

REFERENCES

Peer reviewed journals

1. Weidong Sheng, Shun-Jen Cheng, and Pawel Hawrylak, “*Multiband theory of multi-exciton complexes in self-assembled quantum dots*”, Phys. Rev. **B71**, 035316 (2005).
2. S.J. Cheng, W. Sheng, P. Hawrylak, “*Theory of excitonic artificial atoms: InGaAs quantum dots in strong magnetic fields*”, Phys.Rev. **B 68**, 235330 (2003).
3. W. Sheng and P. Hawrylak, “*Atomistic theory of electronic and optical properties of InAs/InP self-assembled quantum dots on patterned substrates*”, Phys.Rev.**B72**, 035326 (2005).
4. Weidong Sheng, S. J. Xu, P. Hawrylak, “*Electron g-factor distribution in self-assembled quantum dots*”, Phys. Rev. **B 77**, 241307 (2008).
5. M. F. Doty, J. I. Climente, M. Korkusinski, M. Scheibner, A. S. Bracker, P. Hawrylak, and D. Gammon, “*Antibonding Ground States in InAs Quantum-Dot Molecules*”, Phys. Rev. Lett. **102**, 047401 (2009).
6. M. Korkusinski, M.Zielinski and P. Hawrylak, “*Theory of multi-exciton complexes in InAs quantum dots*”, J.Appl.Phys. **105**, 122406 (2009).
7. A.D. Guclu, P. Potasz, O. Voznyy, M. Korkusinski, P. Hawrylak, “*Magnetism and correlations in fractionally filled degenerate shells of graphene quantum dots*”, Phys.Rev.Letters, **103**, 246805 (2009).
8. M. Zielinski , M. Korkusinski, and P. Hawrylak , “*Atomistic tight-binding theory of multi-exciton complexes in a self-assembled InAs quantum dot*”, Phys. Rev. **B 81**, 085301 (2010).
9. A.D.Guclu, P.Potasz, and P. Hawrylak, “*Excitonic absorption in gate controlled graphene quantum dots*”, Phys. Rev. **B 82**, 155445 (2010). (arXiv:1007.3527).
10. M.Korkusinski, O. Voznyy, P. Hawrylak, “*Fine structure and size dependence of exciton and bi-exciton optical spectra in CdSe nanocrystals*”, Phys. Rev. **B 82**, 245304 (2010).
11. Oleksandr Voznyy, Alev Devrim Güçlü, Paweł Potasz, Paweł Hawrylak, “*Effect of edge reconstruction and passivation on zero-energy states and magnetism in triangular graphene quantum dots with zigzag edges*”, Phys.Rev.**B83**, 165417 (2011).
12. M.Korkusinski, O. Voznyy, P. Hawrylak, “*Theory of highly excited semiconductor nanostructures including Auger coupling: Exciton-biexciton mixing in CdSe nanocrystals*”, Phys. Rev. **B 84**, 155327 (2011).
13. M. Korkusinski and P. Hawrylak, “*Atomistic theory of emission from dark excitons in self-assembled quantum dots*”, Phys.Rev.**B87**, 115310(2013).
14. I.Ozfidan, M. Korkusinski and P.Hawrylak, “*Theory of Biexcitons and Biexciton-Exciton Cascade in Graphene Quantum Dots*”, Phys.Rev.B91, 15314(2015).

15. AD Güçlü, P Potasz, P Hawrylak, “*Sublattice engineering and voltage control of magnetism in triangular single and bi-layer graphene quantum dots*”, Physica status solidi (RRL)-Rapid Research Letters 10,58(2016).
16. Ankit Jain, Oleksandr Voznyy, Sjoerd Hoogland, Marek Korkusinski, Pawel Hawrylak, and Edward H. Sargent, “*Atomistic design of CdSe/CdS core-shell quantum dots with suppressed Auger recombination*”, Nano Lett., 16, 6491 (2016).

Books authored.

1. Devrim Guclu, Paweł Potasz, Marek Korkusinski and Paweł Hawrylak, “*Graphene Quantum Dots*”, Springer-Verlag (2014).
2. Lucjan Jacak, Paweł Hawrylak, and Arek Wojs, "Quantum Dots", Springer Verlag (1998).