

五、論文著述：

A1. 期刊論文

1. Chun-Lang Yeh, 2019, “Numerical Analysis of Nitric Oxide Emission from a Sulfur Recovery Unit Thermal Reactor Using Rounded Corners, a Choke Ring or a Vector Wall”, accepted for publication in *Journal of the Chinese Society of Mechanical Engineers*. (SCI)
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3. Chun-Lang Yeh, 2019, “Numerical Analysis of an Industrial-Scale Steam Methane Reformer”, *Advances in Technology Innovation*, Vol.4, No.3, pp.140-151. (Scopus) (MOST106-2221-E-150-061-)
4. Chun-Lang Yeh, 2018, “Numerical Investigation of the Effects of Steam Mole Fraction and the Inlet Velocity of Reforming Reactants on an Industrial-Scale Steam Methane Reformer”, *Energies*, Vol.11, No.8, 2082, doi:10.3390/en11082082. (SCI) (MOST106-2221-E-150-061-)
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15. Chun-Lang Yeh, 2015, "Analysis of DeNO_x by SNCR in a Carbon Monoxide Boiler", *Applied Mechanics and Materials* (ISSN: 1660-9336), Vol.764-765, pp.413-417. (EI) (MOST102-2221-E-150-031-)
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A2. 專書論文

1. Chun-Lang Yeh, July, 2017, “Effects of Triple Choke Rings on the Thermal Field in a Sulfur Recovery Unit Thermal Reactor”, *Proceedings of the Global Conference on Engineering and Applied Science (GCEAS-2017)*, Higher Education Forum, Taiwan. (ISBN: 978-986-5654-24-5) (MOST105-2221-E-150-021-)
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B1. 國際(含中國大陸)研討會論文

1. Chun-Lang Yeh, Nov. 02-Nov. 06, 2018, “NO_x Emission from a Sulfur Recovery Unit Thermal Reactor with Rounded Corners or a Vector Wall”, *The International Conference on Environmental and Civil Engineering Innovation 2018 (ICECEI2018)*, Nov. 02-Nov. 06, 2018, Taoyuan, Taiwan. (MOST107-2221-E-150-012-)
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- 15.葉俊郎(主持人), 8/1/2015~7/31/2016, “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-
- 16.葉俊郎(主持人), 8/1/2016~8/11/2017, “硫回收裝置熱反應爐效能提升與汙染分析(II)”, 科技部計畫報告, 編號: MOST105-2221-E-150-021-
- 17.葉俊郎(主持人), 8/1/2017~8/31/2018, “氫氣工廠蒸氣重組爐熱流場數值模擬分析(I)”, 科技部計畫報告, 編號: MOST106-2221-E-150-061-
- 18.葉俊郎(主持人), 8/1/2018~7/31/2019, “氫氣工廠蒸氣重組爐熱流場數

- 值模擬分析(II)”，科技部計畫報告，編號：MOST107-2221-E-150-012-
- 19.葉俊郎（主持人），8/31/2007~7/31/2008，“台塑石化公司 RDS 加熱爐及鋼構監測評估報告”，產業界委託計畫報告。
 - 20.葉俊郎（主持人），11/1/2008~1/31/2009，“台塑石化公司轉化廠 OCT 單元加熱爐 H-6691 煙囪監測評估報告”，產業界委託計畫報告。
 - 21.葉俊郎（主持人），10/1/2009~8/31/2010，“台塑石化公司 RDS 加熱爐 H3610 煙囪監測評估”，產業界委託計畫報告。
 - 22.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。
 - 23.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。
 - 24.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。
 - 25.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。
 - 26.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。
 - 27.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。
 - 28.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。
 - 29.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。

30.駱正穎、葉俊郎（共同主持人），1/1/2001~12/31/2001，“飛機次系統及發動機多媒體教學教材製作”，教育部補助計畫報告。

31.葉俊郎（主持人），1/1/2002~12/31/2002，“飛機噴射發動機多媒體教學教材製作（I）”，教育部補助計畫報告。

32.葉俊郎（主持人），1/1/2003~12/31/2003，“飛機噴射發動機多媒體教學教材製作（II）”，教育部補助計畫報告。

33.葉俊郎（主持人），1/1/2004~12/31/2004，“飛機次系統及發動機多媒體教學教材製作”，教育部補助計畫報告。

34.葉俊郎，1993，“複雜外型汽渦輪燃燒室中側進噴流與軸向漩渦流混合之數值研究”，國立成功大學博士論文。

35.葉俊郎，1989，“不同的紊流模式於具有複雜幾何邊界的紊流場中之計算”，國立成功大學碩士論文。

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	霧化噴嘴內外流場數值模擬 研究 (I) (NSC88-2213-E-150-003-)	主持人	8/1/1998~ 7/31/1999	國科會	已結案
2	霧化噴嘴內外流場數值模擬 研究 (II) (NSC89-2213-E-150-007-)	主持人	8/1/1999~ 7/31/2000	國科會	已結案
3	霧化噴嘴內外流場數值模擬 研究 (III) (NSC89-2212-E-150-040-)	主持人	8/1/2000~ 7/31/2001	國科會	已結案
4	壓力漩渦式霧化器流場數值 研究 (NSC90-2212-E-150-034-)	主持人	8/1/2001~ 7/31/2002	國科會	已結案

5	紊流模擬方法於霧化噴嘴內外流場數值模擬影響之研究 (I) (NSC91-2212-E-150-035-)	主持人	8/1/2002~ 7/31/2003	國科會	已結案
6	紊流模擬方法於霧化噴嘴內外流場數值模擬影響之研究 (II) (NSC92-2212-E-150-023-)	主持人	8/1/2003~ 7/31/2004	國科會	已結案
7	微分型與代數型雷諾應力模式於霧化噴嘴內外流場模擬之研究 (NSC93-2212-E-150-018-)	主持人	8/1/2004~ 7/31/2005	國科會	已結案
8	霧化噴嘴內外流場微觀演進過程研究 (I) (NSC96-2221-E-150-006-)	主持人	8/1/2007~ 10/31/2008	國科會	已結案
9	霧化噴嘴內外流場微觀演進過程研究 (II) (NSC97-2221-E-150-029-)	主持人	8/1/2008~ 7/31/2009	國科會	已結案
10	霧化噴嘴內外流場微觀演進過程研究 (III) (NSC98-2221-E-150-041-)	主持人	8/1/2009~ 7/31/2010	國科會	已結案
11	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) (NSC99-2221-E-150-028-)	主持人	8/1/2010~ 7/31/2011	國科會	已結案
12	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
13	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
14	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

15	硫回收裝置熱反應爐效能提升與污染分析(I) (MOST104-2221-E-150-032-)	主持人	8/1/2015 7/31/2016	科技部	已結案
16	硫回收裝置熱反應爐效能提升與污染分析(II) (MOST105-2221-E-150-021-)	主持人	8/1/2016 8/11/2017	科技部	已結案
17	氫氣工廠蒸氣重組爐熱流場數值模擬分析(I) (MOST106-2221-E-150-061-)	主持人	8/1/2017 8/31/2018	科技部	已結案
18	氫氣工廠蒸氣重組爐熱流場數值模擬分析(II) (MOST107-2221-E-150-012-)	主持人	8/1/2018 7/31/2019	科技部	已結案
19	氫氣工廠蒸氣重組爐觸媒管剩餘壽命評估程序發展 (MOST108-2221-E-150-007-)	主持人	8/1/2019 7/31/2020	科技部	執行中
20	台塑石化公司 RDS 加熱爐及鋼構監測評估	主持人	8/31/2007~ 7/31/2008	三聯科技公司	已結案
21	台塑石化公司轉化廠 OCT 單元加熱爐 H-6691 煙囪監測評估	主持人	11/1/2008~ 1/31/2009	三聯科技公司	已結案
22	台塑石化公司 RDS 加熱爐 H-3610 煙囪監測評估	主持人	10/1/2009~ 8/31/2010	三聯科技公司	已結案
23	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	主持人	11/1/2010~ 6/30/2011	三聯科技公司	已結案
24	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
25	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
26	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
27	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

28	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
29	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
30	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
31	台塑石化公司煉油部小管線振動模態分析評估	主持人	1/1/2020~ 3/31/2020	台塑石化公司	執行中
32	台塑石化公司煉油部小管線應力分析與疲勞壽命評估	主持人	3/1/2020~ 12/31/2021	台塑石化公司	執行中
33	熔融還原爐內二次燃燒之熱流場解析	協同主持人	7/1/1998~ 6/30/1999	經濟部	已結案
34	飛機次系統及發動機多媒體教學教材製作	共同主持人	1/1/2001~ 12/31/2001	教育部	已結案
35	飛機噴射發動機多媒體教學教材製作 (I)	主持人	1/1/2002~ 12/31/2002	教育部	已結案
36	飛機噴射發動機多媒體教學教材製作 (II)	主持人	1/1/2003~ 12/31/2003	教育部	已結案
37	飛機次系統及發動機多媒體教學教材製作	主持人	1/1/2004~ 12/31/2004	教育部	已結案