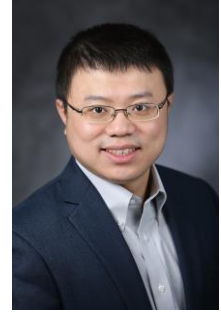


## 裴 鹏



至今共发表科研论文 60 余篇,其中以第一作者或通讯作者发表 SCI 论文 20 篇, EI 论文 9 篇, 专著 1 部;

主持中国国家自然科学基金项目 2 项、贵州省科技厅项目 3 项、贵州省教育厅科研项目 1 项、美国能源部项目 1 项;

入选 2017 年度中组部“青年千人”项目答辩阶段。

### 工作经历

2021.12 至今: 贵州大学矿业学院教授

2016.11 至 2021.12: 贵州大学矿业学院副教授

2013.1 至 2016.10: 美国北达科他大学(University of North Dakota)工程与矿业学院科研工程师

### 主要研究方向

一次能源勘探开发和二次能源转换利用的交叉领域

浅层地热能开发技术、新型煤电业态碳排放与减排潜力、碳捕集利用与封存

### 教育背景

2009.1~2012.12: 博士, 美国北达科他大学地质工程专业

2006.8~2008.12: 硕士, 美国北达科他大学机械工程专业(热能工程方向)

2001.9~2005.7: 学士, 华北电力大学(北京)机械工程专业

2012.6: 碳封存研究培训(Research Experience in Carbon Sequestration 2012)

由美国能源部化石燃料办公室及国家能源技术实验室联合主办, 仅选取 30 名在校研究生和青年专家, 培训二氧化碳捕集运输, 提高石油采收率方面的理论知识和现场经验

### 专家资格

国家自然科学基金通讯评审专家

美国化学学会石油基金评审专家

贵州省科技专家

贵州省能源行业专家

贵州省节能减排研究会专家委员会委员

贵州省评标专家

贵州省应急管理专家

贵阳市科技专家

## 获奖和奖励

第三届全国高校采矿工程专业青年教师讲课比赛一等奖，教育部高等学校矿业类专业教学指导委员会颁发，2019年7月

第九届全国高校采矿工程专业学生实践作品大赛二等奖（指导教师），教育部高等学校矿业类专业教学指导委员会颁发，2019年7月

2019年度“贵州大学卓越基金（青年教师）”三等奖，2019年12月

## 主持及参与的课题

1. 国家自然科学基金（地区项目），52066005，岩溶水文地质条件对埋管钻孔传热特性影响机理研究，2021/01-2024/12，35万元，在研，主持；
2. 国家自然科学基金（地区项目），51864008，基于焓分析法的岩溶地区地源热泵流固耦合传热机理研究，国家自然科学基金委员会资助，2019/01-2022/12，42万元，在研，主持；
3. 贵州省科技支撑计划，（黔科合支撑[2022]一般232），岩溶地区埋管群对地质环境热-流-固耦合影响研究，贵州省科技厅资助，2022/04-2025/03，80万元，在研，主持人；
4. 贵州省科技计划项目【基础研究计划】，黔科合基础[2018]1039，岩溶地区埋管地源热泵地下传热传质过程研究，贵州省科技厅资助，2018/08-2020/08，10万元，已结题，主持；
5. 贵州省科技计划项目【基础研究计划联合基金】，黔科合LH字[2017]7282，利用高温驱替技术提高黔北龙马溪组常压储层页岩气产量的研究，贵州省科技厅资助，2017/11-2019/12，8万元，已结题，主持；
6. 贵州省教育厅青年科技人才成长项目，黔教合KY字[2017]117，贵州省浅层地温能赋存条件与特征的研究，2018/01-2019/12，4万元，已结题，主持；
7. 国家自然科学基金面上项目，51774101，三维矿业颗粒破裂宏观细观力学行为结构效应研究，国家自然科学基金委资助，2018/01-2021/12，60万元，在研，参与；
8. 贵州省科技支撑计划，黔科合支撑[2020]2Y025，典型岩溶地区埋管热泵运行特性分析-以贵州清镇某项目为例，贵州省科技厅资助，2020/03-2023/03，100万元，在研，子课题主持人；
9. 美国北达科他州政府褐煤研究基金，北达科他州褐煤的地下煤气化可行性研究第二期，2014/01-2016/01，72万美元，已结题，第二主持人；
10. 美国能源部小型企业创新研究基金，新型补井水泥的特性测试，2015/10-2016/06，2.7万美元，已结题，主持；
11. 美国北达科他州政府褐煤研究基金，北达科他州褐煤的地下煤气化可行性研究，2012/08-2015/08，50万美元，已结题，主要参与者；
12. 美国能源部国家能源技术实验室，致力于提高巴肯(Bakken)储层（页岩、石灰岩）油气采收率的岩石力学研究，2008/09-2014/06，135万美元，已结题，主要参与者；
13. 美国能源部国家能源技术实验室，美国平原地区二氧化碳减排封存合作组织，

2008/06-2012/08, 3000 万美元, 已结题, 参与。

### 教授课程

本科生课程：工程热力学（双语）、弹性力学基础（双语）、地下采矿岩石力学、工程力学；

研究生课程：科技英文写作（双语）、非常规天然气地质与勘探。

### 教学改革

1. 高校工程类专业课程双语教学模式研究与实践，贵州大学校级教改项目，主持，  
2019.01-2021.08
2. 贵州大学线上线下混合式课程建设项目，贵州大学校级教改项目，主持，2020.08-2021.08
3. 裴鹏.工科专业课双语教学探索与实践.教育教学论坛，2021（36）：121-124.
4. 裴鹏.论高校工科青年“四有”好老师的成长之，新教育时代，2021.已录用

### 学术服务

1. 亚太科学与工程研究院(Asia Pacific Institute of Science and Engineering)评审委员会委员，中国香港
2. 第二届CO2技术与机遇峰会(CO2Summit II: Technologies and Opportunities)组织委员会委员，2016年4月10-14日，Santa Ana Pueblo, New Mexico, USA.
3. Journal of Geography and Geology编辑委员会委员(ISSN 1916-9779 Print, ISSN 1916-9787 Online)，加拿大多伦多
4. 第16届海峡两岸隧道与地下工程会议组委会委员，2017年8月19-21日，贵州贵阳
5. 第8届全国高等学校矿业石油安全学院院长学术论坛组委会委员，2018年9月19-21日，贵州贵阳
6. 第4届环境与能源工程国际会议组委会委员及评审专家，2020年3月12-15日，海南三亚

### 专利

1. 发明专利一种便携式野外炒菜锅, ZL2019 1 0068297.8, 丁威戈、裴鹏,
2. 发明专利一种治理地埋孔周围岩土热失衡的方法, ZL2019 1 0637797.9 裴鹏、邹行
3. 实用新型专利一种浅层地温能中增大换热面积装置, ZL2019 2 1746589.4, 裴鹏、商大成,
4. 实用新型专利一种井下投放式定位自救装置, ZL2020 2 2996474.X, 裴鹏、穆玄,
5. 实用新型专利一种能缓解地源热泵水平埋管热干扰排管结构, ZL2020 2 2321305.6,裴鹏、邹行,
6. 实用新型专利一种围岩应力与温度测量探管, ZL2021 2 0165302.X, 裴鹏、穆玄,
7. 实用新型专利一种地埋孔钻井岩屑收集设备, ZL2020 2 1698068.9, 裴鹏、杨斌

## 审稿人

累计应邀为 Elsevier 和 Springer 旗下学术期刊审稿 60 余次:

Applied Energy, Chemical Engineering Science, Energies, Energy, Energy Conversion and Management, Fuel and Energy Science Journal, International Journal of Coal Geology, International Journal of Energy Engineering, International Journal of Geology and Geography, International Journal of Greenhouse Gas Control, Journal of Natural Gas Science & Engineering, Journal of Unconventional Oil and Gas Research, Mitigation and Adaptation Strategies for Global Change, Elsevier 科技书籍,

## 部分代表性学术成果

### 专著

1. 裴鹏, 曾正文, 刘勇, 吴桂义, 王沉, 李伟. Study on Underground Coal Gasification Combined Cycle Coupled with on-site Carbon Capture and Storage. 210 千字, ISBN978-7-5646-4281-5. 中国矿业大学出版社. 2018.12.

### 已评审发表的文章

1. Chen, Y., Luo, T., **Pei, P\***, Ran, Y., Tang, L. 2022. Development of a phase change backfill material with high heat capacity and high thermal conductivity used for ground source heat pumps. *International Journal of Energy Research*, 2023(6):1-18, (SCI 2 区收录)
2. Luo, T., **Pei, P\***, Chen, Y., Hao, D., Wang, C. 2022. Improvements in the water retention characteristics and thermophysical parameters of backfill materials in GSHP by a molecular sieve. *Energies* 2022, 15, 1081 (SCI 3 区收录)
3. Luo, T., **Pei, P\***, Wu, J., Wang, C., Tu, H. 2022 Research on the application of fracture water to mitigate thermal imbalance of rock mass associated with operation of ground-coupled heat pumps. *Energies* 2022, 15(17), 6385 (SCI 3 区收录)
4. 陈仪侠,裴鹏,罗婷婷,邓凤强,邹行.2022. 复杂地质条件下浅层地热能开发中地埋管布置优化研究[J]. 中国水运(下半月). 2022(06) (SCD)
5. 穆玄, 裴鹏\*, 周鑫, 屠洪盛. 岩溶构造对地埋管群换热效率影响数值模拟研究. 煤田地质与勘探(EI 收录) 2022,50(10)
6. 穆玄, 裴鹏\*, 杨斌, 刘旺, 罗婷婷. 岩溶地区竖直埋管热泵系统建设成本分析——以某地源热泵项目为例.建筑经济 (核心) 2022,43(S1)
7. 杨斌, 裴鹏\*, 罗婷婷, 郝定溢, 王沉. 2021.岩溶地区特殊地质条件对 U 型地埋管换热器的传热影响研究. 太阳能学报 (EI 收录) 2022, 43(12) 510-519.

8. 邓凤强, 裴鹏\*. 复杂地质条件下浅层地热能场地开发适宜性评价. 2021.建筑节能 (SCD) 2022,50(12),221-229.
9. 邹行, 裴鹏\*, 郝定溢, 王沉. 2021.不同土壤类型与含水率对水平埋管换热性能影响数值分析. 煤田地质与勘探(EI 收录) 2021,49(06)
10. Liu, W., **Pei, P.\***, 2022. Evaluation of the influencing factors of using underground space of abandoned coal mines to store hydrogen based on the improved ANP method, *Advances in Materials Science and Engineering*, vol. 2021, Article ID 7506055, 9 pages, 2021. <https://doi.org/10.1155/2021/7506055> (SCI 4 区收录)
11. Zou, H., **Pei, P.\***, Zhang, J. Impacts of hydrogeological characters of fractured rock on thermodynamic performance of ground-coupled heat pump. *PLoS One*. 16(5): e0252056. [doi.org/10.1371/journal.pone.0252056](https://doi.org/10.1371/journal.pone.0252056). (SCI 3 区收录)
12. Zou, H., **Pei, P.\***, Hao, D., Wang, C. A numerical study on heat transfer performances of horizontal ground heat exchangers in ground-source heat pumps. *PLoS One* 16(5): e0250583. <https://doi.org/10.1371/journal.pone.0250583> (SCI 3 区收录)
13. 罗婷婷, 裴鹏\*换热孔回填材料含水率特征变化规律及其对热物性影响研究. 太阳能学报 (EI 收录) 2022,43(07)
14. 邹行, 裴鹏\*, 郝定溢, 王沉. 土壤水力学特征对水平埋管换热能力的影响分析. 太阳能学报 (EI 收录) 2022,43(05)
15. Shang, D., **Pei, P.\***. Analysis of Influencing Factors of Modification Potential of Abandoned Coal Mine into Pumped Storage Power Station. *Journal of Energy Resources Technology - Transactions of the ASME*. 143-112003-1 (SCI 3 区收录 IF=3.183)
16. Shang D., **Pei, P.\***, Zuo Y. Techno-economic Feasibility Analysis of Pumped Storage Hydroelectricity in Abandoned Underground Coal Mines. *Journal of Energy Resources Technology-Transactions of the ASME*. 142-10 (SCI 3 区收录 IF=3.183)
17. Zhou, W., **Pei, P.\***, Mao R., Qian H., Hu Y., Zhang J. Selection and techno-economic analysis of hybrid ground source heat pumps used in karst regions. *Science Progress*. 2020, 103(2) 1-17 (SCI 4 区收录 IF=1.299)
18. Zhou, W., **Pei, P.\***, Hao D, Wang C. A Numerical Study on the Performance of Ground Heat Exchanger Buried in Fractured Rock Bodies. *Energies* 2020, 13, 1647 (SCI 3 区收录 IF=2.458)
19. Sui, H., **Pei, P.\***, Su Q, Ding W, Mao R. Study of temperature effects on economic performance of CO<sub>2</sub> enhanced shale gas recovery. *Journal of Energy Resources Technology-Transactions of the ASME*. 2020; 142(3): 032903. doi: <https://doi.org/10.1115/1.4044577> (SCI 3 区收录 IF=3.183)
20. Mao, R, Zhang, J, **Pei P.\***, Xie Z, Zhou X. Adsorption characteristics of clay-organic complexes and their role in shale gas resource evaluation. *Energy Science and Engineering*. 2019, 7 (1) :108-119. (SCI 3 区收录 IF=2.172)
21. **Pei, P.\***, Ling, K., Hou, X., Nordeng, S., and Johnson, S. 2016. Brittleness investigation of producing units in Three Forks and Bakken formations, Williston Basin. *Journal of Natural Gas Science and Engineering*, 32: 512-520. (SCI 3 区收录 IF=2.157)
22. **Pei, P.\***, Nasah, J., Solc, J., Korom, S.F., Laudal, D. and Barse, K. 2016. Investigation of the

- feasibility of underground coal gasification in North Dakota, United States. *Energy Conversion and Management*, 113: 95-103. (SCI 1 区 Top 收录 IF=4.512)
23. **Pei, P.**\*, Barse, K., and Nasah, J. 2016. Competitiveness and cost sensitivity study of underground coal gasification combined cycle using lignite. *Energy & Fuels*, 30 (3):2111-2118. (SCI 2 区 Top 收录 IF=2.790)
24. **Pei, P.**\*, Laudal, D., Nasah, J., Johnson, S., and Ling, K. 2015. Utilization of aquifer storage in flare gas reduction. *Journal of Natural Gas Science and Engineering*, 27: 1100-1108. (SCI 3 区 收录 IF=2.157)
25. **Pei, P.**\*, Ling, K., He, J., and Liu, Z., 2015. Shale gas reservoir treatment by a CO<sub>2</sub>-based technology. *Journal of Natural Gas Science and Engineering*, 26: 1595-1606. (SCI 3 区 收录 IF=2.157)
26. **Pei, P.**\*, Korom, S., Ling, K., He, J., and Gil, A., 2015. Thermodynamic impact of aquifer permeability on the performance of a compressed air energy storage plant. *Energy Conversion and Management*, 97: 340-350. (SCI 1 区 Top 收录 IF=4.512)
27. **Pei, P.**\*, Barse, K., Gil, A., and Nasah, J., 2014. Waste recovery in CO<sub>2</sub> compression. *International Journal of Greenhouse Gas Control*, 30: 86 - 96. (SCI 2 区 收录 IF=4.764)
28. **Pei, P.**\*, Korom, S., Ling, K. and Nasah, J. 2014. Cost comparison of syngas production from natural gas conversion and underground coal gasification. *Mitigation and Adaptation Strategies for Global Change*, 21(4): 629 - 643. (SCI3 区 收录 IF=2.669).
29. J. Ma, Y. Tang, D.Q. Yang, and **P. Pei**. 2020. Kinetics of advanced oxidative leaching of pyrite in a potassium peroxydisulphate solution. *The Journal of the Southern African Institute of Mining and Metallurgy*. 120:1-8/ (SCI4 区 收录).
30. X Li, L Chen, **Pei P.**, J Bi. Shale adsorption characteristics of the Lower Cambrian Niutitang Formation in northern Guizhou based on surface free energy and isosteric heat data. *Arabian Journal of Geosciences*. (2020)13:1217. (SCI 4 区 收录)
31. P Li, P Hua, D Gui, J Niu, **P. Pei**, J Zhang & P Krebs. A comparative analysis of artificial neural networks and wavelet hybrid approaches to long-term toxic heavy metal prediction. *Scientific Reports*, volume 10, Article number: 13439 (2020) (SCI3 区 收录 IF=4.131)
32. Zeng, J., Tian, S., Wu, G., Xu, S., **Pei, P.** and Wang C. 2019. The research of coal seam gas pressure and initial gas emission characteristics of borehole. *Energy Science & Engineering*. 2019; 00:1-9. (SCI 收录 IF=2.172)
33. Ling, K., He, J., **Pei, P.**, Ge, J. and Qin, W. 2016. A new correlation to evaluate the fracture permeability changes as reservoir is depleted. in progress. *Journal of Petroleum Science and Engineering*, doi:10.1016/j.petrol.2016.05.030. (SCI 收录 IF=1.624)
34. He, J., Ling, K., **Pei, P.**, and Ni, X. 2016. Calculation of rock compressibility by using the characteristics of downstream pressure change in permeability experiment. *Journal of Petroleum Science and Engineering*, 143: 121-127. (SCI 收录 IF=1.624)
35. Ling, K., He, J., **Pei, P.**, Wang, S. 2016. Comparisons of Biot's coefficients of Bakken core samples measured by three Methods, ARMA 16-30. *Proceedings of the 50th US Rock Mechanics / Geomechanics Symposium*, Houston, Texas, USA, 26-29 June 2016. (EI 收录)
36. Ling, K., He, J., **Pei, P.**, Ge, J. and Ni, X. 2015. A method to determine pore compressibility based on permeability measurements. *International Journal of Rock Mechanics and Mining Sciences*, 80: 51-56. (SCI 收录 IF=2.312)
37. Ling, K., He, J., Ge, J., **Pei, P.** and Shen, Z. 2015. A rigorous method to calculate the rising

- speed of gas kick. *Journal of Petroleum Exploration and Production Technology*, 5: 81-89. (EI 收录)
38. Ling, K., He, J., **Pei, P.** and Ni, X. 2015. Reducing the uncertainty in tight rock porosity estimation by combining different methods-Bakken Formation Case, ARMA 15-537. *Proceedings of the 49th US Rock Mechanics / Geomechanics Symposium*, San Francisco, California, USA, 28 June - 1 July 2015. (EI 收录)
39. He, J., Ling, K., **Pei, P.** and Ni, X. 2015. Experimental investigation on the effect of pore pressure on rock permeability – Bakken formation case, ARMA 15-36. *Proceedings of the 49th US Rock Mechanics / Geomechanics Symposium*, San Francisco, California, USA, 28 June - 1 July 2015. (EI 收录)
40. **Pei, P.**, Zeng, Z., and Ling, K., 2014. Finite element study of paleostress and natural fracture development in the Bakken formation, Nesson anticline area, North Dakota. *Journal of Petroleum Science and Research*, 3(4): 197 - 208.
41. **Pei, P.**, He, J. And Ling, K., 2014. Correlating geomechanical properties of Bakken rocks with stratigraphic sequence, paper ARMA 14-7347. *Proceedings of the 48th U.S. Rock Mechanics / Geomechanics Symposium*, Minneapolis, Minnesota, USA. 1-4 June 2014. (EI 收录)
42. Ling, K., Xu, C., Han, G., He, J., and **Pei, P.** 2014. A new method for leak detection in gas pipelines. *SPE Oil and Gas Facilities*, 4(2): 97-106.
43. Ling, K., He, J., **Pei, P.** and Ni, X. 2014. Identifying fractures in tight rocks using permeability test data, paper ARMA 14-6984. *Proceedings of the 48th U.S. Rock Mechanics / Geomechanics Symposium*, Minneapolis, Minnesota, USA. 1-4 June 2014 Symposium held in Minneapolis, MN, USA, 1-4 June 2014. (EI 收录)
44. Ling, K., He, J., **Pei, P.** and Ni, X. 2014. A new method to determine pore compressibility, paper ARMA 14-6964. *Proceedings of the 48th U.S. Rock Mechanics / Geomechanics Symposium*, Minneapolis, Minnesota, USA. 1-4 June. (EI 收录)
45. Ling, K., He, J. and **Pei, P.** 2014. Gas-oil-water production and water-gas injection forecasts in Williston basin, *Journal of Petroleum Science and Research*, 3(3):119-129.
46. Ling, K., Shen, Z., Han, G., He, J. and **Pei, P.** 2014. A Review of Enhanced Oil Recovery Methods Applied in Williston Basin, URTEC: 1891560. *Proceedings of the Unconventional Resources Technology Conference*, Denver, Colorado, USA, 25-27 August. (EI 收录)
47. He, J., Ling, K., **Pei, P.** and Ni, X. 2014. Calculation of rock compressibility by use of pressure buildup in permeability experiment. URTEC: 1928297. *Proceedings of the Unconventional Resources Technology Conference*, Denver, Colorado, USA, 25-27 August. (EI 收录)
48. Jensen, M.D., **Pei, P.**, Snyder, A.C., Heebink, L.V. and Cowan, R.M. 2013. Methodology for phased development of a hypothetical pipeline network for CO<sub>2</sub> transport during carbon capture, utilization and storage. *Energy & Fuels*, 2013, 27 (8): 4175-4182. (SCI 收录 IF=2.790)
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