

## LIST OF PUBLICATIONS

Limited to Physical Review Letters, Rapid Communications,  
and Europhysics Letters

**ALEX ZUNGER**

## PHYSICAL REVIEW LETTERS

1. A. Zunger and A. J. Freeman, "Structurally-Induced Semimetal to Semiconductor Transition in TiSe<sub>2</sub>," *Physical Review Letters* **40**, 1155 (1978).
2. A. Zunger and M. L. Cohen, "A Density Functional Pseudopotential Approach to Crystal Phase Stability and Electronic Structure," *Physical Review Letters* **41**, 53-56 (1978).
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  - 17. A.A. Mbaye, L.G. Ferreira and A. Zunger, "First Principles Calculations of Semiconductors Alloy Phase Diagrams," *Physical Review Letters* **58**, 49-52 (1987).
  - 18. D.M. Wood, S.-H. Wei and A. Zunger, "Thermodynamic Instability of Ultrathin Semiconductor Superlattices: The (001)  $(\text{GaAs})_1(\text{AlAs})_1$  Structure," *Physical Review Letters* **58**, 1123-1126 (1987).
  - 19. S.-H. Wei and A. Zunger, "Role of d orbitals in Valence Band Offsets in Common-Anion Semiconductors," *Physical Review Letters* **59**, 144-147 (1987).
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- 59.** G. Bester, J. Shumway and Alex Zunger, “Theory of Excitonic Spectra and Entanglement in Dot Molecules,” *Physical Review Letters* **93**, 047401 (2004).
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- 61.** S. Lany and A. Zunger, “Metal-Dimer Atomic Reconstruction leading to deep donor states in anion vacancy in II-VI and chalcopyrite semiconductors,” *Physical Review Letters* **93**, 156404 (2004).
- 62.** L. He, G. Bester and A. Zunger, “Prediction of an excitonic ground state in InAs/InSb quantum dots,” *Physical Review Letters* **94**, 016801-01 (2005).
- 63.** L. He, G. Bester and A. Zunger, “Electronic Phase Diagrams of Carriers in Self-Assembled InAs/GaAs Quantum Dots: Violation of Hund’s Rule and the Aufbau Principle for Holes,” *Physical Review Letters* **95**, 246,804 (2005).
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