

五年內著作目錄-發表文章

1. Chang, P.-H., Chen, C.-Y., Raj M., Chen, W., Tzou*, Y.-M., Binoy S., (2022). Novel MOF-808 metal–organic framework as highly efficient adsorbent of perfluorooctane sulfonate in water. *J. Colloid Interface Sci.*, Accepted.
<https://doi.org/10.1016/j.jcis.2022.05.050>
32 /162; Q1; Chemistry, Physical; IF:8.128; top.
2. Chang, P.-H., Li, Z., Jiang, W.-T., (2022). Mechanisms of Ethidium Bromide Removal by Ca-montmorillonite. *Desalin. Water Treat.*, 1–14. doi: 10.5004/dwt.2022.28298.
110/143; Q4; Engineering, Chemical; IF: 1.254
3. Chang, P.-H.* , Guo, J., Li, J., Li, Z., Li, X., (2022). Seizing forbidden drug ranitidine by illite and the adsorption mechanism study. *Colloids Surf. A - Physicochem. Eng. Asp.* 639, 128395.
64/162; Q2; Chemistry, Physical; IF: 4.539
4. Ng, K.H., Liu, Y.-T., Chang, C.-T., Chiang, P.-N., Teah, H.Y., Chang, P.-H., Tzou, Y.-M., (2021). Inhibitory effects and mechanisms of low-molecular-mass organic acids (LMMOAs) toward Cr(III) oxidation. *J. Clean. Prod.*, 313, 127726.
18 / 274; Q1; Environmental Sciences; IF: 9.297; top.
5. Chang, P.-H.* , Liu, P., Binoy S., Raj M., Yang, Q.-Y., Tzou, Y.-M., Zhong, B., Li, X., Gary O., (2021). Unravelling the mechanism of amitriptyline removal from water by natural montmorillonite through batch adsorption, molecular simulation and adsorbent characterization studies. *J. Colloid Interface Sci.*, 598, 379–387.
32 /162; Q1; Chemistry, Physical; IF:8.128; top.
6. Chang, P.-H.* , Binoy S., (2021). Mechanistic insights into ethidium bromide removal by palygorskite from contaminated water. *J. Environ. Manage.*, 278, 111586.
34 / 274; Q1; Environmental Sciences; IF:6.789; top.
7. Chang, P.-H., Li, Z., Jiang, W.-T., (2020). Calcination of hydrotalcite to enhance the removal of perfluorooctane sulfonate from water. *Appl. Clay Sci.*, 190, 105563.
1 / 30; Q1; Mineralogy; IF: 5.467; top.
8. Li, Z., Chang, P.-H., Jiang, W.-T., Liu, Y., (2020). Enhanced removal of ethidium bromide (EtBr) from aqueous solution using rectorite. *J. Hazard. Mater.*, 384, 121254.
10 / 274; Q1; Environmental Sciences; IF:10.588; top.

9. Chang, P.-H., Jiang, W.-T., Binoy S., Wang, W., Li, Z., (2019). The triple mechanisms of atenolol adsorption on Ca-montmorillonite: Implication in pharmaceutical wastewater treatment, *Materials*, 12, 2858.
102 / 293; Q2; Materials Science; Multidisciplinary; IF: 3.623
10. Li, Z., Chang, P.-H., Jiang, W.-T., (2019). Mechanisms of Cu²⁺, triethylenetetramine (TETA), and Cu-TETA sorption on rectorite and its use for metal removal via metal-TETA complexation, *J. Hazard. Mater.*, 373, 187-196.
10 / 274; Q1; Environmental Sciences; IF:10.588; top.
11. Li, Z., Chang, P.-H.*, Jiang, W.-T., (2019). The multi-mechanisms and interlayer configurations of metoprolol uptake on montmorillonite. *Chem. Engineer. J.*, 360, 325-333. (以通訊作者發表)
7 / 279; Q1; Chemical Engineering; IF:13.273; top.
12. Chang, P.-H., Jiang, W.-T., Li, Z., (2019). Removal of perfluorooctanoic acid from water using calcined hydrotalcite – A Mechanistic Study. *J. Hazard. Mater.*, 368, 487-495.
10 / 274; Q1; Environmental Sciences; IF:10.588; top.
13. Chang, P.-H., Jiang, W.-T., Li, Z., (2018). Mechanism of tyramine adsorption on Ca-montmorillonite. *Sci. Total Environ.*, 642, 198-207.
6 / 146; Q1; Environmental Engineering; IF:7.963; top.
14. Lv, G., Chang, P.-H., Xing, X., Jiang, W.-T., Jean, J.-S., Li, Z., (2017). Investigation of intercalation of diphenhydramine into the interlayer of smectite by XRD, FTIR, TG-DTG analyses and molecular simulation, *Arabian J. Chem.*, 10, 855-861.
54 / 178; Q2; Chemistry, Multidisciplinary; IF:5.165

其他代表性成果

1、著作（書籍）

著作名稱	出版單位	作者	出版年度
Modified clay and zeolite nanocomposite materials: Environmental and pharmaceutical applications. (Chapter 7: Clay minerals for pharmaceutical waste water treatment)	Elsevier	Chapter Authors: Po-Hsiang, Chang; Wei-Teh, Jiang; Zhao-hui, Li.; Binoy, Sarkar	2019

2、專利

專利號或申請號	專利名稱	類別	授權國家	專利所有者
201910798396-1 (已授權)	一種水滑石及其製備方法和水滑石在吸附水體裡 PFOS 污染物中的應用	發明	中國	張博翔、李朝輝、江威德、王文東
2020211577352 (已授權)	一種便於隨身攜帶的環境原水淨水裝置	實用新型	中國	張博翔

3、獲獎

獲獎或榮譽名稱	頒發機構	獲獎等級	獲獎年份	排名	主要合作者
西安交通大學第三十一屆騰飛杯創新創業大賽	西安交通大學	一等獎	2020	無	指導大學生獲獎
研究生創新論壇	人居學院	二等獎	2019	無	指導研究生獲獎
103 年度科技部博士後研究人員學術著作獎	科技部/ 臺灣	特等	2015	第一	Po-Hsiang, Chang, Wei-Teh Jiang*, Zhaozui Li**, Chung-Yih Kuo, Jiin-Shuh Jean, Wan-Ru Chen, Guocheng Lv
國際研討會優秀展版獎	中山大學/ 臺灣	第二名	2013	第一	Po-Hsiang, Chang, Wei-Teh Jiang*, Zhaozui Li**, Chung-Yih Kuo, Jiin-Shuh Jean, Wan-Ru Chen, Guocheng Lv
高被引文章 (Highly Cited Paper、Most Cited Paper)	Thomson Reuters/ U.S.A	Top 1%	2012	第一	Po-Hsiang, Chang, Zhaozui Li*, Jiin-Shuh Jean, Wei-Teh Jiang, Chih-Jen Wang, Kao-Hung Lin
地質年會暨學術研討會聯合學生論文比賽	地質學會/ 臺灣	優等	2012	第一	Po-Hsiang, Chang, Zhaozui Li*, Jiin-Shuh Jean, Wei-Teh Jiang, Chih-Jen Wang, Kao-Hung Lin

引用文章	Elsevier/ Holland	Top- 50 most cited articles	2011	第二	Zhaohui Li*, Po-Hsiang, Chang, Jiin-Shuh Jean, Wei-Teh Jiang, Chih-Jen Wang
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4、參與的科研專案

起止時間	項目名稱	經費來源及額度	申報人的具體職位 和任務
2021.3- 2023.2	地質材料移除環境污染物 的吸附機理	陝西省土地工程 建設集團/¥ 40 萬	副教授/項目主持人（剛 獲得）
2019.6~2 020.6	陝西省大學生創新訓練項 目（國家級項目）	陝西省/¥ 3000 元	指導老師
2019.6-2 022.5	鈣蒙脫石吸附陽離子型吸 附質的快速吸附驅動機制	西安交通大學新 教師支持計畫 /¥ 15 萬	副教授/項目主持人
2018.8~ 2019.7	107 年地球化學貴重儀器 維護與服務平臺計畫：南部 地球化學研究平臺	科技部 /NT\$ 8,245,000	博士後助理研究員/從 事科學研究
2017.8~ 2018.7	106 年地球化學貴重儀器 維護與服務平臺計畫：南部 地球化學研究平臺	科技部 /NT\$ 7,245,000	博士後助理研究員/從 事科學研究
2016.8~ 2017.7	105 年地球化學貴重儀器 維護、服務及管理平臺計 畫：南部地球化學	科技部 /NT\$ 7,220,000	博士後助理研究員/從 事科學研究
2015.8~ 2016.7	104 年地球化學貴重儀器 維護、服務及管理平臺計 畫：南部地球化學	科技部 / NT\$ 6,900,000	博士後研究員/從事科 學研究
2014.8~ 2015.7	103 年地球化學貴重儀器 維護、服務及管理平臺計 畫：南部地球化學	科技部 / NT\$ 6,622,000	博士後研究員/從事科 學研究
2013.8~ 2014.7	地球化學貴重儀器維護、服 務及管理平臺計畫一子計 畫二：地球化學平臺之二	國家科學委員會 / NT\$ 9,000,000	博士後研究員/從事科 學研究
2013.2~ 2013.7	地球化學貴重儀器維護、服 務及管理平臺計畫	國家科學委員會 / NT\$ 9,500,000	博士後研究員/從事科 學研究

5、學術組織任職、重要學術報告

學術組織任職情況：

- 客座主編 (Journal Editor: Lead Guest Editor)

期刊名稱 (Journal name) : Advances in Chemistry.

Improved Materials, Removal Technologies and Biological Impacts for contaminants as medical drugs. (SPECIAL ISSUE, Publication Date: Friday, 6 January 2017)

2. 期刊顧問委員 (Journal Editorial Advisory Board)

期刊名稱 (Journal name) : Environmental and Earth Sciences Research Journal.

CONFERENCE PROCEEDINGS (first author is the participant)

1. 張博翔, 比利時-中國環保創新合作論壇, 2019。
2. 劉盼, 譚琛, 孫小燕, 田雨, 張博翔。鈉蒙脫石吸附安米替林之機理。中國環境科學學會科學技術年會, 西安, 2019。
3. **Chang, P.-H.** (2019). BIT's 9 th Annual World Congress of Nano Science & Technology-2019 (Nano S&T-2019), Suzhou, China. Oral (Session Keynote Speech at Track 3: Nanomedicine at our event.).
4. **Chang, P.-H.**, Jiang, W.-T., Li, Z., (2018). Mechanism of PFOS adsorption on hydrotalcite. **Geological Annual Congress**, National Chung Cheng University, Chiayi, Taiwan. Oral.
5. **Chang, P.-H.**, Jiang, W.-T., Li, Z., Chen, W.-R., Jean, J.-S, (2017). Tyramineadsorption on Ca-montmorillonite. **The 16st international clay conference**, Granada, Spain. Oral.
6. **Chang, P.-H.**, Jiang, W.-T., Li, Z., Chen, W.-R., Jean, J.-S, (2017). The mechanism of tyramine adsorption on Ca-montmorillonite. **The 3stinternational conference on emerging contaminants**, National Sun Yat-Sen University, Kaohsiung, Taiwan. Poster.
7. Tsai, Y.-L., **Chang, P.-H.**, Gao, Z.-Y., Xu, X.-Y., Chen, Y.-S., Wang, Z.-H., Chan, X.-Y., Yang, Z.-Y., Wang, Z.-H., Jean, J.-S., Li, Z., Jiang, W.-T., (2015) Amitriptyline removal using palygorskite (PFI-1), **The 2st international conference on emerging contaminants**, National Sun Yat-sen University, Kaohsiung, Taiwan. **Poster Competition**.
8. **Chang, P.-H.**, Jiang,W.-T., Li, Z., Jean, J.-S., (2015) Potential and mechanism of pharmaceutical adsorption onto halloysite nanotubes, **Geological Annual Congress**, Chinese Culture University, Taipei, Taiwan. **Oral**.
9. **Chang, P.-H.**, Jiang, W.-T., Li, Z., Jean, J.-S, (2015) Mechanisms of atenolol and metoprolol adsorption on Ca-montmorillonite (SAz-2), **Euroclay2015**-International conference on clay science and technology, Edinburgh University, Edinburgh, U.K. **Oral**.
10. **Chang, P.-H.**, Jiang, W.-T., Li, Z., Wu, Q.-F., Jean, J.-S., Lv, G., Kuo. C.-Y., (2014) Adsorption and interaction of ciprofloxacin and probe compounds with palygorskite, **51st annual meeting of the clay minerals society**, Texas T&M University, college station, Texas, U.S.A. **Oral**.

- 11. Chang, P.-H.**, Jiang, W.-T., Li, Z., Kuo. C.-Y., Jean, J.-S., (2014) Adsorption of tetracycline on montmorillonite: Influence of solution pH, temperature and ionic strength, **Geological Annual Congress**, National Dong Hwa University, Hualien, Taiwan. **Oral**.
- 12. Chang, P.-H.**, Jiang, W.-T., Li, Z., Kuo. C.-Y., Jean, J.-S., Chen, W.-R., Lv, G., (2013) Mechanism of amitriptyline adsorption on Ca-montmorillonite, **The 1st international conference on emerging contaminants**, National Sun Yat-sen University, Kaohsiung, Taiwan. **Poster Competition. (Best Poster Award– the Second Place)**
- 13. Chang, P.-H.**, Jean, J.-S., Li, Z., Jiang, W.-T., (2013) Sorption and intercalation of tetracycline on montmorillonite, **2st Annual Meeting and Conference of Medical Geology Association-Taiwan Chapter**, National Cheng Kung University, Tainan, Taiwan. **Poster**.
- 14. Chang, P.-H.**, Jean, J.-S., Li, Z., Jiang, W.-T., (2012) Adsorption of tetracycline on 2:1 layered non-swelling clay mineral illite, **Geological Annual Congress**, National Central University, Taoyuan, Taiwan. **Poster Competition. (Outstanding Student Paper Award)**
- 15. Chang, P.-H.**, Jean, J.-S., Li, Z., Jiang, W.-T., Wu, Q.-F., Lin, K.-H., (2012) Influences of present cations Al^{3+} , Ca^{2+} , Na^+ , and other cationic drugs on tetracycline desorption from montmorillonite: an indication of intercalation stability, **1st Annual Meeting and Conference of Medical Geology Association-Taiwan Chapter**, National Cheng Kung University, Tainan, Taiwan. **Oral**.
- 16. Chang, P.-H.**, Jean, J.-S., Li, Z., Jiang, W.-T., (2011) The research of adsorption/desorption behavior between clay minerals and antibiotic-tetracycline, **GEOMED 4th International Conference on Medical Geology**, Sheraton hotel, Bari, Italy. **Oral**.
- 17. Chang, P.-H.**, Jean, J.-S., Li, Z., (2011) Sorption and intercalation of tetracycline on montmorillonite, **Geological Annual Congress**, National Taiwan University of Science and Technology, Taipei, Taiwan. **Poster**.
- 18. Chang, P.-H.**, Jean, J.-S., Li, Z., Jiang, W.-T., (2010) Sorptive removal of tetracycline from water by palygorskite, **Geological Annual Congress**, National Taiwan University, Taipei, Taiwan. **Oral**.
- 19. Chang, P.-H.**, Li, Z., Jean, J.-S., (2008) Sorption and intercalation of tetracycline on rectorite, **Geological Annual Congress**, National Cheng Kung University, Tainan, Taiwan. **Poster**.