Electronic Supplementary Material for:

"Just another buzzword? A systematic literature review of knowledge-related concepts in sustainability science".

This document contains Appendices B, C and D with details on the review protocol and methodology of the systematic literature review published as:

Apetrei, C. I., Caniglia, G., von Wehrden, H., & Lang, D. J. (2021). Just another buzzword? A systematic literature review of knowledge-related concepts in sustainability science. *Global Environmental Change*, *68*, 102222. https://doi.org/10.1016/j.gloenvcha.2021.102222

Appendix B: Details on review protocol & methodology

B.1. Search string

TITLE-ABS-KEY (("knowledge *produc*" OR "knowledge *creat*" OR "knowledge *mak*" OR "knowledge *generat*" OR "knowledge *manag*" OR "knowledge *use*" OR "knowledge *diffus*" OR "knowledge disseminat*" OR "knowledge *integrat*" OR "knowledge system*" OR "social learning" OR "sustainability learning" OR "policy learning") AND ("sustainab* transformation" OR "sustainab* transition" OR "sustainable development" OR "environmental change" OR "social-ecological" OR "human-environment*" OR "environmental governance" OR "sustainab* governance"))

B.2. Screening of abstracts phase

Exclude papers if any of the following:

Criterion	Explanation
False positive	Title, abstract and keywords don't actually contain search terms from both sets, but it is rather a database notation mistake, or automatically assigned keyword is wrong.
No knowledge or learning related concept as primary or secondary research object of the article	Focus of the article is on something completely different and a knowledge-related term might have been coincidentally mentioned (e.g. studies on diabetes or from health sciences, or evolutionary biology articles).
No sustainability / social-ecological / human-environment interactions focus	For instance, the word sustainability is used with the meaning of enduring, such as "sustainability of digital ecosystems".
No abstract in the database	Self-explanatory
No institutional access to full-text	Self-explanatory

B.3. Eligibility / selection of papers phase

Assess full-text of papers and assign them to one of the following "Result" categories, based on whether they meet **at least one** of the corresponding criteria mentioned below. Please note that fulfilling a criterion in the "in" category does not preclude the article from being assigned into the "in-depth" category, should a superior criterion also apply.

Result	Criterion	Short name of criterion
In-depth analysis (= a lot of information can be extracted from this article regarding knowledge-related concepts)	conceptualisation of knowledge/learning or knowledge related processes (production etc.), including conceptual frameworks etc.	conceptualisation k/l
	clear description or review of knowledge-related concepts and theories (significant section in the paper)	theory reference
	conceptualisation of linkages between knowledge/learning and sustainability transformation	conceptualisation linkage
	empirical evidence of the contribution of knowledge/learning to sustainability transformation	empirical evidence
	procedural description of the contribution of knowledge (types) or learning processes to participatory decision making	procedural description
In	enumeration of knowledge types	knowledge types
	mentioning of knowledge-related processes	process types

(= minimal information can be extracted and articles in this category are saved in our database for future work, but not included in this study)	mentioning of information, knowledge or learning as variables in broader conceptual frameworks for the analysis of social-ecological systems / decision situations / institutions etc. (e.g. Ostrom SES framework), but no further specification	in framework
	definition of knowledge/learning or a related concept	definition
	conceptual distinctions knowledge/learning vs. e.g. data, information, mental maps, values, opinions etc.	conceptual distinctions
	claim of link between knowledge/learning and transformation (based on literature or experience, but without clear evidence or argumentation)	linkage implied
Out (= no further analysis or coding to be done)	call for giving attention to the role of knowledge/learning, with no conceptualisation at all	call for
	other inadequacies not captured in screening phase (false positive, search strings have different meaning than intended etc.)	not relevant

B.4. Inflation-adjusted number of publications

Data for **article type** (according to our coding) **per year of publication** for 276 papers analysed in-depth:

Year of publication	Conceptual	Conceptual/Empirical	Empirical	Review	TOTALS
1994	1	0	0	0	1
1995					0
1996					0
1997					0
1998					0
1999	0	0	0	1	1
2000	0	2	0	0	2
2001					0
2002	0	0	1	0	1
2003	0	1	0	1	2
2004	0	2	1	1	4
2005	0	0	4	0	4
2006	3	3	2	0	8
2007	4	3	4	0	11
2008	2	4	8	1	15
2009	3	2	7	2	14
2010	4	5	9	3	21
2011	4	8	11	3	26
2012	2	4	14	5	25
2013	9	7	18	6	40
2014	6	7	18	4	35
2015	9	13	16	5	43
2016	2	4	14	3	23
				TOTAL	276

Data for **total publications between 1995-2016** on topics related to sustainability and the environment.

Source: Web of Science / 2019

Search string: TS (theme) = "environ*" OR "sustain*"; no further refinement to categories

Publication Years	Records	% of 1888508
1995	34887	1.847
1996	37538	1.988
1997	39567	2.095
1998	41713	2.209
1999	44139	2.337
2000	47282	2.504
2001	48424	2.564
2002	51924	2.749
2003	57247	3.031
2004	62221	3.295
2005	67973	3.599
2006	74448	3.942
2007	80845	4.281
2008	90582	4.796
2009	98666	5.225
2010	105179	5.569
2011	116160	6.151
2012	126231	6.684
2013	137373	7.274
2014	146202	7.742
2015	181523	9.612
2016	198384	10.505
(0 Publication Years value(s) outside display options.)		
(0 records (0.000%) do not contain data in the field being analysed.)		

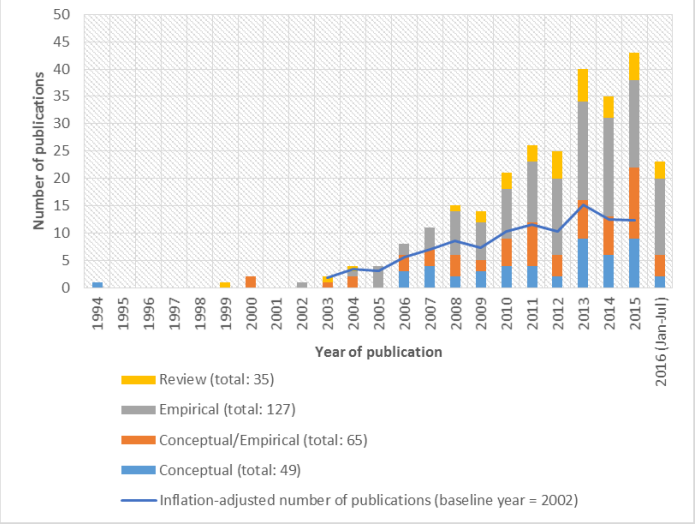
Baseline year chosen: 2002

Inflation-adjusted number of publications on knowledge topics (relative to baseline year) was calculated with the following formula:

$$adjusted\ knowledge\ publications\ in\ year\ X = total\ knowledge\ publications\ in\ year\ X \times \frac{total\ publications\ in\ baseline\ year}{total\ publications\ in\ year\ X}$$

The results are shown in the table below and they inform the line in Figure 3:

	Inflation-adjusted number of knowledge publications (baseline year = 2002)
2002	BASELINE YEAR
2003	2
2004	3
2005	3
2006	6
2007	7
2008	9



2009	7
2010	10
2011	12
2012	10
2013	15
2014	12
2015	12

Appendix C: Supplementary data

C.1. Overview of 148 semantic constructs, 75 concepts and 12 selected concepts, grouped in 9 categories

Knowledge (general	TOTAL = 30
knowledge dynamics	3
knowledge resource(s)	1
mental model(s)	1
*knowledge (general)**	4
knowledge and information	2
power and knowledge	1
social information	1
knowledge validation	1
evidential cultures, formative publics	1
prior related knowledge	1
schemas	1
collective memory	1
corporate memory	1
knowledge scales	1
useful knowledge	1
*knowledge processes (generic)**	1
*knowledge interactions at different scales**	1
*knowledge claims**	1
*evidence**	1
*knowledge and knowing**	1
*argumentation skills (related to: knowledge types)**	1
*knowledge types (generic)**	1
*information processing vs. embodied cognition**	1
*expertise (in governance)**	1

Knowledge systems	TOTAL = 19
knowledge system(s)	9
environmental knowledge systems	1
agricultural knowledge systems	1
open knowledge system	1
traditional knowledge systems	1
human information and knowledge systems	1
dialogues of knowledge systems	1
evolution of knowledge systems	1
*knowledge systems: learning**	1
knowledge encounters	1
knowledge arena	1

Learning (general)	TOTAL = 32
learning network	4
learning outcome(s)	2
learning theory(-ies)	1
learning for change	1
learning for adaptation	1
learning effect(s)	1
*learning (generic)**	15
*learning function of adaptive management**	2
cognitive social learners (ABM)	1
learning platform	1
*learning in EIA**	1
*gaming as learning**	1
learning institutions	1

Knowledge processes	TOTAL = 109
knowledge production	27
knowledge integration	17
knowledge management	13
knowledge co(-)production	12
knowledge sharing	7
knowledge generation	5
knowledge utilization / use	5
knowledge exchange	4
knowledge bridging	3
knowledge creation	3
knowledge transfer	3
knowledge brokerage	2
knowledge dissemination	2
knowledge transmission	1
knowledge making	1
knowledge mobilisation	1
knowledge acquisition	1
processes (multiple together)	2

Interfaces	TOTAL = 30
knowledge to action	10
science-policy / research-policy	10
science-society / science-policy-practice	8
science-practice	2

Knowledge types	TOTAL = 55
traditional ecological knowledge / TEK	7
traditional knowledge	2
indigenous knowledge / IK	6
indigenous ecological knowledge / IEK	2
local knowledge	6
local ecological / environmental knowledge / LEK	4
Western / scientific knowledge	4
ecological knowledge	3
global (environmental / ecological) knowledge	3
normative / target knowledge+	1
transformative / transformation knowledge+	1
sustainability knowledge	1
system knowledge+	1
tacit knowledge	1
expert knowledge	1
navigators' knowledge	1
CSR knowledge	1
cadastral knowledge	1
traditional phenological knowledge	1
usable knowledge	1
foresight knowledge	1
social knowledge	1
transdisciplinary knowledge	1
sustainable knowledge	1
open knowledge	1
vernacular knowledge	1
*knowledge for sustainable development**	1

Learning types	TOTAL = 115
social learning	67
sustainability learning	7
policy learning	7
organizational learning	3
double-loop learning++	2
joint learning	2
collective learning	2
transformative learning	2
mutual learning	2
collaborative learning	2
single-loop learning++	1
triple-loop learning++	1
situated learning	1
experiential learning	1
individual learning	1
learning for sustainability	1
environmental learning	1
participatory action learning	2
real-world learning	1
learning to learn	1
from ecological learning to social learning	1
instrumental, intrinsic and social learning	1
operational learning	1
social and institutional learning	1
generative learning	1
project-based learning	1
*modes of learning (incl. learning by experimenting)**	1
*learning (from evaluations)**	1

Research modes	TOTAL = 22
transdisciplinary / TD research	11
mode(-)2	2
action research	2
inter(-)disciplinary research	1
participatory research	1
problem-oriented research	1
solutions-oriented research	1
coproductive capacity	1
community engaged research	1
co-research	1

Other	TOTAL = 32
education for sustainable development / ESD	7
boundary work	4
community(-ies) of practice	3
bridging organization(s)	2
boundary object(s)	2
boundary organization(s)	1
worldview(s)	1
participatory (process / plan / land use / polic*)*	7
civic epistemology	1
epistemic cultures	1
knowledge-based firms	1
electronically mediated interaction (collaboration)	1
*research partnerships**	1

concepts selected for further qualitative specification in current review (12 MOST EMPLOYED)
concepts minimally engaged with in the literature (75 CONCEPTS)
+/++ concepts usually treated together

italics *other semantic constructs*
* *concepts not searchable (too generic)*

n numbers represent publication counts coded under the respective concept

C.2. Knowledge-related concepts in focus in Top 23 journals

Concepts (corresponding to identified objects of study) / Journal (see Legend below table)	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	TOTALS
NA	0	1	3	17	1	3	2	3	3	2	0	3	1	1	1	2	0	0	0	0	0	0	0	43
action research	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	1	6
boundary objects	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
boundary organizations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
boundary work	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
bridging organizations	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
collaborative learning	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
collective learning	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
community of practice	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	3
double-loop learning	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
ecological knowledge	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	4
education for sustainable development / ESD	0	1	0	1	0	1	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	6
environmental learning	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
global knowledge	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	3
indigenous ecological knowledge	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
indigenous knowledge	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
interdisciplinary research	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
joint learning	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	3
knowledge bridging	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	7
knowledge brokerage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
knowledge coproduction	0	0	0	2	0	0	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	7

	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	TOTALS
knowledge dissemination	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
knowledge exchange	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	3
knowledge generation	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
knowledge integration	0	1	1	2	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	1	0	0	9
knowledge making	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	2
knowledge management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knowledge production	4	0	0	3	0	1	0	2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	13
knowledge sharing	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	4
knowledge system	0	2	0	5	0	0	0	2	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	12
knowledge to action	0	0	0	3	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	6
knowledge transfer	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
knowledge transmission	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
knowledge use	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
knowledge utilization	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
knowledge integration	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
learning effects	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2
learning for adaptation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
learning for change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
learning network	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	5
learning outcomes	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
learning theories	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	3
local ecological knowledge	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	4
local knowledge	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
mental models	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
mode2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
mutual learning	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
organizational learning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
participatory research	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	TOTALS
policy learning	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
science-policy	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	6
science-practice	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
science-society	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	6
situated learning	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
social learning	1	0	3	17	0	1	2	4	0	1	1	1	2	1	0	0	0	0	0	0	0	0	0	34
sustainability knowledge	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	3
sustainability learning	0	1	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	5
system knowledge; transformative knowledge; normative target knowledge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
traditional ecological knowledge	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
traditional knowledge	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
transdisciplinary / TD research	1	1	1	0	0	0	0	1	0	3	0	1	0	0	0	1	0	0	0	0	0	0	0	9
transformative learning	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2
Western or scientific knowledge	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
TOTALS	8	8	9	82	7	11	9	23	5	7	12	13	13	7	7	13	6	3	5	4	8	6	5	

Legend: Journals

a	Ambio
b	Current Opinion in Environmental Sustainability
c	Ecological Economics
d	Ecology and Society
e	Environment and Planning C: Government and Policy
f	Environmental Education Research
g	Environmental Management
h	Environmental Science and Policy
i	Forest Policy and Economics
j	Futures
k	Global Environmental Change
l	International Journal of Sustainability in Higher Education
m	Journal of Cleaner Production
n	Ocean and Coastal Management
o	Proceedings of the National Academy of Sciences of the United States of America
p	Sustainability Science
q	Water Resources Management
r	Sustainability
s	Society and Natural Resources
t	Journal of Sustainable Tourism
u	Journal of Environmental Management
v	Environmental Conservation
w	Environment and Planning A

Appendix D: List of publications included in this review

No.	Authors	Title	Year	Source title
1	Adams M.S., Carpenter J., Housty J.A., Neasloss D., Paquet P.C., Service C., Walkus J., Darimont C.T.	Toward increased engagement between academic and indigenous community partners in ecological research	2014	Ecology and Society
2	Adelle, C; Jordan, A; Turnpenny, J	Proceeding in parallel or drifting apart? A systematic review of policy appraisal research and practices	2012	Environment and Planning C-Government and Policy
3	Ahlborg, H; Nightingale, AJ	Mismatch Between Scales of Knowledge in Nepalese Forestry: Epistemology, Power, and Policy Implications	2012	Ecology and Society
4	Alessa L., Kliskey A., Williams P., Barton M.	Perception of change in freshwater in remote resource-dependent Arctic communities	2008	Global Environmental Change
5	Anderson M.D.C.	The role of knowledge in building food security resilience across food system domains	2015	Journal of Environmental Studies and Sciences
6	Angelstam P., Andersson K., Annerstedt M., Axelsson R., Elbakidze M., Garrido P., Grahn P., Jönsson K.I., Pedersen S., Schlyter P., Skärbäck E., Smith M., Stjernquist I.	Solving problems in social-ecological systems: Definition, practice and barriers of transdisciplinary research	2013	Ambio
7	Angelstam P., Elbakidze M., Axelsson R., Dixelius M., Törnblom J.	Knowledge production and learning for sustainable landscapes: Seven steps using social-ecological systems as laboratories	2013	Ambio
8	Angelstam P., Grodzynskyi M., Andersson K., Axelsson R., Elbakidze M., Khoroshev A., Kruhlov I., Naumov V.	Measurement, collaborative learning and research for sustainable use of ecosystem services: Landscape concepts and Europe as Laboratory	2013	Ambio
9	Armatas C.A., Venn T.J., McBride B.B., Watson A.E., Carver S.J.	Opportunities to utilize traditional phenological knowledge to support adaptive management of social-ecological systems vulnerable to changes in climate and fire regimes	2016	Ecology and Society
10	Armitage D., Berkes F., Dale A., Kocho-Schellenberg E., Patton E.	Co-management and the co-production of knowledge: Learning to adapt in Canada's Arctic	2011	Global Environmental Change
11	Audouin M., Preiser R., Nienaber S., Downsborough L., Lanz J., Mavengahama S.	Exploring the implications of critical complexity for the study of socialecological systems	2013	Ecology and Society
12	Axelsson R., Angelstam P., Myhrman L., Sädbom S., Ivarsson M., Elbakidze M., Andersson K., Cupa P., Diry C., Doyon F., Drotz M.K., Hjorth A., Hermansson J.O., Kullberg T., Lickers F.H., McTaggart J., Olsson A., Pautov Y., Svensson L., Törnblom J.	Evaluation of multi-level social learning for sustainable landscapes: Perspective of a development initiative in Bergslagen, Sweden	2013	Ambio
13	Ayuso S., Rodríguez M.Á., García-Castro R., Ariño M.Á.	Does stakeholder engagement promote sustainable innovation orientation?	2011	Industrial Management and Data Systems
14	Bacon C.M., Mulvaney D., Ball T.B., DuPuis E.M., Gliessman S.R., Lipschutz R.D., Shakouri A.	The creation of an integrated sustainability curriculum and student praxis projects	2011	International Journal of Sustainability in Higher Education
15	Baden D., Parkes C.	Experiential learning: Inspiring the business leaders of tomorrow	2013	Journal of Management Development
16	Baival B., Fernández-Giménez M.E.	Meaningful learning for resilience-building among Mongolian pastoralists	2012	Nomadic Peoples
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