

## PUBLICATION (1975-2009)

### BOOK CHAPTERS AND REVIEWS

1. G.M. Bancroft, H.W. Nesbitt, V.P. Zakaznova-Herzog and J.S. Tse, Turning Points in Solid-State, Materials, and Surface Science, Chapter 39, Edited by K.D. M. Harris and P.P Edwards, published by the Royal Society of Chemistry, 2008.
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14. **J.S. Tse** and R. Rousseau, Ab Initio Molecular Dynamics, *Computational Molecular Spectroscopy*, Ed. P. Jensen and P.R. Bunker, p.625, John Wiley & Sons Ltd, 2000.
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## PAPERS CHOSEN TO PUBLISH IN VIRTUAL JOURNAL OF SCIENCE AND TECHNOLOGY

1. Crystal, spin, and electronic structure of the superconductor LiFeAs  
Zhi Li, J. S. Tse, and C. Q. Jin  
Phys. Rev. B 80, 092503 (2009)
2. Effect of pressure on the iron arsenide superconductor  $\text{Li}_x\text{FeAs}$  ( $x=0.8,1.0,1.1$ )  
S. J. Zhang *et al.*  
Phys. Rev. B 80, 014506 (2009)
3. Mechanisms for the formation of  $\text{H}_2$  and  $\text{O}_2$  from x-ray irradiated dense ice  
Yunfeng Liang and John S. Tse  
Phys. Rev. B 79, 104105 (2009)
4. X-Ray Raman Spectroscopic Study of Water in the Condensed Phases  
John S. Tse, Dawn M. Shaw, Dennis D. Klug, Serguei Patchkovskii, György Vankó,  
Giulio Monaco, and Michael Krisch  
Phys. Rev. Lett. 100, 095502 (2008)
5. First-principles investigation on the geometry and electronic structure of the three-dimensional cuboidal  $\text{C}_{60}$  polymer  
Jianjun Yang, John S. Tse, and Toshiaki Iitaka  
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6. Giant dipole resonance of Ba in  $\text{Ba}_8\text{Si}_{46}$ : An approach for studying high-pressure induced phase transitions of nanostructured materials  
H. Sternemann, C. Sternemann, J. S. Tse, S. Desgreniers, Y. Q. Cai, G. Vankó, N. Hiraoka,  
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11. Thermodynamic stability of hydrogen clathrates  
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Proc. Natl. Acad. Sci. U.S.A. 100, 14645 (2003)
12. Spontaneous Assembly of Perfectly Ordered Identical-Size Nanocluster Arrays  
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Zhi-Qiang Li, John S. Tse, Zhenyu Zhang, and S. B. Zhang  
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13. The isotope effect and orientational potentials of methane molecules in gas hydrates  
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1. N.J. English, **J.S. Tse** and C. Declan, Mechanisms for thermal conduction in various polymorphs of methane hydrate, *Phys. Rev. B*, in press.
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