

呂榮基學術著作目錄一覽表

A. 期刊論文

- [1] R. C. Leou, "A Substation-Based Optimal Photovoltaic Generation System Placement Considering Multiple Evaluation Indices," *Energies*, Vol. 15, 2022, pp. 1-18. (SCI)
- [2] R. C. Leou, J. H. Teng, Y. F. Li, W. M. Lin, and Y. H. Lin, "System Unbalance Analyses and Improvement for Rooftop Photovoltaic Generation Systems in Distribution Networks," *Energies*, Vol. 13, No. 8, 2020, pp. 1-18. (SCI)
- [3] R. C. Leou*, J. H. Teng, H.J. Lu, B. R. Lan, H. T. Chen, T. Y. Hsieh, and C. L. Su, "Stochastic Analysis of Electric Transportation Charging Impacts on Power Quality of Distribution Systems," *IET Generation, Transmission & Distribution*, Vol. 12, No. 11, 2018, pp. 2725-2734. (SCI)
- [4] R. C. Leou*, and J. J. Hung, "Optimal Charging Schedule Planning and Economic Analysis for Electric Bus Charging Stations," *Energies*, Vol. 10, No. 4, 2017, pp. 1-17. (SCI)
- [5] R. C. Leou*, " Optimal Charging/Discharging Control for Electric Vehicles Considering Power System Constraints and Operation Costs," *IEEE Trans. on Power Systems*, Vol. 31, No. 3, 2016, pp. 1854-1860. (SCI)
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- [11] 鄧人豪，蘇俊連，許振廷，呂榮基，黃永清，劉書瑋，"儲能系統之應用與適應性運轉，" *電工通訊季刊*，2012, pp. 44-53.
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- [13] R. C. Leou*, "An economic analysis model for the energy storage system applied to a distribution substation," *International Journal of Electrical Power & Energy Systems*, Vol. 34, 2012, pp.132-137. (SCI)
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- [15] R. C. Leou*, "A Multiyear Transmission Planning Under a Deregulated Market," *International Journal of Electrical Power & Energy Systems*, Vol. 33, 2011, pp.708-714. (SCI)
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B. 研討會論文

- [1] 呂榮基, 黃永清, 林偉民, 韓承濤, 鄧人豪, "供電品質與再生能源裝置容量之相關性分析-以歐洲國家為例," 第四十一屆電力工程研討會, 臺灣台北, 2020.
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- [3] 呂榮基, 藍柏荏, 李沄芳, 張庭碩, 鄧人豪, "高占比再生能源發電系統之配電饋線不平衡分析," 第三十九屆電力工程研討會, 臺灣台北, 2018.
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- [10] R. C. Leou, C. Y. Chang, and S. Y. Chan, "A Transmission Expansion Plan Considering Uncertainties and Risk Assessment Under a Deregulated Market," International Conference on Intelligent Technologies and Engineering Systems, 2013.

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C. 研究計畫

- [1] 計畫名稱：汰役電池應用於負載端之最佳充放電控制及經濟效益分析
計畫編號：MOST 111-2221-E-230 -001 - (科技部)
擔任職務：計畫主持人 (111.08.01~112.07.31)
- [2] 計畫名稱：國外電業設備狀態維護關鍵要素及電廠除役程序之研析 (工研院)
擔任職務：協同主持人 (111.01.01~111.12.31)
- [3] 計畫名稱：電業設備查驗技術及智慧管理計畫(1/3) (工研院)
擔任職務：協同主持人 (110.01.01~110.11.30)
- [4] 計畫名稱：電業設備查驗及電力資料庫統計分析計畫 (工研院)

- 擔任職務：協同主持人 (109.01.01~109.11.30)
- [5] 計劃名稱：電力系統運轉規範之研析 (工研院)
擔任職務：協同主持人 (108.04.01~108.11.30)
- [6] 計劃名稱：高占比再生能源配電饋線之衝擊影響評估 (工研院)
擔任職務：協同主持人 (107.04.01~107.11.30)
- [7] 計劃名稱：國內外火力發電廠運轉指標採用情形 (工研院)
擔任職務：協同主持人 (106.02.01~107.11.30)
- [8] 計劃名稱：先進水下載具電力系統研究與技術開發
計劃編號：MOST 106-2218-E-022-002 - (科技部)
擔任職務：整合型計畫之共同計畫主持人 (106.08.01~107.07.31)
- [9] 計劃名稱：更改配電饋線設備提升再生能源併入之電力品質問題 (工研院)
擔任職務：協同主持人 (105.04.01~105.11.30)
- [10] 計劃名稱：電動車對於配電系統之電力品質衝擊分析
計劃編號：MOST 104-2221-E-230-006- (科技部)
擔任職務：計畫主持人 (104.08.01~105.07.31)
- [11] 計劃名稱：電動車電能補充管理策略研究
計劃編號：MOST 103-3113-E-110 -002 - (科技部)
擔任職務：整合型計畫共同主持人 (103.04.01~103.12.31)
- [12] 計劃名稱：考慮電動巴士充電站可能之充電計畫與電動車充電之不確定因素對於配電網路的衝擊分析
計劃編號：NSC 102-2221-E-230-010- (國科會)
擔任職務：計畫主持人 (102.08.01~103.07.31)
- [13] 計劃名稱：電動車與再生能源之整合運轉策略研究
計劃編號：NSC 101-2221-E-230 -019 - (國科會)
擔任職務：計畫主持人 (101.08.01~102.07.31)
- [14] 計劃名稱：旗山電動巴士充電站之建置與電能量測研究
計劃編號：正研產學字 (100) 第 319 號 (高雄汽車客運股份有限公司)
擔任職務：計畫主持人 (101.07.01~101.12.31)
- [15] 計劃名稱：在電力市場中考慮不確定因素之風力發電機組的投標策略
計劃編號：NSC 99-2221-E-230 -022 - (國科會)
擔任職務：計畫主持人 (99.08.01~100.7.31)
- [16] 計劃名稱：在自由化市場下考慮不確定因素之發電投資規劃
計劃編號：NSC 98-2221-E-230 -015 - (國科會)
擔任職務：計畫主持人 (98.08.01~99.7.31)
- [17] 計劃名稱：在自由化市場下考慮不確定因素與風險評估之輸電規劃
計劃編號：NSC 97-2221-E-230 -025 (國科會)
擔任職務：計畫主持人 (97.08.01~98.7.31)
- [18] 計劃名稱：在自由化市場下負載服務公司之風險管理
計劃編號：NSC 96-2221-E-230-025 (國科會)
擔任職務：計畫主持人 (96.08.01~97.7.31)
- [19] 計劃名稱：在自由化市場下配電公司採用儲能系統之經濟分析
計劃編號：NSC 95-2221-E-230-035 (國科會)
擔任職務：計畫主持人 (95.08.01~96.7.31)

- [20] 計劃名稱：在自由化市場下之輸電擴張規劃
計劃編號：NSC 94-2213-E-230-014（國科會）
擔任職務：計劃主持人 (94.08.01~95.7.31)
- [21] 計劃名稱：在自由化市場下考慮不確定性資料之以價格為導向的機組調度
計劃編號：NSC 93-2213-E-230-014（國科會）
擔任職務：計劃主持人 (93.08.01~94.7.31)
- [22] 計劃名稱：考慮系統可靠度與經濟成本之機組檢修排程
計劃編號：NSC 92-2213-E-230-011（國科會）
擔任職務：計劃主持人 (92.08.01~93.7.31)
- [23] 計劃名稱：配電系統供電品質資料庫資訊技術系統之建立 (2/2)
計劃編號：NSC 91-2213-E-230-017-（國科會）
擔任職務：國科會整合型計畫子計畫主持人 (91.08.01~92.7.31)
- [24] 計劃名稱：配電系統供電品質資料庫資訊技術系統之建立 (1/2)
計劃編號：NSC 90-2213-E-132-005-（國科會）
擔任職務：國科會整合型計畫子計畫主持人 (90.08.01~91.7.31)
- [25] 計劃名稱：電力品質監控系統之資料庫管理系統與人機介面設計
計劃編號：NSC 89-2213-E-132-002-（國科會）
擔任職務：計劃主持人 (89.08.01~90.7.31)
- [26] 計劃名稱：考慮不確定因素之機組檢修排程
計劃編號：NSC 88-2213-E-132-002-（國科會）
擔任職務：計劃主持人 (88.08.01~89.7.31)