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近年論文著述

期刊論文

1. Y. -C. Kan, M.-G. Lee and H. -W. Lee. "Experimental investigation of mode-I fracture toughness of real-cracked concrete repaired by epoxy," *Construction and Building Materials*, 293(12):123490, July 2021.
2. Ming-Gin Lee, S.-L. Lo b , Y.-C. Kan, et al. "Water quenched slag from incinerator ash used as artificial stone," *Case Studies in Construction Materials*, Vol. 16, June 2022, e00827.
3. 干裕成、裴廣智、何佳忠，"高鋁混凝土在高溫下之力學性質研究"，中國土木水利工程學刊(EI)， Vol.32, No.4, pp. 311 - 319, 2020.
4. Yu-Cheng Kan, Kuang-Chih Pei, Wei-Lin Hsu, "Bond Behavior of Low-activated High Aluminate Concrete with Reinforcement under Cyclic Load," *Materials Science Forum* (EI), Vol. 972, pp. 34-39, Oct. 2019.
5. Chung-Ho Huang, Y.-C. Kan, L.-H. Chen and, K.-C. Pei, "Flexural Behavior of Concrete Beams with Large Size Steel Bars," *Journal of Structures and Buildings* (SCI), 167(SB 6), pp. 334-342, 2014.
6. Kan, Y.-C., K.-C. Pei and C.-L. Chang, "Strength and Fracture Toughness of Heavy Concrete with Various Iron Aggregate Inclusions," *the Journal of Nuclear Engineering Design* (SCI), Vol.228 pp.119-127, March, 2004.
7. Wu, Chung-Hao, C.-H. Huang *, Y.-C. Kan, Tsong Yen, " Effects of fineness and dosage of fly ash on the fracture properties and strength of concrete," *Applied Science* (SCI), Vol. 9, No. 2266, 2019.
8. 干裕成、顏聰、黃中和、林瑞陞 「輕質粒料鋼筋混凝土版力學行為之研究」，*結構工程期刊*，30卷3期，pp. 27-52, 2015。

9. Kuang-Chih Pei, Yu-Cheng Kan, "Using Acoustic Emission Monitoring to Observe the De-bonding Behavior of Rebar in Cyclic Pull-out Tests," *Applied Mechanics and Materials* (EI), Vol. 784, pp. 377-384, 2015.
10. Size effect of reinforced lightweight concrete beam 裴廣智、干裕成 「應用音射監測技術觀察鋼筋動態拉拔實驗中握裹失敗之臨界行為」，*中國土木水利工程學刊* (EI)，Vol.26, No.3, pp. 199 – 204, 2014。
11. Kan, Yu-Cheng, L-H Chen, Tson Yen, " Mechanical Behavior of Lightweight Concrete Steel Deck," *Construction and Building Materials* (SCI), Vols. 42, Elsevier, pp 78-86, May, 2013.
12. Chung-Hao Wu, Yu-Cheng Kan, Chung-Ho Huang, Tsong Yen, Li-Huai Chen, " Flexural behavior and size effect of full scale reinforced lightweight concrete beam," *Journal of Marine Science and Technology* (SCI), Vol. 19, 2, pp. 132-140, April, 2011.
13. Kan, Yu-Cheng, L-H Chen, C.H. Wu, Tson Yen and H-W Liao, "Composite Behavior of Concrete Slab with Steel Decking under Flexural," *Advanced Materials Research* (EI), Vols. 284-286, pp 628-632, 2011.
14. 裴廣智、干裕成、顏聰、林東威，「鋼筋混凝土版載重試驗歷程之音射現象初步探討」，*中國土木水利工程學刊* (EI)，第21卷，第2期，pp.155~168，2009。
15. Y. -C. Kan, T. Yen and M.-G. Lee. "Restored strength of cracked concrete beam repaired by epoxy and PMMA," *ACI Material* (SCI), Vol. 105, pp. 451-8, 2008.
16. Kan, Y.-C. *, K.-C. Pei and C.-L. Chang, 2004, "Strength and Fracture Toughness of Heavy Concrete with Various Iron Aggregate Inclusions," *the Journal of Nuclear Engineering Design*, Vol.228 pp.119-127, March. (SCI/EI)
17. 干裕成、李明君、江支弘、蔡英明，2002,三月，「橡胎屑化後在混凝土工程上應用之研究」，*中國土木水利工程學刊*，第14卷，第一期，第141-149頁。
18. Chiang,C.-H., C.-L. Tsai and Y.-C. Kan, 2000," Acoustic Inspection of Bond Strength of Steel-reinforced Mortar after Exposure to Elevated Temperatures," *Ultrasonics*, Vol.38, pp. 534-536.
19. Chih-Hung Chiang, and Yu-Cheng Kan, 1999, "Reinforced Concrete Application of Acoustic Nondestructive Testing for Safety Evaluation," **Nondestructive Testing Evaluation**, Vol. 15, pp.139-150. (EI)

研討會論文

1. 干裕成、裴廣智、林文祥，「低活化性混凝土RC樑構件之撓曲行為研究」，*中華民國第十五屆結構工程研討會暨第五屆地震工程研討會*，論文編號：305，2020。
2. Kan, Yu-Cheng, "Mechanical Behavior of Mode I Fractured Concrete Repaired by Polymethyl Methacrylate (PMMA)," *Proceeding, ICMTA2019* (EI), Kyoto, Japan, October 11-14, 2019.
3. Yu-Cheng Kan , K.-C. Pei and M.-H. Cheng, "Investigation of the Mechanical Property of Low-Activation Concrete," *CMPSE2017 Proceeding* (EI), MATEC Web of Conferences, Vol. 130, 2017.
4. Kan, Yu-Cheng, K.- C., M.-H. Cheng "A Study of Fracture Properties of High Alumina Shielding Concrete (HASC)", *SMiRT-24*, Busan, Korea, August 10-25, 2017.

5. 干裕成、林文祥，「低活化性鋼筋混凝土樑構件之靜態及動態撓曲行為研究試驗」，2017混凝土工程研討會，嘉義，論文編號 B3, 2017，11月。
6. Kan, Yu-Cheng, Hung-Wei Lee, "Investigation of fracture toughness of cracked Concrete beam Repaired by Epoxy," Proceeding, International Conference on Shells, Plates and Beams, University of Bologna, Italy, 9-11 September 2015.
7. Kan, Y.-C., K.-C. Pei, Li-Hwei Chen, "An Investigation of Bond Behavior of Large-size Steel Bar Used in Nuclear Concrete Containment," Proceeding, SMiRT-22, San Francisco, August 18-23, 2013.
8. Kan, Y.-C., K.-C. Pei, C. -C. Cheng, "Deteriorating Fracture Property and Wave Velocity of Concrete Used in Nuclear Power Plant in Marine Environment," Proceeding, SMiRT 18, Beijing, China, August 7-12, 2005.
9. 干裕成、李皇偉，「樹脂型混凝土裂縫修補材料之韌性評估」，第七屆中華民國結構工程研討會，八月22-24日，2004。
10. 干裕成、吳夢嚴，「水泥質混凝土裂縫修補材料之韌性評估」，第七屆中華民國結構工程研討會，桃園鴻溪別館。八月22-24日，2004。
11. 干裕成、裴廣智、林秉誼，「混凝土破裂性質受老劣化之影響」，第八屆破壞科學研討會，墾丁，三月26-27日，2004。
12. 裴廣智、林東威、干裕成、鄭家齊、江支弘、徐鴻發，「乾點式低頻超音波在混凝土波速檢測之應用及實例」，第十一屆非破壞檢測研討會，日月潭，4月30-5月1日，2004。
13. Kan, Y.-C.*, S.-C. Yang and K.-C. Pei, 2003, "Toughness of Steel Fiber-Reinforced Heavy Concrete," *Proceeding, 17th International Conference of Structural Mechanics in Reactor Technology (SMiRT-17)*, Prague, Czech, 17-22 August.
14. 干裕成、張培聖，2002 (八月)「環氧樹脂修復混凝土裂縫之力學性質研究」，第六屆中華民國結構工程研討會，論文編號C51。
15. 楊炫智、干裕成，2002 (八月)「纖維加勁重質混凝土之力學性質研究」，第六屆中華民國結構工程研討會，論文編號C52。
16. 干裕成、李明君、蔡英明，2002(十月)，「屑化橡胎混凝土在鋪面工程上之應用研究」，第五屆中華民國鋪面工程研討會論文集，第264-271頁。
17. Kan, Y.-C., Pei, K.-C. and Chang, C.-L., 2001, " Strength and Fracture Toughness of Heavy Concrete with Various Iron Aggregate Inclusions," *Proceeding, 16th International Conference of Structural Mechanics in Reactor Technology (SMiRT-16)*, Washington D.C., 12-17 August, paper No.1230, H5 pp.1-7.
18. 干裕成、許誌宏，2000，「環氧樹脂對混凝土裂縫修補之力學成效評估」，第24屆全國力學會議論文集，pp. H41-48。
19. 干裕成、蔡英明，2000，「屑化橡胎混凝土工程性質之初步研究」，第五屆中華民國結構工程研討會論文集，pp.306-313。
20. 干裕成、蔡英明，1999，「屑化橡胎混凝土之力學性質研究」，第23屆全國力學會議論文集，pp.306-313。
21. Kan, Y.-C., C.-S. Sue, and C.-C. Cheng, 1999, "Comparison of Cracked Sections revealed by dye and the NDT method." *Proceedings, EASEC-7*, Kochi, Japan, August, pp.1514-1519.
22. Chiang, C.-H., C.-K. Tang, and, Y.-C. Kan, 1998, "Experimental Study on the Acoustic Wave Velocity in Steel Reinforced Mortar Under External Pull-Out Load." 22nd National Conference on Theoretical and Applied Mechanics,

December 19-21, Tainan, Taiwan.

18. 干裕成、蘇慶松，1998，「混凝土裂縫前緣受其組成顆粒大小之影響」，第四屆結構工程研討會，第3卷，第1791-1798頁。
19. 江支弘、唐競昆、干裕成，1998，「混凝土握裹力之非破壞評估-聲波法之應用」，第四屆結構工程研討會，第3卷，第2041-2053頁。
20. Kan, Y.-C. and S. E. Swartz, 1998. "Evaluation of Residual Strength from the Cracked Sections of Concrete Beams." Proceedings, EASEC6, Taipei, R.O.C., January 14-16, 1998, pp.817-822.
21. Chiang, C.-H., Y.-C. Kan, C.-K. Tang, and C.-S. Su, 1997, "Acoustic Inspection of Bond Strength Between Mortar and Reinforcement," 23rd Annual Symposium on Progress in Quantitative Nondestructive Evaluation, San Diego.
22. Kan, Y.-C., and Swartz, S. E., (1995). "The Effects of Mix Variables on Concrete Fracture Mechanics Parameters." Fracture Mechanics of Concrete Structures-FraMCoS 2 Proceedings, Zurich, Switzerland, pp.111-118.
23. Swartz, S.E., Kan, Y.-C., (1992). "The influence of aggregate/paste bonding and strength on mode I fracture mechanics properties of concrete." Fracture Mechanics of Concrete Structures. ed. by Z.P. Bazant, FramCoS 1, Elsevier Applied Science, London, pp.437-442.
24. Swartz, S. E., Kan, Y.-C.,(1991). "Effect of support conditions on fracture energy measurements for concrete beams." ECF 8 Fracture Behavior and Design of Materials and Structures, pp. 660-666.
25. Swartz, S.E., Kan, Y.-C.,(1991). "On the validity of indirect measurement of the LPD for SEN concrete beams." In Fracture Processes in Concrete, Rock and Ceramics, eds, J.G.M. vanMier, J.G. Rots, A. Baakker, E&FN SPON, London, 1991, pp.771-778.
26. Swartz, S.E., Kan, Y.-C., and Hu, K. K., (1990). "An expert system approach to applying fracture mechanics to reinforced concrete." International Workshop on the Applications of Fracture Mechanics to Reinforced Concrete, Turin, Italy, 6 October, 1990, pp. 579-606.
27. Kan, Y.-C., Swartz, S. E.,(1989). "Influence of curing conditions and widths on the fracture of concrete beams." Proceedings of 1989 SEN Spring Conference on Experimental Mechanics. Cambridge, MA, May 29-June 1, 1989, pp.196-201.
28. Liu, Z.-G., Swartz, S. E., Hu, K. K., and Kan, Y.-C., (1989). "Time-dependent response and fracture of plain concrete beams." In fracture of Concrete and Rock: Recent Developments, eds. S.P. Shah, S.E. Swartz & B. Barr, Elsevier Applied Science, London, pp.577-586.