2018</b> , 57, 1-9	6.7	12
88	How to sustainably increase students' willingness to protect pollinators. <i>Environmental Education Research</i> , <b>2018</b> , 24, 461-473	3.1	20

87	Is there more than the sewage plant? University freshmen's conceptions of the urban water cycle. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200928	3.7	6
86	Science-technology-society-environment issues in German and Portuguese biology textbooks: influenced by the socio-cultural context?. <i>International Journal of Science Education, Part B: Communication and Public Engagement</i> , <b>2018</b> , 8, 266-286	1.2	2
85	BIONICS: An Out-of-School Day at the Zoo. <i>American Biology Teacher</i> , <b>2018</b> , 80, 429-435	0.3	1
84	What Germany's University Beginners Think about Water Reuse. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 731	3	8
83	How Environmental Values Predict Acquisition of Different Cognitive Knowledge Types with Regard to Forest Conservation. <i>Sustainability</i> , <b>2018</b> , 10, 2188	3.6	8
82	Environmental literacy in practice: education on tropical rainforests and climate change. <i>Environment, Development and Sustainability</i> , <b>2018</b> , 20, 2079-2094	4.5	13
81	How Young Early Birds Prefer Preservation, Appreciation and Utilization of Nature. <i>Sustainability</i> , <b>2018</b> , 10, 4000	3.6	4
80	From STEM to STEAM: How to Monitor Creativity. <i>Creativity Research Journal</i> , <b>2018</b> , 30, 233-240	1.8	24
79	Environmental Values (2-MEV) and Appreciation of Nature. <i>Sustainability</i> , <b>2018</b> , 10, 350	3.6	40
78	Short- and long-term outreach at the zoo: cognitive learning about marine ecological and conservational issues. <i>Environmental Education Research</i> , <b>2017</b> , 23, 252-268	3.1	21
77	Two ways of acquiring environmental knowledge: by encountering living animals at a beehive and by observing bees via digital tools. <i>International Journal of Science Education</i> , <b>2017</b> , 39, 723-741	2.2	27
76	Does the issue of bionics within a student-centered module generate long-term knowledge?. <i>Studies in Educational Evaluation</i> , <b>2017</b> , 55, 117-124	2	9
75	PATHWAYS A Case of Large-Scale Implementation of Evidence-Based Practice in Scientific Inquiry-Based Science Education. <i>International Journal of Higher Education</i> , <b>2017</b> , 6, 8	0.7	11
74	A New Role Change Approach in Pre-service Teacher Education for Developing Pedagogical Content Knowledge in the Context of a Student Outreach Lab. <i>Research in Science Education</i> , <b>2016</b> , 46, 743-766	1.5	14
73	Learning About Genetic Engineering in an Outreach Laboratory: Influence of Motivation and Gender on Students' Cognitive Achievement. <i>International Journal of Science Education, Part B: Communication and Public Engagement</i> , <b>2016</b> , 6, 166-187	1.2	14
72	Computer-related self-concept: The impact on cognitive achievement. <i>Studies in Educational Evaluation</i> , <b>2016</b> , 50, 46-52	2	8
71	Ecuadorian students' conceptions and personal experience regarding water management issues / Concepciones y experiencias personales de los estudiantes ecuatorianos sobre la gesti3n del agua. <i>Psycology</i> , <b>2016</b> , 7, 25-63	1.1	6
70	The impact of science motivation on cognitive achievement within a 3-lesson unit about renewable energies. <i>Studies in Educational Evaluation</i> , <b>2016</b> , 50, 14-21	2	17

69	Measuring the Computer-Related Self-Concept. <i>Journal of Educational Computing Research</i> , <b>2016</b> , 54, 352-370	3.8	3
68	Instructional efficiency of different discussion approaches in an outreach laboratory: Teacher-guided versus student-centered. <i>Journal of Educational Research</i> , <b>2016</b> , 109, 27-36	1.1	13
67	Measuring adolescent science motivation. <i>International Journal of Science Education</i> , <b>2016</b> , 38, 434-449	2.2	37
66	Introducing Large-Scale Innovation in Schools. <i>Journal of Science Education and Technology</i> , <b>2016</b> , 25, 541-549	2.8	7
65	Young people's cognitive achievement as fostered by hands-on-centred environmental education. <i>Environmental Education Research</i> , <b>2016</b> , 22, 943-957	3.1	14
64	How Environmental Attitudes Interact with Cognitive Learning in a Science Lesson Module. <i>Education Research International</i> , <b>2016</b> , 2016, 1-7	1.2	17
63	Hypertext or Textbook: Effects on Motivation and Gain in Knowledge. <i>Education Sciences</i> , <b>2016</b> , 6, 29	2.2	14
62	Evaluating Environmental Knowledge Dimension Convergence to Assess Educational Programme Effectiveness. <i>International Journal of Science Education</i> , <b>2015</b> , 37, 684-702	2.2	32
61	Cognitive learning in authentic environments in relation to green attitude preferences. <i>Studies in Educational Evaluation</i> , <b>2015</b> , 44, 9-15	2	25
60	Student conceptions about the DNA structure within a hierarchical organizational level: Improvement by experiment- and computer-based outreach learning. <i>Biochemistry and Molecular Biology Education</i> , <b>2015</b> , 43, 393-402	1.3	13
59	To What Extent do Biology Textbooks Contribute to Scientific Literacy? Criteria for Analysing Science-Technology-Society-Environment Issues. <i>Education Sciences</i> , <b>2015</b> , 5, 255-280	2.2	10
58	Effects of Students' Effort Scores in a Structured Inquiry Unit on Long-Term Recall Abilities of Content Knowledge. <i>Education Research International</i> , <b>2015</b> , 2015, 1-11	1.2	19
57	Learning about Drinking Water: How Important are the Three Dimensions of Knowledge that Can Change Individual Behavior?. <i>Education Sciences</i> , <b>2014</b> , 4, 213-228	2.2	11
56	A Competence Model for Environmental Education. <i>Environment and Behavior</i> , <b>2014</b> , 46, 972-992	5.6	132
55	Exploitative vs. appreciative use of nature – Two interpretations of utilization and their relevance for environmental education. <i>Studies in Educational Evaluation</i> , <b>2014</b> , 41, 106-112	2	33
54	Conceptions about Drinking Water of 10 <sup>th</sup> Graders and Undergraduates. <i>Journal of Water Resource and Protection</i> , <b>2014</b> , 06, 1112-1123	0.7	11
53	Instructional Efficiency of Tutoring in an Outreach Gene Technology Laboratory. <i>Research in Science Education</i> , <b>2013</b> , 43, 1267-1288	1.5	7
52	Effects of a 1-day environmental education intervention on environmental attitudes and connectedness with nature. <i>European Journal of Psychology of Education</i> , <b>2013</b> , 28, 1077-1086	2.3	47

51	Promoting connectedness with nature through environmental education. <i>Environmental Education Research</i> , <b>2013</b> , 19, 370-384	3.1	201
50	The influence of situational emotions on the intention for sustainable consumer behaviour in a student-centred intervention. <i>Environmental Education Research</i> , <b>2013</b> , 19, 747-764	3.1	33
49	Teaching Gene Technology in an Outreach Lab: Students' Assigned Cognitive Load Clusters and the Clusters' Relationships to Learner Characteristics, Laboratory Variables, and Cognitive Achievement. <i>Research in Science Education</i> , <b>2013</b> , 43, 141-161	1.5	18
48	Social Desirability, Environmental Attitudes, and General Ecological Behaviour in Children. <i>International Journal of Science Education</i> , <b>2013</b> , 35, 713-730	2.2	44
47	Climate change education: quantitatively assessing the impact of a botanical garden as an informal learning environment. <i>Environmental Education Research</i> , <b>2013</b> , 19, 415-429	3.1	61
46	A modified refutation text design: effects on instructional efficiency for experts and novices. <i>Educational Research and Evaluation</i> , <b>2013</b> , 19, 402-425	0.6	3
45	How does integrating alternative conceptions into lessons influence pupils' situational emotions and learning achievement?. <i>Journal of Biological Education</i> , <b>2013</b> , 47, 1-11	0.9	11
44	Science teaching based on cognitive load theory: Engaged students, but cognitive deficiencies. <i>Studies in Educational Evaluation</i> , <b>2012</b> , 38, 127-134	2	5
43	The search for potential origins of a favorable attitude toward nature. <i>Psychology</i> , <b>2012</b> , 3, 341-352	1.1	4
42	How does a one-day environmental education programme support individual connectedness with nature?. <i>Journal of Biological Education</i> , <b>2012</b> , 46, 180-187	0.9	47
41	Environmental Values and Authoritarianism. <i>Psychology Research (Libertyville, Ill)</i> , <b>2012</b> , 2,	1	2
40	Conceptual Change in Students' Molecular Biology Education: Tilting at Windmills?. <i>Journal of Educational Research</i> , <b>2011</b> , 104, 7-18	1.1	17
39	Quantitative Analysis of the Usage of the COSMOS Science Education Portal. <i>Journal of Science Education and Technology</i> , <b>2011</b> , 20, 333-346	2.8	4
38	A New Two-Step Approach for Hands-On Teaching of Gene Technology: Effects on Students' Activities During Experimentation in an Outreach Gene Technology Lab. <i>Research in Science Education</i> , <b>2011</b> , 41, 505-523	1.5	23
37	Enriching Students' Education Using Interactive Workstations at a Salt Mine Turned Science Center. <i>Journal of Chemical Education</i> , <b>2011</b> , 88, 510-515	2.4	15
36	Cognitive Influences of Students' Alternative Conceptions Within a Hands-on Gene Technology Module. <i>Journal of Educational Research</i> , <b>2011</b> , 104, 158-170	1.1	13
35	Inspiring Science Learning: Designing the Science Classroom of the Future. <i>Advanced Science Letters</i> , <b>2011</b> , 4, 3304-3309	0.1	5
34	Computer-Aided Learning: Unguided versus Guided Instruction. <i>Advanced Science Letters</i> , <b>2011</b> , 4, 3310-3316	1	6

33	Learning at workstations in two different environments: A museum and a classroom. <i>Studies in Educational Evaluation</i> , <b>2010</b> , 36, 14-19	2	38
32	Instructional Efficiency of Changing Cognitive Load in an Out-of-School Laboratory. <i>International Journal of Science Education</i> , <b>2010</b> , 32, 829-844	2.2	23
31	Cognitive Achievement and Motivation in Hands-on and Teacher-Centred Science Classes: Does an additional hands-on consolidation phase (concept mapping) optimise cognitive learning at work stations?. <i>International Journal of Science Education</i> , <b>2010</b> , 32, 849-870	2.2	24
30	Implementation of concept mapping to novices: reasons for errors, a matter of technique or content?. <i>Educational Studies</i> , <b>2010</b> , 36, 47-58	1	8
29	Student-centred anti-smoking education: Comparing a classroom-based and an out-of-school setting. <i>Learning Environments Research</i> , <b>2010</b> , 13, 147-157	2.1	5
28	Gender, age and subject matter: impact on teachers' ecological values. <i>The Environmentalist</i> , <b>2010</b> , 30, 111-122		28
27	Teachers' conceptions of nature and environment in 16 countries. <i>Journal of Environmental Psychology</i> , <b>2009</b> , 29, 407-413	6.7	48
26	Efficacy of Two Different Instructional Methods Involving Complex Ecological Content. <i>International Journal of Science and Mathematics Education</i> , <b>2009</b> , 7, 315-337	1.7	25
25	Concept map structure, gender and teaching methods: an investigation of students' science learning. <i>Educational Research</i> , <b>2009</b> , 51, 425-438	1.9	25
24	Strengthening resistance self-efficacy: influence of teaching approaches and gender on different consumption groups. <i>Journal of Drug Education</i> , <b>2009</b> , 39, 439-57	0.1	7
23	A Category-based Video Analysis of Students' Activities in an Out-of-school Hands-on Gene Technology Lesson. <i>International Journal of Science Education</i> , <b>2008</b> , 30, 451-467	2.2	6
22	Student-oriented versus Teacher-centred: The effect of learning at workstations about birds and bird flight on cognitive achievement and motivation. <i>International Journal of Science Education</i> , <b>2008</b> , 30, 941-959	2.2	47
21	Visualizing the Invisible: Augmented Reality as an Innovative Science Education Scheme. <i>Advanced Science Letters</i> , <b>2008</b> , 1, 114-122	0.1	66
20	Pupils' Interest Before, During, and After a Curriculum Dealing With Ecological Topics and its Relationship With Achievement. <i>Educational Research and Evaluation</i> , <b>2007</b> , 13, 463-478	0.6	34
19	Learning in a gene technology laboratory with educational focus: Results of a teaching unit with authentic experiments. <i>Biochemistry and Molecular Biology Education</i> , <b>2007</b> , 35, 28-39	1.3	44
18	Behavior-based environmental attitude: Development of an instrument for adolescents. <i>Journal of Environmental Psychology</i> , <b>2007</b> , 27, 242-251	6.7	181
17	Cognitive achievements in identification skills. <i>Journal of Biological Education</i> , <b>2006</b> , 40, 161-165	0.9	43
16	Adolescents' attitudes towards nature and environment: Quantifying the 2-MEV model. <i>The Environmentalist</i> , <b>2006</b> , 26, 247-254		98



15	Contrasting the Theory of Planned Behavior With the Value-Belief-Norm Model in Explaining Conservation Behavior1. <i>Journal of Applied Social Psychology</i> , <b>2005</b> , 35, 2150-2170	2.1	363
14	Human visual perception ¶learning at workstations. <i>Journal of Biological Education</i> , <b>2005</b> , 40, 32-37	0.9	30
13	Environmental perception of French and some Western European secondary school students. <i>European Journal of Psychology of Education</i> , <b>2002</b> , 17, 3-18	2.3	25
12	The influence of a residential outdoor education programme to pupil¶ environmental perception. <i>European Journal of Psychology of Education</i> , <b>2002</b> , 17, 19-34	2.3	40
11	Environmental Perception: Factor Profiles of Extreme Groups. <i>European Psychologist</i> , <b>2002</b> , 7, 225-237	4.4	43
10	Risk-taking and environmental perception. <i>The Environmentalist</i> , <b>2000</b> , 20, 49-62		32
9	Empirical evaluation of an educational conservation programme introduced in Swiss secondary schools. <i>International Journal of Science Education</i> , <b>1999</b> , 21, 1169-1185	2.2	65
8	Toward Measuring Adolescent Environmental Perception. <i>European Psychologist</i> , <b>1999</b> , 4, 139-151	4.4	109
7	Environmental perceptions of Irish and Bavarian pupils: an empirical study. <i>The Environmentalist</i> , <b>1998</b> , 18, 27-38		19
6	The Influence of Short-Term Outdoor Ecology Education on Long-Term Variables of Environmental Perspective. <i>Journal of Environmental Education</i> , <b>1998</b> , 29, 17-29	2.7	261
5	Environmental Perspectives of Danish and Bavarian Pupils: towards a methodological framework. <i>Scandinavian Journal of Educational Research</i> , <b>1997</b> , 41, 53-71	1.2	31
4	ENVIRONMENTAL PERCEPTION OF RURAL AND URBAN PUPILS. <i>Journal of Environmental Psychology</i> , <b>1997</b> , 17, 111-122	6.7	57
3	Association tests and outdoor ecology education. <i>European Journal of Psychology of Education</i> , <b>1997</b> , 12, 89-102	2.3	7
2	Environmental perspectives of pupils: the development of an attitude and behaviour scale. <i>The Environmentalist</i> , <b>1996</b> , 16, 95-110		58
1	Testing Creativity and Personality to Explore Creative Potentials in the Science Classroom. <i>Research in Science Education</i> ,1	1.5	4