

研究队伍

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简历:

1984年7月获中国地质大学(武汉)地质学理学学士学位。1987年7月和2001年7月分别获该校构造地质学理学硕士学位和矿产勘探专业(石油构造分析方向)工学博士学位。2001年10月-2003年9月在中科院广州地球化学研究所从事博士后研究工作,出站后留所工作。2009年晋升为广州地球化学研究所研究员

主要从事大火成岩省和地幔柱及其生物灭绝事件,大陆内部(特别是盆地)沉积岩浆构造关系研究。主要研究成果包括:(1)在峨眉山大火成岩省的形成机制、年代学、地幔柱动力学过程及其地质响应生物灭绝事件等方面,取得了一些有意义的科研成果。(2)对北京西山房山岩体岩浆底辟的厘定为花岗岩上升和定位研究提供了一个范例,为北京西山的构造研究提供了一个新思路。已发表论文50余篇,其中SCI论文20篇。

研究领域:

1. 大火成岩省、地幔柱及其生物灭绝事件
2. 十万大山盆地沉积-岩浆-构造演化
3. 中国东部中生代岩浆-变质-变形

获奖及荣誉:

2014年,广东省科学技术一等奖(排名第二)

代表论著:

2017

Hou YL, Zhong YT, Xu YG, He B*. 2017. The provenance of late Permian karstic bauxite deposits in SW China, constrained by the geochemistry of interbedded clastic rocks, and U-Pb-Hf-O isotopes of detrital zircons. *Lithos*, 278, 240-254

王继林 何斌*, 2017, 安徽洪镇地区董岭群片麻岩独居石SIMS U-Th-Pb定年 大地构造与成矿学 159(8) 768-775

2016

王继林 何斌*, 2016, 安徽洪镇地区董岭群碎屑锆石U-Pb年代学及其地质意义 大地构造与成矿学 155(6) 1239-1246

2015

王继林 何斌*, 靳立杰, 2015, 庐山星子变质穹窿中变形花岗伟晶岩脉中多期不同成因锆石的发现及意义 大地构造与成矿学 147(4) 729-742

2014

He B*, Zhong YT, Xu YG, Li XH, 2014. Permo-Triassic Mass Extinction: Siberian Traps or an ignimbrite flare-up? *Lithos*, 204: 258-267

Li J, Wang XC, Ren ZY, Xu JF, He B., Xu YG. 2014. Chemical heterogeneity of the Emeishan mantle plume: Evidence from highly siderophile element abundances in picrites. *Journal of Asian Earth Sciences* 79: 191-205

Zhong YT, He B, Mundil R, Xu YG. 2014. CA-TIMS zircon U-Pb dating of felsic ignimbrite from the Binchuan section: Implications for the termination age of Emeishan large igneous province. *Lithos*, 204: 14-19.

2013

Li HY, Xu YG, Huang XL, He B and Liu YM. 2013. Detrital zircons reveal no Jurassic-Early Cretaceous plateau in the eastern North China Craton. *Gondwana Research*, 24: 622-634

Zhong Y-T, B He, Y-G Xu, 2013. Mineralogy and Geochemistry of Claystones from the Guadalupian-Lopingian Boundary at Penglitan, South China: Insights into the pre-Lopingian Geological Events. *Journal of Asian Earth Sciences*, 62: 438-462

2012

- 杨宗永 何斌*, 2012, 南盘江盆地中三叠统碎屑锆石地质年代学:物源及其地质意义 大地构造与成矿学 135 (4) 581-596
2011
- He B; Xu Y-G; Guan J-P., Zhong YT. 2011. Reply to comment on 'Paleokarst on the top of the Maokou Formation: further evidence for domal crustal uplift prior to the Emeishan flood volcanism'. *Lithos* 125: 1009-1011 DOI: 10.1016/j.lithos.2011.05.009
2010
- He B, YG Xu*, YT Zhong, JP Guan, 2010. The Guadalupian-Luopingian Boundary mudstones at Chaotian (SW China) are clastic rocks rather than acidic tuffs: Implication for a temporal coincidence between the end-Guadalupian mass extinction and the Emeishan volcanism. *Lithos* 119: 10-19
- He B, YG Xu, YT Zhong, JP Guan, 2009, Paleokarst on the top of the Maokou Formation: Further evidence for domal crustal uplift prior to the Emeishan flood volcanism. *Lithos* 119: 1-9
- Li, H.-Y., He, B., Xu, Y.-G., Huang, X.-L. 2010. U-Pb and Hf isotope analyses of detrital zircons from Late Paleozoic sediments: Insights into interactions of the North China Craton with surrounding plates. *Journal of Asian Earth Sciences*, 39, 335 – 346
- Xu YG, S-L Chung, H Shao and He B, 2010. Silicic magmas from the Emeishan large igneous province, Southwest China: Petrogenesis and their link with the end-Guadalupian biological crisis. *Lithos* 119: 47-60
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- He B*, Xu YG, S Patterson, 2009. Magmatic diapirism of the Fangshan pluton, southwest of Beijing, China. *Journal of Structural Geology*, 31: 615-626
2008
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2007
- Xu YG, He B, XL Huang, ZY Luo, SL Chung, L Xiao, D Zhu, H Shao JF Xu., WM Fan, YJ Wang. 2007. Testing plume hypothesis in the Emeishan large igneous province. *Episodes* 30: 32-42
- Xu YG, He B, 2007. Thick and high velocity crust in Emeishan large igneous province, SW China: Evidence for crustal growth by magmatic underplating/intraplating. *The Origins of Melting Anomalies: Plates, Plumes, and Planetary Processes*, edited by G Foulger and D Jurdy. Geological Society of America Special Publication 430: 841-858
- He B, YG Xu, XL Huang, ZY Luo, YR Shi, QJ Yang, SY Yu, 2007. Age and duration of the Emeishan flood volcanism, SW China: Geochemistry and SHRIMP zircon U-Pb dating of silicic ignimbrites, post-volcanic Xuanwei Formation and clay tuff at the Chaotian section. *Earth and Planetary Science Letters* 255: 306-323
2006
- He B., YG Xu, Ya-Mei Wang, Zhen Yu Luo, 2006. Sedimentation and lithofacies paleogeography in SW China before and after the Emeishan flood volcanism: New insights into surface response to mantle plume activity. *Journal of Geology* 114: 117-132
2004
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- Xiao L, Y.G. Xu, H.J. Mei, Y.F. Zheng, B. He, F Pirajno, 2004. Distinct mantle sources of low-Ti and high-Ti basalts from the western Emeishan large igneous province, SW China: implications for plume–lithosphere interaction. *Earth and Planetary Science Letters* 228: 525-546
2003
- He B., Xu Y-G, Chung S-L, Xiao, L. and Wang Y, 2003. Sedimentary evidence for a rapid crustal doming prior to the eruption of the Emeishan flood basalts. *Earth Planet. Sci. Lett.* 213(3-4): 389-403
- Xiao L., Xu Y-G, Chung S-L, Bin He, Mei HJ. 2003. Chemostratigraphic Correlation of Upper Permian Lava Succession from Yunnan Province, China: Extent of the Emeishan Large Igneous Province. *International Geologic Review*, 45: 753-766

承担科研项目情况:

1. 中国科学院先导专项B子课题“古-中生代之交火山物源特征及其与生物生态事件的对应关系”, 2016-2021 (主持)
2. 国家重点研发计划项目“燕山期重大地质事件的深部过程与资源效应”子课题“华南中生代盆地的构造—沉积演变及外生矿产”, 2017-2020 (主持)
3. 国家自然科学基金面上项目“西伯利亚火山灰在华南地区的沉积记录”, 2015-2018 (主持)