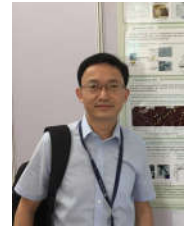


研究队伍

[院士专家](#)[杰出青年](#)[万人计划](#)[优秀青年](#)[青年创新促进会](#)[广东特支计划](#)[研究员](#)[副研究员](#)[博士后流动站](#)[客座人员](#)[人才招聘](#)[人才项目](#)[硕士生导师](#)[博士生导师](#)您现在的位置: [首页](#) > [研究生教育](#) > [导师介绍](#) > [专家人才](#)

姓名:	袁鹏	性别:	男
职务:	中科院矿物学与成矿学重点实验室副主任	职称:	研究员
学历:	博士研究生	通讯地址:	广州市天河区科华街511号
电话:	020-85290341	邮政编码:	510640
传真:	020-85290341	电子邮件:	yuanpeng@gig.ac.cn



简历:

1996年和1999年在合肥工业大学资源与环境科学系获地质学学士和矿物学硕士学位。1999年至2001年在中科院广州地球化学研究所攻读博士,2002年3月获中科院研究生院矿物学博士学位。2006年受国家留学基金委资助在悉尼大学做访问学者,2015年在巴黎第六大学、奥尔良大学和法国国家科学研究中心(CNRS)做高级研究学者。现为广州地球化学研究所研究员、博士生导师、中科院矿物学与成矿学重点实验室副主任。

担任国际粘土矿物学领域主流刊物*Applied Clay Science*共同主编(Co-Editor-in-Chief)、中国矿物岩石地球化学学会矿物岩石材料专业委员会委员、新矿物命名委员会委员、环境矿物学专业委员会委员等学术职务。编著粘土矿物学英文学术专著1部(Elsevier出版)。作为共同客座主编编辑国际SCI刊物专刊2辑。在国际SCI刊物上发表论文逾110篇,SCI引用逾4000次。4篇第一作者SCI论文入选美国科技信息所(ISI)“ESI TOP 1%高被引论文”。

研究领域:

天然矿物的结构、表界面作用及其资源与环境效应。

重点关注:(1)地质过程中典型矿物界面作用的机理,如伊利石-伊-蒙混层矿物-蒙脱石转化中矿物微结构和固酸性变化对生烃-储烃作用的影响机制。(2)多孔矿物(如硅藻蛋白石)和纳米矿物(埃洛石、伊毛缟石、水铝英石等)等的结构、性质、界面反应性及其调控方法和机理。(3)面向我国优势纳微米矿物资源利用的矿物原料评价、矿物纯化及性能优化的方法和机理研究。

本实验室研究条件良好,工作氛围融洽。研究组具有较广泛的国内外科研合作关系,为研究生、博士后的学术发展提供丰富可能性。

热忱欢迎有志于上述研究方向的学子加入!

获奖及荣誉:

曾获广东省科学技术一等奖(2007年,第二完成人)、第十一届中国矿物岩石地球化学学会“侯德封奖”(2006年)和中国科学院首届“卢嘉锡青年人才奖”(2008年)等奖励。入选“中国科学院青年创新促进会”并在终期考核中获评为优秀会员。

代表论著:

论著:

[1] Yuan, P.; Thill A.; Annabi-Bergaya, F.; (Eds.), *Nanosized Tubular Clay Minerals* (ISBN Number: 978-0-08-100293-3), Elsevier出版. 2016.

第1章: Yuan, P.*; Annabi-Bergaya, F.; Thill A.; General introduction.

第7章: Yuan, P.*; Thermal treatment induced deformation and modification of halloysite.

第8章: Tan, D. Y.; Yuan, P.*; Liu, D.; Du, P. X., Surface chemical modification of halloysite.

第28章: Annabi-Bergaya, F.*; Thill A.; Yuan, P.; Epilogue.

SCI论文

[1] Bu, H. L.; Yuan, P.*; Liu, H. M.; Liu, D.; Liu, J. Z.; He, H. P.; Zhou, J. M.; et al., Effects of complexation between organic matter (OM) and clay mineral on OM pyrolysis. *Geochimica et Cosmochimica Acta*. 2017, 212, 1-15.

[2] Yuan, W. W.; Yuan, P.*; Liu, D.; Yu, W. B.; Laipan, M. W.; Deng, L. L.; Chen, F. R., In situ hydrothermal synthesis of a novel hierarchically porous TS-1/modified-diatomite composite for methylene blue (MB) removal by the synergistic effect of adsorption and photocatalysis. *J Colloid Interf. Sci*. 2016, 462, 191-199.

[3] Liu, D.; Yu, W. B.; Deng, L. L.; Yuan, W. W.; Ma, L. Y.; Yuan, P.*; Du, P. X.; He, H. P., Possible mechanism of structural incorporation of Al into diatomite during the deposition process I. Via a condensation reaction of hydroxyl groups. *J Colloid Interf. Sci*. 2016, 461, 64-68.

[4] Yuan, P.; Tan, D.; Annabi-Bergaya, F., Properties and applications of halloysite clay nanotubes. (HNT): Recent research advances and future prospects. *Appl. Clay Sci*. 2015, 112, 75-93.

- [5] Yu, W. B.; Deng, L. L.; **Yuan, P.***; Liu, D.; Yuan, W. W.; Liu, P.; He, H. P.; Li, Z. H.; Chen, F. R., Surface silylation of natural mesoporous/macroporous diatomite for adsorption of benzene. *J Colloid Interf. Sci.* 2015, 448, 545-552.
- [6] Yu, W. B.; Deng, L. L.; **Yuan, P.***; Liu, D.; Yuan, W. W.; Chen, F. R., Preparation of hierarchically porous diatomite/MFI-type zeolite composites and their performance for benzene adsorption: The effects of desilication. *Chem. Eng. J.* 2015, 270, 450-458.
- [7] Tan, D. Y.; **Yuan, P.***; Annabi-Bergaya, F.; Dong, F. Q.; Liu, D.; He, H. P., A comparative study of tubular halloysite and platy kaolinite as carriers for the loading and release of the herbicide amitrole. *Appl. Clay Sci.* 2015, 114, 190-196.
- [8] Tan, D.; **Yuan, P.***; Annabi-Bergaya, F.; Liu, D.; He, H. P., Methoxy-modified kaolinite as a novel carrier for high-capacity loading and controlled-release of the herbicide amitrole. *Scientific Reports.* 2015, 5.
- [9] Yuan, W. W.; **Yuan, P.***; Liu, D.; Yu, W. B.; Deng, L. L.; Chen, F. R., Novel hierarchically porous nanocomposites of diatomite e-based ceramic monoliths coated with silicalite-1 nanoparticles for benzene adsorption. *Micropor. Mesopor. Mater.* 2015, 206, 184-193.
- [10] Yu, W. B.; **Yuan, P.***; Liu, D.; Deng, L. L.; Yuan, W. W.; Tao, B.; Cheng, H. F.; Chen, F. R., Facile preparation of hierarchically porous diatomite/MFI-type zeolite composites and their performance of benzene adsorption: The effects of NaOH etching pretreatment. *J. Hazard. Mater.* 2015, 285, 173 - 181.
- [11] Qin, Z. H.; **Yuan, P.***; Yang, S. Q.; He, H. P.; Zhu, J. X., Silylation of Al-13-intercalated montmorillonite with trimethylchlorosilane and adsorption for Orange II. *Appl. Clay Sci.* 2014, 99, 229-236.
- [12] Liu, D.; Yuan, W. W.; Deng, L. L.; Yu, W. B.; Sun, H. J.; **Yuan, P.***, Preparation of porous diatomite-templated carbons with large adsorption capacity and mesoporous zeolite K-H as a byproduct. *J Colloid Interf. Sci.* 2014, 424, 22-26.
- [13] Tan D.Y.; **Yuan P.***; Annabi-Bergaya, F.; Liu, D.; Wang, L. J.; Liu, H. M.; He, H. P., Loading and in vitro release of ibuprofen in tubular halloysite. *Appl. Clay Sci.* 2014, 96, 50-55.
- [14] Tan D.Y.; **Yuan P.***; Annabi-Bergaya, F.; Liu, D.; He, H. P., et al. High-capacity loading of 5-fluorouracil on the methoxy-modified kaolinite. *Appl. Clay Sci.* 2014, 100, 60-65.
- [15] **Yuan, P.**; Tan, D.; Annabi-Bergaya, F.; Yan, W.; Liu, D.; Liu Z., From platy kaolinite to aluminosilicate nanoroll via one-step delamination of kaolinite: Effect of the temperature of intercalation, *Appl. Clay Sci.* 2013, 83-84, 68-76.
- [16] **Yuan, P.**; Liu, H. M.; Liu, D.; Tan D. Y.; Yan, W. C.; He, H.P., Role of the interlayer space of montmorillonite in hydrocarbon generation: an experimental study based on high temperature-pressure pyrolysis, *Appl. Clay Sci.* 2013, 75-76, 82-91.
- [17] **Yuan, P.**; Liu, D.; Tan, D. Y.; Liu, K. K.; Yu, H. G.; Zhong, Y. H.; Yuan, A. H.; Yu, W. B.; He, H. P., Surface silylation of mesoporous/macroporous diatomite (diatomaceous earth) and its function in Cu(II) adsorption: The effects of heating pretreatment. *Micropor. Mesopor. Mat.* 2013, 170 (0), 9-19.
- [18] Tan, D. Y.; **Yuan, P.***; Annabi-Bergaya, F.; Yu, H. G.; Liu, D.; Liu, H. M.; He, H. P., Natural halloysite nanotubes as mesoporous carriers for the loading of ibuprofen. *Micropor. Mesopor. Mat.* 2013, 179, 89-98.
- [19] Liu, D.; **Yuan, P.***; Liu, H. M.; Li, T.; Tan D. Y.; Yuan W. W.; He, H. P., High-pressure adsorption of methane on montmorillonite, kaolinite and illite. *Appl. Clay Sci.* 2013, 85: 25-30.
- [20] Liu, D.; **Yuan, P.***; Liu, H. M.; Cai J. G.; Tan D. Y.; He H. P.; Zhu J. X.; Chen T. H., Quantitative characterization of the solid acidity of montmorillonite using combined FTIR and TPD based on the NH₃ adsorption system. *Appl. Clay Sci.* 2013, (80-81): 407-412.
- [21] Liu, H. M.; **Yuan, P.***; Qin Z. H.; Liu D.; Tan D. Y.; Zhu J. X.; He, H. P., Thermal degradation of organic matter in the interlayer clay-organic complex: A TG-FTIR study on a montmorillonite/12-aminolauric acid system, *Appl. Clay Sci.* 2013, (80-81): 398-406.
- [22] Liu, H. M.; Liu, D.; **Yuan, P.***; Tan D. Y.; Cai, J. G.; He, H. P.; Zhu J. X., Song, Zh. G., Studies on the solid acidity of heated and cation-exchanged montmorillonite using Hammett indicators and diffuse reflectance Fourier transform infrared spectroscopy (DRIFT), *Phys. Chem. Miner.* 2013, 40 (6), 479-489.
- [23] Liu, H. M.; **Yuan, P.***; Liu, D.; He, H. P.; Zhu, J., Effects of solid acidity of clays on thermal decomposition of 12-aminolauric acid. *J. Therm. Anal. Calorim.* 2013, 114 (1), 125-130.
- [24] Yan, W. C.; **Yuan, P.***; Chen, M.; Liu, D., Infrared spectroscopic evidence of a direct addition reaction between palygorskite and pyromellitic dianhydride. *Appl. Surf. Sci.* 2013, 265, 585-590.
- [25] Liu, D.; Yuan, W. W.; **Yuan, P.***; Yu W. B.; Tan D. Y.; Liu, H. M.; He, H. P., Physical activation of diatomite-templated carbons and its effect on the adsorption of methylene blue (MB). *Appl. Surf. Sci.* 2013, 282, 838-843.
- [26] **Yuan, P.**; Tan, D.; Annabi-Bergaya, F.; Yan, W.; Fan, M.; Liu, D.; He, H., Changes in structure, morphology, porosity, and surface activity of mesoporous halloysite nanotubes under heating. *Clay Clay Miner.* 2012, 60 (6), 561-573.
- [27] **Yuan, P.**; Southon, P. D.; Liu, Z. W.; Kepert, C. J., Organosilane functionalization of halloysite nanotubes for enhanced loading and controlled release. *Nanotechnology.* 2012, 23 (37).
- [28] Yang, S.Q; **Yuan, P.***; He,H.P.; Qin, Z.H.;Zhou,Q.; Zhu,J.X.; Effect of reaction temperature on grafting of gamma-aminopropyl triethoxysilane (APTES) onto kaolinite. *Appl. Clay Sci.* 2012, 62-63, 8-14.
- [29] Liu, D.; **Yuan, P.***; Tan, D. Y.; Liu, H. M.; Wang, T.; Fan, M. D.; Zhu, J. X.; He, H. P., Facile preparation of hierarchically porous carbon using diatomite as both template and catalyst and methylene blue adsorption of carbon products. *J. Colloid Interf. Sci.* 2012, 388, 176-184.
- [30] Yan, W. C.; Liu, D.; Tan, D. Y.; **Yuan, P.***; Chen, M., FTIR spectroscopy study of the structure changes of palygorskite under heating. *Spectrochim Acta A* 2012, 97, 1052-1057.
- [31] Liu, D.; **Yuan, P.***; Liu, H. M.; Cai, J. G.; Qin, Z. H.; Tan, D. Y.; Zhou, Q.; He, H. P.; Zhu, J. X., Influence of heating on the solid acidity of montmorillonite: A combined study by DRIFT and Hammett indicators. *Appl. Clay Sci.* 2011, 52 (4), 358-363.

- [32] Fan, M. D.; **Yuan, P.***; Bergaya, F.; He, H. P.; Chen, T. H.; Zhu, J. X.; Liu, D., A critical textural evolution study of zerovalent iron/montmorillonite nanosized heterostructures under various iron loadings. *Clay Clay Min.* 2011, 59 (5), 490-500.
- [33] **Yuan, P.**; Liu, D.; Fan, M. D.; Yang, D.; Zhu, R. L.; Ge, F.; Zhu, J. X.; He, H. P., Removal of hexavalent chromium Cr(VI) from aqueous solutions by the diatomite-supported/unsupported magnetite nanoparticles. *J. Hazard. Mater.* 2010, 173 (1-3), 614-621.
- [34] Qin, Z. H.; **Yuan, P.***; Zhu, J. X.; He, H. P.; Liu, D.; Yang, S. Q., Influences of thermal pretreatment temperature and solvent on the organosilane modification of Al³⁺-intercalated/Al-pillared montmorillonite. *Appl. Clay Sci.* 2010, 50 (4), 546-553.
- [35] Liu, D.; **Yuan, P.***; Tan, D. Y.; Liu, H. M.; Fan, M. D.; Yuan, A. H.; Zhu, J. X.; He, H. P., Effects of inherent/enhanced solid acidity and morphology of diatomite templates on the synthesis and porosity of hierarchically porous carbon. *Langmuir* 2010, 26 (24), 18624-18627.
- [36] Fan, M. D.; **Yuan, P.***; Chen, T. H.; He, H. P.; Yuan, A. H.; Chen, K. M.; Zhu, J. X.; Liu, D., Synthesis, characterization and size control of zerovalent iron nanoparticles anchored on montmorillonite. *Chin. Sci. Bull.* 2010, 55 (11), 1092-1099.
- [37] **Yuan, P.**; Fan, M. D.; Yang, D.; He, H. P.; Liu, D.; Yuan, A. H.; Zhu, J. X.; Chen, T. H., Montmorillonite-supported magnetite nanoparticles for the removal of hexavalent chromium Cr(VI) from aqueous solutions. *J. Hazard. Mater.* 2009, 166 (2-3), 821-829.
- [38] Fan, M. D.; **Yuan, P.***; Zhu, J. X.; Chen, T. H.; Yuan, A. H.; He, H. P.; Chen, K. M.; Liu, D., Core-shell structured iron nanoparticles well dispersed on montmorillonite. *J. Magn. Magn. Mater.* 2009, 321 (20), 3515-3519.
- [39] **Yuan, P.**; Southon, P. D.; Liu, Z. W.; Green, M. E. R.; Hook, J. M.; Antill, S. J.; Kepert, C. J., Functionalization of halloysite clay nanotubes by grafting with gamma-aminopropyltriethoxysilane. *J. Phys. Chem. C* 2008, 112 (40), 15742-15751.
- [40] **Yuan, P.**; Annabi-Bergaya, F.; Tao, Q.; Fan, M. D.; Liu, Z. W.; Zhu, J. X.; He, H. P.; Chen, T. H., A combined study by XRD, MR, TG and HRTEM on the structure of delaminated Fe-intercalated/pillared clay. *J. Colloid Interf. Sci.* 2008, 324 (1-2), 142-149.
- [41] **Yuan, P.**; Yin, X. L.; He, H. P.; Yang, D.; Wang, L. J.; Zhu, J. X., Investigation, on the delaminated-pillared structure of TiO₂-PILC synthesized by TiCl₄ hydrolysis method. *Micropor. Mesopor. Mat.* 2006, 93 (1-3), 240-247.
- [42] **Yuan, P.**; He, H. P.; Bergaya, F.; Wu, D. Q.; Zhou, Q.; Zhu, J. X., Synthesis and characterization of delaminated iron-pillared clay with meso-microporous structure. *Micropor. Mesopor. Mat.* 2006, 88 (1-3), 8-15.
- [43] **Yuan, P.**; Yang, D.; Lin, Z. Y.; He, H. P.; Wen, X. Y.; Wang, L. J.; Deng, F., Influences of pretreatment temperature on the surface silylation of diatomaceous amorphous silica with trimethylchlorosilane. *J. Non-Cryst. Solids* 2006, 352 (36-37), 3762-3771.
- [44] **Yuan, P.**; Wu, D. Q.; He, H. P.; Lin, Z. Y., The hydroxyl species and acid sites on diatomite surface: a combined IR and Raman study. *Appl. Surf. Sci.* 2004, 227 (1-4), 30-39.
- [45] **Yuan, P.**; He, H. P.; Wu, D. Q.; Wang, D. Q.; Chen, L. J., Characterization of diatomaceous silica by Raman spectroscopy. *Spectrochim Acta A* 2004, 60 (12), 2941-2945.
- [46] **Yuan, P.**; Wu, D. Q.; Lin, Z. Y.; Diao, G. Y.; Wei, J. F., Study on the surface hydroxyl species of diatomite using DRIFT Spectroscopy. *Spectrosc. Spectr. Anal.* 2001, 21 (6), 783-786.
- [47] **Yuan, P.**; Wu, D. Q.; Chen, Z.; Chen, Z. W.; Lin, Z. Y.; Diao, G. Y.; Peng, J. L., H-1 MAS NMR spectra of hydroxyl species on diatomite surface. *Chin. Sci. Bull.* 2001, 46 (13), 1118-1121.

承担科研项目情况:

曾(或正)承担国家自然科学基金面上项目(7项)和中科院知识创新工程方向性项目(含子课题)、973项目子课题、广东省自然科学基金等研究课题多项。

[首页](http://www.gig.cas.cn/)

[机构概况](http://www.gig.cas.cn/jggk/)

[组织机构](http://www.gig.cas.cn/jgsz/)

[科研成果](http://www.gig.cas.cn/kycg/)

(<http://www.gig.cas.cn/>) (<http://www.gig.cas.cn/jggk/>) (<http://www.gig.cas.cn/jgsz/>) (<http://www.gig.cas.cn/kycg/>) (<http://www.gig.cas.cn/>)