

*金國生教授

所有發表期刊論文及會議論文

Journal Papers

(*: Corresponding Author)

1. **Kuo-Sheng Chin***, Wen Jiang, Wenquan Che, Chih-Chun Chang, and Huayan Jin, "Wideband LTCC 60-GHz antenna array with a dual-resonant slot and patch structure," *IEEE Transactions on Antennas and Propagation*, vol. 62, no. 1, pp. 174-182, Jan. 2014.
2. Huayan Jin, **Kuo-Sheng Chin***, Wenquan Che, Chih-Chun Chang, Hua-Juan Li, and Quan Xue, "Differential-fed patch antenna arrays with low cross polarization and wide bandwidths," *IEEE Antennas Wireless Propag. Lett.*, vol. 13, pp. 1069-1072, June 2014.
3. Huayan Jin, **Kuo-Sheng Chin***, Wenquan Che, Chih-Chun Chang, Hua-Juan Li, and Quan Xue, "A broadband patch antenna array with planar differential L-shaped feeding structures," accepted by *IEEE Antennas Wireless Propag. Lett.*, Sep. 2014.
4. Desong Wang, Wenquan Che, Yumei Chang, **Kuo-Sheng Chin**, and Yung-Leonard Chow, "Combined-element frequency selective surfaces with multiple transmission poles and zeros," *IET Microw. Antennas Propag.*, vol. 8, no. 3, pp. 186-193, Feb. 2014.
5. Desong Wang, **Kuo-Sheng Chin***, Wenquan Che, Chih-Chun Chang, and Yafen Wu, "A 60-GHz duplexer design using dual-mode SIW filters with single-sided transmission zeros," *Electronics Letters*, vol.50, no. 21, pp.1529-1531, Oct. 2014.
6. Yafen Wu, Wenquan Che, **Kuo-Sheng Chin**, Kuang-Ching Chang, and Wenjie Feng, "Low-temperature cofired ceramic planar helical filter with single-sided transmission zeros," *Electronics Letters*, vol.50, no.19, pp.1363-1365, Sep. 2014.
7. **Kuo-Sheng Chin***, Chih-Chun Chang, Cheng-Hua Chen, Zengxu Guo, Desong Wang, and Wenquan Che, "LTCC multilayered substrate-integrated waveguide filter with enhanced frequency selectivity for system-in-package applications," *IEEE Transactions on Components, Packaging and Manufacturing Technology*, vol. 4, no. 4, pp. 664-672, Apr. 2014.
8. D. S. Wang, W. Q. Che, Y. M. Chang, **K. S. Chin**, and Y. L. Chow, "A low-profile frequency selective surface with controllable tri-band characteristics," *IEEE Antennas Wireless Propag. Lett.*, vol. 12, pp. 468-471, 2013.

9. Z. Guo, **Kuo-Sheng Chin***, W. Che, and C.-C. Chang, "V-band cross-coupled SIW band-pass filter with an antisymmetric U-slot negative coupling structure," *Journal of Electromagnetic Waves and Applications*, pp. 1-9, 2013.
10. **Kuo-Sheng Chin***, Jia-An Liu, Chih-Chun Chang, and Jui-Ching Cheng, " LTCC differential-fed patch antennas with rat-race feeding structures," *Progress in Electromagnetics Research C*, vol. 32, pp. 95-108, 2012.
11. Zengxu Guo, **Kuo-Sheng Chin***, Wenquan Che, and Chih-Chun Chang, " Cross-coupled bandpass filters using QMSIW cavities and s-shaped slot coupling structures," *Journal of Electromagnetic Waves and Applications*, pp. 1-8, Nov. 2012.
12. J. S. Fu, W. P. Lin, W. Y. Lin, **K. S. Chin**, H. C. Chiu, H. L. Kao, and Y. H. Chang , "High speed intelligent communication for tele-care early warning system – a survey", *Journal of University of Electronic Science & Technology of China (JUESTC)*, issue 6, Nov. 2011.
13. **Kuo-Sheng Chin***, Cheng-Hua Chen, and Chih-Chun Chang, "LTCC vertically-stacked cross-coupled bandpass filter for LMDS band applications," *Progress in Electromagnetics Research C*, vol. 22, pp. 123-135, 2011.
14. **Kuo-Sheng Chin***, J.-L. Hung, C.-W. Huang, S.-P. Huang, Y.-A. Kao, and S.-H. Chao, "LTCC fold-back bandpass filter designed with capacitively loaded stubs," *Progress in Electromagnetics Research C*, vol. 23, pp. 95-109, 2011.
15. **Kuo-Sheng Chin***, Jian-Luen Hung, Chun-Wei Huang, Jeffrey S. Fu, and Nemaï C. Karmakar, "Compact LTCC Bandpass Filter with Vertically Folded Structure," *Microw. Optical Tech. Lett.*, vol. 53, no. 6, pp. 1389-1394, June 2011.
16. **Kuo-Sheng Chin***, Ho-Ting Chang, Jia-An Liu, Bao-Guo Chen, Jui-Ching Cheng, and Jeffrey S. Fu, "Stacked patch antenna array on LTCC substrate operated at 28 GHz," *Journal of Electromagnetic Waves and Applications*, vol. 25, no. 4, pp. 527-538, 2011.
17. **Kuo-Sheng Chin***, Ho-Ting Chang, and Jia-An Liu, "Design of LTCC wideband patch antenna for LMDS band applications," *IEEE Antennas and Wireless Propagation Letters*, vol. 9, pp. 1111-1114, 2010.
18. **Kuo-Sheng Chin***, Jian-Luen Hung, Chun-Wei Huang, Jeffrey S. Fu, Bao-Guo Chen, and Ting-Jen Chen, "LTCC dual-band stepped-impedance-stub filter constructed with vertically folded structure," *Electronics Letters*, vol. 46, no. 23, pp. 1554-1556, Nov. 2010.

19. Ching-Ian Shie, Yu-Han Pan, **Kuo-Sheng Chin**, and Yi-Chyun Chiang, "A miniaturized microstrip balun constructed with two $\lambda/8$ coupled lines and a redundant line," *IEEE Microwave and Wireless Components Letters*, vol. 20, no. 12, pp. 663-665, Dec. 2010.
20. Jeffrey S. Fu, Dong-Hua Yang, Chin-I Yeh, N. C. Karmakar, Jui-Ching Cheng, **Kuo-Sheng Chin**, Hsien-Chin Chiu and Jian Kang Xiao, "Electromechanical controlled phased array dumbbell EBG beam steerer," *Microelectronics Reliability*, vol. 50, pp. 2093-2097, Dec. 2010.
21. **Kuo-Sheng Chin***, Ken-Ming Lin, Yen-Hsiu Wei, Tzu-Hao Tseng, and Yu-Jie Yang, "Compact dual-band branch-line and rat-race couplers with stepped-impedance-stub lines," *IEEE Trans. Microwave Theory Tech.*, vol. 58, no. 5, pp. 1213-1221, May 2010.
22. Jeffrey S. Fu, Dong-Hua Yang, Chin-I Yeh, Hsien-Chin Chiu, **Kuo-Sheng Chin**, Hsuan-Ling Kao and Jui-Ching Cheng, "Non-uniform Chebyshev distributed chirped dumbbell-shaped photonic bandgap structure (PBGs) low pass filter," *COMPEL-International Journal For Computation and Mathematics in Electrical and Electronic Engineering*, pp. 295-305, Feb. 2010.
23. **Kuo-Sheng Chin*** and Deng-Jun Chen, "Harmonic-suppressing bandpass filter based on coupled triangular open-loop stepped-impedance resonators," *Microw. Optical Tech. Lett.*, vol. 52, no. 1, pp. 187-191, Jan. 2010.
24. **Kuo-Sheng Chin***, Yi-Ping Chen, Ken-Min Lin, and Yi-Chyun Chiang, "Compact parallel coupled-line bandpass filter with wide bandwidth and suppression of spurious," *Microw. Optical Tech. Lett.*, vol. 51, no. 8, pp. 1795-1800, Aug. 2009.
25. **Kuo-Sheng Chin*** and Jun-Hong Yeh, "Dual-wideband bandpass filter using short-circuited stepped-impedance resonators," *IEEE Microwave and Wireless Components Letters*, vol. 19, no. 3, pp. 155-157, Mar. 2009.
26. **Kuo-Sheng Chin*** and Chih-Kang Lung, "Miniaturized microstrip dual-band bandstop filters using tri-section stepped-impedance resonators," *Progress In Electromagnetics Research C*, vol. 10, pp. 37-48, 2009.
27. **Kuo-Sheng Chin*** and Deng-Jun Chen, "Novel microstrip bandpass filters using direct-coupled triangular stepped-impedance resonators for spurious suppression," *Progress In Electromagnetics Research Letters*, vol. 12, pp. 11-20, 2009.
28. **Kuo-Sheng Chin**, Yi-Chyun Chiou, and Jen-Tsai Kuo, "New synthesis of parallel-coupled line bandpass filters with Chebyshev responses," *IEEE*

Trans. Microwave Theory Tech., vol. 56, no. 7, pp. 1516-1523, July 2008.

29. **Kuo-Sheng Chin**, Ming-Chuan Ma, Yi-Ping Chen, and Yi-Chyun Chiang, "Closed-form equations of conventional microstrip couplers applied to design couplers and filters constructed with floating plate overlay," *IEEE Trans. Microwave Theory Tech.*, vol. 56, no. 5, pp. 1172-1179, May 2008.
30. **Kuo-Sheng Chin***, Jun-Hong Yeh, and Shuh-Han Chao, "Compact dual-band bandstop filters using stepped-impedance resonators," *IEEE Microwave and Wireless Components Letters*, vol. 17, no. 12, pp. 849-851, Dec. 2007.
31. **Kuo-Sheng Chin***, Yi-Chyun Chiang, and Jen-Tsai Kuo, "Microstrip open-loop resonator with multi-spurious suppression," *IEEE Microwave and Wireless Components Letters*, vol. 17, no. 8, pp. 574-576, Aug. 2007.
32. **Kuo-Sheng Chin** and Jen-Tsai Kuo, "Insertion loss function synthesis of maximally flat parallel-coupled line bandpass filters," *IEEE Trans. Microwave Theory Tech.*, vol. 53, no. 10, pp. 3161-3168, Oct. 2005.
33. **Kuo-Sheng Chin**, Liu-Yang Lin, and Jen-Tsai Kuo, "New formulas for synthesizing microstrip bandpass filters with relative wide bandwidths," *IEEE Microwave and Wireless Components Letters*, vol. 14, no. 5, pp. 231-233, May 2004.

Conference Papers

1. **Kuo-Sheng Chin**, Chun-Wei Huang, Chih-Chun Chang, Kuang-Tsung Chou, Yen-Ting Liu, "LTCC Kaband bandpass filters with half-wavelength open-circuited stubs," *The 3rd International Symposium on Next-Generation Electronics (ISNE 2014)*, Taoyuan, Taiwan, Feb. 2014.
2. Zengxu Guo, **Kuo-Sheng Chin**, Wenquan Che, Chih-Chun Chang, "V-Band and Ku-band cross-coupled bandpass filters with substrate-integrated waveguide structures," *2013 Joint Conference of International Conference On Computational Problem-solving and the High Speed Intelligent Communication Forum*, JiuZhai Valley, China, Oct. 2013.
3. **Kuo-Sheng Chin**, Chi-Sheng Wu, and Chih-Chun Chang, "Development of Textile Antennas for Smart Clothing Applications," *Progress in Electromagnetics Research Symposium 2013 (PIERS 2013)*, Stockholm, Sweden, August 12-15, 2013.
4. Huayan Jin, **Kuo-Sheng Chin**, Wenquan Che, Quan Xue, "LTCC differential-fed patch antenna sub-array with low cross-polarization," *2013*

Cross Strait Quad-Regional Radio Science and Wireless Technology Conference, Chengdu, China, Jul. 2013.

5. Zengxu Guo, **Kuo-Sheng Chin**, Wenquan Che, and Chih-Chun Chang, "Substrate integrated waveguide quasi-elliptic bandpass filter with meander-slot coupling structures," accepted for presentation in *Asia-Pacific Microwave Conference 2012*, Kaohsiung, Dec. 4-7, 2012.
6. **Kuo-Sheng Chin**, Yen-Hsiu Wei, Ting-Yi Lin, and Chih-Chun Chang, "Dual-band rat-race coupler with arbitrary power-split ratios," presented in *High Speed Intelligent Communication Forum 2012*, Nanjing, May 10-11, 2012.
7. **Kuo-Sheng Chin**, Ho-Ting Chang, Jia-An Liu, Hsien-Chin Chiu, Jeffrey S. Fu, and Shuh-Han Chao, "28-GHz patch antenna arrays with PCB and LTCC substrates," accepted by *2011 Cross Strait Quad-Regional Radio Science and Wireless Technology Conference*, Harbin, China, July 26-30, 2011.
8. **Kuo-Sheng Chin**, Jian-Luen Hung, Chun-Wei Huang, and Jeffrey S. Fu, "LTCC dual-band filter with stepped-impedance stub and vertically folded structure," presented in *High Speed Intelligent Communication Forum 2011*, Hong Kong, May 30-31, 2011.
9. S.-C. Chan, H.-C. Chiu, **K.-S. Chin**, and J. S. Fu, "Multilayer asymmetrical compact microstrip resonator cell band-pass filter using LTCC technology," *2010 IEEE International Conference of Electron Devices and Solid-State Circuits (EDSSC 2010)*, Hong Kong, China, Dec. 2010.
10. Tsung-Han Liu, Chin-I Yeh, Jeffrey S. Fu, **Kuo-Sheng Chin**, Jui-Ching Cheng, and Hsien-Chin Chiu, "Preliminary study of 60 GHz SIW H-plane horn antenna," presented in *High Speed Intelligent Communication Forum 2010*, Singapore, May 13-14, 2010.
11. Dong-Hua Yang, Tsung-Han Liu, Yung-Nan Chen, Jeffrey S. Fu, Chia-Wen Chang, Yeong-Hwa Chang, Jui-Ching Cheng, and **Kuo-Sheng Chin**, "Position controlled electromechanical EBG beam steerer," presented in *High Speed Intelligent Communication Forum 2010*, Singapore, May 13-14, 2010.
12. C. I. Yeh, D. H. Yang, T. H. Liu, Jeffrey S. Fu, **K. S. Chin**, J. C. Cheng, H. C. Chiu, and C. P. Kao, "MMIC Compatibility Study of SIW H-plane Horn Antenna," *2010 International Conference on Microwave and Millimeter Wave Technology, ICMMT 2010*, art. no. 5525149, pp. 933-936, Chengdu, China, May. 2010.

13. Chih-Kang Lung, **Kuo-Sheng Chin**, and Jeffrey S. Fu, "Tri-Section stepped-impedance resonators for design of dual-band bandstop filter," in *Proceedings of the 39th European Microwave Conference 2009*, Rome, Italy, pp. 771-774, Sep. 29-Oct. 1, 2009.
14. Dong-Hua Yang, Chin-Yin Huang, Jeffrey S. Fu, **Kuo-Sheng Chin**, Yi-Chyun Chiang and Yung-Nan Chen, "Harmonic Suppression of Non-Uniform Dumbbell PBG Assisted BPF," Accepted by *4th International Conference on Near-Field Characterization and Imaging (2009 ICONIC)*, Taipei, June 24-26, 2009.
15. D. Yang, C. Yeh, J. S. Fu, J. Cheng, **K.-S. Chin**, "SLL Similarity Filling Factor Design for Chebyshev Modulated Dumbbell DGS Low Pass Filters," in *Asia-Pacific Microwave Conference 2009*, Singapore, Dec. 7-10, 2009.
16. Jeffrey S. Fu, D. Yang, H. Chiu, **K.-S. Chin**, and H. Kao, "Non-uniform Chebyshev chirped dumbbell-shaped photonic bandgap structure (PBGs) low pass filter," accepted by *2008 CAC*, Chengdu, China, Dec. 10-13, 2008.
17. Jeffrey S. Fu, C. Y. Yeh, H. C. Chiu, **K.-S. Chin**, and H. L. Kao, "Suspended substrate stripline (SSS) transition for high Q LO injected finline mixer," accepted for presentation in *Asia-Pacific Microwave Conference*, Hong Kong, China, Dec. 16-19, 2008.
18. Jeffrey S. Fu, H. C. Chiu, C. Y. Yeh, **K. S. Chin**, and J. C. Cheng, "Hybrid integrated millimeter wave MEMs," *Proceedings of 2008 CSTRWC*, Taipei, Taiwan, pp. 55-58, Aug. 26-31, 2008.
19. **Kuo-Sheng Chin**, Jun-Hong Yeh, and Shuh-Han Chao, "Novel Microstrip Bandstop Filters With Controllable Dual Stopbands," in *Asia-Pacific Microwave Conference Proceedings*, Bangkok, Thailand, pp. 493-496 Dec. 11-14, 2007.
20. Yi-Ping Chen, Yi-Chyun Chiang, and **Kuo-Sheng Chin**, "Parallel Coupled-Line Bandpass Filters With Floating Plate Overlay for Enhanced Coupling and Spurious Suppression," in *Asia-Pacific Microwave Conference Proceedings*, Bangkok, Thailand, pp. 693-696 Dec. 11-14, 2007.
21. **Kuo-Sheng Chin** and Jen-Tsai Kuo, "A simple technique for measuring frequencies of a single-shot microwave pulse," in *Asia-Pacific Microwave Conference Proceedings*, New Delhi, India, pp. C/139, Dec. 15-18, 2004.
22. **Kuo-Sheng Chin**, Liu-Yang Lin and Jen-Tsai Kuo, "An improved formula for design of wideband parallel-coupled microstrip bandpass filters," in the *Proceedings of 2003 Progress in Electromagnetics Research Symposium*

(PIERS), pp.72, Hawaii, Oct. 13-16, 2003.