

16 Prof. Shenghong Hu



Name: Shenghong Hu

Organization: China University of Geosciences, Wuhan

E-mail: shhu@cug.edu.cn

Research Interests

LA-ICP-MS Microanalysis technology research; ICP-MS Immune analysis research; Supergene geochemical environment biomarker research

Services & Awards

Board Member: Rock and Mineral Analysis, Journal of Analytical Science

Major Publications

- Hu, Z. C., Gunther, D., Hu, S. H., et al., Direct determination of Te in geological samples by ICP-MS using ethanol as a matrix modifier. *Applied Spectroscopy*, 2006, 60(7), 781-785.
- Hu, S. H., Zhang, S. C., Hu, Z. C., et al., Detection of multiple proteins on one spot by laser ablation inductively coupled plasma mass spectrometry and application to immuno-microarray with element-tagged antibodies. *Anal Chem*, 2007, 79(3), 923-929.
- Hu, Z. C., Gao, S., Hu, S. H., et al., A preliminary study of isopropyl alcohol matrix effect and correction in ICP-MS. *Chin Chem Lett*, 2007, 18(10), 1297-1300.
- Jin, L. L., Jiang, J. F., Hu, S. H., et al., Determination of lead isotope ratio by dual gas flow-laser ablation-inductively coupled plasma-mass spectrometry. *Chin J Anal Chem*, 2007, 35(2), 191-195.
- Liu, Y. S., Hu, Z. C., Yuan, H. L., et al., Volume-optional and low-memory (VOLM) chamber for laser ablation-ICP-MS: application to fiber analyses. *J Anal At Spectrom*, 2007, 22(5), 582-585.
- Xu, H. Z., Hu, S. H., Hu, Z. C., et al., Elements distribution in cobalt-rich crust profile by laser ablation-inductively coupled plasma-mass spectrometry. *Chin J Anal Chem*, 2007, 35(8), 1099-1104.
- Zhang, H. F., Jin, L. L., Zhang, L., et al., Geochemical and Pb-Sr-Nd isotopic compositions of granitoids from western Qinling belt: Constraints on basement nature and tectonic affinity. *Sci China Ser D-Earth Sci*, 2007, 50(2), 184-196.
- Hu, Z. C., Gao, S., Liu, Y. S., et al., Accurate determination of rare earth elements in USGS, NIST SRM, and MPI-DING glasses by excimer LA-ICP-MS at high spatial resolution. *Spectr Lett*, 2008, 41(5), 228-236.
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- Hu, Z. C., Gao, S., Liu, Y. S., et al., Niobium and tantalum concentrations in NIST SRM 610 revisited. *Geostand Geoanal Res*, 2008, 32(3), 347-360.
- Hu, Z. C., Liu, Y. S., Gao, S., et al., A local aerosol extraction strategy for the determination of the aerosol composition in laser ablation inductively coupled plasma mass spectrometry. *J Anal*

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- Xu, J., Hu, Z. C., Liu, Y. S., et al., Direct Determination of Ag in 21 International Geological Reference Materials by Membrane Desolvation-Inductively Coupled Plasma-Mass Spectrometry. *Chin J Anal Chem*, 2008, 36(11), 1493-1498.
- Zhang, L. Y., Hu, S. H., Hu, Z. C., et al., New Strategy Based on Dielectric Barrier Discharge Under Atmospheric Pressure to Inhibit Elemental Fractionation Effect in LA-ICP-MS. *Chem J Chin Univ-Chin*, 2008, 29(10), 1947-1952.
- Hu, S. H., Liu, R., Zhang, S. C., et al., A New Strategy for Highly Sensitive Immunoassay Based on Single-Particle Mode Detection by Inductively Coupled Plasma Mass Spectrometry. *J Am Soc Mass Spectrom*, 2009, 20(6), 1096-1103.
- Hu, Z. C., Gao, S., Liu, Y. S., et al., NH₄F assisted high pressure digestion of geological samples for multi-element analysis by ICP-MS. *J Anal At Spectrom*, 2010, 25(3), 408-413.
- Wu, H. J., Shuai, Q., Zhu, Z. L., et al., Complete Benzene Oxidation over Colloidal Gold Catalysts Supported on Nanostructure Zinc Oxide. *Advance in Ecological Environment Functional Materials and Ion Industry* 2010, 96, 21-27.
- Zhu, Z. L., He, Q. A., Shuai, Q., et al., Solution cathode glow discharge induced vapor generation of iodine for determination by inductively coupled plasma optical emission spectrometry. *J Anal At Spectrom*, 2010, 25(9), 1390-1394.
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