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研究領域

●學術及教育專業專長：

科學教學(Science teaching)、教師專業發展(Teacher professional development)、科學素養評量(Scientific literacy assessment)

●歷年開課名稱：

科學探究的應用(The Application of Scientific Inquiry)

研究成果

(一) Publications List

1. 楊桂瓊*、林煥祥、洪瑞兒(2012)。以論證活動探討國小學童論證能力和科學本質之表現。科學教育學刊，22(2)，1-26。(TSSCI) *corresponding author
2. Lin, H., Hong, Z., Lee, S., & Yang, K.K. (2013). The impact of collaborative reflections on teachers' inquiry teaching. *International Journal of Science Education*, 25(18), 3095-3116. DOI: 10.1080/09500693.2012.689023 (SSCI)
3. Hong, Z., Lin, H., Wang, H., Chen, H., & Yang, K.K. (2013). Promoting and Scaffolding Elementary School Students' Attitudes toward Science and Argumentation through a Science and Society Intervention. *International Journal of Science Education*, 35(10), 1625-1648. DOI:10.1080/09500693.2012.734935 (SSCI)
4. 楊桂瓊、陳雅君、林煥祥、洪瑞兒(2015)。新興科技融入探究式教學的成效探討。科學

5. [Yang, K.K.](#), Hong, Z., Liu M.-C & Lin, H.(2015). Exploring the role of visitors' self-identity in marine museum learning. *International Journal of Science Education, Part B*, 5(4), 375-393. DOI: 10.1080/21548455.2015.1046152 (ESCI)
6. [Yang, K.K.](#), Hong, Z., Lin, S.-F & Lin, H.(2016). Exploring the assessment of and relationship between elementary students' scientific creativity and science inquiry. *Creativity Research Journal*, 28(1), 16–23. DOI: 10.1080/10400419.2016.1125270 (SSCI)
7. [Yang, K.K.](#), Lee, L., Hong, Z., & Lin, H.(2016). The investigation of effective strategies for developing creative science thinking. *International Journal of Science Education*, 38(13), 2133–2151. DOI: 10.1080/09500693.2016.1230685 (SSCI)
8. Jack, B.-M, Lee, L, [Yang, K.K.](#), & Lin, H.(2017). A science for citizenship model: Assessing the effects of benefits, risks, and trust for predicting students' interest in and understanding of science-related content. Research in Science Education'. *Research in Science Education*, 47(5), 965-988.(SSCI) DOI: 10.1007/s11165-016-9535-9 (SSCI)

(二) Conferences papers

1. [Yang, K.K.](#), Lee, L., Hong, Z-R & Lin., S. (2017, April). Exploring the significant predictors of student creative science thinking performance. Paper presented at the NARST conference, SanAntonio, US
2. Jack, B., Lee, L., [Yang, K.](#) & Lin*, H. (2016, April). *Science for Citizenship Model (SCM): Assessing the effects of benefits, risks, and trust for predicting students' interest in science-related content*. Paper presented at the annual conference of the East-Asian Association for Science Education, Tokyo, August 26-28.
3. Wang, H., Chen H., [Yang, K.](#), Pan, Y., Lin*, H. & Hong, Z. (2016, April). *The Impact of a Short-Term Camp on Students' Awareness and Mental Models towards Marine Environment*. Paper presented at the annual conference of the East-Asian Association for Science Education, Tokyo, August 26-28.
4. [Yang, K.K.](#), Lee, L., Hong, Z-R & Lin., S.(2016, April). The investigation of effective strategies for developing creative science thinking. Paper presented at the NARST conference, Baltimore, US
1. [Yang, K.K.](#), Lin, H., & Hong, Z. (2015, Sept). *Developing free-choice online test items for the*

assessment of elementary students' science inquiry competency. Paper presented at the ESERA Conference, Helsinki, Finland.

2. Brady, M-J, Lee, L., [Yang, K.K.](#), & Lin., S.(2015, April). *SCM: Measuring Students' Interest Within and Beyond the Formal Science Classroom*. Paper presented at the NARST conference, Chicago, US.
3. [Yang, K.K.](#), Lin, H., & Lin, S.(2011, Dec). *Supporting learning of variable control through reflection of TV advertisements*. Paper presented at the TERA International Conference on Education, Kaohsiung, Taiwan.
4. Hong, Z., Lin, H., Wang, H-H & Chen, H-T, [Yang, K.K.](#) (2011, Oct). *Effects of Cooperative Small Group Discussion on Elementary School Students' Argumentation and Attitudes toward Science in Taiwan*. Paper presented at the EASE Conference, Gwangju, Korea.
5. Hong, Z., Chen, Y., & [Yang, K.K.](#) (2011, Oct). *From situational interest to individual interest: The impact of a classroom intervention on college students' perception of learning science*. Paper presented at the EASE Conference, Gwangju, Korea.
6. Lin, H., Hong, Z., [Yang, K.K.](#), & Chen, Y. (2010, June). *Using collaborative reflections to support teachers' inquiry-based instruction*. Paper was presented at the annual conference of the Australian Science Education Research Association, New South Wales, Australia.
7. Hong, Z., Lin, H. S., Chen, H. T., Wang, H. H., & [Yang, K.K.](#) (2010, Dec). *The investigation of taiwanese elementary school students' self-efficacy and learning in science*. Paper was presented at Global Chinese Conference on Science Education 2010 (GCCSE), Hong Kong Institute of Education
8. [Yang, K-K.](#), Lin, H., & Chen, Y-C. (2010, Jan). *The exploration of teaching argumentation for elementary school students*. Paper was presented at the Hawaii International Conference on Education, Honolulu.
9. Hong, Z., Chen, H-T., Wang, H-H., & [Yang, K-K.](#) (2009, Jan). *The effects of promoting elementary school students' reading critical thinking and self-development through inquiry-based teaching*. Paper was presented at the Hawaii International Conference on Education, Honolulu.

榮譽事蹟

1. 榮獲國立中山大學 98、103 年度「優秀教學助理獎」。