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**Research Experience**

2015 - now Postdoc, Geophysical Lab, Carnegie Institution of Washington, USA

2014 - 2015 Postdoc, Department of Physics, University of Basel, Switzerland

2008 - 2014 PhD student, State Key Lab of Superhard Materials, Jilin University, China

**Education**

2014 PhD in Physics, State Key Lab of Superhard Materials, Jilin University, China

2008 Bachlor of Science, Physics Department, Jlin University, China

**Publications**

2016

1. "[A fingerprint based metric for measuring similarities of crystaline structures](http://scitation.aip.org/content/aip/journal/jcp/144/3/10.1063/1.4940026)",   
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   Weiwei Sun, Yunguo Li, **Li Zhu**, Yanming Ma, Igor Di Marco, Börje Johansson and Pavel Korzhavyi, ***Phys. Chem. Chem. Phys.* 17**, 9730 (2015).
3. "[Pressure-Induced Reversible Phase Transformation in Nanostructured Bi2Te3 with Reduced Transition Pressure](http://pubs.acs.org/doi/abs/10.1021/jp512565b)",   
   Guanjun Xiao, Kai Wang, **Li Zhu**, Xiao Tan, Yuancun Qiao, Ke Yang, Yanming Ma, Bingbing Liu, Weitao Zheng, and Bo Zou, ***J. Phys. Chem C* 119**, 3843 (2015).

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3. "[Metallization and superconductivity of BeH2 under high pressure](http://scitation.aip.org/content/aip/journal/jcp/140/12/10.1063/1.4869145)",   
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   Guangtao Liu, **Li Zhu**, Yanmei Ma, Chuanlong Lin, Jing Liu, and Yanming Ma, ***J. Phys. Chem. C* 117**, 10045 (2013).

2012

1. "[Spiral chain O4 form of dense oxygen](http://www.pnas.org/content/109/3/751.short)",   
   **Li Zhu**, Ziwei Wang, Yanchao Wang, Guangtian Zou, Ho-kwang Mao, and Yanming Ma, ***Proc. Natl. Acad. Sci. USA*109**, 751 (2012).
2. "[Synthesis and high-pressure transformation of metastable wurtzite-structured CuGaS2 nanocrystals](http://pubs.rsc.org/en/content/articlelanding/2012/nr/c2nr31629c)",   
   Ningru Xiao, **Li Zhu**, Kai Wang, Quanqin Dai, Yingnan Wang, Shourui Li, Yongming Sui, Yanming Ma, Jing Liu, Bingbing Liu, Guangtian Zou and Bo Zou, ***Nanoscale* 4**, 7443 (2012).
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4. "[CALYPSO: A method for crystal structure prediction](http://www.sciencedirect.com/science/article/pii/S0010465512001762)",   
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5. "[Pressure-Induced Formation of Noble Metal Hydrides](http://pubs.acs.org/doi/abs/10.1021/jp210780m)",   
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6. "[Particle-swarm structure prediction on clusters](http://scitation.aip.org/content/aip/journal/jcp/137/8/10.1063/1.4746757)",   
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7. "[An effective structure prediction method for layered materials based on 2D particle swarm optimization algorithm](http://scitation.aip.org/content/aip/journal/jcp/137/22/10.1063/1.4769731)",  
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2. "[High pressure partially ionic phase of water ice](http://www.nature.com/ncomms/journal/v2/n11/abs/ncomms1566.html)",   
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4. "[Superhard polymorphs of diamond-like BC](http://www.sciencedirect.com/science/article/pii/S0038109811000937" \t "_blank)[7](http://www.sciencedirect.com/science/article/pii/S0038109811000937" \t "_blank)",   
   Hanyu Liu, Quan Li, **Li Zhu**, and Yanming Ma, ***Solid State Commun.* 115**, 716 (2011).
5. ""[Superhard and superconductive polymorphs of diamond-like BC](http://www.sciencedirect.com/science/article/pii/S0375960110015732" \t "_blank)[3](http://www.sciencedirect.com/science/article/pii/S0375960110015732" \t "_blank)",   
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