Appendix 1

Selected Mathematics Education Journals

Journal for Research in Mathematics Education

International Journal of Science and Mathematics Education

Journal of Mathematics Teacher Education

Educational Studies in Mathematics

ZDM-Mathematics Education

Mathematical Thinking and Learning

Journal of Mathematical Behavior

For the Learning of Mathematics

Mathematics Education Research Journal

School Science and Mathematics

The Mathematics Educator

Research in Mathematics Education

International Journal of Math Education in Science and Technology

Appendix 2

Coding schemes for the review of international comparative studies in mathematics education

Table 1: Coding scheme for basic information

Category	Codes	Short description
Number	-	Articles in alphabetical order (from 001 to XXX)
Year	-	Year the article was published
Methods	1. Qualitative 2. Quantitative 3. Mixed 4. Theoretical	Non-numerical data is used, small number of participants Numerical data is used, large number of participants Both qualitative and quantitative methods are employed Non-empirical studies
Data collection year	1. Before 2020 2. After 2020	Not include 2020 Include 2020
School Year	1. Preschool school 2. Primary school 3. Junior secondary 4. Senior secondary 5. University 6. Others	Before Grade 1 (e.g., kindergarten) Grade 1-6 Grade 7-9 Grade 10-12 No schooling stage information could be identified (e.g. teacher education)
Geographic Location 1-continent	1. Within continent 2. Cross-continent	All participants (countries) were from a same continent All participants (countries) were from at least two different continents
Geographic Location 2-countries (number of countries)	1. 2 countries 2. 3 countries 4. 4 countries 4. 5 countries 5. ≥ 6 countries	List all the countries in another column and the frequency of the countries will be counted and compared.

Main theme	1.Curriculum/textbook	Topic for comparison is curriculum or textbooks (including policies related to curriculum and textbooks).
	2.Classroom practice	Topic for comparison is teaching or classroom practice, or lessons.
	3.Student learning	Topic for comparison is students' mathematics learning related issues such as achievement, affective variables, or learning approaches.
	4.Teacher education	Topic for comparison is preparation or attributes of mathematics teacher, such as knowledge and beliefs or mathematics teacher education policies/curriculum/programs.

Appendix 3

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