

一、簡歷

1.1 基本資料

姓名	劉益銘	英文 姓名	Liu, Yih-Ming	學歷	材 料 博 士	
研究室	研究大樓 研 323 室					
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1.2 主要學歷

學校名稱	主修學門系所	學位	起訖年月(西元年/月)
國立台灣大學	材料科學與工程學研究所	博士	自 1996/ 8 至 2000/ 7

1.3 現職及與專長相關經歷

服務機構	服務部門/系所	職稱	起迄年月(西元年/月)
國防大學理工學院	國防科學研究所	教授兼國科所所長	2019/ 7 迄今
國防大學理工學院	化學及材料工程學系	教授兼系主任	2016 / 2 至 2019 / 1
國防大學理工學院	化學及材料工程學系	教授	2010 / 2 迄今

1.4 主要專長

奈米碳材成長及應用	軍用材料開發	金屬表面處理	防蝕工程
材料破損分析	場發射元件		

1.5 榮譽事蹟

1. 94 年度國防部優良教師。(2005)
2. 94 年度國防大學理工學院優良教師。(2005)
3. 97 年度國防大學理工學院優良教師。(2008)
4. 102年國防大學優良教師。(2013)
5. 104 年度國防大學理工學院優良導師。(2015)
6. 106年度國防部優良教師。(2017)

7. 台灣精碳產業協會常務監事 (2013/02~迄今)
8. 2019年國防大學優良教師。
9. 2019年獲頒陸軍軍種獎狀。
10. 2021年獲頒國防大學理工學院校友楷模。

二、教學與服務重點摘要

2.1 任教課程

本人近五年教授研究所及大學部之課程計有「物理冶金 I」、「結晶繞射概論」、「熱處理學」、「材料熱力學」、「材料破損分析」、「材料分析原理與應用」、「材料破壞學」及「鋼鐵加工及熱處理實務」等課程。

2.2 近年來重要服務事項

1. 擔任本院與交大合作學程共同副院長
2. 擔任國防科學研究所所長
3. 擔任化材系系主任。
4. 擔任化材系工程認證小組召集人，推動系上之教育工程認證工作。
5. 擔任化材系系教評委員及系課程委員等各委員會召集人。
6. 擔任本院院教評委員及各院級委員會委員。
7. 擔任本院中正嶺期刊執行委員。
8. 擔任本院應用科技研究群副主持人。
9. 擔任本院專利補助審查委員會委員。
10. 擔任國防科技研討會審稿委員及會場主持人。
11. 擔任民間學術團體「台灣精碳協會」之常務監事。
12. 擔任國防科技學術學會監事。
13. 長期擔任警政署槍械與彈藥採購相關業務諮詢及測射驗收委員。
14. 擔任台北市刑事警察局防彈裝備購案審查委員。
15. 擔任海巡署抗彈板購案審查委員。

三、研究績效

3.1 近五年參與計畫

項次	計畫名稱	計畫內擔任工作	起迄日期	預算金額	補助機構
1	國造槍枝零件鎳硼鍍膜表面黑化研究 (110-2221-E-606-006-)	主持人	2021.8.1~ 2022.7.31	1,188,000	科技部
2	新世代鎂鋰合金Mn-Ce基化成液之老化機制分析及導入小型量產驗證	主持人	2020.8.1~ 2022.7.31	2,064,000	科技部

	(109-2221-E-606-011-MY 2)				
3	奈米碳材場發射微型X光燈泡電極構型設計模擬與驗證 (108-2221-E-606-009-)	主持人	2019.8.1~ 2020.7.31	962,000	科技部
4	以高強度環保Ni-B合金複合鍍膜應用於國造T75K3手槍槍管內膛之研究(I) (108-2623-E-606-007 -D)	主持人	2019.1.1~ 2019.12.31	800,000	科技部
5	化學鍍鎳硼合金鍍膜應用於國造槍械之特性分析 (107-2221-E-606-001-)	主持人	2018.8.1~ 2019.7.31	745,000	科技部
6	碳基複合材料輕量化槍管之研發 - 以國造T75手槍為例 (II)	共同主持人	2018/04/01~ 2019/03/31	1,500,000	國防工業發展基金會
7	具多孔洞與高比表面積之石墨烯應用於電磁波吸波材料之研究 (106-2623-E-606-003-D)	主持人	2017/01/01~ 2017/12/31	865,000	科技部
8	長效奈米螺旋線圈陰極場發射微型X-ray 燈泡開發(II)(105-2221-E-606-014-)	主持人	2016/08/01~ 2017/07/31	713,000	科技部
9	高緻密度碳碳複合材料之開發研究 (105-2623-E-606-008-D)	主持人	2016/01/01~ 2016/12/31	752,000	科技部
10	新穎短波長場發射型紫外線燈源開發 (104-2221-E-606-011-)	主持人	2015/08/01~ 2016/07/31	773,000	科技部
11	化學沉積鎳基自潤性複合鍍層應用於線性滑軌之製程開發研究 (104-2622-E-606-002-CC2)	主持人	2015/02/01~ 2016/01/31	817,000	科技部
12	具長效抗蝕、耐磨與自潤滑功能性鍍膜應用於國造步槍之研究	共同主持人	2018/01/01~ 2019/12/31	3,200,000	國防部軍備局生產製造中心第二〇五廠

13	碳基複合材料輕量化槍管之研發－以國造T75手槍為例 (I)	共同主持人	2017/04/01～ 2018/03/31	1,500,000	國防工業 發展基金 會
14	疏水抗蝕耐磨耗鉻碳鍍層應用於國造步槍瓦斯傳動系統研究	主持人	2016/05/01～ 2017/04/30	790,000	國防部軍 備局生產 製造中心 第二〇五 廠

3.2 論文著述

(A)期刊論文

1. Cheng-Hung Shih , Chang-Pin Chang , **Yih-Ming Liu** , Yu-Liang Chen, Ming-Der Ger, “Ballistic performance of shear thickening fluids (STFs) filled paper honeycomb panel: effects of laminating sequence and rheological property of STFs”, *Applied Composite Materials*, Accepted. SCI
2. Yu-Ren Huang, Cheng-Lung Chen, Nen-Wen Pu, Chia-Hung Wu, **Yih-Ming Liu**, Ying-Hsueh Chen, Meng-Jey Youh, Ming-Der Ger* (2020, Nov). Title: Experimental and Modeling Analysis of Holey Graphene Electrodes for High-Power-Density Li-Ion Batteries. *Crystals*, 10, 1063. (SCI)
3. Meng-Jey Youh , Chun-Shuan Lin, Nen-Wen Pu, **Yih-Ming Liu***, Ru-Yi Youh, Hao-Qian Li, Pei-Yu Tang, Ming-Hsien Lin, Ming-Der Ger, “Comparison of field emission performances and durability of three nanocarbon materials”, *Vacuum* 177 (2020) 109382, pp.1-8, SCI
4. Jun-Bin Huang, Jagabandhu Patra, Ming-Hsien Lin, Ming-Der Ger*, **Yih-Ming Liu**, Nen-Wen Pu*, Chien-Te Hsieh, Meng-Jey Youh, Quan-Feng Dong and Jeng-Kuei Chang* (2020, Apr). A Holey Graphene Additive for Boosting Performance of Electric Double-Layer Supercapacitors. *Polymers* , 12, 765. (SCI).
5. An-Yu Cheng , Hung-Hua Sheu, **Yih-Ming Liu**, Kung-Hsu Hou, Pei-Yi Hsieh, Ming-Der Ger (2020), “Effect of Pretreatment Process on the Adhesion and Corrosion Resistance of Nickel-Boron Coatings Deposited on 8620H Alloy Steel”, *Int. J. Electrochem. Sci.*, 15, 68 – 79. SCI
6. 許建皇、許宏華、**劉益銘**、侯光照、張兼榕、簡順億、林明憲、林崑逢、傅淳貴、葛明德(2018. 11), ”以電化學沉積法沉積 Cr-C、Ni-P 及 Ni-B 合金鍍層於國軍步槍零件之研究”, 中正嶺學報, 第 47 卷 第 2 期. Pp.61-66 (EI)
7. Hung-Hua Sheu, Jian-Huang Syu, **Yih-Ming Liu** , Kung-Hsu Hou , Ming-Der Ger (2018, Mar), “A Comparison of the Corrosion Resistance and Wear Resistance Behavior of Cr-C, Ni-P and Ni-B Coatings Electroplated on 4140 Alloy Steel”, *Int. J. Electrochem. Sci.*, 13, 3267 – 3278. SCI
8. Nen-Wen Pu, Chun-Yu Chen, Hao-Xiang Qiu, **Yih-Ming Liu**, Cheng-Han Song, Ming-Hsien Lin, Ming-Der Ger(2018, Jul), “Hydrothermal Synthesis of N-Doped Graphene/Fe₂O₃ Nanocomposite for Supercapacitors”, *International Journal of Electrochemical Science*, 13(7):6812-6823. SCI
9. Chia-Hung Wu, Nen-Wen Pu, **Yih-Ming Liu**, Chun-Yu Chen, You-Yu Peng, Tsai-Yi Cheng, Ming-Hsien Lin, Ming-Der Ger* (2017, Nov), “Improving rate capability of lithium-ion

- batteries using holey graphene as the anode material “, Journal of the Taiwan Institute of Chemical Engineers, 80, 511-517. (IF = 2.637) (SCI, EI). 23/133, ENGINEERING, CHEMICAL.
10. Chun-Yu Chen, Nen-Wen Pu, Yih-Ming Liu, Li-Hang Chen, Chia-Hung Wu, Tsai-Yi Cheng, Ming-Hsien Lin, Ming-Der Ger, Yann-Jang Gong, You-Yu Peng, Peter M. Grubb, Ray T. Chen, Feb. 2018, “Microwave absorption properties of holey graphene/silicone rubber composites,” Compos Part B-Eng **135**, pp.119-128. (IF = 4.727) (SCI). 3/85, ENGINEERING, MULTIDISCIPLINARY
 11. Chun-Yu Chen, Nen-Wen Pu, Yih-Ming Liu, Sheng-Yao Huang , Chia-Hung Wu, Ming-Der Ger, Yan-Jhang Gong, Yu-Chieh Chou, “Remarkable microwave absorption performance of graphene at a very low loading ratio” , Composites Part B-Eng, 114, pp.395-403, (2017). SCI (Impact Factor 4.727)
 12. Po-Chiang Wang, Yih-Ming Liu, Chang-Pin Chang, Yeh-Yu Liao, You-Yu Peng, Ming-Der Ger* (2017, Nov). A laser curable palladium complex ink used for fabrication of copper pattern on polyimide substrate . *Journal of the Taiwan Institute of Chemical Engineers*, 80, 963-969. (SCI).
 13. Pu, Nen-Wen, Chou, Yi-Ping, Liu, Yih-Ming, Ger, Ming-Der, Hou, Kung-Hsu, Youh, Meng-Jey, “Helical-Cathode Bulb-Shaped Field Emission Lamps Using Carbon Nanocoil Electron Emitters”, Journal of Nanoscience and Nanotechnology, Volume 17, Number 2, February 2017, pp. 1076-1082(7). . SCI (Impact Factor 1.25)
 14. Po-Chiang Wang, Chang-Pin Chang, Meng-Jey Youh, Yih-Ming Liu, Chung-Ming Chu, Ming-Der Ger (2016) " The preparation of pH-sensitive Pd catalyst ink for selective electroless deposition of copper on a flexible PET substrate," Journal of the Taiwan Institute of Chemical Engineers, **60**, 555-563 (2016).. SCI (Impact Factor 3.000)
 15. Kevin Cheng, Yi-Ping Chou, Meng-Jey Youh, Yih-Ming Liu*, Ming-Der Ger, Kung-Hsu Hou and Nen-Wen Pu (2015) “Fabrication and Simulation of Self-Focusing Field Emission X-ray Tubes ,” Applied sciences, **5**, 942-954. SCI (Impact Factor 1.484) 2015/10
 16. Wen-Ko Huang, Kun-Ju Chung, Yih-Ming Liu*, Ming-Der Ger, Nen-Wen Pu, Meng-Jey Youh(2015) "Carbon nanomaterials synthesized using a spray pyrolysis method," *Vacuum* , **118**, 94-99. SCI (Impact Factor 1.858) 2015/07
 17. Kun-Ju Chung, Nen-Wen Pu, Meng-Jey Youh, Yih-Ming Liu, Ming-Der Ger, Wen-Ko Huang (2015) "Improvement of Lighting Uniformity and Phosphor Life in Field Emission Lamps Using Carbon Nanocoils," *Journal of Nanomaterials*, V.2015, ID 373549, 1-9. SCI (Impact Factor 1.644) 2015/05
 18. Nen-Wen Pu, Gia-Nan Shi, Yih-Ming Liu, Xueliang Sun, Jeng-Kuei Chang, Chia-Liang Sun g, Ming-Der Ger, Chun-Yu Chen, Po-Chiang Wang, You-Yu Peng, Chia-Hung Wu, Stephen Lawes (2015) "Graphene grown on stainless steel as a high-performance and ecofriendly anti-corrosion coating for polymer electrolyte membrane fuel cell bipolar plates," Journal of Power Source, 282, 248-256. SCI (Impact Factor 6.217) 2015/05
 19. Chia-Hung Wu, Nen-Wen Pu, Chia-Wei Liao, Bo-Rong Wu, Yih-Ming Liu, Ming-Der Ger (2015) "High-electrical-resistivity thermally-conductive phase change materials prepared by adding nanographitic fillers into paraffin," Microelectronic Engineering, 138, 91-96 SCI (Impact Factor 1.197) 2015/04
 20. Chia-Hung Wu, Nen-Wen Pu, Pei-Ju Wu, You-Yu Peng, Chia-Nan Shih, Chun-Yu Chen, Yih-Ming Liu, Ming-Der Ger (2015) "Performance improvement of lithium ion batteries using magnetite-graphene nanocomposite anode materials synthesized by a microwave-assisted method," Microelectronic Engineering, 138, 47–51 SCI (Impact Factor 1.197) 2015/04
 21. Meng-Jey Youh, Yi-Ping Chou, Yih-Ming Liu, Ming-Der Ger, Kung-Hsu Hou, Nen-Wen Pu, “Modeling and simulation of a new field-emission x-ray tube using a ball-shaped carbon nano-coil cathode,” *Applied Mechanics and Materials*, In press. (EI)
 22. N. W. Pu, M.J. Youh, K. J. Chung, Y.M. Liu*, M. D. Ger (2015). “ Field emission lamps

- prepared with dip-coated and nickel electroless plated carbon nanotube cathodes”, *Journal of Nanoscience and Nanotechnology*. Volume 15, Number 7, July 2015, pp. 5093-5098(6), **SCI** (Impact Factor 1.149)
23. Meng-Jey Youh, Yi-Ping Chou, **Yih-Ming Liu**, Ming-Der Ger, Kung-Hsu Hou, Nen-Wen Pu*, “Simulation and Modeling of the Alignment-Free Field Emission X-ray Tubes,” *Applied Mathematical Modelling*, **39**, 5896-5906. **SCI** (Impact Factor 2.158) 2015/10
 24. You-Yu Peng, **Yih-Ming Liu**, Jeng-Kuei Chang, Chia-Hung Wu, Ming-Der Ger, Nen-Wen Pu, Chien-Liang Chang (2015) "A facile approach to produce holey graphene and its application in supercapacitors," *Carbon*, **81**, 347-376. **SCI** (Impact Factor 6.196) 2015/01
 25. Kun-Ju Chung, Nen-Wen Pu, Meng-Jey Youh, **Yih-Ming Liu***, Ming-Der Ger, Kevin Cheng, Jhih-Cheng Jiang (2015) "Improvement of field-emission-lamp characteristics using nitrogen-doped carbon nanocoils," *Diamond & Related Materials*, **53**, 1–10. **SCI** (Impact Factor 1.572) 2015/03
 26. Chang-Pin Chang, Po-Chiang Wang, Yan-Yu Nian, **Yih-Ming Liu**, Ming-Der Ger, (2014), “Microcontact printing large-area pattern of catalytic Pd ink with a polyelectrolyte modified stamp for selective electroless deposition of nickel on glass substrate”, *Journal of the Taiwan Institute of Chemical Engineers*, **45**, pp.2755-2761. **SCI** (Impact Factor 2.637)
 27. Jia-Nan Shi, Nen-Wen Pu, **Yih-Ming Liu**, Tai-Liang Liu, Yu-Yu Peng, Po-Chiang Wang and Ming-Der Ger, (2014) “Growth of Graphene Films using Polyethylene as A Solid-State Carbon Source”, *Journal of Technology*, Vol.29, No.3, pp.181-186. **EI**
 28. You-Yu Peng, Nen-Wen Pu, Youn-Ming Fu, **Yih-Ming Liu** and Ming-Der Ger, (2014) “Study on the Application of Graphene and Its Composite Materials to Supercapacitors”, *Journal of Technology*, Vol.29, No.3, pp.187-192. **EI**
 29. Wu-Ching Hung, Nen-Wen Pu, **Yih-Ming Liu***, You-Yu Peng, Jia-Nan Shi and Ming-Der Ger, (2014) “Comparison of Graphene Production using Natural Graphite, Artificial Graphite, and Mesophase Carbon Microbeads as Raw Materials”, *Journal of Technology*, Vol.29, No.3, pp.193-198. **EI**
 30. To-Mai Wang, Nen-Wen Pu, **Yih-Ming Liu**, Wen-Ding Chen, Ming-Der Ger, Wen-Cheng Lee, Kin-Seng Sun, Youn-Yuen Shu (2014) "Fabrication of RFID antennas on non-woven slag fiber paper," *Journal of the Taiwan Institute of Chemical Engineers*, Vol.45, pp.242-248. **SCI** (Impact Factor 2.637)
 31. Nen-Wen Pu, You-Yu Peng, Po-Chiang Wang, Chun-Yu Chen, Jia-Nan Shi, **Yih-Ming Liu**, Ming-Der Ger, Chien-Liang Chang (2014) "Application of nitrogen-doped graphene nanosheets in electrically conductive adhesives," *Carbon*, **67**, 449-456. **SCI** (Impact Factor 6.160)
 32. Nen-Wen Pu, Chung-An Wang, **Yih-Ming Liu**, De-Yu Liu, Po-Chiang Wang, and Ming-Der Ger (2013) "Graphene-Supported Platinum Nanoparticles Prepared by a Self-Regulated Reduction Method," *Journal of Nanoscience and Nanotechnology*, **13(8)**, 5702-5707. **SCI** (Impact Factor 1.563)
 33. Gia-Nan Shi, Ming-Der Ger, **Yi-Ming Liu**, Yang-Cheng Fan, Niann-tsy Wen, Chaur-Kie Lin, Nen-Wen Pu (2013) "Improving the thermal conductivity and shape-stabilization of phase change materials using nanographite additives," *Carbon*, **51(1)**, 365-372. **SCI** (Impact Factor 5.868)
 34. Yi-Ping Chou, **Yih-Ming Liu**, Ming-Der Ger, Kun-Ju Chung, Kun-Shi Hou, and Nen-Wen Pu, (2013) “Bulb-Shaped Field Emission Lamps Using Carbon Nano-Coil Cathodes”, *Journal of Nanoscience and Nanotechnology*, Vol. 12, pp.1–7. **SCI** (Impact Factor 1.563)
 35. Chun-Chieh Tseng, Jeou-Long Lee, **Yih-Ming Liu**, Ming-Der Ger, Youn-Yuen Shu (2013) " Microwave-assisted hydrothermal synthesis of spinel nickel cobaltite and application for supercapacitors," *Journal of the Taiwan Institute of Chemical Engineers*, **44**, 415-419. **SCI** (Impact Factor 2.084)
 36. Sung-Ying Tsai, Ching-Yuan Bai, Chien-Hung Lin, Gia-Nan Shi, Kung-Hsu Hou, **Yih-Ming Liu**, Ming-Der Ger, (2012) “The characteristics and performance of electroless nickel and

- immersion Au plated aluminum alloy bipolar plates in polymer electrolyte membrane fuel cells", *Journal of Power Sources*, 214, 51-58. **SCI** (Impact Factor 4.951).
37. Chun-Chieh Tseng, Yu-Hsien Chou, Chung-Ming Liu, **Yih-Ming Liu**, Ming-Der Ger, Youn-Yuen Shu (2012) "Microwave-assisted hydrothermal synthesis of zinc oxide particles starting from chloride precursor," *Materials Research Bulletin*, **47**, 96-100. **SCI** (Impact Factor 2.105).
 38. Nen-Wen Pu, Chung-An Wang, Yuh Sung, **Yih-Ming Liu**, Ming-Der Ger, (2012) " Dispersion of graphene in aqueous solutions with different types of surfactants and the production of graphene films by spray or drop coating," *Journal of the Taiwan Institute of Chemical Engineers*, **43**, 140-146. **SCI** (Impact Factor 2.110)
 39. **Yih-Ming Liu**, Nen-Wen Pu, Wen-Ding Chen, Kun-Hong Lin, Yuh Sung, Ming-Der Ger, Ching-Liang Chang, Te-Liand Tseng, (2012) "Low temperature fabrication of Ni-P metallic pattern on ITO substrates utilizing inkjet printing" *Microelectronics Reliability*, 52, 398-404. **SCI** (Impact Factor 1.167)
 40. Wen-Ding Chen, Chang-Pin Chang, Yuh Sung, **Yih-Ming Liu**, Ming-Der Ger, (2011) "Fabrication of High-Resolution Conductive Line via Inkjet Printing of Nano-Palladium Catalyst onto PET Substrate," *Surface and Coatings Technology*, **205**, 4750-4756. **SCI** (Impact Factor 2.135)
 41. **Y. M. Liu**, Y. C. Fan, Y. C. Chen, Y. Sung, M. D. Ger, (2010), "Carbon Nanotube Field Emission Cathodes Fabricated with Trivalent Chromium Conversion Coated Substrates", *Applied Surface Science*, 256, pp.1731–1734. (**SCI, EI**) (Impact Factor 1.616)
 42. 林明憲, **劉益銘**, (2010) "以 MgO 緩衝層成長高準直性奈米碳管之研究", 中正嶺學報, 第三十九卷 第二期 民國 99.11. (**EI**)
 43. 范雲智, **劉益銘**, 蒲念文, 葛明德, (2009) "陽極氧化鋁基板浸鍍奈米碳管製備場發射陰極之研究", 中正嶺學報, 第三十八卷 第一期 民國 98.11. (**EI**) (NSC-98-2221-E606-006)
 44. Nen-Wen Pu, Chung-An Wang, Yuh Sung, **Yih-Ming Liu**, Ming-Der Ger, (2009) " Production of few-layer graphene by supercritical CO₂ exfoliation of graphite," *Materials Letters*, **63(23)**, pp.1987-1989. (**SCI, EI**). (Impact Factor 1.940) (NSC-97-2221- E606-001)
 45. Y. C. Fan, **Y. M. Liu**, Y. C. Chen, Y. Sung, M. D. Ger, (2009), "Carbon Nanotube Field Emission Cathodes Fabricated with Chemical Displacement Plating", *Applied Surface Science*, 255, 7753 – 7758, (2009). **SCI** (Impact Factor 1.616) (NSC-97-2221-E606-002)
 46. Yu-Hsien Chou, **Yih-Ming Liu**, Yuh Sung, Nen-Wen Pu, Ming-Der Ger, (2009) "Amorphous Ni–Mo–P diffusion barrier deposited by non-isothermal deposition," *Surface & Coatings Technology*, **203(8)**, 1020–1026. **SCI** (Impact Factor 1.793) (NSC 96-2221-E-606-017)
 47. Yu-Hsien Chou, Yuh Sung, **Yih-Ming Liu**, Nen-Wen Pu, Ming-Der Ger, (2008) "Defect-Free Copper Filling Using Non-Isothermal Electroless Deposition with Fluorocarbon Surfactant," *Journal of The Electrochemical Society*, **155(12)**, D791-D797. **SCI** (Impact Factor 2.437) (NSC-93-2214-E- 014-002)
 48. **Yih-Ming Liu**, Yuh Sung, Nen-Wen Pu, Yu-Hsien Chou, Kung-Chen Yeh, Ming-Der Ger, (2008) "Electroless deposition of nickel-phosphorous nano-dots for low-temperature crystallization of amorphous silicon," *Thin Solid Films*, **517(2)**, 727-730. **SCI** (Impact Factor 1.884) (NSC-93-2214-E-014-002)
 49. Yu-Hsien Chou, **Yih-Ming Liu**, Yuh Sung, Chung-An Wang, Ming-Der Ger, (2008) "A Simultaneous Annealing Effect during High-temperature Electroless Copper plating Using the Non-isothermal Deposition Method," *Materials Letters*, **62(29)**, 4461-4463. **SCI** (Impact Factor 1.748) (NSC-93-2214-E- 014-002)
 50. J. Y. Wang, W. K. Chen, **Y. M. Liu**, M. D. Ger, (2008) "Microstructure and Corrosion Resistance of Anodized LZ91 Magnesium Alloy", *Materials Transactions*, **49**, 1355-1358. **SCI** (Impact Factor 0.753) (NSC 96-2622-E-606-001-CC3)

(B)專利

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