

Dr. Xihong Chen

Lawyer /Patent engineer

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►Specialized Field:

Dr. Xihong Chen is mainly engaged in technical IP litigation case, including patent application filing, review, OA responding in mechanics, semiconductor materials, electronic circuit; Patent Invalidation and Patent infringement litigation. She also provides consulting service on patentability analysis, infringement risk analysis, patent stability analysis, etc.

►Education/Training:

BS, Physics, Shandong University

Ph.D., Physics, Peking University

►Working Experience:

Associate Professor, Shanghai Institute of Ceramics, Chinese Academy of Science

Visiting Scholar, Department of Mechanical Engineering and Texas Materials Institute, University of Texas at Austin

Post-doctoral researcher, Department of Chemistry and Biochemistry, University of California at Santa Barbara

►Honors/Awards:

1. One of the “Shanghai Rising-Star”, 2010
2. Member of the “Youth Innovation Promotion Association, CAS”, 2011

► Selected Publications

1. H. Xing, L. Su, **Xihong Chen**, etc. Broadband mid-infrared luminescence of Bi₂Se₃ and doped crystals, *Laser Phys.* 24, 035701 (2014)
2. J. Ding, H. Gu, P. Qiu, **Xihong Chen**, etc., Creation of Yb₂O₃ Nanoprecipitates Through an Oxidation Process in Bulk Yb-Filled Skutterudites, *Journal of Electronic Materials*, 42, 382-388 (2013)
3. J. Song, **Xihong Chen**, Y. Tang, Q. Yao and L. Chen, Post-annealing effect on microstructures and thermoelectric properties of Bi_{0.45}Sb_{1.55}Te₃ thin films deposited by co-sputtering, *Journal of Electronic Materials* 41, 3068-3072 (2012)

4. Z. Sun, S. Liufu, **Xihong Chen***, L. Chen, Tellurization: a new strategy to construct thermoelectric Bi_2Te_3 films, *The Journal of Physical Chemistry C*, 115, 16167–16171 (2011)
5. R. Liu, P. Qiu, **Xihong Chen***, L. Chen, Composition optimization of p-type skutterudites $\text{Ce}_y\text{Fe}_x\text{Co}_{4-x}\text{Sb}_{12}$ and $\text{Yb}_y\text{Fe}_x\text{Co}_{4-x}\text{Sb}_{12}$, *Journal of Materials Research*, 26 1813 (2011)
6. Z. Sun, S. Liufu, **Xihong Chen***, Lidong Chen, Enhanced thermoelectric properties of $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ films by chemical vapor transport process, *ACS Applied Materials & Interfaces*, 3, 1390 (2011)
7. Z. Sun, S.g Liufu, Ruiheng Liu, **Xihong Chen***, Lidong Chen, A General Strategy to Bismuth Chalcogenide films by Chemical Vapor Transport, *Journal of Materials Chemistry* 21, 2351 (2011)
8. Z. Sun, S.Liufu, **Xihong Chen**, Qiuming Gao, Lidong Chen, Controllable synthesis and electrochemical hydrogen storage properties of Bi_2Se_3 architectural structures, *Chemical Communications* 46, 3101 (2010)
9. Z. Xiong, **Xihong Chen**, X. Huang, S. Bai, Lidong Chen, W. Zhang, High thermoelectric performance of $\text{Yb}_{0.26}\text{Co}_4\text{Sb}_{12}/\text{yGaSb}$ nanocomposites originating from scattering electrons of low energy, *Acta Materialia*, 58, 3995 (2010)
10. Z. Xiong, X. Huang, **Xihong Chen**, J. Ding, L. Chen, Realizing phase segregation in the $\text{Ba}_{0.2}(\text{Co}_{1-x}\text{Ir}_x)_4\text{Sb}_{12}$ ($x = 0, 0.1, 0.2$) filled skutterudite system, *Scripta Materialia*, 62, 93 (2009)
11. Z. Xiong, **Xihong Chen**, X. Zhao, L. Chen, etc., Enhanced thermoelectric properties of filled-skutterudite $\text{Ba}_{0.22}\text{Co}_4\text{Sb}_{12}$ with nano- TiO_2 dispersion, *Solid State Sciences* 11, 1612 (2009)
12. **Xihong Chen***, Y. Chang, Z. Wang, D. Yu, Effect of Ion Beam Etching on the Field Emission of Carbon Nanotube Arrays, *Solid State Communications* 149, 523 (2009)
13. **Xihong Chen**, M. Kim, Alec M. Wodtke and M. Moskovits, Self-Oriented Growth of Ge Nanowires below Bohr-Radius, *The Journal of Physical Chemistry C* 112, 13797 (2008)
14. A. Kolmakov, **Xihong Chen** and M. Moskovits, Catalysis and Gas Sensing by Metal Oxide Nanowire Systems, *Journal of Nanoscience and Nanotechnology* 8, 111 (2008)
15. Y. Chang, **Xihong chen**, H. Zhang, W. Qiang, Yi Long, Field emission from randomly oriented ZnO nanowires, *Journal of Vacuum Science & Technology B* 25, 1249 (2007)
16. **Xihong Chen**, S. Lee and M. Moskovits, Modification of the electronic properties of GaN nanowires by Mn doping, *Applied Physics Letters* 91, 082109 (2007)
17. **Xihong Chen**, M. Moskovits, Observing catalysis through the agency of the participating electrons: surface-chemistry-induced current changes in a tin-oxide nanowire decorated with silver, *Nano Letters* 7, 807 (2007)
18. **Xihong Chen**, R. Wang, J. Xu, D. Yu, TEM investigation on the growth mechanism of carbon nanotubes synthesized by hot-filament chemical vapor deposition, *Micron* 35, 455 (2004)
19. **Xihong Chen**, J. Xu, R.M. Wang and D. Yu, High-quality Ultra-fine GaN Nanowires Synthesized Via Chemical Vapor Deposition, *Advanced Materials* 15, 419 (2003)
20. **Xihong Chen**, Y. Xing, J. Xu, J. Xiang, D. Yu, Rational growth of highly oriented amorphous silicon nanowires, *Chemical Physics Letters* 374, 626 (2003)

►Working Language:

Chinese / English