

## FWCI(領域加權引用影響指數)

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領域加權引用影響指數是計算三年內，與相同學科領域、同出版年與同論文類型比較，得出的標準化平均引用次數。其公式如下：(本數值隨時間變動，每年申請時請重新查詢最新數值)

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師所屬的期刊論文，請點選作者姓名，並查看歷年發表論文。

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Hsu, Ying-Chih	8	Mathematics	Clinical Medical University Hospital/Taipei	8篇	8次

#### Step.2

§請選擇欲查詢的論文，「領域加權引用影響指數」即為 FWCI 值，請將截取本

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## Opportunities and challenges of STEM education

Hsu, Ying-Shao<sup>a,b</sup> ; Fang, Su-Chi<sup>b</sup>

將全部儲存到作者清單

<sup>a</sup> Graduate Institute of Science Education, National Taiwan Normal University, Taipei City, Taiwan

<sup>b</sup> University of Johannesburg, South Africa

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Two decades of stem education research in middle school: A bibliometrics analysis in scopus database (2000–2020)

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摘要

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熱門主題

計量

### 摘要

In recent years, the ubiquitous calls for science, technology, engineering, and mathematics (STEM) education has increasingly encouraged educators and policymakers to promote STEM teaching and learning in classrooms. We reviewed research studies on integrated STEM in science education; most of the research findings showed a lack of concrete conclusions about the influence of integrated STEM. For instance, little is known about how and to what extent integrated STEM learning experiences may foster student creativity, support the development of higher order thinking skills, or impact their epistemological beliefs and views about science learning. Moreover, the review found only a few studies that looked into issues about the preparation of STEM teachers in their initial teacher education and professional development programs on integrated STEM. More research about the effectiveness of various teaching