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男，1973年生，北京师范大学材料科学与工程系（低能核物理研究所）副研究员，硕士生导师。

简历：

吉林大学物理系 本科 1990. 9-1994. 7

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主要研究领域：

参加了自然科学基金富勒烯的物理化学，气体水合物的研究，和教育部博士点基金的研究。

以前主要从事富勒烯的光谱性质的理论计算。现在正在用分子动力学模拟研究气体水合物的性质。

在美国伊立诺伊州立大学访问时，对半导体量子点的理论计算方面作了一些工作。

长期从事计算机编程，对于处理实验数据和进行材料微观性质计算。

发表论文：

1. A. C. Tang, A. Y. Li, W. Cheng and Q. S. Li,

"Frontier electronic energy levels of icosahedral fullerenes",

Chemical Physics Letters, 281 (1997) 123.

2. A. C. Tang, Q. S. Li and W. Cheng,

"Vibrational Spectra of Icosahedral (Ih and I) Fullerenes",

3. W. Cheng, Q.S. Li and A.C. Tang,  
"Vibrational Spectra of Tetrahedral Fullerenes",  
Journal of Molecular Spectroscopy, 193 (1999) 1.
4. A.C. Tang, W. Cheng, A.Y. Li and Q.S. Li,  
"NMR Spectra of Icosahedral (Ih and I) Fullerenes ",  
Journal of Mathematical Chemistry, 25 (1999) 1.
5. W. Cheng, Q.S. Li and A.C. Tang,  
"NMR Spectra of Tetrahedral Fullerenes",  
Journal of Molecular Structure (THEOCHEM), 489 (1999) 159.
6. W. Cheng, Q.S. Li and A.C. Tang,  
"Frontier electronic energy levels of tetrahedral (Td) fullerenes",  
Journal of Electron Spectroscopy and Related Phenomena, 107 (2000) 301.
7. W. Cheng, H.Y. Zhou,  
"Molecular Dynamics Simulation on the Structure I Empty Gas Hydrate",  
Chinese Physics Letters, 19 (2002) 609.
8. W. Cheng, S.F. Ren,  
"Calculations on the size effects of Raman intensities of silicon quantum dots",  
Physical Review B 65 (2002) 205305.
9. S.F. Ren, W. Cheng,  
"Calculations of surface effects on phonon modes and Raman intensities of Ge quantum dots",  
Physical Review B 66 (2002) 205328.
10. W. Cheng, H.Y. Zhou,  
"Critical Pressure of the Structure I Empty Gas Hydrate",  
Chinese Physics Letters, 20 (2003) 1.
11. W. Cheng, S.F. Ren,  
"Calculations of Electronic States in QDs with Saturated Shapes",  
International Journal of Nanoscience, 2 (2003) 37.

12. W. Cheng, S.F. Ren, and P.Y. Yu,  
"A Theoretical Investigation of the Surface Vibrational Modes in Germanium Nanocrystals",  
Physical Review B, 68 (2003) 193309.
13. W. Cheng, H.C. Wu, X.Q. Ye, and H.Y. Zhou,  
"Molecular dynamics study on structure I Helium Hydrate",  
Progress in Natural Science, 14 (2004) 1015.
14. S. F. Ren, W. Cheng, and P. Y. Yu,  
"A Microscopic Investigation of Phonon Modes in SiGe Alloy Nanocrystals",  
Physical Review B, 69 (2004) 235327.
15. W. Cheng, H.Y. Zhou, and S.F. Ren,  
"Molecular dynamics study on the structure I xenon hydrate",  
Chinese Science Bulletin, 50 (2005) 822.
16. W. Cheng, H.Y. Zhou, and S.F. Ren,  
"Molecular dynamics study on the structure I xenon hydrate",  
Chinese Science Bulletin (in Chinese), 50 (2005) 1176.
17. W. Cheng, S.F. Ren, and P.Y. Yu,  
"Microscopic theory of the low frequency Raman modes in germanium nanocrystals",  
Physical Review B, 71 (2005) 174305.
18. W. Cheng, S.F. Ren, and P.Y. Yu,  
"Erratum: Microscopic theory of the low frequency Raman modes in germanium nanocrystals ",  
Physical Review B, 72 (2005) 59901.
19. W. Cheng, S.F. Ren, and P.Y. Yu,  
"A New Microscopic Theory of Low Frequency Raman Modes in Ge Nanocrystals"  
AIP Conference Proceedings, 772 (2005) 851.  
PHYSICS OF SEMICONDUCTORS: 27th International Conference on the Physics of Semiconductors –  
ICPS-27
20. B.R. Wei, F.S. Zhang, W. Cheng, S.W. Yan, and B.S. Xie,  
"Ionization of Na<sub>2</sub> by Highly Charged Particals"  
International Journal of Modern Physics B, 19 (2005) 2886.

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