

CURRICULUM VITAE

Zengqian HOU



Qualifications:

1985, B.Sc., China University of Geosciences (Beijing)
1988 Ph.D., China University of Geosciences (Beijing)

Current Appointment:

Professor of Economic Geology, Institute of Geology,
Chinese Academy of Geological Sciences (CAGS),
Beijing, China

Employment History:

2005-present Director-general, Institute of Geology, CAGS
2000-2005: Duty-director, Institute of Mineral Resources, CAGS
1998-2000: Professor, Assistant President, CAGS
1995-1998: Professor, Institute of Mineral Deposits, CAGS
1993-1994: Post-doctoral Fellow, Geological Survey of Japan (GSJ)
1989-1993: Associate Prof., Institute of Mineral Deposits, CAGS

Awards and Scholarships:

2014 SGA VIP Lecture Award, SGA
2011 National Science and Technology Special Award, Ministry of
Science and Technology of China
2009 Science and Technology Award, Ministry of Land and Mineral
Resources of China
2004 Outstanding Youth Scientific Fellowship, NSFC
2006 Chinese Youth Scientist Award, Chinese Academy of Science and
Chinese Academy of Engineering
2005 National Science and Technology Award, Ministry of Science and
Technology
2004 Science and Technology Award, Ministry of Land and Mineral
Resources
2004 Huang Jiqing Science and Technology Award, Geological Society
of China
1993 Golden Hammer Award, Geological Society of China

General Research Interests:

- Delineation and characterization of metallic mineral systems in continental collision zones and intra-continental settings
- Metallogensis of the Tibetan Collisional Orogen and Zagros
- Porphyry Cu system in collisional settings

- Carbonatite associated REE deposits

Other Scientific Experiences:

Editor-in-Chief

- Acta Mineralogica et Petrologica Sinica (in Chinese) (2008-)

Associate Editor

- Mineral Deposits (in Chinese) (2006-2013)

Editorial Boards:

- Resource Geology (2005-)
- Science in China (in Chinese and English) (2003-)
- Chinese Journal of Geochemistry (2003-)
- Frontier of Earth Sciences (2008-)
- Geological Reviews (in Chinese) (2004-)
- Geology in China (in Chinese) (2005-)

External Boards/Committees

- Regional Vice-President, Society of Geology Applied to Mineral Deposits (SGA) (2011-2013)
- Fellow, Society of Economic Geologist (SEG) (2011-)
- Honorary Senior Research Fellow, School of Earth and Environment, the University of Western Australia, Australia (2008-)
- Member, Scientific Committee, Ministry of Land and Mineral Resources of China (2006-)
- Member, Chinese Scientific Committee, Ocean Drilling Program (2000-)
- Duty-Director, Chinese Scientific Committee, Continental Scientific Drilling Program (2006-)
- Duty-Director, Petrological Committee, Geological Society of China (2003-)

Research Funding:

Applicant	Funding agency and title of project	Amount	Duration
Hou	NFSC: Comparison of the main metallogeneses of the Himalayan-Zagros collisional system	¥30,000,00 (\$180,000)	2014-2017
Hou	Ministry of Science and Technology: Continental Assembly and Metallogeneses in Tibet (973)	¥36,000,000 (\$5,540,000)	2011-2015
Hou, Leach, Richards & Goldfarb	UNESCO IGCP/SIDA 600: Metallogeneses of Collisional Orogens in the East Tethyside Domain	\$32,000 (Avg. \$8,000 per year)	2011-2014
Hou	Ministry of Land and Mineral Resources: Mineral systems and their geodynamic setting in Tibet	¥6,000,000 (\$920,000)	2010-2015
Hou	NSFC: Pb-Zn-Cu-Ag mineral system in NE Tibetan Plateau	¥1,700,000 (\$260,000)	2009-2011

Hou	NSFC: Genesis of porphyry Cu deposits in continental settings	¥1,750,000 (\$270,000)	2008-2011
Hou	Ministry of Science and Technology: Cu-Pb-Zn metallogenesis and exploration targeting in Northern Sanjiang, East Tibet	¥10,000,000 (\$1,540,000)	2009-2011
Hou	NSFC: Porphyry Cu deposit and REE deposit in continental collision zone	¥1,400,000 (\$215,000)	2004-2008
Hou	Ministry of Science and Technology: Metallogenesis of the Tibetan Collisional Orogen	¥7,500,000 (\$4,230,000)	2002-2007

Major Publications (2001 to 2014)

2014

1. Hou, Z-Q, Liu Y., Tian S-H., et al., Formation of carbonatite-related giant rare earth element deposits by the recycling of marine sediments. *Scientific Reports*, under review
2. Hou, Z-Q, Duan L-F, Lu Y-J., Y-F., et al., Lithospheric architectures of the Lhasa Terrane control on the mineral systems in Himalayan orogen. *Economic Geology*, under review
3. Hou, Z-Q, Yang Z-M., Lu Y-J., et al., Subduction- and collision-related porphyry Cu deposits in Tibet: possible genetic linkage. *Geology*, under revision
4. Hou, Z-Q, Li Q-Y, Gao, Y-F., Lu, Y-J., Yang, Z-M., Wang, R., Lower-crustal magmatic hornblende in North China: Insight into the genesis of porphyry Cu deposits. *Economic Geology*, under revision
5. Yang D., Hou, Z-Q*, Lithium isotope traces magmatic fluid in a seafloor hydrothermal system. *Geology*, under review (*corresponding author)
6. Hou, Z-Q, and Zhang H-R., 2014. Geodynamics and metallogeny of the eastern Tethyan metallogenic domain. *Ore Geology Reviews*, Available online
7. Wang R., Richards, J., Hou, Z-Q., and Yang, Z.M., 2014. Extent of underthrusting of the Indian plate beneath Tibet controlled the distribution of Miocene porphyry Cu-Mo-Au deposits. *Mineralium Deposita*, 49: 165-173
8. Wang R., Richards, J., Hou, Z-Q., and Yang, Z.M., 2014. Increased magmatic water content-the key to Oligo-Miocene porphyry Cu-Mo-Au formation in the eastern Gangdese belt, Tibet. *Economic Geology*, 109: 1315-1340
9. Xie Y.L., Hou Z-Q., et al., 2014. A model for carbonatite hosted REE mineralisation - the Mianning-Dechang REE belt, Western Sichuan Province, China. *Ore Geology Review*. Available online
10. Liu Y-C., Hou, Z-Q*, et al., 2014. Fluid origin of fluorite-rich carbonate-hosted Pb-Zn

mineralization of the Himalayan-Zagros collisional orogenic system: A case study of the Mohailaheng deposit, Tibetan Plateau, China. *Ore Geology Review*(*corresponding author)
Available online

11. Meharj A and Hou, Z-Q., 2014. Temporal-spatial distribution and tectonic setting of porphyry Cu (-Mo,-Au) deposits in Iran: Constraints from zircon U-Pb and molybdenite Re-Os geochronology. *Ore Geology Review* *Available online*

2013

12. Hou Z-Q., Zheng Y-C, Yang Z-M, Rui Z-Y., Zhao Z-D., Jiang S-H., Qu X-M., Sun Q-Z. Contribution of mantle components within juvenile lower-crust to collisional zone porphyry Cu systems in Tibet. *Mineralium Deposita*, 48 (2013) 173-192
13. Hou Z-Q., Pan X-F., Li Q-Y., Yang Z-M., Song Y-C. The Dexing Cu-Au deposit in Jiangxi, east China: An intra-continental porphyry-type deposit formed in a Mesozoic tensional/compressional transform regime. *Mineralium Deposita*, (2013) 10.1007/s00126-013-0472-5
14. Lu, Y.J., Kerrich, R., Kemp, A.I.S., McCuaig, T.C., Hou, Z.Q., Hart, C.J.R., Bagas, L., Yang, Z.M., Cliff, J., Belousova, E.A., Jourdan, F., Evans, N.J. Intracontinental Eocene-Oligocene porphyry Cu mineral systems of Yunnan, western Yangtze Craton, China: Compositional characteristics, sources, and implications for continental collision metallogeny. *Economic Geology* (2013) in press
15. Lu, Y.J., Kerrich, R., McCuaig, T.C., Li, Z.X., Hart, C.J.R., Cawood, P.A., Hou, Z.Q., Bagas, L. Paleogene post-collisional delamination-related lamprophyres in the western Yangtze Craton: elemental and isotope geochemistry evidence for derivation from Proterozoic subduction modified lithospheric mantle. *Chemical Geology* (2013) in press
16. Lu, Y.J., Kerrich, R., McCuaig, T.C., Li, Z.X., Hart, C.J.R., Cawood, P.A., Hou, Z.Q., Bagas, L., Cliff, J., Belousova, E.A., Tang, S.H., 2013. Geochemical, Sr-Nd-Pb and zircon Hf-O isotopic compositions of Eocene-Oligocene shoshonitic and potassic adakite-like felsic intrusions in Western Yunnan, SW China: Petrogenesis and tectonic implications. doi:10.1093/petrology/egt013 *Journal of Petrology* (2013) in press
17. Zhu D-C, Zhao Z-D, Niu Y-L, Dilek Y, Hou Z-Q., Mo X-X. The origin and pre-Cenozoic evolution of the Tibetan Plateau. *Gondwana Research*. (2012) , doi: 10.1016/j. gr. 2012. 02. 002
18. Zhang H-R, Yang T-N, Hou Z-Q., Song Y-C, Ding Y, Cheng X-F. Petrogenesis and tectonics of late Permian felsic volcanic rocks, eastern Qiangtang block, north-central Tibet: Sr and Nd

isotopic evidence. *International Geology Review*, <http://dx.doi.org/10.1080/00206814.2012.759669>

2012

19. Hou Z-Q., Zheng Y.C., Zeng L-S., Gao L-E., Huang K-X., Li W., Li Q-Y., Fu Q., Liang W., Sun Q-Z. Eocene–Oligocene Granitoids of Southern Tibet: Constraints on Crustal Anatexis and Tectonic Evolution of the Himalayan orogen. *Earth Planet. Sci. Lett.*, 349-350 (2012) 38-52
20. Zheng Y.C., Hou Z.Q*, Li W., Liang W., Huang K.X., Li Q.Y., Sun Q.Z. Fu Q., Zhang S., Petrogenesis and Geological Implications of the Oligocene Chongmuda-Mingze Adakite-Like Intrusions and Their Mafic Enclaves, Southern Tibet. *Journal of Geology*, (*corresponding author)
21. Zheng Y.C., Hou Z-Q*, Li Q.Y., Sun Q.Z., Liang W., Pan F.C., Li W., Huang K.X., Fu Q. Origin of Late Oligocene adakitic intrusives in the southeastern Lhasa terrane: evidence from in situ zircon U–Pb dating, Hf–O isotopes, and whole-rock geochemistry. *Lithos*, 148 (2012) 296-311 (*corresponding author)
22. Lu, Y.J., Kerrich, R., Cawood, P.A., McCuaig, T.C., Hart, C.J.R, Li, Z.X., Hou, Z.Q., and Bagas, L., Zircon SHRIMP U-Pb geochronology of potassic felsic intrusions in western Yunnan, SW China: Constraints on the relationship of magmatism to the Jinsha suture. *Gondwana Research* 22 (2012) 737-747.

2011

23. Hou Z-Q., Zhang H-R, Pan X-F, Yang Z-M, Pporphyry Cu (-Mo-Au) systems in non-arc settings: Examples from the Tibetan-Himalayan orogens and the Yangtze block. *Ore Geology Reviews*, 39 (2011) 21-45
24. Liu Y.C., Hou Z-Q*, Yang Z.S., Tian S.H., Yang T.N., Song Y.C., Zhang H.R., Carranza E.J.M. Formation of the Dongmohazhua Pb–Zn Deposit in the Thrust - Fold Setting of the Tibetan Plateau, China: Evidence from Fluid Inclusion and Stable Isotope Data. *Resource Geology*, 61 (4) (2011) 384-406 (*corresponding author)
25. Li W.C., Zeng P.S., Hou Z-Q., White N.C. The Pulang Porphyry Copper Deposit and Associated Felsic Intrusions in Yunnan Province, Southwest China. *Economic Geology*, 106, (2011) 79-92.
26. Zhu D.C., Zhao Z.D., Niu Y.L., Mo X.X., Chung S.L., Hou Z-Q., Wang L.Q., Wu F.Y. The Lhasa Terrane: Record of a microcontinent and its histories of drift and growth. *Earth Planet Sci Lett*, 301 (2011) 241–255.
27. Gao Y-F, Santosh M, Hou Z-Q., Wei R-H., Ma G-X., Chen Z-K., Wu J-L. High Sr/Y magams generated through crustal fractionation: Evidence from Mesozoic volcanic rocks in the

northern Taihang orogen, North China Craton. *Gondwana Research*, XX (2011) XX-XX

2010

28. Gao Y-F, Yang Z-S, Santosh M, Hou Z-Q, Wei R-H, Tian S-H, Adakitic rocks from slab melt-modified mantle sources in the continental collision zone of southern Tibet. *Lithos*, 119 (2010) 651-663
29. Gao Y-F, Yang Z-S, Hou Z-Q, Wei R-H, Meng X-J, Tian S-H, Eocene potassic and ultrapotassic volcanism in south Tibet: New constraints on mantle source characteristics and geodynamic processes. *Lithos*, 117 (2010) 20-32
30. Guo F-S, Zhu Z-J, Hou Z-Q, Yan Z-B, Guo G-L, Mixing Deposition of Upper Carboniferous in Jiangshan, Zhejiang Province and its Tectonic Significance. *Acta Geologica Sinica*, 84 (2) (2010): 269-279

2009

31. Hou Z-Q, Cook N-J, Zaw, K, Metallogensis of the Tibetan collisional orogen Preface. *Ore Geology Reviews*, 36 (1-3) (2009) 1-1
32. Hou Z-Q, Cook Nigel, Metallogensis of the Tibetan Collisional Orogen: A review and introduction to the special issue. *Ore Geology Reviews*, 36 (2009) 2-24
33. Hou Z-Q, Yang Zhiming, Qu Xiaoming, Meng Xiangjin, Li Zhenqing, Beaudoin G, Rui Zongyao, Gao Yongfeng, The Miocene Gangdese porphyry copper belt generated during post-collisional extension in the Tibetan orogen *Ore Geology Reviews*, 36 (2009) 25-51
34. Hou Z-Q, Tian S.-H., Xie Y.-L., et al., 2009. The Himalayan Mianning-Dechang REE belt associated with carbonatite-alkalic complex in the eastern Indo-Asian collision zone, SW China. *Ore Geology Reviews*, 36 (2009) 65-89
35. Yang Zhiming, Hou Zengqian*, White Neol, Song Yucai, Li Zhenqing, Chang Zhaoshan, Xia Daixiang, Geology of the porphyry Cu-Mo deposit at Qulong in Tibet. *Ore Geology Reviews*, 36 (2009) 132-159 (* corresponding author)
36. He Longqing, Song Yucai, Chen Kaixu, Hou Zengqian*, Yu Fengming, Yang Zhusen, Wei Junqi, Li Zheng, Liu Yingchao, Thrust-controlled, sediment-hosted, Himalayan Zn-Pb-Cu-Ag deposits in the Lanping foreland fold belt, eastern margin of Tibetan Plateau. *Ore Geology Reviews*, 36 (2009) 105-132 (* corresponding author)
37. Yang Zhusen, Hou Zengqian, Meng Xiangjin, Fei Hongcai, Tian Shihong, Li Zhenqing, Post-Collisional Sb and Au Mineralization Related to the South Tibetan Detachment System in Himalayan Orogen. *Ore Geology Reviews*, 36 (2009) 174-193
38. Xie Yuling, Hou Zengqian, Yin Shuping, Dominy Simon, Xu Jiuhua, Tian Shihong and XuWenyi, Continuous Carbonatitic Melt-Fluid Evolution for a REE Mineralization System: Evidence from Inclusions in the Maoniuping REE Deposit in the western Sichuan, China.

Ore Geology Reviews, 36 (2009) 89-105

39. Qu Xiaoming, Hou Zengqian, Khin Zaw, Mo Xuanxue¹, Xu Wenyi, Xin Hongbo, A large-scale copper ore-forming event accompanying the rapid uplift of the southern Tibetan Plateau: evidence from zircon SHRIMP U-Pb dating and LA ICP-MS analysis of ore-bearing porphyries of the Gangdese copper belt. *Ore Geology Reviews*, 36 (2009) 52-64
40. Xu Wenyi, Qu Xiaoming, Hou Zengqian, et al., Xiongcu: A special Cu-Au deposit in a continental collision zone, Tibet. *Ore Geology Reviews*, 36 (2009) 2-24
41. Zhao Z-D, Mo X-X, Dilek Y, Niu Y-L, DePaolo, D J, Robinson P, Zhu, D-C, Sun C-G, Dong G-C, Zhou S, Luo Z-H, Hou Z-Q, Geochemical and Sr-Nd-Pb-O isotopic compositions of the post-collisional ultrapotassic magmatism in SW Tibet: Petrogenesis and implications for India intra-continental subduction beneath southern Tibet. *Lithos*, 113 (1-2) (2009) 190-212
42. Xue H-M, Guo L-J, Hou Z-Q, Zhou X-W, Tong Y, Pan X-F, The Xilingele complex from the eastern part of the Central Asian-Mongolia Orogenic Belt, China: Products of Early Variscan orogeny other than ancient block: Evidence from zircon SHRIMP U-Pb ages. *Acta Petrologica Sinica*, 25 (8) (2009) 2001-2010

2008

43. Hou Z-Q, Zaw Khin, Rona Peter, Li Y.-Q., Qu X.-M., Song S.-H., Peng L.-G., Huang J.-J., Geology, fluid inclusions and oxygen isotope geochemistry of the Baiyinchang Pipe-Style Volcanic Hosted Massive Sulfide Cu Deposit in Gansu Province, Northwestern China: evidence for sub-seafloor Replacement and Fluid Mixing. *Economic Geology*, 103 (2008) 269-292
44. Gao Yongfeng, Wei Ruihua, Hou Zengqian, Tian Shihong, Zhao Rongsheng, Eocene high-MgO volcanism in southern Tibet: New constraints for mantle source characteristics and deep processes. *Lithos*, 105 (2008): 63-72
45. Gao Yongfeng, Wei Ruihua, Ma Peixue, Hou Zengqian and Yang Zhusen, Post-collisional ultrapotassic volcanism in the Tangra Yumco-Xuruco graben, south Tibet: Constraints from geochemistry and Sr-Nd-Pb isotope, *Lithos*, (2008), doi:10.1016/j.lithos.2008.12.005
46. Mo Xuanxue, Niu Yaoling, Dong Guochen, Zhao Zhidan, Hou Zengqian, Zhou Su and Ke Shan, Contribution of syncollisional felsic magmatism to continental crust growth: A case study of the Paleogene Linzizong volcanic Succession in southern Tibet, *Chemical Geology*, 250 (2008), 49-67

2007

47. Hou Zengqian, Zaw Khin, Pan Guitang, Mo Xuanxue, Xu Qiang, Hu Yunzhong and Li Xingzhen, Sanjiang Tethyan metallogenesis in SW China: Tectonic setting, metallogenic

- epochs and deposit types. *Ore Geology Reviews*, 31 (2007), 48-87
48. Hou Zengqian, Metallogenesis of the Tibetan collisional orogen. *Jour. China Univ. Geosci.*, 18 (2007) 243-244
 49. Hou Zengqian, Yang Zhusen., Meng Yifeng, Zeng Pusheng, Li Hongyang, Xu Wenyi, Geological fluid mapping in the Tongling: Implications for the Paleozoic Submarine Hydrothermal System in the Middle-Lower Yangtze Metallogenic Belt, East China. *Acta Geologica Sinica*, 81 (2007), 833-860
 50. Hou Zengqian, Xie Yuling, Xu Wenyi, Li Yinqing, Zhu Xiangkun, Khin Zaw, G. Beaudoin, Rui Zongyao, Huang Wei, Luobu Ciren, Yulong deposit, East Tibet: A high-sulfidation Cu-Au porphyry Cu deposit in the eastern Indo-Asian collision zone. *International Geology Reviews*, 49 (2007), 235-28
 51. Gao Yongfeng, Hou Zengqian, Kamber Balz, Wei Ruihua, Meng Xiangjin, Zhao Rongsheng, Lamproitic rocks from a continental collision zone: Evidence for recycling of subducted Tethyan oceanic sediments in the mantle beneath southern Tibet. *Journal of Petrology*, 48 (2007) 729-752
 52. Gao Yongfeng, Hou Zengqian, Kamber Balz, Wei Ruihua, Meng Xiangjin, Zhao Rongsheng, Adakite-like porphyries from the southern Tibetan continental collision zones: evidence for slab melt metasomatism. *Contribution to Mineralogy and Petrology*, 153 (2007) 105-120
 53. Mo Xuanxue*, Hou Zengqian*, Niu Yaoling, Dong Guochen, Qu Xiaoming, Zhao Zhidan and Yang Zhiming, Mantle contributions to crustal thickening during continental collision: Evidence from Cenozoic igneous rocks in southern Tibet. *Lithos*, 96 (2007) 225-242 (*corresponding author)
 54. Qu Xiaoming, Hou Zengqian, Zaw Khin, Li Youguo, Characteristics and genesis of Gangdese porphyry copper deposits in the southern Tibetan Plateau: Preliminary geochemical and geochronological results. *Ore Geology Reviews*, 31 (2007) 205-223
 55. Tian Shihong, Hou Zengqian, Yang Zhusen, Ding Tiping, Meng Yifeng, Zeng Pusheng, Wang Yanbin, Wang Xuncheng, Geochemical characteristics of the Mashan Au-S Deposit in Tongling, Anhui Province, *Geochim. et Cosmochim.*, 71 (15)(2007), 1021
 56. Farhang Aliyari, Ebrahim Rastad, Hou Zengqian, Orogenic gold mineralization in the qolqoleh deposit, northwestern Iran, *Resource Geology*, 57(3)(2007) 269-282.
 57. Zaw Khin, Peters Stephen, Cook Nigel and Hou Zengqian, Mineral deposits of South China: Preface. *Ore Geology Reviews*, 31 (2007) 1-2
 58. Zaw Khin, Peters Stephen, Cromie Paul, Burrett Clive and Hou Zengqian, Nature, diversity of deposit types and metallogenic relations of South China. *Ore Geology Reviews*, 31 (2007)

2006

59. Hou Zengqian, Tian Shihong, Yuan Zhongxin, Xie Yuling, Yin Shuping, Yi Longsheng, Fei Hongcai and Yang Zhiming, The Himalayan collision zone carbonatites in Western Sichuan, SW China: petrogenesis, mantle source and tectonic implication. *Earth Planet. Sci. Lett.*, 244 (2006) 234-250
60. Hou Zengqian, Zeng Pusheng, Gao Yongfeng, Du Andao, Fu Deming, The Himalayan Cu-Mo-Au mineralization in the eastern Indo-Asian collision zone: constraints from Re-Os dating of molybdenite. *Minerium Deposita*, 41 (2006) 33-45
61. Hou Zengqian, Chen Wen, Lu Jiren, Eruption of the continental flood basalts at similar to 259 Ma in the Emeishan large igneous province, SW China: Evidence from laser microprobe $^{40}\text{Ar}/^{39}\text{Ar}$ dating. *Acta Geologica Sinica*, 80 (2006) 804-808
62. Hou Zengqian, Lu Jiren, Lin Shengzhong, Heterogeneity of a Plume Axis: bulk-rock geochemical evidence from picrites and basalts in the Emei Large Igneous Province, SW China. *International Geology Review*, 48 (2006) 1087-1112
63. Xie Yuling, Hou Zengqian, Xu Jiuhua, Yuan Zhongxin, Bai Ge, Li Xiaoyu, Discovery of Cu-Zn, Cu-Sn intermetallic minerals and its significance for genesis of the Mianning-Dechang REE metallogenic belt, Sichuan Province, China. *Science in China(Series D)*, 49 (2006) 597-603
64. Tian Shihong, Hou Zengqian, Ding Tiping, Yuan Zhongxin, $^{40}\text{Ar}/^{39}\text{Ar}$ ages of rocks and ores from the Muluozhai REE deposit in Mianning County, Sichuan Province and their geological significances. *Geochim. et Cosmochim.*, 70 (2006) 649

2005

65. Hou Zengqian, Zaw Khin, Li Yanhe, Zhang Qiling, Zeng Zhigang, Urabe T, Contribution of magmatic fluid to the active hydrothermal system in the JADE field, Okinawa trough: Evidence from fluid inclusions, oxygen and helium isotopes. *International Geology Review*, 47 (2005) 420-437
66. Xu Wenyi, Hou Zengqian, Yang Zhusen, Shi Danian, Meng Yifeng, Zeng Pusheng, Numerical simulation of fluid migration during ore formation of Carboniferous exhalation-sedimentary massive sulfide deposits in the Tongling district, Anhui Province. *Acta Geologica Sinica*, 79 (2005) 98-105
67. Lü Qingtian, Hou Zengqian, Yang Zhusen and Shi Danian, Underplating in the middle-lower Yangtze Valley and model of geodynamic evolution: Constraints from geophysical data. *Science in China (Series D)*, 48(7) (2005) 985-999

68. Tian Shihong, Hou Zengqian, Ding Tiping, Geochemistry of carbonatites in Lizhuang REE deposit, Sichuan, China, *Geochim. et Cosmochim.*, 69 (10) (2005) 256

2004

69. Hou Zengqian, Gao Yongfen, Qu Xiaoming, Rui Zongyao, Mo Xuanxue, Zhao Zhidan, Origin of adakitic intrusives generated during mid-Miocene east-west extension in southern Tibet. *Earth and Planetary Science Letters*, 220 (2004) 139-155

70. Hou Zengqian, Yang Zhusen, Li Yinqing, Zeng Puseng, Meng Yifeng, Large-scale migration of fluid toward foreland basins during collisional orogeny: Evidence from Triassic Anhydrock Sequences and Regional Alteration in the Middle-Lower Yangtze Area. *Acta Geologica Sinica*, 78 (2004) 203-220

71. Hou Zengqian, Qu Xiaoming, Wang Shuxian, Du Andao, Gao Yongafeng, Huang Wei, Re-Os age of porphyry copper deposits associated NS-striking normal faulting system on the Tibet from molybdenites. *Science in China*, 47 (2004) 221-231

72. Lü Qingtian, Hou Zengqian, Zhao Jinhua, Shi Dalian, Wu Xuanzhi, Chang Yinfo, Pei Rongfu, Huang Dongding, Kuang Chaoyang, Deep seismic reflection profiling reveals complex crustal structure of Tongling ore district. *Science in China*, 47 (2004) 193-200.

73. Qu Xiaoming, Hou Zengqian, Li Youguo, Melt components derived from subducted slab in the late orogenic ore-bearing porphyries in the Gangdese copper belt, southern Tibet. *Lithos*, 74 (2004) 131-148

74. Zeng Puseng, Hou Zengqian, Wang Haiping, Qu Wenjun, Meng Yifeng, Yang Zhusen, Li Wenchang, Re-Os Dating of the Pulang porphyry copper deposit in Zhongdian, NW Yunnan, and its geological significance. *Acta Geologica Sinica*, 78 (2004) 604-609

75. Deng Jun, Huang Dinghua, Wang Qingfei, Hou Zengqian, Lu Qingtian, Yao Lingqing, Xin Hongbo, Zhang Qiang, Wei Yanguang, Formation mechanism of “drag depressions” and irregular boundaries in intraplate deformation. *Acta Geologica Sinica*, 78 (2004) 267-272

76. Xie Yuling, Xu Jiuhua, Hou Zengqian, Yang Zhusen, Xu Wenyi, Meng Yifeng, Wang Baohua, Daughter minerals in fluid inclusions of garnet and diopside from Tongguanshan Copper Deposits by SEM/EDS and LRM. *Journal of University of Science and Technology Beijing*, 11 (2004) 481-484

2003

77. Hou Zengqian, Ma Hongwen, Khin Zaw, Zhang Yuquan, Wang Mingjie, Wang Zeng, Pan Guitang and Tang Renli, The Himalayan Yulong porphyry copper belt: produced by large-scale strike-slip faulting at Eastern Tibet. *Economic Geology*, 98 (2003) 125-145

78. Hou Zengqian, Wang Liquan, Khin Zaw, Mo Xuanxue, Wang Mingjie, Li Dingmou, Pan

Guitang, Post-collisional crustal extension setting and VHMS mineralization in the Jinshajiang orogenic belt, S.W. China. *Ore Geology Reviews*, 22 (2003) 177-199

79. Hou Zengqian, Wang Shuxian, Du Andao, Qu Xiaoming, Sun Weidong, Re-Os dating of sulfides from the volcanogenic massive sulfide deposit at Gacun, southwestern China. *Resource Geology*, 53 (2003) 305-310
80. Gao Yongfeng, Hou Zengqian, Wei Ruihua, Zhao Rongsheng, Post-collisional adakitic porphyries in Tibet: Geochemical and Sr-Nd-Pb isotopic constraints on partial melting of oceanic lithosphere and crust-mantle interaction. *Acta Geologica Sinica*, 77 (2003) 123-135
81. Niu Shuyin, Hou Quanli, Hou Zengqian, Sun Aiqu, Wang Baode, Li Hongyang, Xu Chuanshi, Cascaded evolution of mantle plumes and metallogenesis of core- and mantle-derived elements. *Acta Geologica Sinica*, 77 (2003) 522-536

2002

82. Hou Zengqian, Chen Wen, Lu Jiren, Collision event in 135—177Ma on the East of Tibetan plateau: Evidence from $^{40}\text{Ar}/^{39}\text{Ar}$ dating for basalts in the western margin of the Yangtze platform. *Acta Geologica Sinica*, 76 (2002) 194-204
83. Qu Xiaoming, Hou Zengqian and Zhou Shugui, Geochemical and Nd, Sr isotopic study of the post-orogenic granites in Yidun arc belt, Sanjiang region, S.W. China. *Resource Geology*, 52 (2002) 163-172
84. Yuan Wanming, Hou Zengqian, Wang Shicheng, Li Shengrong, Apatite fission track dating evidence for tectonic movement of Yarlung-Zangbu thrust zone. *Chinese Science Bulletin*, 47 (2002) 765-768

2001

85. Hou Zengqian, Khin Zaw, Qu Xiaoming, Ye Qingtong, Yu Jinjie, Xu Mingji, Fu Deming, and Yin Xianke, Origin of the Gacun volcanic-hosted massive sulfide deposit in Sichuan, China: Fluid inclusion and oxygen isotope evidence. *Economic Geology*, 96 (2001) 1491-1512.
86. Hou Zengqian, Li Zhenqing, Qu Xiaoming, Gao Yongfeng, Zheng Mianping, Li Shengrong, Yuan Wanming, The uplift processes of the Tibetan plateau since 50 B.Y. *Science in China (Series D)*, 44 (2001) 35-44
87. Hou Zengqian, Qu, Xiaoming, Urabe T, Takagi Naito, Liquid immiscibility of boninite in Xiangcheng, Southwestern China and its implication to genetic relationship between boninite and komatiitic basalt. *Acta Geologica Sinica*, 75 (2001) 119
88. Yuan Wanming, Hou Zengqian, Li Shengrong, Wang Shicheng, Fission trace of the Jiama ore district, Xizang plateau. *Science in China (Series D)*, 44 (2001) 139-145
89. Zhang Qiling, Hou Zengqian, Tang Shaohua, Organic composition of sulphide ores in the

- Okinawa Trough and its implications, *Acta Geologica Sinica*, 75 (2001) 196-203
90. Song Xieyan, Zhou Meifu, Hou Zengqian, Cao Zhi min, et al, Geochemical constraints on the mantle source of the upper Permian Emeishan continental flood basalts, Southwestern China. *International Geology Reviews*, 43 (2001) 213-225
91. Li Shengrong, Deng Jun, Hou Zengqian, Xiao Run, Yuan Wanming, Feng Xiaoliang, Zhao Zhi, Regional fractures and denudation of gold ore deposits in Gangdese block, Evidence of Ag/Au values. *Science in China (Series D)*, 44 (2001) 121-127