

DAFTAR PUSTAKA

- Absor, M. A. U., Kotaka, H., Ishii, F. dan Saito, M., 2016, Strain-controlled spin splitting in the conduction band of monolayer WS₂, *Physical Review*, 94, hal. 115131.
- Absor, M.A.U., Saito, M. & Science, N., 2015. Density-functional theory based calculations of spin-orbit interaction in ZnO.
- Alicea, J., 2010, Majorana fermions in a tunable semiconductor device, *Physical Review B*, 81(12), hal. 1–10.
- Alidoust, N., Bian, G., Xu, S., Sankar, R., Neupane, M., Liu, C., Belopolski, I., Qu, D., Denlinger, J. D., Chou, F. dan Hasan, M. Z., 2014, Observation of monolayer valence band spin-orbit effect and induced quantum well states in MoX₂, *Nature Communications*, Nature Publishing Group, 5, hal. 1–8.
- Awschalom, D. dan Samarth, N., 2009, Spintronics without magnetism, *Physics*, 2, hal. 50.
- Bandaru, N.R., 2015. Structure and Optical properties of Transition Metal Dichalcogenides (TMDs) – MX₂ (M = Mo , W & X = S , Se) under High Pressure and High Temperature conditions. , 2(August), pp.445–447.
- Bernevig, B.A., Orenstein, J. & Zhang, S.C., 2006. Exact SU(2) symmetry and persistent spin helix in a spin-orbit coupled system. , 97(23), pp.1–4.
- Boker, T.H., Severin, R., Muller, C., Janowitz, C., dan Manzke, R., 2001, Band Structure of MoS₂, MoSe₂ and a-MoTe₂ : Angle-resolved photoelectron spectroscopy and *ab-initio* calculations,.
- Denzik, M., Michiardi, M., Sanders, C., Bianchi, M., Miwa, J. A., Gronborg, S. S., Lauritsen, J. V., Bruix, A., Hammer, B. dan Hofmann, P., 2015, Growth and electronic structure of epitaxial single-layer WS₂ on Au(111), *Physical Review B*, 92(24), hal. 1–7.
- Fabian, J. & Sarma, S. Das, 2004. Spintronics : Fundamentals and applications. , 76(April).
- Hirohata, A. & Takanashi, K., 2014. Future perspectives for spintronic devices. ,

47(19), p.193001.

- Johari, P. dan Shenoy, V. B., 2012, Tuning the Electronic Properties of Semiconducting Transition Metal Dichalcogenides by Applying Mechanical Strains, *ACS Nano*, 6(6), hal. 5449–5456.
- Komider, K., González, J.W. & Fernández-Rossier, J., 2013. Large spin splitting in the conduction band of transition metal dichalcogenide monolayers. , 88(24), pp.25–28.
- Kormanyos, A., Burkard, G., Gmitra, M., Fabian, J., Viktor, Z., Drummond, N.D. dan Vladimirov, F., 2015. k.p theory for two-dimensional transition metal dichalcogenide semiconductors.
- Kuc, A., Heine, T. & Kis, A., 2015. Electronic properties of transition-metal dichalcogenides. , 40(7), pp.577–584.
- Kumar, A. dan Ahluwalia, P.K. 2012. Electronic structure of transition metal dichalcogenides monolayers 1H-MX_2 ($\text{M}=\text{Mo}, \text{W}$; $\text{X}=\text{S}, \text{Se}, \text{Te}$) from ab-initio theory: new direct band gap semiconductors., 85(186)
- Liu, H., Chen, J., Yu, H., Yang, F., Jiao, L., Liu, G., Ho, W., Gao, C., Jia, J., Yao, W. dan Xie, M., 2015, Observation of intervalley quantum interference in epitaxial monolayer tungsten diselenide, *Nature Communications*, Nature Publishing Group, 6, hal. 1–6.
- Novoselov, K.S., Jiang, D., Schedin, F., Booth, T. J., Khotkevich, V., Morozov, S. V. dan Geim, K. A., 2005. Two-dimensional atomic crystals. , 102(30), pp.10451–10453.
- Ozaki, T., 2003. Variationally optimized atomic orbitals for large-scale electronic structures. , 67(15), pp.1–5.
- Ozaki, T. & Kino, H., 2004. Numerical atomic basis orbitals from H to Kr. , pp.1–19.
- Perdew, J. P., Burke, K. dan Ernzerhof, M., 1996, Generalized Gradient Approximation Made Simple [Phys. Rev. Lett. 77, 3865 (1996)], *Physical Review Letters*, 78(7), hal. 1396–1396.
- Splendiani, A., Sun, L., Zhang, Y., Li, T., Kim, J., Chim, C. Y., Galli, G. dan Wang, F., 2010, Emerging photoluminescence in monolayer MoS_2 , *Nano Letters*,

10(4), hal. 1271–1275.

Vajna, S., Simon, E., Szilva, A., Palotas, K., Ujfalussy, B. dan Szunyogh, L., 2012, Higher-order contributions to the Rashba-Bychkov effect with application to the Bi/Ag(111) surface alloy, *Physical Review B*, 85(7), hal. 1–7.

Wehling, T. O., Black-Schaffer, A. M. dan Balatsky, A. V., 2014, Dirac materials, *Advances in Physics*, 63(1), hal. 1–76.

Wolf, S. A. and Awschalom, D. D. and Buhrman, R. A. and Daughton, J. M. and von Moln{’a}r, S. and Roukes, M. L. and Chtchelkanova, A. Y. and Treger, D.M., 2001. Spintronics: a spin-based electronics vision for the future. , 294(5546), pp.1488–95.

Yaji, K., Ohtsubo, Y., Hatta, S., Okuyama, H., Miyamoto, K., Okuda, T., Kimura, A., Namatame, H., Taniguchi, M. dan Aruga, T., 2010, Large Rashba spin splitting of a metallic surface-state band on a semiconductor surface, *Nature Communications*, Nature Publishing Group, 1(2), hal. 1–5.

Yuan, H., Bahramy, M. S., Morimoto, K., Wu, S., Nomura, K., Yang, B., Shimotani, H., Suzuki, R., Toh, M., Kloc, C., Xu, X., Arita, R., Nagaosa, N. dan Iwasa, Y., 2013, Zeeman-type spin splitting controlled by an electric field, *Nature Physics*, Nature Publishing Group, 9(9), hal. 563–569.

Zhao, W., Ghorannevis, Z., Chu, L., Toh, M., Kloc, C., Tan, P.-H. dan Eda, G., 2013, Evolution of Electronic Structure in Atomically Thin Sheets of WS_2 and WSe_2 , *ACS Nano*, 7(1), hal. 791–797.