

PUBLICATIONS

22. A. Navarro-Quezada, N. Gonzalez Szwacki, W. Stefanowicz, Tian Li, A. Grois, T. Devillers, M. Rovezzi, R. Jakiela, B. Faina, J. A. Majewski, M. Sawicki, T. Dietl, and A. Baonanni, "*Fe-Mg interplay and the effect of deposition mode in (Ga,Fe)N doped with Mg*", **Phys. Rev. B** **84**, 155321 (2011).
21. N. Gonzalez Szwacki, J. A. Majewski, and T. Dietl, "*Aggregation and magnetism of Cr, Mn, and Fe cations in GaN*", **Phys. Rev. B** **83**, 184417 (2011).
20. N. Gonzalez Szwacki and C. J. Tymczak, "*The symmetry of the boron buckyball and a related boron nanotube*", **Chem. Phys. Lett.** **494**, 80 (2010).
19. N. Gonzalez Szwacki and T. Szwacka, "*Basic Elements of Crystallography*" (Pan Stanford Publishing, 2010).
18. N. Gonzalez Szwacki, V. Weber, and C. J. Tymczak, "*Aromatic Borozene*", **Nanoscale Res. Lett.** **4**, 1085 (2009).
17. N. Gonzalez Szwacki, M. Sanati, and S. K. Estreicher, "*Two FeH pairs in n-type Si and their implications: A theoretical study*", **Phys. Rev. B** **78**, 113202 (2008).
16. S. K. Estreicher, M. Sanati, and N. Gonzalez Szwacki, "*Iron in silicon: Interactions with radiation defects, carbon, and oxygen*", **Phys. Rev. B** **77**, 125214 (2008).
15. N. Gonzalez Szwacki, A. Sadrzadeh, and B. I. Yakobson, "*Erratum: B₈₀ Fullerene: An Ab Initio Prediction of Geometry, Stability, and Electronic Structure [Phys. Rev. Lett. 98, 166804 (2007)]*", **Phys. Rev. Lett.** **100**, 159901(E) (2008).
14. N. Gonzalez Szwacki, "*Boron Fullerenes: A First-Principles Study*", **Nanoscale Res. Lett.** **3**, 49 (2008).
13. S. K. Estreicher, M. Sanati, and N. Gonzalez Szwacki, "*Fundamental Interactions of Fe in silicon: First-Principles Theory*", **Solid State Phenomena** **131-133**, 233 (2008).
12. Y. Lin, N. Gonzalez Szwacki, and B. I. Yakobson, "*Quasi-one-dimensional silicon nanostructures*", in *Nanosilicon*, edited by V. Kumar (Elsevier, Amsterdam, 2007).
11. N. Gonzalez Szwacki and S. K. Estreicher, "*First-principles investigations of Fe-H interactions in silicon*", **Physica B** **401-402**, 171 (2007).
10. M. Sanati, N. Gonzalez Szwacki, and S. K. Estreicher, "*Interstitial Fe in Si: Interactions with hydrogen and shallow dopants*", **Phys. Rev. B** **76**, 125204, (2007).
9. N. Gonzalez Szwacki, A. Sadrzadeh, and B. I. Yakobson, "*B₈₀ Fullerene: An Ab Initio Prediction of Geometry, Stability, and Electronic Structure*", **Phys. Rev. Lett.** **98**, 166804 (2007).
8. N. Gonzalez Szwacki and B. I. Yakobson, "*Energy decomposition analysis of metal silicide nanowires from first principles*", **Phys. Rev. B** **75**, 035406 (2007).
7. P. Bogusławski, N. Gonzalez Szwacki, and J. Bernholc, "*Interfacial segregation and electrodiffusion of dopants in AlN/GaN superlattices*", **Phys. Rev. Lett.** **96**, 185501 (2006).
6. P. Djemia, Y. Roussigné, A. Stashkevich, W. Szuszkiewicz, N. Gonzalez Szwacki, E. Dynowska, E. Janik, B. J. Kowalski, G. Karczewski, P. Bogusławski, M. Jouanne, and J. F. Morhange, "*Elastic properties of zinc blende MnTe*", **Acta Phys. Polon. A** **106**, 239 (2004).
5. N. Gonzalez Szwacki, E. Przeździecka, E. Dynowska, P. Bogusławski, and J. Kossut, "*Structural properties of MnTe, ZnTe, and ZnMnTe*", **Acta Phys. Polon. A** **106**, 233 (2004).

4. N. E. Christensen, I. Gorczyca, A. Svane, N. Gonzalez Szwacki, and P. Bogusławski, "Theoretical Studies of Semiconductors, with and without Defects, under Pressure", **Phys. Stat. Sol. (b)** **235**, 374 (2003).
3. N. Gonzalez Szwacki, P. Bogusławski, I. Gorczyca, N. E. Christensen, and A. Svane, "Electronic structure and optical properties of $GaAs_{1-x}N_x$ and $Ga_{1-x}B_xAs$ alloys", proceedings of the 26th International Conference on the Physics of Semiconductors, (ICPS26), Edinburgh, UK, July 28 - August 2 (2002), 253 (2003).
2. N. Gonzalez Szwacki, P. Bogusławski, I. Gorczyca, N. E. Christensen, and A. Svane, "Electronic structure and optical properties of $GaAs_{1-x}N_x$ and $Ga_{1-x}B_xAs$ alloys", **Acta Phys. Polon. A** **102**, 633 (2002).
1. N. Gonzalez Szwacki and P. Bogusławski, "GaAs:N vs GaAs:B: Symmetry-induced effects", **Phys. Rev. B** **64**, R161201 (2001).