

# 53 Dr Xuan-Ce Wang

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## Education

- Ph.D. in Geochemistry, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences (CAS), 2008
- M.Sc. in Geochemistry, China University of Geoscience, 2004
- B.Sc. (Hons) in Geology, China University of Geoscience, 2001

## Awards

- ARC *Future Fellowship*, 2014-present
- Shanxi '**Bai-Ren**' Scholarship, 2015-present
- Curtin ECR *highest Research Performance Index*, 2013
- ARC *Early Career Start-up Award* for Researchers (equivalent to *DECRA*) through the ARC Centre of Excellence in Core to Crust Fluid Systems (CCFS) 2012
- "*President's Scholarship*" from the Chinese Academy of Sciences in 2008, which is awarded to outstanding PhD graduates with great potential in science nation-wide

## Employment history

- 2015-present, Associate professor, ARC Future Fellow, Curtin University
- 2011-2013, Senior Research Fellow, ARC Centre of Excellence in Core to Crust Fluid Systems (CCFS) and Curtin University
- 2009-2010, Senior Research Fellow, Curtin University jointly funded with UWA
- 2008-2009, Postdoctoral Research Associate, Institute of Geology and Geophysics

(CAS)

### **Honorary Research Positions**

- 2014-Present, Adjunct Professor, Guangzhou Institute of Geochemistry (CAS), China
- 2014-Present, Adjunct Senior Research Fellow, University of Queensland, Australia
- 2015-Present, Adjunct Professor, Chang'an University, China

### **Research Interests**

- Origin and evolution of the Earth's crust and mantle: 13 papers in Nature Communications (1#, publication number in **Selected Refereed Journal Articles** below), Earth & Planetary Science Letters (4#), Geology (13#, #16), Lithos (2#, 9#, 10#, 18#, 17# and 21#), and Precambrian Research (3#), GSA Bulletin (12#), and Gondwana Research (#11)
- Deciphering early Earth processes and subsequent silicate Earth evolution using short-lived isotope systems: 3 papers in Earth Planet. Sci. Lett. (4#), Precambrian Res (5#), and Journal of Petrology (6#), and 1 under review in Earth Planet. Sci. Lett
- Relationship between deep-Earth geodynamics and paleoclimate changes: 1 in Geology (ranked as one of the 50 Most-Frequently Read Articles 2011) and 1 under review in Science
- Characterization and isotope dating of source rocks and hydrocarbon generation for exploration targeting: 1 in Geochim. Cosmochim. Acta and 3 under revision
- Analytical geochemistry, including both whole-rock and in-situ microbeam analysis: 4 in Geostandards and Geoanalytical Research (23#, 32#, 33#, and 40#), 2 in Journal of Analytical Atomic Spectrometry (24, 34), 1 in Analytical Chemistry (25#), and 1 under review in Analytical Chemistry

### **Research Funding and Resources**

*Over the past five years I have received the equivalent of ~\$2.4M in competitive research funding as a leading CI as follows:*

- 'Measurement of Re-Os isotopes in reservoir bitumen' support from **PetroChina** Research Institute of Petroleum Exploration & Development, 2016. Funding: \$68k, **Lead CI**
- 'New method for development and its application for source-oil correlation and dating of source rocks and hydrocarbon generation for exploration targeting', support from PetroChina, 2016-2019. Funding: \$200k, **Lead CI**
- "Roles of deep-Earth fluid cycling in the generation of intra-continental magmatism", funded under **ARC Future Fellowship**, 2014-2018. Funding: \$760k (ARC) + \$720k (Curtin), **Sole CI**
- **ARC Early Career Start-up Award for Researchers** through the CCFS, 2011-2013. Funding: \$375k, **Sole CI**
- "A See project for chemical geodynamic research team" support from Chang'an

University, 2016-2017, funding: \$60k, *Lead CI*

- ‘*Deep-Earth geodynamics and surface environment and resources response*’, support from Chang’an University, 2017-2020. Funding: \$400k, *Lead CI*
- ‘Integrated studies of  $^{146}\text{Sm}$ - $^{142}\text{Nd}$  and  $^{147}\text{Sm}$ - $^{143}\text{Nd}$  for Archean komatiites in Western Australia and 3.6-3.8 Ga Anshan TTG in the North China Craton’, support from National Science Foundation of China, 2014-2017. Funding: \$135k, *Co-CI*
- ‘*The petrogenesis of the Leiqiong flood basalts: Implication for Hainan Plume*’, support from National Science Foundation of China, 2012-2015. Funding: \$140k, *Co-CI*
- ‘*Detecting the recycled components in the source of the Late Cenozoic Chifeng continental flood basalts: Constraints from Pb-Os isotopes*’, supported from the Guangzhou Institute of Geochemistry, 2013-2014. Funding: \$36k, *Lead CI*
- ‘*Characteristics of Phanerozoic sub-continental lithospheric mantle of the Yangtze Craton constrained by basalts and lamproites*’, support from National Science Foundation of China, 2010-2012. Funding: \$80k, *Co-CI*
- ‘*Petrogenesis of Cenozoic flood basalts in Inner Mongolia and their mantle dynamic implications*’, support from National Science Foundation of China, 2009-2011. Funding: \$33k, *Lead CI*
- ‘*Petrogenesis of Hainan basalts*’, Curtin University pilot study grant, 2009-2011. Funding: \$25k, *Lead CI*

***Submitted or in preparation project in coming one year***

- Sub-project of the Major Research plan of the National Natural Science Foundation of China, “the Xingmeng orogenic belt” (leader: Professor Yongsheng Liu, China University of Geoscience), 2017-2019, Co-CI (深地)
- Regional Collaboration on Clean Energy Alternatives to Power Economic Growth in Russia, China and Australia (Leader: Professor Kliti Grice from Curtin University), 2017-2019, Co-CI (Regional Collaborations Programme; the full application will be submitted soon)
- Regional Collaborations Programme: *Quantifying the trace chemicals from vegetation burning in snow and ice cores from Antarctica*, Funding: 2017-2018, Funding: \$100k, Lead CI (the full application will be submitted soon)
- Major project of national science foundation of china Programme: *Long-term record of climate change from Ice cores in Antarctica*, collaborating with Professor Yuansheng Li from the Polar Research Institute of China, Dr Tianhua He from Curtin, Prof. Jian-Xin Zhao and Dr Yue-Xing Feng from UQ, Co-CI
- One ARC discovery project focus on the early Earth differentiation, collaborating with Prof. Simon Wilde (in preparation)
- One linkage project “Characterization and isotope dating of source rocks and hydrocarbon generation for exploration targeting”, collaborating with Prof. Jian-Xin Zhao and Sue Golding from UQ and Prof Keyu Liu from Chinese University of Petroleum (This project was highly ranked yet unsuccessful in 2015 and will be re-submitted late 2017 or early 2018), Lead CI.

## Publications

- **63 publications** in refereed, international journals (33 in journals with IF >3.0); **6 additional papers** have been submitted or are currently in revision
- **14 first-author papers** and **4 corresponding-author papers**, most of them in highly-ranked international journals including 1 Nature Communications, 2 in Geology, 1 in Earth and Planetary Science Letters, 1 in Journal of Petrology
- **11 papers** were rated as the **Most-Downloaded/-Read** Articles and **2 papers** are ranked as **highly-cited papers** by The ISI web of Knowledge
- **2638** ISI citations with an h-index of **21** in *Scopus*, **2300** ISI citations with h-index of **21** in *web of science* and **3376** with h-index of **25** in Google Scholar (*Dec 2016*)
- Research Gate RG Score: 36.58 (>95%) in Dec. 2016
- Two papers related to supercontinent reconstruction were highlighted by NatureChina as breakthrough scientific discoveries in 2007 and 2008

## Supervision of Research Students and Associates

- 2010-2013 (completed, Curtin-based): supervised Drs Wei-Hua Yao, Chongjing Pang, Dr Li-Feng Meng on geochemistry and geochronology and co-authored three research papers in Lithos (publication numbers #21, #37, and #38)
- 2013-2016 (current, Curtin-based): **3** students as the **principal** supervisor (Zong-Ying Huang, Shaojie Li, and YanYang Wang); **1** student as **co-supervisor** (Camilla Stark)
- 2011-2016 (Non-Curtin-based): **co-supervisor**, 3 completed (2 CAS-based, Drs Yan-Nan Yang, Tao Cen and 1 UQ-based, Dr En-Tao Liu), 3 current (Pv-Liang Lv, Jing-Xiong Cheng, Hao-Yu Yan) and co-authored 3 papers on international journals (#15, #17, #26)
- 1 Curtin funded post-doctoral research associate (Dr Zhen Li), Feb 2016-present.
- 2 China funded post-doctoral research associate (Dr Tao Wu, jointly with UQ), 2016 onwards
- Mentor, ARC discovery, DECRA and Future fellow Projects, Faculty of Science and Engineering

## Leadership and Community Service

- Current leader of an international collaborative research on development of a multiple isotope approach for direct dating of hydrocarbons and their source rocks, including development of new proxies for oil-oil and oil-source rock correlations in petroleum reservoirs. Participants: Dr Svetlana Tessalina, Profs Brent McInnes, Chris Elders, and Kliti Grice from Curtin, Profs Jian-Xin Zhao and Sue Golding from UQ, Prof. Keyu Liu from PetroChina and Prof. Chao-Feng Li from CAS
- CI/leader in 2015 of petroleum geochronology research, which is a major component of the Petroleum Systems Evolution. This made a significant contribution to the ARC COE of Interest for the ARC Centre of Excellence in Petroleum Source Rock Science (led by Prof Kliti Grice)

- **Mentor** of ECR within the Faculty of Science & Engineering for nationally and internationally competitive grants
- Through honorary positions at UQ, CAS, and Chang'an University, regular assessor of PhD theses, co-supervisor of PhD students (5) and ECRs (5) and reviewer of papers and grant proposals
- Active assessor for both national (ARC) and international (NSFC, China) competitive grants
- Guest editor of a special issue of *Lithos* on the Central Asian Orogenic Belt.
- Frequent peer reviewer (average of 12 manuscripts per year) for over 10 high-ranking international journals from different countries, including *Chem.Geol.*, *Earth Planet. Sci. Lett.*, *Precam.Res.*, *Lithos*, *Contrib Mineral Petrol.*, *J.Petrology*, *Geol. Mag.*, *Island Arc*, *Geol. J.*, *J.Asian Earth Sci.*, *Chin. Sci. Bull.* and *Sci. China Ser. D*
- Scheduled to deliver a one-month advanced geochemistry course under the 'Peking University Global Fellowship' scheme in December 2016
- Provision of a series of advanced geochemistry seminars for research students and ECRs within the Geology Department
- Regular attendance of events hosting international delegates and visitors, including promotion of Earth Science research at Curtin and collaboration in research and postgraduate student training
- Participation in major events of the CCFS and TIGeR, such as the annual academic meeting, annual report and mid-term reviews
- Training of international visiting students working on geochemistry and geochronology
- Assessed honours student' theses and course presentation within my the department of Applied Geology

#### **Research Assessment and Administration**

- **Expert Assessor**, ARC Discovery and Linkage program, 2014-present
- **International Expert Assessor**, National Science Foundation of China program, 2011-present.
- **International Expert Assessor**, Chang'an University, strategic plan for Earth Science, 2015-present
- **Expert Assessor**: nominated by The University of Western Australia to review candidates for 2016 ARC Future Fellowship
- Assessor: PhD theses for Institute of Geology and Geophysics, Guangzhou Institute of Geochemistry, Chang'an University, and Peking University, 2014-present

#### **Research Seminars and presentations:**

- Invited to give one-month lecture, Peking University, 7 Oct-7Nov, 2016
- Invited Research Seminar, Peking University, April 2014; April, 2015

- Invited Research Seminar, Guangzhou Institute of Geochemistry, April 2015, April, 2014, and Sept 2011
- Invited Research Seminar, Chang'an University and Northwest University, May, 2015
- Invited keynote speaker, 6th International Symposium on Hydrocarbon Accumulation Mechanisms and Petroleum Resources Evaluation, Beijing, 26-28th, September, 2013
- Invited keynote speaker, International Workshop on Basin Evolution and Hydrocarbon Charge Geochronology, PetroChina, Beijing, 22th, September, 2013

### **Selected Refereed Journal Articles**

# First author was a PhD student or ECR in my group at the time research was undertaken;  
\*Corresponding author.

Regularly updated list of publications can be found at

<https://scholar.google.com.au/citations?user=1n1yk1IAAAAJ&hl=en>

1. \***Wang, X.-C.**, Wilde, S.A., Xu, B., Pang, C.-J., 2016. Origin of arc-like continental basalts: Implications for deep-Earth fluid cycling and tectonic discrimination. *Lithos* 261, 5-45. (**IF = 4.482, 3 citations**)
2. \*Ji, W.-Q., Wu, F.-Y., Chung, S.-L., Wang, X.-C., Liu, C.-Z., Li, Q.-L., Liu, Z.-C., Liu, X.-C., Wang, J.-G., 2016. Eocene Neo-Tethyan slab breakoff constrained by 45 Ma oceanic island basalt–type magmatism in southern Tibet. *Geology* 44 (4), 283-286. (**IF = 4.884, 4 citations**)
3. \*Cen, T., Li, W.-X., **Wang, X.-C.**, Pang, C.-j., Li, Z.-x., Xing, G.-f., Zhao, X.-l., Tao, J., 2016. Petrogenesis of early Jurassic basalts in southern Jiangxi Province, South China: Implications for the thermal state of the Mesozoic mantle beneath South China. *Lithos* 256–257, 311-330. (**IF = 4.482, 1 citation**)
4. #Li, C.-F., **Wang, X.-C.**, Guo, J.-H., Chu, Z.-Y., Feng, L.-J., 2016. Rapid separation scheme of Sr, Nd, Pb, and Hf from a single rock digest using a tandem chromatography column prior to isotope ratio measurements by mass spectrometry. *Journal of Analytical Atomic Spectrometry* 31, 1150-1159. (**IF = 3.466**)
5. #Li, C.-F., Feng, L.-J., **Wang, X.-C.**, Chu, Z.-Y., Guo, J.-H., Wilde, S.A., 2016. Precise measurement of Cr isotope ratios using a highly sensitive Nb<sub>2</sub>O<sub>5</sub> emitter by thermal ionization mass spectrometry and an improved procedure for separating Cr from geological materials. *Journal of Analytical Atomic Spectrometry* 31, 2375-2383. (**IF = 3.466**)
6. Dan, W., Li, X.-H., Wang, Q., **Wang, X.-C.**, Wyman, D.A., Liu, Y., 2016. Phanerozoic amalgamation of the Alxa Block and North China Craton: Evidence from Paleozoic granitoids, U–Pb geochronology and Sr–Nd–Pb–Hf–O isotope geochemistry. *Gondwana Research* 32, 105-121. (**IF = 8.235, 10 citations**)
7. \*Li, S.-G., Yang, W., Ke, S., Meng, X., Tian, H., Xu, L., He, Y., Huang, J., **Wang, X.-C.**, Xia, Q., Sun, W., Yang, X., Ren, Z.-Y., Wei, H., Liu, Y., Meng, F., Yan, J., 2016. Deep carbon cycles constrained by a large-scale mantle Mg isotope anomaly in eastern China. *National Science Review*, DOI: 10.1093/nsr/nww070 (**IF = 8.000**)
8. #Yang, Y.-N., **Wang, X.-C.**, Li, Q.-L., Li, X.-H., 2016. Integrated in situ U–Pb age and Hf–O

- analyses of zircon from Suixian Group in northern Yangtze: New insights into the Neoproterozoic low- $\delta_{18}\text{O}$  magmas in the South China Block. **Precambrian Research** 273, 151-164. **(IF = 5.664, 2 citations)**
9. \*#Pang, C.-J., **Wang, X.-C.**, Xu, B., Zhao, J.-X., Feng, Y.-X., Wang, Y.-Y., Luo, Z.-W., Liao, W., 2016. Late Carboniferous N-MORB-type basalts in central Inner Mongolia, China: Products of hydrous melting in an intraplate setting? **Lithos** 261, 55-71. **(IF = 4.482, 3 citations)**
  10. \*Yan, H., Long, X., **Wang, X.-C.**, Li, J., Wang, Q., Yuan, C., Sun, M., 2016. Middle Jurassic MORB-type gabbro, high-Mg diorite, calc-alkaline diorite and granodiorite in the Ando area, central Tibet: Evidence for a slab roll-back of the Bangong-Nujiang Ocean. **Lithos** 264, 315-328. **(IF = 4.482, 3 citations)**
  11. #Wu, J., Li, Z., **Wang, X.-C.**, 2016. Comment on "Behavior of Re and Os during contact between an aqueous solution and oil: Consequences for the application of the Re-Os geochronometer to petroleum" by Mahdaoui et al. (2015). **Geochimica et Cosmochimica Acta** 186: 344-347.
  12. \*#Li, G.-Y., Li, Y.-J., **Wang, X.-C.**, Yang, G.-X., Wang, R., Xiang, K.-P., Liu, J., Tong, L.-L., 2016. Identifying late Carboniferous sanukitoids in Hala'ulate Mountain, Northwest China: new constraint on the closing time of remnant ocean basin in West Junggar. **International Geology Review**, 1-15. **(IF = 2.365)**
  13. Xu, B., **Wang, X.-C.**, Wang, T., Jahn, B.-M., Kröner, A., 2016. Special Issue: Magmatism, metamorphism and metallogenesis of the eastern Central Asian Orogenic Belt: from subduction to post-orogenic extension. Preface. **Lithos** 261, 1-4 **(IF = 4.482)**
  14. \***Wang X-C**, Wilde SA, Li Q-L, Yang Y-N., 2015. Continental flood basalts derived from the hydrous mantle transition zone. **Nature communications** 6 **(IF = 11.470, 19 citations)**.
  15. # Pang, C.-J., **Wang, X.-C.**, Xu, Y.-G., Wen, S.-N., Kuang, Y.-S., Hong, L.-B., 2015. Pyroxenite-derived Early Cretaceous lavas in the Liaodong Peninsula: Implication for metasomatism and thinning of the lithospheric mantle beneath North China Craton. **Lithos** 227, 77-93. **(IF = 4.482, 1 citations)**
  16. \*# Li J, **Wang X.-C**, Xu J-F, Xu Y-G, Tang G-J, Wang Q., 2015. Disequilibrium-induced initial Os isotopic heterogeneity in gram aliquots of single basaltic rock powders: Implications for dating and source tracing. **Chemical Geology** 406, 10-17. **(IF = 3.524)**
  17. #Li, C.-F., **Wang, X.-C.**, Li, Y.-L., Chu, Z.-Y., Guo, J.-H., Li, X.-H., 2015. Ce-Nd separation by solid-phase micro-extraction and its application to high-precision  $^{142}\text{Nd}/^{144}\text{Nd}$  measurements using TIMS in geological materials. **Journal of Analytical Atomic Spectrometry** 30, 895-902. **(IF = 3.466, 2 citations)**
  18. #Li, C.-F., Guo, J.-H., Chu, Z.-Y., Feng, L.-J., **Wang, X.-C.**, 2015. Direct High-Precision Measurements of the  $^{87}\text{Sr}/^{86}\text{Sr}$  Isotope Ratio in Natural Water without Chemical Separation Using Thermal Ionization Mass Spectrometry Equipped with 1012  $\Omega$  Resistors. **Analytical Chemistry** 87, 7426-7432. **(IF = 5.636, 2 citations)**
  19. \*#Liu, E., **Wang, X.-C.**, Zhao, J.-x., Wang, X., 2015. Geochemical and Sr-Nd isotopic variations in a deep-sea sediment core from Eastern Indian Ocean: Constraints on dust provenances, paleoclimate and volcanic eruption history in the last 300,000 years. **Marine Geology** 367, 38-49. **(IF = 2.710)**
  20. #Yang, C., Li, X.-H., **Wang, X.-C.**, Lan, Z., 2015. Mid-Neoproterozoic angular unconformity in the Yangtze Block revisited: Insights from detrital zircon U-Pb age and Hf-O isotopes.

- Precambrian Research** 266, 165-178. (IF = 5.664, 6 citations)
21. Long, X., Wilde, S.A., Wang, Q., Yuan, C., **Wang, X.-C.**, Li, J., Jiang, Z., Dan, W., 2015. Partial melting of thickened continental crust in central Tibet: Evidence from geochemistry and geochronology of Eocene adakitic rhyolites in the northern Qiangtang Terrane. **Earth and Planetary Science Letters** 414, 30-44. (IF = 4.734, 9 citations).
22. \*Cui, X., Jiang, X., Wang, J., **Wang, X.-C.**, Zhuo, J., Deng, Q., Liao, S., Wu, H., Jiang, Z., Wei, Y., 2015. Mid-Neoproterozoic diabase dykes from Xide in the western Yangtze Block, South China: New evidence for continental rifting related to the breakup of Rodinia supercontinent. **Precambrian Research** 268, 339-356. (IF = 5.664, 2 citations)
23. Dan, W., Wang, Q., **Wang, X.-C.**, Liu, Y., Wyman, D.A., Liu, Y.-S., 2015. Overlapping Sr–Nd–Hf–O isotopic compositions in Permian mafic enclaves and host granitoids in Alxa Block, NW China: Evidence for crust–mantle interaction and implications for the generation of silicic igneous provinces. **Lithos** 230, 133-145. (IF = 4.482, 3 citations)
24. \*Li, J., Zhao, P.-P., Liu, J., **Wang, X.-C.**, Yang, A.Y., Wang, G.-Q., Xu, J.-F., 2015. Reassessment of Hydrofluoric Acid Desilicification in the Carius Tube Digestion Technique for Re–Os Isotopic Determination in Geological Samples. **Geostandards and Geoanalytical Research** 39, 17-30. (IF = 3.208, 10 citations)
25. \***Wang, X.-C.**, Li, Z.-X., Li, J., Pisarevsky, S. A. & Wingate, M. T. D., 2014. Genesis of the 1.21 Ga Marnda Moorn large igneous province by plume–lithosphere interaction. **Precambrian Research** 241, 85-103 (IF = 5.664, 13 citations).
26. \***Wang, X.C.**, Li, Z.X., Li, X.H., Li, J., Xu, Y.G., Li, X.H., 2013. Identification of an ancient mantle reservoir and young recycled materials in the source region of a young mantle plume: Implications for potential linkages between plume and plate tectonics. **Earth and Planetary Science Letters** 377–378, 248–259 (IF = 4.734, 26 citations).
27. \***Wang, X.C.**, Li, Z.X., Li, X.H., 2013. Early differentiation of the bulk silicate Earth as recorded by the oldest mantle reservoir. **Precambrian Research** 238, 52–60 (IF = 5.664, 6 citations).
28. \***Wang, X.C.**, Li, Z.-X., Li, X.-H., Li, J., Liu, Y., Long, W.-G., Zhou, J.-B., Wang, F., 2012. Temperature, Pressure, and Composition of the Mantle Source Region of Late Cenozoic Basalts in Hainan Island, SE Asia: a Consequence of a Young Thermal Mantle Plume close to Subduction Zones? **Journal of Petrology** 53, 177-233 (IF = 4.424, 63 citations).
29. **Wang, X.C.**, Li, X.-h., Li, Z.-X., Li, Q.-L., Tang, G.-Q., Gao, Y.-Y., Zhang, Q.-R., Liu, Y., 2012. Episodic Precambrian crust growth: Evidence from U–Pb ages and Hf–O isotopes of zircon in the Nanhua Basin, central South China. **Precambrian Research** 222–223, 386-403 (IF = 5.664, 78 citations).
30. **Wang, X.C.**, Li, Z.X., Li, X.H., Li, Q.L., Tang, G.Q., Zhang, Q.R., Liu, Y., 2011. Non-glacial origin for low-<sup>18</sup>O Neoproterozoic magmas in South China: Evidence from new in-situ oxygen isotope analyses using SIMS. **Geology** 39, 735-738. (IF = 4.884, 30 citations).
31. **Wang, X.-C.**, Li, Z.-X., Li, X.-H., Li, Q.-L., Zhang, Q.-R., 2011. Geochemical and Hf–Nd isotope data of Nanhua rift sedimentary and volcanoclastic rocks indicate a Neoproterozoic continental flood basalt provenance. **Lithos** 127, 427-440 (IF = 4.482, 35 citations).
32. \***Wang X.C.**, Li X-H, Li Z-X, Liu Y, Yang Y-H, 2010. The Willouran basic province of South



- Australia: Its relation to the Guibei large igneous province in South China and the breakup of Rodinia. *Lithos* 119, 569-584. (IF = 4.482, 41 citations).
33. \*Wang, X.C., Li, X.H., Li, W.X., Li, Z.X., 2009. Variable involvements of mantle plumes in the genesis of mid-Neoproterozoic basaltic rocks in South China: A review. *Gondwana Research* 15:381-395. (IF = 8.235, 79 citations).
34. \*Wang, X.C., Li, X.H., Li, W.X., Li, Z.X., Liu, Y., Yang, Y.H., Liang, X., R. and Tu, X.L., 2008. The Bikou basalts in northwestern Yangtze Block, South China: Remains of 820-810 Ma continental flood basalts? *Geological Society of America Bulletin* 120: 1478-1492 (IF = 3.870, 105 citations).
35. \*Wang X.C., Li, X.H., Li, W.X., Li, Z.X., 2007. Ca. 825 Ma komatiitic basalts in South China: First evidence for >1500°C mantle melts by a Rodinia mantle plume. *Geology* 35: 1103–1106 (IF = 4.884, 115 citations).
36. Wang, X.-C., Liu, Y. S. & Liu, X. M., 2006. Mesozoic adakites in the Lingqiu Basin of the central North China Craton: Partial melting of underplated basaltic lower crust. *Geochemical Journal* 40, 447-461 (IF = 1.505, 14 citations).
37. #Li, J., Wang, X.C., Ren, Z.Y., Xu, J.F., He, B., Xu, Y.G., 2014. Chemical heterogeneity of the Emeishan plume mantle: New constraints from by observed highly siderophile elements HSE abundance of picrites, Emeishan LIP high magnesian volcanic rocks. *Journal of Asian Earth Sciences* 79,191-205. (Corresponding author, IF = 2.741, 4 citations).
38. \*Li, J., Liang, X.R., Zhong, L.F., Wang, X.C., Ren, Z.Y., Sun, S.L., Xu, J.F., 2014. Measurement of the isotopic composition of molybdenum in geological samples by MC-ICP-MS using a novel chromatographic extraction technique. *Geostandards and Geoanalytical Research*, 38(3): 345-354. (IF = 3.208, 13 citations).
39. \*Li, J., Jiang, X. Y., Xu, J. F., Zhong, L. F., Wang, X. C., Wang, G. Q., and Zhao, P. P., 2014, Determination of Platinum-Group Elements and Re-Os Isotopes using ID-ICP-MS and N-TIMS from a Single Digestion after Two-Stage Column Separation: *Geostandards and Geoanalytical Research*, v. 38, no. 1, p. 37-50 (IF = 3.208, 18 citations).
40. \*Li, C.-F., Guo, J.-H., Yang, Y.-H., Chu, Z.-Y., and Wang, X.-C., 2014, Single-step separation scheme and high-precision isotopic ratios analysis of Sr-Nd-Hf in silicate materials: *Journal of Analytical Atomic Spectrometry*, v. 29, no. 8, p. 1467-1476 (IF = 3.466, 6 citations).
41. Dan, W., Li, X.H., Wang, Q., Wang, X.C., Liu, Y., 2014. Neoproterozoic S-type granites in the Alxa Block, westernmost north China and tectonic implications: in-situ zircon U-Pb-Hf-O isotopic and geochemical constraints. *American Journal of Science*, 314 (1). 110-153 (IF = 2.917, 18 citations).
42. Dan, W., Li, X.-H., Wang, Q., Wang, X.C., Liu, Y., and Wyman, D. A., 2014, Paleoproterozoic S-type granites in the Helanshan Complex, Khondalite Belt, North China Craton: Implications for rapid sediment recycling during slab break-off: *Precambrian Research*, v. 254, no. 0, p. 59-72 (IF = 5.664, 6 citations).
43. Li, X.-H., Li, Z.-X., Li, W.-X., Wang, X.-C., and Gao, Y., 2013, Revisiting the “C-type adakites”

- of the Lower Yangtze River Belt, central eastern China: In-situ zircon Hf–O isotope and geochemical constraints: *Chemical Geology* 345, 1-15 (**IF = 3.524, 59 citations**).
44. \*Pisarevsky, S.A., Biswal, T.K., **Wang, X.-C.**, De Waele, B., Ernst, R., Söderlund, U., Tait, J.A., Ratre, K., Singh, Y.K., Cleve, M., 2013. Palaeomagnetic, geochronological and geochemical study of Mesoproterozoic Lakhna Dykes in the Bastar Craton, India: Implications for the Mesoproterozoic supercontinent. *Lithos* 174,125-143 (**IF = 4.482, 31 citations**).
45. \*#Deng, Q., Wang, J., Wang, Z.J., **Wang, X.C.**, Qiu, Y.S., Yang, Q.X., Du, Q.D., Cui, X.Z., Zhou, X.L., 2013. Continental flood basalts of the Huashan Group, northern margin of the Yangtze block-implications for the breakup of Rodinia. *International Geology Review* 55, 1865-1884. (**IF = 1.708, 9 citations**).
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