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參考資料目錄:

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D. 執行計畫

A. Journal Paper - SCI (期刊論文)

A1. **S.-F. Chao**, C.-H. Wu, Z.-M. Tsai, H. Wang, and C.-H. Chen, "Electronically switchable bandpass filters using loaded stepped-impedance resonators," *IEEE Trans. Microwave Theory and Tech*.,vol. 54, no. 12, pp. 4193-4201, Dec. 2006.(SCI)

A2. **S.-F. Chao**, H. Wang, C.-Y. Su, and J. G. J. Chern, "A 50 to 94-GHz CMOS SPDT switch using traveling-wave concept," *IEEE Microwave Wireless Compon. Lett.*, vol. 17, no. 2, pp.130-132, Febuary 2007. (SCI)

A3. F.-C. Chang, P.-C. Huang, **S.-F. Chao**, and H. Wang, "A low power folded mixer for UWB system applications in 0.18-μm CMOS technology," *IEEE Microwave and Wireless Compon. Lett.*, vol. 17, no. 5, pp. 367-369, May 2007. (SCI)

A4. **S.-F. Chao**, C.-C. Kuo, K.-Y. Lin, and H. Wang, "40-GHz MMIC SPDT and multiple-port bandpass filter-integrated switches," *IEEE Trans. Microwave Theory and Tech*.,vol. 55, no. 12, pp. 2691-2699, Dec. 2007. (SCI)

A5. **S.-F. Chao**, J.-J. Kuo, C.-L. Lin, M.-D. Tsai, and H. Wang, "A DC-11.5 GHz low-power, wideband amplifier using splitting-load inductive peaking technique," *IEEE Microwave Wireless Compon. Lett.*, vol. 18, no. 7, pp.482-484, July 2008. (SCI)

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A8. **Shih-Fong Chao***, "Microstrip bandpass filters with series-LC resonator loaded coupled lines," *Microwave and Optical Technology Letters*, vol. 55, no. 6, pp. 1273-1276, June 2013. (SCI)

A9. **Shih-Fong Chao*** and Wei-Cheng Lin, “High-isolation switchable bandpass filter using connected-coupling line,” *Electronics Letters*, vol. 49, no. 16, pp. 1004-1005, August 2013. (SCI)

A10. **Shih-Fong Chao*** and You-Ruei Li, “Miniature filtering power divider with increased isolation bandwidth,” *Electronics Letters*, vol. 50, no. 8, pp. 608-610, April, 2014. (SCI)

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B. Conference Paper (會議論文)

B1. **S.-F. Chao**, Z.-M. Tsai, K.-Y. Lin, and H. Wang, “Compact W-band SPQT switch using traveling wave concept,” *European GAAS Conference Proceedings*, Paris, France, Oct., 2005.

B2. C.-M. Lo, **S.-F. Chao**, C.-C. Chang and H. Wang, “A fully integrated 5-6 GHz CMOS variable-gain LNA using helix-stacked inductors,” *European Microwave Integrated Circuits Conference (EuMIC) Proceedings*, Manchester, UK, Sept. 2006.

B3. W.-R. Lee, **S.-F. Chao**, Z.-M. Tsai, P.-C. Huang, C.-H. Lien, J.-H. Tsai, and H. Wang, “A high-efficiency, broadband and high output power pHEMT balanced K-Band doubler with integrated balun,” *18th Asia Pacific Microwave Conference Technical Digest*, Yokohama, Japan, Dec. 2006.

B4. **S.-F. Chao**, C.-C. Kuo, Z.-M. Tsai, and H. Wang, “A 40-GHz MMIC SPDT bandpass filter integrated switch,” *in IEEE MTT-S International Microwave Symposium Digest*, June 2007.

B5. P.-C. Huang, F.-C. Chang, **S.-F. Chao**, and H. Wang, “A miniature folded-switching up-conversion mixer for UWB applications using 0.18-μm CMOS process,” *in IEEE RFIC Symposium Digest*, Honolulu, HI, USA, June 2007.

B6. **Shih-Fong Chao*** and Ming-Wei Shih, “Design of double-pole-double-throw bandpass filter-integrated switches,” *Progress in Electromagnetics Research Symposium* (*PIERS)*, Kuala Lumper, Malaysia, March 27–30, 2012. (EI)

B7. **Shih-Fong Chao*** and Ming-Wei Shih, “Design of high isolation electronically switchable bandpass filter,” *Progress in Electromagnetics Research Symposium* (*PIERS)*, Moscow, Russia, August 19–23, 2012. (EI)

B8. **Shih-Fong Chao*,** and Wei-Cheng Lin, “Low-loss dual-Band switchplexer using asymmetric sepped-impedance resonators,” P*hysics and Mechanics of New Materials and their Applications* (*PHEMA)*, Kaohsiung, Taiwan, June 5-8, 2013.

B9. Pu-Hua Deng*, Yu-Ta Chen, Ren-Chuan Liu, **Shih-Fong Chao**, and Li-Chi Dai, “Design of a switchable selectivity bandpass filter based on diode-loaded resonators,” in *43rd European Microwave Conference*, Nuremberg, Germany, October 6-11, 2013.(EI)

B10. **Shih-Fong Chao*** and You-Ruei Li, “Design of double-pole-double-throw switchable dual-band bandpass filter,” in *Physics and Mechanics of New Materials and their Applications* (*PHEMA)*, Khon Kaen, Thailand, March 27-29, 2014.

B11. **Shih-Fong Chao*,** Wei-Cheng Lin, and Che-You Kuo, “Bandpass filter with tunable bandwidth using triple-mode H-type resonator,” in *IEEE 3rd International Symposium on Next-Generation Electronics (ISNE)*, Taoyuan, Taiwan, May 7-10, 2014. (EI)

B12. **Shih-Fong Chao*,** Wei-Cheng Lin, Che-You Kuo, and Pu-Hua Deng, "A compact wideband bandpass filter using triple-mode H-type resonator," in *IEEE International Conference on Consumer Electronics(ICCE),* Taipei, Taiwan, May 26-28, 2014. (EI)

B13. **Shih-Fong Chao*,** Che-You Kuo, Pu-Hua Deng, Wei-Cheng Lin, and Wei-Ru Li "A dual-band switchable bandpass filter using connected-coupling mechanisms," in *44th European Microwave Conference,* Rome, Italy, October 5-10, 2014.(EI)

B14. Wei-Da Lin, Ren-Chuan Liu, Bo-Lin Chen, Pu-Hua Deng*, and **Shih-Fong Chao** "A Wilkinson power divider with transmission zero in desired stopband using embedded parallel resonator," in *26th Asia Pacific Microwave Conference Technical Digest,* Sendai, Japan, November 4-7, 2014.(EI)

B15. Kwok-Keung Chon, Ching-Jui Wu, Feng-Lin Jenq, Hong-Yu Jhuang, and **Shih-Fong Chao***, "A wide stopband filter with source-load coupling technique," *Progress in Electromagnetics Research Symposium* (*PIERS),* Prague, Czech Republic, July 6–9, 2015. (EI)

B16. **Shih-Fong Chao***, Kun-Rong Lin, and Yen-Yu Chen, "A Reconfigurable Filtering Power Divider," *in IEEE MTT-S International Microwave Symposium Digest,* San Francisco, USA, May 22–27, 2016. (EI)

B17. **Shih-Fong Chao***, Kun-Rong Lin, and Yen-Yu Chen, "A Reconfigurable Unequal Filtering Power Divider Based on Switched-Filter Matching Network," *in 47th European Microwave Conference, Nuremburg, German, October 9-13, 2017.* (EI)

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C. Symposium papers (研討會論文)

C1. Shih-Fong Chao, Design of Quasi-Elliptic Bandpass Filters Based on Short-Circuited Coupled-Line Stubs, 2021 IEEE International Symposium on Radio-Frequency Integration Technology.

C2. Shih-Fong Chao, Yen-Ting Lin, A Tunable Power Divider with Continuous Dividing Ratio and Wide Tuning Range, 2019 PhotonIcs & Electromagnetics Research Symposium.

C3. Shih-Fong Chao*, Kun-Rong Lin, and Yen-Yu Chen, A Reconfigurable Unequal Filtering Power Divider Based on Switched-Filter Matching Network, 47th European Microwave Conference.

C4. Shih-Fong Chao*, Kun-Rong Lin, and Yen-Yu Chen, A Reconfigurable Filtering Power Divider, IEEE MTT-S International Microwave Symposium Digest.

C5. 林廣, 趙世峰（2020 年 06 月）。使用對稱零點改善通帶選擇率之帶通濾波器。2020 微電子技術發展與應用研討會。

C6. 翁彥琦, 趙世峰（2021 年 05 月）。三模態共振腔構成巴倫型帶通濾波器。2021 微電子技術發展與應用研討會。

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D. 執行計畫

具任意功率分配比之功率放大器之設計與應用 (107-2637-E-992-007-)	Design of Power Divider with Arbitrary Power Division Ratio (107-2637-E-992-007-)	主持人	2018/08/01~ 2019/10/31	科技部	已結案	404,000