

DAFTAR PUSTAKA

- Absor, M. A. U., 2015, Density-functional theory based calculation of spin orbit interaction in ZnO, *PhD thesis*, Kanazawa University, Ishikawa, Japan
- Affandi, Y., 2018, Pengaruh medan listrik terhadap spin splitting pada system WX₂ (X = S, Se, Te) monolayer : Kajian komputasional berbasis density functional theory dan analisis menggunakan teori gangguan *k.p*, *Tesis*, Universitas Gadjah Mada, Yogyakarta
- Avsar, A., Tan, J. Y., Taychatanapat, T., Balakrishnan, J., Koon, G. K. W., Yeo, Y., Lahiri, J., Carvalho, A., Rodin, A. S., O'Farrell, E. C. T., Eda, G., Castro Neto, A. H., & Özyilmaz, B. (2014). Spin-orbit proximity effect in graphene. *Nature Communications*, 5. <https://doi.org/10.1038/ncomms5875>
- Benhida S., Bernede J., C., Pouzet j., Barreau A., 1993, Optimization of the technique of synthesis of WSe₂ thin films by solid state reaction between W and Se thin films, *Thin Solid Films* 224 (1), 39-59
- Chen, H., Zhou, P., Liu, J., Qiao, J., Özyilmaz, B., & Martin, J. (2020). Gate controlled valley polarizer in bilayer graphene. *Nature Communications*, 11(1). <https://doi.org/10.1038/s41467-020-15117-y>
- Dendzik, M., Michiardi, M., Sanders, C., Bianchi, M., Miwa, J. A., Gronborg, S. S., Lauritsen, J. V., Bruix, A., Hammer, B., Hofmann, P., 2015, Growth and electronic structure of epitaxial single-layer WS₂ on Au(111), *Physical Review B*, 92(24), 1-7
- Dresselhaus. G., 1955. Spin-Orbit Coupling Effects in Zinc Blende Structures. *Phys. Rev*, 100, 580-586
- Griffiths, D., 2005, *Introduction to Quantum Mechanics, Second edition.*, Prentice Hall pp.183-4

- Hohenberg, P. dan Kohn, W., 1964, Inhomogeneous electron gas 47(19). *Physical Review* 136(3B) p.B864
- Kittel, C., 2005, *Introduction to Solid State Physics, eight edition.*, Prentice Hall pp.183-4
- Kormányos A., Burkard, G., Gmitra, M., Fabian, J., Zolyomi, V., Drummond, N. D., Fal'ko, V., 2015, k.p theory for two-dimensional transition metal dichalcogenide semiconductors, *2D Materials*, IOP Publishing, 2(2), p.22001
- Li, N., Su, J., Xu, Z., Li, D., Liu, Z., 2016, Theoretical and experimental investigation on structural and electronic properties of Al/O/Al, O-doped WS₂, *Journal of Physics and Chemistry of Solids*, 89, 84-88
- Liang, X., Liu, Y., Zhong, T., Yang, T., Li, J., Luo, L., Dong, G., Chen, Y., Luo, X., Tang, T., & Bi, L. (2024). Mechanisms of manipulating valley splitting in MoTe₂/MnS₂ van der Waals heterostructure by electric field and strains. *RSC Advances*, 14(15), 10209–10218. <https://doi.org/10.1039/d4ra01013b>
- Nitta, J., Akazaki, T., Takayanagi, H., & Enoki, T. (1997). Gate Control of Spin-Orbit Interaction in an Inverted In_{0.53}Ga_{0.47}As/In_{0.52}Al_{0.48}As Heterostructure, *Physical Review Letters*, 78(7), 1335-1338
- Ozaki, T., & Kino, H., 2004, Numerical atomic basis orbitals from H to Kr, *Physical Review B - Condensed Matter and Materials Physics*, 69(19), 1–19
- Ozaki, T., 2003, Variationally optimized atomic orbitals for large-scale electronic structures. *Physical Review B - Condensed Matter and Materials Physics*, 67(15), 1–5
- Qi, X. L., Wu, Y. S., & Zhang, S. C. (2006). Topological quantization of the spin Hall effect in two-dimensional paramagnetic semiconductors. *Physical Review B - Condensed Matter and Materials Physics*, 74(8). <https://doi.org/10.1103/PhysRevB.74.085308>

- Schaibley, J., Yu, H., Clark, G., 2016, Valleytronics in 2D materials. *Nat Rev Mater* 1, 16055. <https://doi.org/10.1038/natrevmats.2016.55>
- Slonczewski, J. C., 1996, Current-driven excitation of magnetic multilayers. In *Journal of Magnetism and Magnetic Materials* (Vol. 159)
- Terrones, H., & Terrones, M., 2014, Bilayers of transition metal dichalcogenides: Different stackings and heterostructures. *Journal of Materials Research*, 29(3), 373–382. <https://doi.org/10.1557/jmr.2013.284>
- Thomas, L. H., 1926, Motion of the spinning electron, *Nature*, 117(2945), p. 514.
- Tonti, D., Varsano, F., Decker, F., Ballif, C., Regula, M., Remskar, M., 1997, Preparation and photoelectrochemistry of semiconducting WS₂ thin films, *The Journal of Physical Chemistry B*, 101(14), 2485-2490
- Troullier, N. dan Martins, J.L., 1991. Efficient pseudopotentials for plane-wave calculations. *Physical Review B*, 43(3), p.1993.
- Walser, M. P., Siegenthaler, U., Lechner, V., Schuh, D., Ganichev, S. D., Wegscheider, W., & Salis, G., 2012, Dependence of the Dresselhaus. *Phys. Rev. B*, 86, 195309
- Wang, G., Balocchi, A., Poshakinskiy, A. V., Zhu, C. R., Tarasenko, S. A., Amand, T., Liu, B. L., & Marie, X., 2014, Magnetic field effect on electron spin dynamics in (110) GaAs quantum wells. *New Journal of Physics*, 16, 0–13
- Xiao, D., Yao, W., & Niu, Q., 2007, Valley-contrasting physics in graphene: Magnetic moment and topological transport. *Physical Review Letters*, 99(23). <https://doi.org/10.1103/PhysRevLett.99.236809>
- Zhang, Y., Ugeda, M. M., Jin, C., Shi, S. F., Bradley, A. J., Martin-Recio, A., Ryu, H., Kim, J., Tang, S., Kim, Y., Zhou, B., Hwang, C., Chen, Y., Wang, F., Crommie, M. F., Hussain, Z., Shen, Z. X, Mau, S. K., 2016, Electronic structure, surface doping, and optical response in epitaxial WSe₂ thin films, *Nano Letters*, 16(4), 2485-2491

Zhu, Z. Y., Chen, Y. C., Schwingenschlogl, U., 2011, Giant spin-orbit-induced spin splitting in two-dimensional transition-metal dichalcogenide semiconductors, *Physical Review B*, 84(15)