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## 简历:

1987年毕业于浙江大学地质系, 1994年获法国巴黎第七大学博士学位。1994-1995年英国伦敦大学 Royal Holloway 学院地质系博士后。现任中国科学院广州地球化学研究所研究员, 所长, 同位素地球化学国家重点实验室主任。2017年当选中国科学院院士。兼任国际火山和地球内部化学协会(IAVCEI)大火成岩省委员会委员, 国际地球化学学会Award Nomination Committee 委员; IAVCEI中国委员会主席, IAVCEI 2006大会主席, 中国矿物岩石地球化学学会火山专业委员会主任, 广东省矿物岩石地球化学学会理事长, IAVCEI中国委员会主席。Terra Nova, Mineralogy and Petrology, International Geology Review, Episodes副主编。获国家杰出青年基金资助(1999年), 入选“南粤百杰”(2013年)。

主要从事地幔岩石学、地球化学和深部动力学研究。主要成果包括: (1)系统总结了我国东部岩石圈减薄的地质学、岩石学和地球化学证据, 根据中-新生代火山岩的地球化学演化规律, 限定了岩石圈减薄的时间和机制。(2)从沉积学、岩石学、地球化学和地球物理等方面系统地论证了地幔柱活动在峨眉山大火成岩省形成中的作用, 提出了岩石分类方案, 揭示了地幔柱活动方式及其对矿产资源形成的关系。已发表论文280余篇, 其中SCI论文190篇, 作为Guest Editors在Lithos和Episodes 主编专集三部; SCI他引7000余次, H-index 47, 入选美国信息科学研究所基本科学指数地学高引用率科学家目录。

## 研究领域:

1. 地幔岩石学、地球化学和深部动力学
2. 大火成岩省与地幔柱
3. 地球深部过程与地表系统演变

## 获奖及荣誉:

- 2014年, 广东省科学技术一等奖(排名第一)
- 2011年, 国家自然科学基金二等奖(排名第一)
- 2010年, 国土资源部科技一等奖(排名第十二)
- 2006年, 广东省科学技术一等奖(排名第一)
- 2013年, “李四光”奖
- 2006年, “孙贤鉢”奖
- 2000年, 广东省“五四青年”奖章
- 1998年, 中国科学院“杰出青年”, 中国青年科技奖, “侯德封奖”
- 1997年, 金锤奖

## 代表论著:

## 2017

- Cao J, Wang CY, Xu Y-G\*, Xing CM, Wei X, Sun YL, Li J., 2017. Triggers on sulfide saturation in Fe-Ti oxide-bearing, mafic-ultramafic layered intrusions in the Tarim large igneous province, NW China. Mineralium Deposita, 52: 471-494 DOI: 10.1007/s00126-016-0670-z
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- Ren ZY, Y-D Wu, L Zhang, A.R.L. Nichols, L-B Hong, Y-H Zhang, Y Zhang, J-Q Liu, **Y-G Xu**. 2017. Primary magmas and mantle sources of Emeishan basalts constrained from major element, trace element and Pb isotope compositions of olivine-hosted melt inclusions. *Geochimica et Cosmochimica Acta* 208, 63-85
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- Tong LX, B-M Jahn, X Liu, X Liang, **YG Xu**, D Ionov, 2017. Ultramafic to mafic granulites from the Larsemann Hills, East Antarctica: Geochemistry and tectonic implications. *JAES*
- Wang F, **Y-G Xu**, W-L Xu, L Yang, W Wu. 2017. Initiation of Paleo-Pacific Plate subduction beneath the Eurasian continent: Evidence from Early Jurassic calc-alkaline magmatism in NE northeast China. *Journal of Asian Earth Sciences* 143: 249-268
- Zhang Y-H; Z-Y Ren; L-B Hong; Y Zhang; L Zhang; S-P Qian; **Y-G Xu**; L-L Chen. 2016. Differential partial melting process for temporal variations of Shandong basalts revealed by melt inclusions and their host olivines. *GR*, in press
- Zhang Y, X Wei, **YG Xu**, XP Long, XF Shi, JX Zhao, YX Feng, 2017. Sr-Nd-Pb isotopic compositions of the lower crust beneath northern Tarim: insights from igneous rocks in the Kuluketage area, NW China. *Mineralogy and Petrology* 111 (2), 217-252
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## 2016

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## 2014

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- 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

- Hong, L. B., Y.H. Zhang, S.P. Qian, J.Q. Liu, Z.Y. Ren, Y.G. Xu, 2013. Constraints from melt inclusions and their host olivines on the petrogenesis of Oligocene-Early Miocene Xindian basalts, Chifeng area, North China Craton. **Contributions to Mineralogy and Petrology**, 165: 305-326
- Huang, X.L., Niu, Y.L., Xu, Y.G., Qiu, H.N., Ma, J.L., Zhong, J.W., 2013. Geochronology and geochemistry of Cenozoic basalts from eastern Guangdong, SE China: constraints on the lithosphere evolution beneath the northern margin of the South China Sea. **Contributions to Mineralogy and Petrology**, 165 (3): 437-455
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- Liu HQ, Xu YG\*, He B, 2013. Implications from zircon-saturation temperatures and lithological assemblages for Early Permian thermal anomaly in northwest China. **Lithos**, 182-183: 125-133
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## 2011

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承担科研项目情况:

1. 中国科学院先导专项B“地球内部运行机制与地表系统演变”, 2016-2021 (主持)
2. 国家海洋局国际合作项目“西太平洋俯冲带及弧后盆地系统”, 2017-2021 (主持)
3. 国家基金委基础科学中心项目“华北克拉通破坏与陆生生物演化”, 2017-2022 (参加)