

Table 1. Data Selection

Subject Area	Journal	Collected	Excluded	Selected
Social Science	Social Studies Education	21	16	5
	Research in Social Studies Education	24	19	5
	Theory and Research in Citizenship Education	27	24	3
History	History Education Review	26	25	1
	Studies on History Education	30	26	4
	The Korean History Education Review	25	20	5
Geography	Region and Geography	63	61	2
	Journal of the Korean Geographical Society	95	94	1
	The Journal of The Korean Association of Geographic and Environmental Education	31	18	13
Total		342	303	39

Table 2. Descriptive Results

<i>Category</i>		<i>Criteria</i>	<i>n</i>	<i>%</i>
Publication Year		2009	2	5.1
		2010	2	5.1
		2011	1	2.6
		2012	0	0.0
		2013	2	5.1
		2014	1	2.6
		2015	3	7.7
		2016	0	0.0
		2017	1	2.6
		2018	0	0.0
		2019	3	7.7
		2020	1	2.6
		2021	3	7.7
		2022	8	20.5
		2023	5	12.8
		2024	4	10.2
		2025	3	7.7
Methodology		Theoretical/Literature Review	34	87.2
		Quantitative	4	10.3
		Qualitative	0	0.0
		Mixed-Methods	1	2.6
Focus		Elementary school education	7	17.9
		Middle school education	3	7.7
		High school education	2	5.1
		University/Teacher education	0	0.0
		Professional Development	1	2.6
		Not specified	26	66.7
Subject Area		Social Science	13	33.3
		History	10	25.7
		Geography	16	41.0

Table 3. Topics with the Highest Beta Values by Subject Area

<i>No.</i>	<i>Social Science</i>		<i>History</i>		<i>Geography</i>	
	Topic1 Beta	Topic2 Beta	Topic1 Beta	Topic2 Beta	Topic1 Beta	Topic2 Beta
1	Climate 0.0726	Citizen 0.0296	History 0.0678	Region 0.0188	Education 0.0892	Climate 0.0596
2	Change 0.0513	Perspective 0.0251	Narrative 0.0239	Discussion 0.0154	Natural disaster 0.0283	Change 0.0503
3	Response 0.0229	Politics 0.0237	Problem 0.0189	Management 0.012	Research 0.0238	Society 0.0258
4	Era 0.02	Disaster Prevention 0.0237	Disaster 0.0189	Occurrence 0.012	Geography 0.0204	Learning 0.0211
5	Proposition 0.02	Catastrophe 0.0207	Peace 0.0164	Land 0.012	Analysis 0.0193	Issue 0.0176
6	Learning 0.02	Issue 0.0163	Reflection 0.0127	Flood 0.012	Content 0.0182	Utilization 0.0176
7	Environment 0.02	Development 0.0163	Consciousness 0.0127	Locality 0.012	Disaster prevention 0.0170	Student 0.0176
8	Energy 0.0172	Safety 0.0163	Humanity 0.0114	Approach 0.0103	Environmental education 0.0170	Based 0.0153
9	Research 0.0125	Sustainability 0.0149	Description 0.0114	Natural Disaster 0.0103	Textbook 0.0159	Human 0.0141
10	Analysis 0.0143	Hazard 0.0134	Learning 0.0114	Plague 0.0103	Process 0.0159	Earth 0.0141

Table 4. Topic Modeling Results of Social Science Education Research

<i>No.</i>	<i>Topic Label</i>	<i>Key Terms</i>	<i>No. of studies</i>
1	Reconstructing Social Studies Learning for Climate and Ecological Change	climate, change, response, era, proposition, learning, environment, energy, research, analysis	7
2	Citizenship, Disaster Preparedness, and Sustainability Education for Hazard and Crisis Response	citizen, perspective, politics, disaster prevention, catastrophe, issue, development, safety, sustainability, hazard	6

Note. “No. of studies” indicates the number of studies assigned to each topic.

Table 5. Topic Modeling Results of History Education Research

<i>No.</i>	<i>Topic Label</i>	<i>Key Terms</i>	<i>No. of studies</i>
1	Reconstructing Human Narratives and Reflection on Disaster in History Education	history, narrative, problem, disaster, peace, reflection, consciousness, humanity, description, learning	5
2	Historical Inquiry into Regional Disaster Patterns and Responses	region, discussion, management, occurrence, land, flood, locality, approach, natural disaster, plague	5

Note. “No. of studies” indicates the number of studies assigned to each topic.

Table 6. Topic Modeling Results of Geography Education Research

<i>No.</i>	<i>Topic Label</i>	<i>Key Terms</i>	<i>No. of studies</i>
1	Natural Hazard, Disaster Preparedness, and Environmental Education Based on Curriculum and Textbook Analysis	education, natural disaster, research, geography, analysis, content, disaster prevention, environmental education, textbook, process	8
2	Climate Justice, Anthropocene-Based Social Issue Inquiry, and Climate Change Education	climate, change, society, learning, issue, utilization, students, based, human, earth	8

Note. “No. of studies” indicates the number of studies assigned to each topic.