

五、論文著述：

1. 請詳列個人最近五年內發表之學術性著作，包括：期刊論文、專書及專書論文、研討會論文、技術報告及其他等，並請依各類著作之重要性自行排列先後順序。
2. 各類著作請按發表時間先後順序填寫。各項著作請依作者姓名（按原出版之次序）、出版年、月份、題目、期刊名稱（專書出版社）、起迄頁數之順序填寫，被接受刊登尚未正式出版者請附被接受函。
3. 若期刊屬於 SCI、EI、SSCI 或 A&HCI 等時，請註明；若著作係經由國科會補助之研究計畫所產生，請於最後填入相關之國科會計畫編號。
4. 論文著述(表 C302)，請採 MS Word 97(含)以上版本輸入資料，並將輸入的檔案以 E-Mail 方式傳遞本會。E-Mail 位址：nscapply@nsc.gov.tw，Mail 之主旨請註明 C302, "身分證號碼"。

A1. 期刊論文

1. Chun-Lang Yeh, 2016, "The Effect of Fuel Mass Fraction on the Combustion and Fluid Flow in a Sulfur Recovery Unit Thermal Reactor", accepted for publication in *Applied Sciences*. (SCI) (MOST105-2221-E-150-021-)
2. Chun-Lang Yeh, 2016, "Numerical Analysis of the Effects of Streamlining Geometry and a Vector Wall on the Thermal and Fluid Flow in a SRU Thermal Reactor", accepted for publication in *Transactions of the Canadian Society for Mechanical Engineering*. (SCI) (MOST104-2221-E-150-032-)
3. Chun-Lang Yeh, 2016, "Effect of Choke Ring Dimension on Thermal and Fluid Flow in a SRU Thermal Reactor", accepted for publication in *Transactions of the Canadian Society for Mechanical Engineering*. (SCI) (MOST104-2221-E-150-032-)
4. Chun-Lang Yeh, July, 2015, "Effect of Choke Ring Position on Thermal and Fluid Flow in a SRU Thermal Reactor", *International Journal of Mechanical Engineering and Robotics Research* (ISSN: 2278-0149), Vol.4, No.3, pp.273-277. (Scopus) (MOST104-2221-E-150-032-)
5. 葉俊郎，孫培恩，林行通，May, 2015，"一氧化碳鍋爐脫硫段飼水效應

- 數值研究”，*中華民國燃燒季刊*，Vol.89, pp.4-16.
6. Chun-Lang Yeh, 2015, “Analysis of DeNO_x by SNCR in a Carbon Monoxide Boiler”, *International Journal Applied Mechanics and Materials* (ISSN: 1660-9336), Vol.764-765, pp.413-417. (EI) (MOST102-2221-E-150-031-)
 7. Chun-Lang Yeh, December, 2014, “Effect of Reagent Injection Amount and Hole Size on NO_x Reduction by SNCR in a CO Boiler”, *International Journal of Advancements in Mechanical and Aeronautical Engineering* (ISSN: 2372-4153), Vol.1, Issue 4, pp.68-73. (MOST102-2221-E-150-031-)
 8. Chun-Lang Yeh, August, 2014, “SO_x Reduction by Feedwater in an Industrial Boiler”, *International Journal Applied Mechanics and Materials* (ISSN: 1660-9336), Vol.619, pp.135-141. (EI) (MOST102-2221-E-150-031-)
 9. Chun-Lang Yeh, June, 2014, “Numerical Investigation of Reburning Flow in a Carbon Monoxide Boiler”, *Numerical Heat Transfer, Part A*, Vol. 66, pp. 622-645. (EI, SCI) (MOST102-2221-E-150-031-)
 10. Chun-Lang Yeh and Chin-Wen Liang, December, 2013, “NO_x Reduction in a Carbon Monoxide Boiler by Reburning”, *Procedia Engineering* (ISSN: 1877-7058), Vol.67, pp.378-387. (EI) (MOST102-2221-E-150-031-)
 11. Chun-Lang Yeh, April, 2013, “Numerical Analysis of the Combustion and Fluid Flow in a Carbon Monoxide Boiler”, *International Journal of Heat and Mass Transfer*, Vol.59, pp.172-190. (EI, SCI) (NSC101-2221-E-150-017-)
 12. Chun-Lang Yeh, February, 2013, “Numerical Analysis of Reacting Flow in a Carbon Monoxide Boiler”, *Proceedings of the 2nd Annual International Conference on Computational Mathematics, Computational Geometry & Statistics* (Print ISSN: 2251-1911, E-Periodical ISSN: 2251-192X), February, 04-05, 2013, Singapore. (NSC101-2221-E-150-017-)
 13. Chun-Lang Yeh, January, 2013, “Numerical Study of the Influence of Refractory Thickening on the Reacting Flow and DeNO_x Effect in a CO Boiler”, *International Journal Applied Mechanics and Materials* (ISSN: 1660-9336), Vol.284-287, pp.861-866. (EI) (NSC100-2221-E-150-047-)

14. Chun-Lang Yeh, December, 2012, “Chemical Reaction and Fluid Flow in a Carbon Monoxide Boiler (II) Chemical Reaction Analysis”, *International Journal Advanced Materials Research* (ISSN:1022-6680), Vol.581-582, pp.19-26. (EI) (NSC100-2221-E-150-047-)
15. Chun-Lang Yeh, August, 2012, “Computation of the Heat Transfer and Fluid Flow in a Carbon Monoxide Boiler”, *The 6th Asian Conference on Refrigeration and Air Conditioning, ACRA2012*, pp.1-8. (EI)
16. Chun-Lang Yeh, June, 2012, “Numerical Investigation of the Heat Transfer and Fluid Flow in a Carbon Monoxide Boiler”, *International Journal of Heat and Mass Transfer*, Vol.55, Issues 13-14, pp.3601-3617. (EI, SCI) (NSC100-2221-E-150-047-)
17. 葉俊郎，王中皓，駱正穎，May, 2012，“強風作用下工業煙囪破壞現象探討”，*化工技術月刊*，Vol.20, No.5, pp.146-170. (ISSN：1814-9154)
18. Chun-Lang Yeh, July, 2011, “Analysis of the Instability for Two Nano-Scale Liquid Threads Coexisting in a Periodic Fundamental Cell”, *Proceedings of the ASME-JSME-KSME 2011 Joint Fluids Engineering Conference, AJK2011*, Vol.1, Parts A, B, C, D, pp.2439-2448. (EI) (NSC99-2221-E-150-028-)
19. 葉俊郎，2011 年 3 月，“一氧化碳鍋爐熱流場數值模擬研究：(二) 增厚防火泥對於燃燒流場影響之探討”，*國立虎尾科技大學學報*，Vol.30, No.1, pp.1-12. (ISSN：1993-7571) (NSC99-2221-E-150-028-)

A2. 專書論文

1. Chun-Lang Yeh, February, 2016, “Analysis of the Effects of Fuel Mass Fraction on Operation of a SRU Thermal Reactor”, pp. 764-776, *Proceedings of the International Conference on Applied Sciences (ICAS-2016)*, Edited by Hyoungeop Kim (Edited Book), Higher Education Forum, Taiwan. (ISBN: 978-986-5654-34-4) (MOST104-2221-E-150-032-)

2. Chun-Lang Yeh, August, 2014, “Effect of Reagent Injection Amount and Hole Size on NO_x Reduction by SNCR in a CO Boiler”, pp.37-42, *Proceedings of the International Conference On Advances in Mechanical, Aeronautical And Production Technique* (MAPT-2014), Edited by Rakesh Kumar (Edited Book), Copyright © Institute of Research Engineers and Doctors, CA, USA. (ISBN: 978-1-62348-008-8) ; doi:10.15224/978-1-63248-008-8-85 (MOST102-2221-E-150-031-)
3. Chun-Lang Yeh, Oct, 1, 2014, “SO_x Reduction by Feedwater in an Industrial Boiler”, Chapter 1, pp.135-141, *Mechanical Engineering, Mechanical and Electrical Technology VI*, Edited by Nopbhorn Leeprechanon, Kalipada Maity, and Guanghsu Chang (Edited Book) , Trans Tech Publications Ltd, Switzerland. (ISBN: 978-3-03835-205-1) (MOST102-2221-E-150-031-)
4. Chun-Lang Yeh, January, 2014, “Parametric Study of NO_x Reduction By Reburning in a Carbon Monoxide Boiler”, pp.8-15, *International Conference Proceedings of PSRC: B. 4th International Conference on Mechanical, Automotive and Materials Engineering* (ICMAME'2014) (Edited Book), Planetary Scientific Research Centre, Bangkok, Thailand. (ISBN:978-93-82242-70-3) (MOST102-2221-E-150-031-)
5. Chun-Lang Yeh, April, 2012, “Analysis of the Atomization Process from both the Navier-Stokes Equations and the Molecular Dynamics Simulation”, Chapter 16, pp.341-388, *Molecular Dynamics – Studies of Synthetic and Biological Macromolecules*(Edited Book), InTech - Open Access Publisher, Croatia. (ISBN: 979-953-307-865-5) (NSC100-2221-E-150-047-)

B1. 國際(含中國大陸)研討會論文

1. Chun-Lang Yeh, 2016, “The Effect of Fuel Mass Fraction on the Combustion and Fluid Flow in a Sulfur Recovery Unit Thermal Reactor”, *The Fifth International Multi-Conference on Engineering and Technology Innovation*

- 2016 (IMETI2016), October 28-November 01, 2016, Taichung, Taiwan. (MOST105-2221-E-150-021-)
2. Chun-Lang Yeh, 2016, “The Effect of Inlet Air Quantity and Inlet Oxygen Mole Fraction on the Combustion and Fluid Flow in a Sulfur Recovery Unit Thermal Reactor”, *The Fifth International Multi-Conference on Engineering and Technology Innovation 2016* (IMETI2016), October 28-November 01, 2016, Taichung, Taiwan. (MOST105-2221-E-150-021-)
 3. Chun-Lang Yeh, 2016, “The Effects of Single and Double Choke Rings on Combustion and Fluid Flow in a Sulfur Recovery Unit Thermal Reactor”, *The Fifth International Multi-Conference on Engineering and Technology Innovation 2016* (IMETI2016), October 28-November 01, 2016, Taichung, Taiwan. (MOST105-2221-E-150-021-)
 4. Chun-Lang Yeh, 2016, “Numerical Investigation of the Combustion and Fluid Flow in a Sulfur Recovery Unit Thermal Reactor”, *2016 8th International Conference on Mechanical and Electrical Technology* (ICMET2016), July 2-3, 2016, Sun Moon Lake, Taiwan.
 5. Chun-Lang Yeh, February, 2016, “Analysis of the Effects of Fuel Mass Fraction on Operation of a SRU Thermal Reactor”, pp. 764-776, *Proceedings of the International Conference on Applied Sciences* (ICAS-2016), February 01-February 03, 2016, Fukuoka, Japan. (MOST104-2221-E-150-032-)
 6. Chun-Lang Yeh, 2015, “Effect of Choke Ring Dimension on Thermal and Fluid Flow in a SRU Thermal Reactor”, *International Multi-Conference on Engineering and Technology Innovation 2015* (IMETI2015), October 30-November 03, 2015, Kaohsiung, Taiwan. (MOST104-2221-E-150-032-)
 7. Chun-Lang Yeh, 2015, “Effect of a Vector Wall on the Thermal and Fluid Flow in a SRU Thermal Reactor”, *International Multi-Conference on Engineering and Technology Innovation 2015* (IMETI2015), October 30-November 03, 2015, Kaohsiung, Taiwan. (MOST104-2221-E-150-032-)
 8. Chun-Lang Yeh, 2015, “Effect of Streamlining Geometry on Thermal and

- Fluid Flow in a SRU Thermal Reactor”, *International Multi-Conference on Engineering and Technology Innovation 2015* (IMETI2015), October 30-November 03, 2015, Kaohsiung, Taiwan. (MOST104-2221-E-150-032-)
9. Chun-Lang Yeh, 2015, “Effect of Choke Ring Position on Thermal and Fluid Flow in a SRU Thermal Reactor”, *2015 7th International Conference on Mechanical and Electrical Technology* (ICMET2015), July 1-2, 2015, Bali, Indonesia.
 10. Chun-Lang Yeh, 2014, “Analysis of DeNOx by SNCR in a Carbon Monoxide Boiler”, *The 3rd International Conference on Engineering and Technology Innovation* (ICETI2014), October 31-November 4, 2014, Kenting, Taiwan. (MOST102-2221-E-150-031-)
 11. Chun-Lang Yeh, August, 2014, “Effect of Reagent Injection Amount and Hole Size on NOx Reduction by SNCR in a CO Boiler”, *The International Conference On Advances in Mechanical, Aeronautical And Production Technique* (MAPT-2014), August 2-3, 2014, Kuala Lumpur, Malaysia. doi: 10.15224/ 978-1-63248-008-8-85 (MOST102-2221-E-150-031-)
 12. Chun-Lang Yeh, July, 2014, “SOx Reduction by Feedwater in an Industrial Boiler”, *2014 6th International Conference on Mechanical and Electrical Technology* (ICMET2014), July 17-18, 2014, Bangkok, Thailand. (MOST102-2221-E-150-031-)
 13. Chun-Lang Yeh, January, 2014, “Parametric Study of NOx Reduction By Reburning in a Carbon Monoxide Boiler”, *The 4th International Conference on Mechanical, Automotive and Materials Engineering* (ICMAME'2014), January 28-29, 2014, Bangkok, Thailand. (MOST102-2221-E-150-031-)
 14. Chun-Lang Yeh and Chin-Wen Liang, May, 2013, “NOx Reduction in a Carbon Monoxide Boiler by Reburning”, *The 7th Asian-Pacific Conference on Aerospace Technology and Science* (APCATS2013), May 23-26, 2013, Taiwan. (NSC101-2221-E-150-017-)
 15. Chun-Lang Yeh, February, 2013, “Numerical Analysis of Reacting Flow in a

- Carbon Monoxide Boiler”, *The 2nd Annual International Conference on Computational Mathematics, Computational Geometry & Statistics* (CMCGS2013), February, 04-05, 2013, Singapore. (NSC101-2221-E-150-017-)
16. Chun-Lang Yeh, December, 2012, “Chemical Reaction and Fluid Flow in a Carbon Monoxide Boiler (II) Chemical Reaction Analysis”, *2012 International Conference on Chemical Engineering, Metallurgical Engineering and Metallic Materials* (CMMM2012), December, 28-29, 2012, Xiamen, China. (NSC100-2221-E-150-047-)
17. Chun-Lang Yeh, November, 2012, “Numerical Study of the Influence of Refractory Thickening on the Reacting Flow and DeNO_x Effect in a CO Boiler”, *The 2nd International Conference on Engineering and Technology Innovation* (ICETI2012), November, 02-06, 2012, Kaohsiung, Taiwan. (NSC100-2221-E-150-047-)
18. Chun-Lang Yeh, July 24-29, 2011, “Analysis of the Instability for Two Nano-Scale Liquid Threads Coexisting in a Periodic Fundamental Cell”, *The ASME-JSME-KSME Joint Fluids Engineering Conference 2011* (AJK2011), Hamamatsu, Japan. (NSC99-2221-E-150-028-)

B2. 國內研討會論文

1. Chun-Lang Yeh and Chong-Yun Wang, December 5, 2015, “Effects of Fuel Mass Fraction on Thermal and Fluid Flow in a SRU Thermal Reactor”, *2015 中華民國航太學會學術研討會*, 雲林。(MOST104-2221-E-150-032-)
2. Chun-Lang Yeh and Chong-Yun Wang, December 5, 2015, “Effects of Inlet Air Quantity on Thermal and Fluid Flow in a SRU Thermal Reactor”, *2015 中華民國航太學會學術研討會*, 雲林。(MOST104-2221-E-150-032-)
3. Chun-Lang Yeh and Jieh Huang, December 5, 2015, “Effects of Inlet O₂ Mole Fraction on Thermal and Fluid Flow in a SRU Thermal Reactor”, *2015 中華*

民國航太學會學術研討會，雲林。(MOST104-2221-E-150-032-)

4. 葉俊郎，孫培恩，林行通，April, 19, 2014, “一氧化碳鍋爐脫硫段飼水效應數值研究”，中華民國燃燒學會年會暨第24屆燃燒與能源學術研討會，台南。(MOST102-2221-E-150-031-)
5. Chun-Lang Yeh and Pei-En Sun, November 30, 2013, “Simulation of NO_x reduction by reburning in a carbon monoxide boiler”, 2013 中華民國航太學會學術研討會，新北。(MOST102-2221-E-150-031-)
6. 葉俊郎，梁競文，陳冠旭，August, 2013, “再燃燒技術於一氧化碳鍋爐脫硝應用之數值模擬研究”，第20屆全國計算流體力學研討會，南投。(MOST102-2221-E-150-031-)
7. 葉俊郎，簡國財，梁競文，December 15, 2012, “一氧化碳鍋爐燃燒流場數值分析”，2012 中華民國航太學會學術研討會，新竹。(MOST101-2221-E-150-017-)
8. 葉俊郎，簡國財，梁競文，August, 2012, “一氧化碳鍋爐燃燒流場與氮氧化物生成之研究”，第19屆全國計算流體力學研討會，澎湖。(NSC101-2221-E-150-017-)
9. 葉俊郎，簡國財，April, 21, 2012, “增厚耐火泥對於一氧化碳鍋爐脫硝效果之研究”，中華民國燃燒學會年會暨第22屆燃燒與能源學術研討會，高雄。(NSC100-2221-E-150-047-)
10. 葉俊郎，簡國財，November 5, 2011, “一氧化碳鍋爐耐火泥增厚對其熱傳流場影響之探討”，2011 中華民國航太學會學術研討會，台中。(NSC100-2221-E-150-047-)
11. 葉俊郎，莊岱儒，August, 2011, “裝設導流錐對於一氧化碳鍋爐熱傳流場影響之研究”，第18屆全國計算流體力學研討會，宜蘭。(NSC100-2221-E-150-047-)
12. 葉俊郎，莊岱儒，March, 26, 2011, “增厚防火泥對於一氧化碳鍋爐熱傳流

場影響之研究”，中華民國燃燒學會第二十一屆學術研討會，雲林。

(NSC99-2221-E-150-028-)

13. 葉俊郎，簡國財，March, 26, 2011, “增厚防火泥對於一氧化碳鍋爐燃燒流

場影響之研究”，中華民國燃燒學會第二十一屆學術研討會，雲林。

(NSC99-2221-E-150-028-)

C. 技術報告及其他

- 1.葉俊郎（主持人），8/1/2010~7/31/2011，“高效率低污染一氧化碳鍋爐氧

化段與脫硝段設計與分析(I)”，國科會計畫報告，編號：

NSC99-2221-E-150-028-

- 2.葉俊郎（主持人），8/1/2011~1/07/2013，“高效率低污染一氧化碳鍋爐氧

化段與脫硝段設計與分析(II)”，國科會計畫報告，編號：

NSC100-2221-E-150-047-

- 3.葉俊郎（主持人），8/1/2012~7/31/2013，“高效率低污染一氧化碳鍋爐氧

化段與脫硝段設計與分析(III)”，國科會計畫報告，編號：

NSC101-2221-E-150-017-

- 4.葉俊郎（主持人），8/1/2013~8/31/2014，“一氧化碳鍋爐硫氧化物與煙灰

之生成與抑制數值模擬分析(I)”，科技部計畫報告，編號：

MOST102-2221-E-150-031-

- 5.葉俊郎（主持人），8/1/2015~8/31/2016，“硫回收裝置熱反應爐效能提升

與汙染分析(I)”，科技部計畫報告，編號：MOST104-2221-E-150-032-

- 6.葉俊郎（主持人），11/1/2010~6/30/2011，“台塑石化公司轉化廠 OCT 單

元加熱爐 H-6691 煙囪裝設 TMD 減振裝置監測評估”，產業界委託計畫報告。

- 7.葉俊郎（主持人），1/1/2010~6/30/2011，“台塑石化公司 DCU 加熱爐

H-1501A 與 H-1501B 煙囪監測評估”，產業界委託計畫報告。

- 8.葉俊郎（主持人），11/1/2011~4/30/2012，“台塑石化公司基礎油廠 LBO 單元加熱爐 H-9751、H-9801 與 H-9802 煙囪監測評估”，產業界委託計畫報告。
- 9.葉俊郎（主持人），11/1/2010~5/31/2012，“台塑石化公司 RDS 加熱爐 H-3310 與 H-3710 煙囪監測評估”，產業界委託計畫報告。
- 10.葉俊郎（主持人），11/1/2011~7/31/2012，“台塑石化公司轉化廠 OCT 單元加熱爐 H-6641 煙囪監測評估”，產業界委託計畫報告。
- 11.葉俊郎（主持人），12/1/2012~7/31/2013，“台塑石化公司轉化廠 OCT 單元加熱爐 H-6641 煙囪裝設 TMD 暨 H-6691 煙囪支撐架補強監測評估”，產業界委託計畫報告。
- 12.葉俊郎（主持人），10/1/2014~3/31/2015，“台塑石化公司 SRU 熱反應爐燃燒流場分析”，產業界委託計畫報告。
- 13.葉俊郎（主持人），9/1/2015~8/31/2016，“台塑石化公司 HYD PSA 吸附槽與製程管線彎頭應變監測與分析”，產業界委託計畫報告。

D. 研究計畫

項次	計畫名稱 (本會補助者請註明編號)	計畫內 擔任之 工作	起迄年月	補助或委 託機構	申請(執 行)情形
1	高效率低污染一氧化碳鍋爐 氧化段與脫硝段設計與分析 (II) (NSC100-2221-E-150-047-)	主持人	8/1/2011~ 01/07/2013	國科會	已結案
2	高效率低污染一氧化碳鍋爐 氧化段與脫硝段設計與分析 (III) (NSC101-2221-E-150-017-)	主持人	8/1/2012~ 7/31/2013	國科會	已結案

3	一氧化碳鍋爐硫氧化物與煙灰之生成與抑制數值模擬分析(I) (MOST102-2221-E-150-031-)	主持人	8/1/2013 7/31/2014	科技部	已結案
4	硫回收裝置熱反應爐效能提升與汙染分析(I) (MOST104-2221-E-150-032-)	主持人	8/1/2015 7/31/2016	科技部	已結案
5	硫回收裝置熱反應爐效能提升與汙染分析(II) (MOST105-2221-E-150-021-)	主持人	8/1/2016 7/31/2017	科技部	執行中
6	台塑石化公司 DCU 加熱爐 H-1501A 與 H-1501B 煙囪監測評估	主持人	1/1/2011~ 8/31/2011	三聯科技公司	已結案
7	台塑石化公司基礎油廠 LBO 單元加熱爐 H-9751、H-9801 與 H-9802 煙囪監測評估	主持人	11/1/2011~ 4/30/2012	三聯科技公司	已結案
8	台塑石化公司 RDS 加熱爐 H-3310 與 H-3710 煙囪監測評估	主持人	11/1/2010~ 5/31/2012	三聯科技公司	已結案
9	台塑石化公司轉化廠 OCT 單元加熱爐 H-6641 煙囪監測評估	主持人	11/1/2011~ 7/31/2012	三聯科技公司	已結案
10	台塑石化公司轉化廠 OCT 單元加熱爐 H-6641 煙囪裝設 TMD 暨 H-6691 煙囪支撐架補強監測評估	主持人	12/1/2012~ 7/31/2013	三聯科技公司	已結案
11	台塑石化公司 SRU 熱反應爐燃燒流場分析	主持人	10/1/2014~ 3/31/2015	三聯科技公司	已結案
12	台塑石化公司 HYD PSA 吸附槽與製程管線彎頭應變監測與分析	主持人	9/1/2015~ 8/31/2016	三聯科技公司	已結案