

Highly Cited Papers (by August 21, 2011)

H index factor is **26**.

Publications have been cited over **2,800** times.

1. Xiaodong Li and Bharat Bhushan, "A Review of Nanoindentation Continuous Stiffness Measurement Technique and Its Applications," *Materials Characterization*, 48 (2002) 11-36. (352 citations)
2. Xiaodong Li, Hongsheng Gao, Catherine J. Murphy and K. K. Caswell, "Nanoindentation of Silver Nanowires," *Nano Letters*, 3 (2003) 1495-1498. (152 citations)
3. Bharat Bhushan and Xiaodong Li, "Nanomechanical Characterization of Solid Surfaces and Thin Films," *International Materials Review*, 48 (2003) 125-164. (147 citations)
4. Xiaodong Li, Wei-Che Chang, Yuh J. Chao, Rizhi Wang, and Ming Chang, "Nanoscale Structural and Mechanical Characterization of a Natural Nanocomposite Material - the Shell of Red Abalone," *Nano Letters*, 4 (2004) 613-617. (133 citations)
5. Xiaodong Li, Dongfeng Diao, and Bharat Bhushan, "Fracture Mechanisms of Amorphous Carbon Films in Nanoindentation," *Acta Materialia*, 45 (1997) 4453-4461. (100 citations)
6. Bharat Bhushan and Xiaodong Li, "Micromechanical and Tribological Characterization of Phosphorous-Doped Silicon and Polysilicon Films for Microelectromechanical Systems," *Journal of Materials Research*, 12 (1997) 54-63. (95 citations)
7. Xiaodong Li, Hongsheng Gao, Catherine J. Murphy, and Linfeng Gou, "Nanoindentation of Cu₂O Nanocubes," *Nano Letters*, 4 (2004) 1903-1907. (75 citations)
8. Xiaodong Li and Bharat Bhushan, "Measurement of Fracture Toughness of Ultra-Thin Amorphous Carbon Films," *Thin Solid Films*, 315 (1998) 214-221. (72 citations)
9. Hai Ni and Xiaodong Li, "Young's Modulus of ZnO Nanobelts Measured Using Atomic Force Microscopy and Nanoindentation Techniques," *Nanotechnology*, 17 (2006) 3591-3597. (71 citations)
10. Xiaodong Li, Bharat Bhushan, Kazuki Takashima, Chang-Wook Baek and Yong-Kweon Kim, "Mechanical Characterization of Micro/Nanoscale Structures for MEMS/NEMS Applications Using Nanoindentation Techniques," *Ultramicroscopy*, 97 (2003) 481-494. (71 citations)
11. Xiaodong Li, Hongsheng Gao, Wally A. Scrivens, Dongling Fei, Xiaoyou Xu, Michael A. Sutton, Anthony P. Reynolds and Michael L. Myrick, "Nanomechanical Characterization of Single-Walled Carbon Nanotube-Reinforced Epoxy Composites," *Nanotechnology*, 15 (2004) 1416-1423. (64 citations)
12. X. Z. Liao, A. R. Kilmametov, R. Z. Valiev, Hongsheng Gao, Xiaodong Li, A. K. Mukherjee, J. F. Bingert, and Y. T. Zhu, "High-pressure Torsion Induced Grain Growth in Electrodeposited Nanocrystalline Ni," *Applied Physics Letters*, 88 (2006) 021909. (60 citations)
13. Xiaodong Li and Bharat Bhushan, "Micromechanical and Tribological Characterization of Ultra-Thin Amorphous Carbon Coatings," *Journal of Materials Research*, 14 (1999) 2328-2337. (60 citations)
14. W. Ding, D.A. Dikin, X. Chen, R. D. Piner, R.S. Ruoff, E. Zussman, Xinnan Wang, and Xiaodong Li, "Mechanics of Hydrogenated Amorphous Carbon Deposits from Electronbeam-induced Deposition of a Paraffin Precursor," *Journal of Applied Physics*, 98 (2005) 014905. (58 citations)

15. Xiaodong Li, Xinnan Wang, Qihua Xiong, and Peter C. Eklund, "Mechanical Properties of ZnS Nanobelts," *Nano Letters*, 5 (2005) 1982-1986. (54 citations)
16. Xiaodong Li and Bharat Bhushan, "Micro/Nanomechanical Characterization of Ceramic Films for Microdevices," *Thin Solid Films*, 340 (1999) 210-217. (52 citations)
17. Xiaodong Li, Zhi-Hui Xu, and Rizhi Wang, "*In Situ* Observation of Nanograin Rotation and Deformation in Nacre," *Nano Letters*, 6 (2006) 2301-2304. (46 citations)
18. Hai Ni, Xiaodong Li, and Hongsheng Gao, "Elastic Modulus of Amorphous SiO₂ Nanowires," *Applied Physics Letters*, 88 (2006) 043108. (44 citations)
19. Bharat Bhushan, Gerard S.A.M. Theunissen, and Xiaodong Li, "Tribological Studies of Chromium Oxide Films for Magnetic Recording Applications," *Thin Solid Films*, 311 (1997) 67-80. (43 citations)
20. Xiaodong Li and Bharat Bhushan, "Fatigue Studies of Nanoscale Structures for MEMS/NEMS Applications Using Nanoindentation Techniques," *Surface and Coatings Technology*, 163-164 (2003) 503-508. (41 citations)
21. Xiaodong Li and Bharat Bhushan, "Micro/nanomechanical and Tribological Studies of Bulk and Thin-film Materials Used in Magnetic Recording Heads," *Thin Solid Films*, 398 (2001) 313-319. (35 citations)
22. Xinyong Tao and Xiaodong Li, "Catalyst-free Synthesis, Structural and Mechanical Characterization of Twinned Mg₂B₂O₅ Nanowires," *Nano Letters*, 8 (2008) 505-510. (34 citations)
23. Zhi-Hui Xu and Xiaodong Li, "Influence of Equi-biaxial Residual Stress on Unloading Behaviour of Nanoindentation," *Acta Materialia*, 53 (2005) 1913-1919. (33 citations)
24. Xiaodong Li and Bharat Bhushan, "Evaluation of Fracture Toughness of Ultra-Thin Amorphous Carbon Coatings Deposited by Different Deposition Techniques," *Thin Solid Films*, 355-356 (1999) 330-336. (31 citations)
25. Xiaodong Li, Patrick Nardi, Chang-Wook Baek, Jong-Man Kim and Yong-Kweon Kim, "Direct Nanomechanical Machining of Gold Nanowires Using a Nanoindenter and an Atomic Force Microscope," *Journal of Micromechanics and Microengineering*, 15 (2005) 551-556. (29 citations)
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