已發表期刊

1. **Kuei-Chih Feng**, Chen-Chia Chou*, Chung-Ya Tsao, Li-Wen Chu, Igor-P. Raevski and Haydn Chen, A novel phase-controlling-sintering route for improvement of diopside-based microwave dielectric materials. Ceramics International., 41, S526-S529, 2015. **(IF:2.605、Rank:4/26)**

2. Chen-Chia Chou*, **Kuei-Chih Feng**, Brianti Satrianti Utami, Cheng-Nan Chen and Chen-Sao Chen, Microstructural Investigations and Electric Field-induced Strain of $(1-x)(Bi_{0.5}Na_{0.5})TiO_3 - xBaTiO_3$ Lead-Free Ferroelectric Ceramics. Ferroelectrics., 458, 3-12, 2014. **(IF:0.413、Rank:71/78)**

3. **Kuei-Chih Feng**, Chen-Chia Chou*, Cheng-Sao Chen, Li-Wen Chu and Haydn Chen, Phase Evolution and Electrical properties of copper-electroded $BaTi_4O_9$ Materials with BZBS glass system in reducing atmosphere. Ceramics International., 39, S321-S324, 2013. **(IF:2. 605、Rank:4/26)**

4. **Kuei-Chih Feng***, Chen-Chia Chou, Li-Wen Chu and Haydn Chen, Zirconia nucleating agent on microstructural and electrical properties of a $CaMgSi_2O_6$ diopside glass-ceramic for microwave dielectrics. Materials Research Bulletin., 47, 2851-2855, 2012. **(IF:2.288、Rank:66/259)**

5. **Kuei-Chih Feng**, Chi-Ying Lin, Chen-Chia Chou* and Li-Wen Chu, Effect of particle size on crystallization and microwave dielectric characteristics of $CaMgSi_2O_6$ glass-ceramics. Ferroelectrics., 435, 91-97, 2012. **(IF:0.469、Rank:233/259)**

6. **Kuei-Chih Feng**, Yu-Hsuan Su, Chen-Chia Chou*, Ze-Meng Liu and Li-Wen Chu, Defect analysis in $CaMgSi_2O_6$ glass-ceramic under reduction atmosphere. Chinese Journal of Physics., 50, 932-938, 2012. **(IF:0.413、Rank:71/78)**

7. Chen-Chia Chou, Cheng-Sao Chen*, Pei-Chen Wu, **Kuei-Chih Feng** and Li-Wen Chu, Influence of glass compositions on the microstructure and dielectric properties of low temperature fired $BaTi_4O_9$ microwave material with copper electrodes in reducing atmosphere. Ceramics International., 38, S159-S162, 2012. **(IF:2.605、Rank:4/26)**

8. Cheng-Sao Chen*, Pei-Chen Wu, Chen-Chia Chou, **Kuei-Chih Feng** and Li-Wen Chu, Phase stability and dielectric properties of low temperature fired $BaTi_4O_9$ microwave material with copper electrodes in reducing atmosphere. Advanced Materials Research., 1466, 284-286, 2011.

9. Chen-Chia Chou*, **Kuei-Chih Feng**, Cheng-Sao Chen and Li-Wen Chu, Development of $CaMgSi_20_6$ diopside glass ceramic as microwave dielectric material. IEEE Xplore Applications of Ferroelectrics., 333-336, 2011.

研討會論文

1. Pin-Yi Chen*, **Kuei-Chih Feng**, Cheng-Sao Chen, Chi-Shun Tu and Pei-Ying Wong (2016), Effects of Al_2O_3 and TiO_2 additions on microstructures and properties in a CaO-Al_2O_3-B_2O_3-SiO_2 glass., International Conference on Microwave Materials and their Applications. Seoul, Korea.
2. **Kuei-Chih Feng***, Chen-Chia Chou, Li-Wen Chu, Igor-P. Raevskiy and Haydn Chen (2014), A novel phase-controlling-sintering route for improvement of diopside-based microwave dielectric materials., The 9th Asian Meeting on Electroceramics. Shanghai, China.
3. **Kuei-Chih Feng***, Chen-Chia Chou, Li-Wen Chu, Igor-P. Raevskiy and Haydn Chen (2014), Reducing-resistant behavior of $CaMgSi_2O_6$ glass-ceramics under reducing atmosphere., The 9th Asian Meeting on Electroceramics. Shanghai, China.
4. **Kuei-Chih Feng***, Chen-Chia Chou, Shun-Chieh Chuang, Bang-Kai Liu, Li-Wen Chu, Igor-P. Raevskiy and Haydn Chen (2013), Phase transformation induced bloating behavior in diopside glass-ceramics used for microwave dielectric materials., The 1st Workshop on Functional Ceramics. Macau, China.
5. **Kuei-Chih Feng***, Chen-Chia Chou and Li-Wen Chu (2012), Effect of particle size on crystallization and microwave dielectric characteristics of $CaMgSi_2O_6$ glass-ceramics., International Conference on Microwave Materials and their Applications. Taipei, Taiwan.
6. **Kuei-Chih Feng***, Chen-Chia Chou and Li-Wen Chu (2012), Defect Analysis in $CaMgSi_2O_6$ glass-ceramic under reduction., International Conference on Microwave Materials and their Applications. Taipei, Taiwan.
7. **Kuei-Chih Feng***, Chen-Chia Chou, Li-Wen Chu and Haydn Chen (2012), Microstructural Characterization of Base-Metal Electroded $BaTi_4O_9$ Materials with Ba-B-Si-Zn-O glass system., The 8th Asian Meeting on Electroceramics. Penang, Malaysia.
8. Chen-Chia Chou, **Kuei-Chih Feng***, Cheng-Sao Chen and Li-Wen Chu (2011), Development of $CaMgSi_20_6$ diopside glass ceramic as microwave dielectric material., International Symposium on and 2011 International Symposium on Piezoresponse Force Microscopy and Nanoscale Phenomena in Polar Materials. Vancouver, Canada.
9. **Kuei-Chih Feng***, Chen-Chia Chou, Li-Wen Chu and Haydn Chen (2011), The influence of microstructures on variation of dielectric properties in ZrO_2 modified-$CaMgSi_2O_6$ diopside glass ceramic under the second thermal treatment., Collaborative Conference on 3D & Materials Research. Jeju, Korea.
10. **Kuei-Chih Feng***, Chen-Chia Chou, Li-Wen Chu and Haydn Chen (2011), Zirconia nucleating agent on microstructural and electrical properties of a $CaMgSi_2O_6$ diopside glass-ceramic for microwave dielectrics., The 2011 International Forum on Functional Materials (IFFM2011) and the 2nd Special Symposium on Advances in Functional Materials. Jeju, Korea.

專利發表

A、已通過專利

1. 發明型專利，微波陶瓷材料，周振嘉、**馮奎智**、劉賸銘、朱立文、莊朝棟，通過案號: I482742。
2. 發明型專利，微波介電玻璃陶瓷材料及其組成物，周振嘉、**馮奎智**、陳書纓、朱立文、莊朝棟，通過案號: I439438。

B、申請中專利

1. 發明型專利，微波介電玻璃陶瓷組成物及其材料，周振嘉、**馮奎智**、柳邦凱、朱立文，申請案號: 102112064 。
2. 發明型專利，低溫燒結微波介電陶瓷材料與製造方式，**馮奎智**、曹中亞、林建基、程權金，申請案號: 104120430。
3. 發明型專利，低溫共燒陶瓷微波介電材料，**馮奎智**、曹中亞、賴育賢、林建基，申請案號: 201510794203.7。
4. 新型專利，低溫共燒之陶瓷電子元件結構，**馮奎智**、王世豪、賴育賢、曹中亞、陳惠如，申請案號: 104218488。