

期刊論文(Journal Paper)

1. **Chu C.S.** and Lin C.A., "Optical fiber sensor for dual sensing of temperature and oxygen based on PtTFPP/CF embedded in sol-gel matrix" Revised for Sens. Actuators B Chem. [NSC 102-2221-E-131 -013]
2. ***C. S. Chu**, T. W. Sung and Lo, Y.L., "Enhanced optical oxygen sensing properties based on Pt(II) complex and silica-coated metal nanoparticles embedded in sol-gel matrix" Sens. Actuators B Chem. 185 (2013) 287-292. (SCI, EI) (Impact factor: 3.535 ; 3/57 (Instruments & Instrumentation)) [NSC 101-2221-E-131-012]
3. ***Chu, C.S.** "Optical fiber oxygen sensor based on Pd(II) complex embedded in sol-gel matrix" J. Lumines. 135 (2013) 5-9. (SCI, EI) (Impact factor: 2.144 ; 17/79 (Optics)) [NSC 100-2221-E-131-021]
4. ***Chu, C.S.** "Optical fiber oxygen sensor based on Ru(II) complex and porous silica nanoparticles embedded in sol-gel matrix" Key Engineering Materials 516 (2012) 612-617. (EI) [NSC 99-2218-E-131-001]
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15. **Chu, C.S.** and *Lo, Y.L., “A Plastic Optical Fiber Sensor for the Dual Sensing of Temperature and Oxygen” IEEE Photon. Technol. Lett., 20 (2008) 63-65. (Citation number : **14** ; Impact factor: 2.038 ; 46/242 (Engineering, Electrical & Electronic))
16. **Chu, C.S.** and *Lo, Y.L., “Fiber Optic Carbon Dioxide Sensor Based on Fluorinated Xerogels Doped With HPTS” Sens. Actuators B Chem. 129 (2008) 120-125. (SCI, EI) (Citation number : **30** ; Impact factor: 3.535 ; 3/57 (Instruments & Instrumentation))
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會議論文

1. ***Chu C.S.**, “Highly sensitive optical fiber oxygen sensor based on Pt(II) complex and metal-coated silica nanoparticles embedded in sol-gel matrix embedded in sol-gel matrix” 9th International Conference on Optics-photonics Design & Fabrication, 2014., FEB. 12-14, 13S2-05, 2014. [NSC 102-2221-E-131 -013]
2. 朱承軒、朱思維、林廷勳, “可攜式相位解析光學氧氣感測器之研究,”

中國機械工程師學會第三十屆全國學術研討會，DEC. 6-7, A-45, 2013.

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4. 朱承軒、莊智詠, "比例強度式光學溶氧感測器", 第十一屆台塑關係企業應用技術研討會, JUN. 28, G10, 2013.
5. 朱承軒、林哲安, "光學式溫度與氧氣雙感測器", 第十一屆台塑關係企業應用技術研討會, JUN. 28, G32, 2013.
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10. 朱承軒、莊智偉, "高靈敏度光學式氧氣感測器," 第十屆台塑企業應用工程技術研討會-研發實務競賽, JUNE 28, B4-31, 2012.
11. *Chu, C.S. "Optical fiber oxygen sensor based on Ru(II) complex and porous silica nanoparticles embedded in sol-gel matrix" 4th International Conference of Asia Society for Precision Engineering and Nanotechnology, 2011. [NSC 100-2221-E-131-021]
12. 朱承軒、朱思維, "可攜式光學氧氣感測器," 第九屆台塑企業應用工程技術研討會-研發實務競賽, JUNE 23, G-16, 2011.
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 19. *Lo, Y.L. and Chu C.S., "High Performance Fiber-Optic Oxygen Sensor Based on Fluorinated Xerogels Doped with Pt(II) Complex" OPT 2007 台灣光電科技研討會, 2007
 20. *Lo, Y.L., Yur J.P., Chu C.S., "Design on Nano-Scale O₂ And CO₂ Glass Optical Fiber Gas Sensors with High Sensitivity (I)", 第 15 屆國防科技學術研討會論文集, 論文編號 : E041, pp.183~188, 桃園龍潭, 中華民國 95 年 11 月 30 日至 12 月 1 日。(國科會計畫編 NSC-95-2623-7-168-001-D)
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研究計畫及建教案

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著作

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之研究, 國立成功大學機械工程學系, 2009

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1. 朱承軒,『多孔洞二氧化矽奈米粒子提升光學式氧氣感測器之設計』, 研究精
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