

DAFTAR PUSTAKA

- Absor, M.A.U., 2015, Dissertation: *Density-functional theory based calculations of spin-orbit interaction in ZnO*, Kanazawa University.
- Bloch, F. 1928. Quantum mechanics of electrons in crystal lattices. *Z. Phys*, Vol.52, hal.555-600.
- Banerjee, A., Sundares, A., Ganesan, R., dan Kumar, P. A. 2018. Signatures of topological superconductivity in bulk-insulating topological insulator BiSbTe_{1.25}Se_{1.75} in proximity with superconducting NbSe₂. *ACS nano*, Vol.12, No.12, hal.12665-12672.
- Bernevig, B. A., Hughes, T. L., dan Zhang, S. C. 2006. Quantum spin Hall effect and topological phase transition in HgTe quantum wells. *Science*, Vol.314, No.5806, hal.1757-1761.
- Bernevig, B. A. 2013. *Topological insulators and topological superconductors*. Princeton University Press.
- Blundell, S. 2001. *Magnetism in condensed matter*. OUP Oxford.
- Buhmann, H., 2012 Towards the quantum anomalous Hall effect in HgMnTe., *APS March Meeting Abstracts* Vol.57 No.1., tautan :<http://meetings.aps.org/link/BAPS.2012.MAR.P27.1>
- Chang, C.Z., Zhang, J., Feng, X., Shen, J., Zhang, Z., Guo, M., Li, K., Ou, Y., Wei, P., Wang, L.L., Ji, Z.Q., Feng, Y., Ji, S., Chen, Xi., Jia, J., Dai, X., Fang, Z., Zhang, S.C., He, K., Wang, Y., Lu L., Ma, X.C., Xue, Q.K., Experimental observation of the quantum anomalous Hall effect in a magnetic topological insulator. *Science*, Vol.340 No.6149, hal.167-170.
- Chang, C. Z., Zhao, W., Kim, D. Y., Wei, P., Jain, J. K., Liu, C., ... dan Moodera, J. S. 2015. Zero-field dissipationless chiral edge transport and the nature of dissipation in the quantum anomalous Hall state. *Physical Review Letters*, Vol.115, No.5, 057206.
- Chang, C. Z., Liu, C. X., dan MacDonald, A. H. 2023. Colloquium: Quantum anomalous hall effect. *Reviews of Modern Physics*, Vol.95, No.1, 011002.

- Chen, J., Li, P., dan Hu, J. 2025. Strain-engineering quantum anomalous hall state in janus $\text{MnBi}_2\text{Se}_x\text{Te}_{4-x}$ monolayers. *Results in Physics*, Vol.69, No.108115.
- Crasto de Lima, F., dan Fazzio, A. 2021. At the verge of topology: vacancy-driven quantum spin Hall in trivial insulators. *Nano Letters*, Vol.21, No.22, hal.9398-9402.
- Evans, R. F., Fan, W. J., Chureemart, P., Ostler, T. A., Ellis, M. O., dan Chantrell, R. W. 2014. Atomistic spin model simulations of magnetic nanomaterials. *Journal of Physics: Condensed Matter*, Vol.26, No.10, 103202.
- Fruchart, M., dan Carpentier, D., 2013., An introduction to topological insulators. *Comptes Rendus Physique*, Vol.14, No.2013, hal.779-815.
- Fukui, T., Hatsugai, Y., dan Suzuki, H., 2005. Chern numbers in discretized Brillouin zone: efficient method of computing (spin) Hall conductances. *Journal of the Physical Society of Japan*, Vol.74 No.6, hal.1674-1677.
- Griffiths, D. J., 2005, *Introduction to Quantum Mechanics Second edition*, Pearson Education International, USA, hal.379 - 380.
- Haldane, F. D. M., 1988, Model for a quantum Hall effect without Landau levels: Condensed-matter realization of the " parity anomaly" *Physical Review Letter*, Vol.61, Number 18, hal.2015 - 2018.
- He, X., Helbig, N., Verstraete, M. J., dan Bousquet, E. 2021. TB2J: A python package for computing magnetic interaction parameters. *Computer Physics Communications*, Vol.264, No.107938.
- Hohenberg, P., dan Kohn, W., 1964. Inhomogeneous electron gas. *Physical review*, Vol.136, No.3B, hal.B864-B870.
- Hohenberg, P. C., dan Krekhov, A. P., 2015. An introduction to the Ginzburg–Landau theory of phase transitions and nonequilibrium patterns. *Physics Reports*, Vol.572, hal.1-42.
- Hu, J., Wang, B., Zhou, H., Jia, T., Sun, Z., Liu, C., ... dan Xiao, D. 2026. Half-quantized layer hall effect as a probe of quantized axion field. *Nature Communications*.

- Jiang, X., Liu, Q., Xing, J., Liu, N., Guo, Y., Liu, Z., dan Zhao, J. 2021. Recent progress on 2D magnets: Fundamental mechanism, structural design and modification. *Applied Physics Reviews*, Vol.8, No.3.
- Klitzing, K. V., Dorda, G., dan Pepper, M. (1980). New method for high-accuracy determination of the fine-structure constant based on quantized Hall resistance, *Physical Review Letter*, Vol.45, No.6 Agustus 1980, hal.281 - 184
- Kittel, C. 2005. *Introduction to Solid State Physics*, John Wiley and Sons Inc. New York.
- Kohmoto, M. 1985. Topological invariant and the quantization of the Hall conductance. *Annals of Physics*, Vol.160, No.2, hal.343-354.
- Kong, X., Li, L., Leenaerts, O., Wang, W., Liu, X. J., and Peeters, F. M., 2018, Quantum anomalous Hall effect in a stable 1T-YN 2 monolayer with a large nontrivial bandgap and a high Chern number. *Nanoscale*, Vol.10, No.17, hal.8153-8161.
- Laughlin, R. B., 1981, Quantized Hall conductivity in two dimensions, *Physical Review B*, Vol.23, No.10, hal.290-291.
- Li, L., Kong, X., Chen, X., Li, J., Sanyal, B., dan Peeters, F. M. 2020. Monolayer 1T-LaN₂: Dirac spin-gapless semiconductor of p-state and Chern insulator with a high Chern number. *Applied Physics Letters*, Vol.117, No.14.
- Li, S., Li, X., Ji, W., Li, P., Yan, S., dan Zhang, C., 2023, Quantum anomalous Hall effect with a high and tunable Chern number in monolayer NdN₂, *Physical Chemistry Chemical Physics*, Vol.25, No.27, hal.18275-18283.
- Lin, Z. Z., dan Chen, X., 2020., 1T-GdN₂ monolayer—Spin-orbit induced magnetic Dirac semiconductor stable at room temperature. *Applied Surface Science*, Vol.529 147129.
- Liu, C. X., Qi, X. L., Dai, X., Fang, Z., dan Zhang, S. C., 2008. Quantum anomalous Hall effect in Hg_{1-y} Mn_yTe quantum wells. *Physical review letters*, Vol.101, No.14, 146802.
- Liu, Z., Liu, J., dan Zhao, J. 2017. YN₂ monolayer: Novel p-state Dirac half metal for high-speed spintronics. *Nano Research*, Vol.10, hal.1972-1979.

- Lu, Z., Han, T., Yao, Y., Reddy, A. P., Yang, J., Seo, J., dan Ju, L. 2024. Fractional quantum anomalous Hall effect in multilayer graphene. *Nature*, Vol.626, No.8000, hal.759-764.
- Maeno, Y., Hashimoto, H., Yoshida, K., Nishizaki, S., Fujita, T., Bednorz, J. G., dan Lichtenberg, F. 1994. Superconductivity in a layered perovskite without copper. *nature*, Vol.372, No.6506, hal.532-534.
- Misra, P.K. 2012. *Physics of Condensed Matter*, Academic Press, Boston. Diakses pada 22 Februari 2025 (<https://doi.org/10.1016/B978-0-12-384954-0.00007-4>)
- Pires, A. S. T. 2021. *Theoretical tools for spin models in magnetic systems*. IOP Publishing.
- Ozaki, T. 2003. Variationally optimized atomic orbitals for large-scale electronic structures. *Physical Review B*, Vol.67, No.15, 155108.
- Pan, L., Liu, X., He, Q. L., Stern, A., Yin, G., Che, X., ... dan Wang, K. L. 2020. Probing the low-temperature limit of the quantum anomalous Hall effect. *Science advances*, Vol.6, No.25, eaaz3595.
- Poirier, W., dan Schopfer, F. 2009. Resistance metrology based on the quantum Hall effect. *The European Physical Journal Special Topics*, Vol.172, No.1, hal.207-245.
- Qi, X. L., dan Zhang, S. C. 2011. Topological insulators and superconductors. *Reviews of modern physics*, Vol.83, No.4, hal.1057-1110.
- Sholl, D. S., dan Steckel, J. A. 2009. *Density functional theory: a practical introduction*. John Wiley and Sons, New Jersey.
- Sudbø, A. 2013. *The Anderson-Higgs Mechanism for the Meissner Effect in Superconductors*. In *Superconductivity: Discoveries and Discoverers: Ten Physics Nobel Laureates Tell Their Story*. Berlin, Heidelberg: Springer Berlin Heidelberg. hal. 129-131.
- Tadano, T., dan Shinji, T. 2015. Self-consistent phonon calculations of lattice dynamical properties in cubic SrTiO₃ with first-principles anharmonic force constants. *Physical Review B* Vol.92, No.054301. hal 1-5.

- Wang, S., Ge, H., Sun, S., Zhang, J., Liu, F., Wen, X., Yu, X., Wang, L., Zhang, Y., Xu, H., Neuefeind, J.C., Qun, Z., Chen, C., Jin, C., Li, Y., He, D., dan Zhao, Y. 2015. A new molybdenum nitride catalyst with rhombohedral MoS₂ structure for hydrogenation applications. *Journal of the American Chemical Society*, Vol.137, No.14, hal.4815-4822.
- Wu, F., Huang, C., Wu, H., Lee, C., Deng, K., Kan, E., dan Jena, P. 2015. Atomically thin transition-metal dinitrides: high-temperature ferromagnetism and half-metallicity. *Nano Letters*, Vol.15, No.12, hal.8277-8281.
- Wu, X. C., Li, S. Z., Si, J. S., Huang, B., dan Zhang, W. B., 2024. Quantum Anomalous Hall Effect with Tunable Chern Numbers in High-Temperature 1T-PrN₂ Monolayer. *Chinese Physics Letters*, Vol.41, No.5, 057303.
- Xiao, D., Chang, M. C., dan Niu, Q. 2010. Berry phase effects on electronic properties. *Reviews of modern physics*, Vol.82, No.3, hal.1959-2007.
- Yang, X., Zhou, X., Feng, W., dan Yao, Y. 2021. Tunable magneto-optical effect, anomalous Hall effect, and anomalous Nernst effect in the two-dimensional room-temperature ferromagnet 1 T-CrTe₂. *Physical Review B*, Vol.103, No.2, 024436.
- Yu, Y., Chen, X., Liu, X., Li, J., Sanyal, B., Kong, X., Peeters, F.M., dan Li, L., 2022, Ferromagnetism with in-plane magnetization, Dirac spin-gapless semiconducting properties, and tunable topological states in two-dimensional rare-earth metal dinitrides. *Physical Review B*, Vol.105, No.2, p.024407.
- Zhao, Y. F., Zhang, R., Mei, R., Zhou, L. J., Yi, H., Zhang, Y. Q., Yu, J., Xiao, R., Wang, K., Samarth, N., Chan, M., Liu, C.X., dan Chang, C. Z., 2020, Tuning the Chern number in quantum anomalous Hall insulators. *Nature*, Vol.588, No.7838, hal.419-423.
- Zhang, Y. K., Zheng, J. D., Shen, Y. H., Zhao, Y. F., Li, Y. Q., Bao, Z. Q., dan Duan, C. G. 2025. Electric-field-induced quantum anomalous valley Hall effect in antiferromagnetic bilayer. *Newton*, Vol.1, No.8.