

DAFTAR PUSTAKA

- Absor, M. A. U., 2015, Density-Functional Theory Based Calculation of Spin Orbit Interaction in ZnO, *Tesis*, Universitas Kanazawa.
- Aroyo, M. I., Perez-Mato, J. M., Orobengoa, D., Tasci, E., de la Flor, G., dan Kirov, A., 2011, Crystallography online: Bilbao Crystallographic Server, *Bulg. Chem. Commun.*, 43, 2, 183-197, <https://www.cryst.ehu.es>.
- Asaba, T., Ivanov, V., Thomas, S.M., Savrasov, S.Y., Thompson, J.D., Bauer, E.D., dan Ronning, F., 2021, Colossal Anomalous Nernst Effect in A Correlated Noncentrosymmetric Kagome Ferromagnet, *Science Advances*, 7, 13, DOI:10.1126/sciadv.abf1467.
- Ashton, M., Gluhovic, D., Sinnott, S.B., Guo, J., Stewart, D.A., dan Hennig, R.G., 2017, Two-Dimensional Intrinsic Half-Metals with Large Spin Gaps, *Nano Letter*, 17, 5251–5257, DOI: 10.1021/acs.nanolett.7b01367.
- Ballhausen, Carl J., 1962, *Introduction to Ligand Field Theory*, McGraw-Hill Book Company, New York.
- Behnia, Kamran dan Aubin, Hervé, 2016, Nernst Effect in Metals and Superconductors: A Review of Concepts and Experiments, *Reports on Progress in Physics*, 79, 046502, DOI: 10.1088/0034-4885/79/4/046502.
- Blundell, Stephen, 2001, *Magnetism in Condensed Matter*, Oxford University Press, New York.
- Bo, X., Fu, L., Wan, X., Li, S., dan Pu, Y., 2024, Magnetic structure and exchange interactions of transition metal dihalide monolayers: First-principles studies, *Physical Review B*, 109, 014405 1-7
- Botana, A.S. dan Norman, M.R., 2019, Electronic Structure and Magnetism of Transition Metal Dihalides: Bulk to Monolayer, *Physical Review Materials*, 3,4, 044001, DOI: 10.1103/PhysRevMaterials.3.044001.
- Dalven, Richard, 1990, *Introduction to Applied Solid State Physics: Topics in Applications of Semiconductor, Superconductor, Ferromagnetism, and the Nonlinear Optical Properties of Solids*, Edisi 2, Plenum Press, New York.
- Dresselhaus, M.S., 2001, *Solid State Physics*, Massachusetts Institute of Technology: Cambridge, <http://web.mit.edu/course/6/6.732/www/6.732-pt1.pdf>.
- Geim, A.K., 2011, Nobel Lecture: Random Walk to Graphene, *Reviews of Modern Physics*, 83, 3, 851-862.
- Giannozzi, Paolo, Ercolessi, Furio dan de Gironcoli, Stefano, 2018, *Numerical methods in Quantum Mechanics*, University of Udine.
- Ghosh, R.K., Jose, A., dan Kumari, G., 2021, Intrinsic Spin-Dynamical Properties of Two-Dimensional Half-Metallic FeX₂ (X = Cl, Br, I) Ferromagnets: Insight from Density Functional Theory Calculations, *Physical Review B*, 103, 054409.
- Griffiths D.J., dan Schroeter, D.F., 2018, *Introduction to Quantum Mechanics*, Edisi 3, Cambridge University Press, United Kingdom.
- Hadjadj, S. E., González-Orellana, C., Lawrence, J., Bikaljević, D., Peña-Díaz, M., Gargiani, P., Aballe, L., Naumann, J., Niño, M. Á., Foerster, M., Ruiz-

- Gómez, S., Thakur, S., Kumberg, I., Taylor, J., Hayes, J., Torres, J., Luo, C., Radu, F., de Oteyza, D. G., Kuch, W., Pascual, J. I., Rogero, C., dan Ilyn, M., 2023, Epitaxial Monolayers of Magnetic 2D Semiconductor FeBr₂ Grown on Au(111), *Chemistry of Materials*, 35, 23, 9847–9856, DOI: 10.1021/acs.chemmater.3c00978.
- Han, X., Wang, X., Wan, C., Yu, G., dan Lv, X., 2021, Spin-Orbit Torques: Materials, Physics, and Devices, *Appl. Phys. Lett.*, 118, 120502(1-18), <https://doi.org/10.1063/5.0039147>.
- Karsenty, Avi, 2020, A Comprehensive Review of Integrated *Hall* effects in Macro, Micro-, Nanoscales, and Quantum Devices, *Sensors*, 20, 4163, DOI:10.3390/s20154163.
- Katsura, T., dan Tange, Y., 2019, A Simple Derivation of The Birch–Murnaghan Equations of State (EOSs) and Comparison with EOSs Derived from Other Definitions of Finite Strain, *Minerals*, 9, 745, 1-18, DOI:10.3390/min9120745.
- Kovaleva, E.A., Mechakova, I., Mikhaleva, N.S., Tomilin, F.N., Ovchinnikov, S.G., Baek, W., Pomagaev, V.A., Avramov. P., dan Kuzubov, A.A., 2019, The Role of Strong Electron Correlations in Determination of Band Structure and Charge Distribution of Transition Metal Dihalide Monolayers, *Journal of Physics and Chemistry of Solids*, 134, 324–332, <https://doi.org/10.1016/j.jpcs.2019.05.036>.
- Kulish, V.V. dan Huang, W., 2017, Single-Layer Metal Halides MX₂ (X = Cl, Br, I): Stability and Tunable Magnetism from First Principles and Monte Carlo Simulations, *Journal of Materials Chemistry C*, 25, 8734, DOI: 10.1039/c7tc02664a.
- Kurebayashi, H., Gracia, H.J., Khan, S., SInova, J., dan Roche S., 2022, Magnetism, Symmetry, and Spin *Transport* in Van Der Waals Layered Systems, *Nature Reviews*, <https://doi.org/10.1038/s42254-021-00403-5>.
- Lee, June Gunn, 2017, *Computational Materials Science: An Introduction*, Edisi 2, CRC Press, Boca Raton.
- Li, R., Jiang, J., Shi, X., Mi, W., dan Bai, H., 2021, Two-Dimensional Janus FeXY (X, Y = Cl, Br, and I, X ≠ Y) Monolayers: Half-Metallic Ferromagnets with Tunable Magnetic Properties uder Strain, *ACS Appl. Mater. Interfaces*, 13, 38897-38905, <https://doi.org/10.1021/acsami.1c10304>.
- Liao, Z., Jiang, P., Zhong, Z. dkk., 2020, Materials with Strong Spin-Textured Bands, *npj Quantum Mater*, 5, 30, <https://doi.org/10.1038/s41535-020-0233-5>.
- Mizuguchi, Masaki dan Nakatsuji, Satoru, 2019 Energy-Harvesting Materials Based on The Anomalous Nernst Effect, *Science and Technology of Advanced Materials*, 20, 1, 262-275, DOI: 10.1080/14686996.2019.1585143.
- McGuire, Michael A., 2017, Crystal and Magnetic Structures in Layered, Transition Metal Dihalides and Trihalides, *Crystals*, 7, 121, DOI:10.3390/cryst7050121.
- Momma, Koichi, 2021, VESTA: Introduction, <http://www.jp-minerals.org/vesta/en/>.

- Nagaosa, N., Sinova, J., Onoda, S., MacDonald, A.H., dan Ong, N.P., 2010, Anomalous *Hall Effect*, *Review of Modern Physics*, 82, 2, 1539, DOI: 10.1103/RevModPhys.82.1539.
- Ozaki, T., Kino, H., Yu, J., Han, M. J., Ohfuchi, M., Ishii, F., Sawada, K., Kubota, Y., Mizuta, Y.P., Kotaka, H., Yamaguchi, N., Sawahata, H., Prayitno, T.B., Ohwaki, T., Duy, T.V.T., Miyata, M., Jiang, G., Chang, P.H., Terasawa, A., Gohda, Y., Weng, H., Shiihara, Y., Toyoda, M., Okuno, Y., Perez, R., Bell, P. P., Elner, M., Xiao, Y., Ito, A. M., Otani, M., Kawamura, M., Lee, C.C., Lee, Y.T., Fukuda, M., Ryee, S., dan Terakura, K., 2020, User's Manual of OpenMX Ver. 3.9, <http://www.OpenMX-square.org>.
- Powell, R.C., 2010, *Symmetry, Group Theory, and the Physical Properties of Crystals*, Springer, New York, DOI 10.1007/978-1-4419-7598-0.
- Roman, E., Mokrousov, Y., dan Souza, I., 2009, Orientation Dependence of the Intrinsic Anomalous *Hall Effect* in Hcp Cobalt, *Physical Review Letters*, 103, 097203, DOI: 10.1103/PhysRevLett.103.097203.
- Sawahata H., Yamaguchi N., Minami S., dan Ishii F., 2023, First-Principles Calculation of Anomalous *Hall* and Nernst Conductivity by Local *Berry Phase*, *Physical Review B*, 107, 024404 .
- Sellmyer, D. dan Skomski, R., 2006, *Advanced Magnetic Nanostructures*, Springer, New York.
- Skomski, R., Manchanda, P., dan Kashyap, A., 2021, Anisotropy and Crystal Field. Coey, M., Parkin, S. (editor) *Handbook of Magnetism and Magnetic Materials*. Springer, Cham, https://doi.org/10.1007/978-3-030-63101-7_3-1.
- Syariati, R., Minami, S., Sawahata, H., dan Ishii, F., 2020, First-Principles Study of Anomalous Nernst Effect in Half-Metallic Iron Dichloride Monolayer, *APL Materials*, 8, 041105, <https://doi.org/10.1063/1.5143474>.
- Vanderbilt, David, 2018, *Berry Phases in Electronic Structure Theory*, Cambridge University Press, United Kingdom.
- Wang, C. dan An, Y., 2022, Valley Polarization, Magnetic Anisotropy and Band Alignment Engineering in Two-Dimensional 2H-VTe₂/1-FeCl₂ Van Der Waals Heterostructure, *Applied Surface Science*, 583, 152520, <https://doi.org/10.1016/j.apsusc.2022.152520>.
- Wella, Sasfan Arman, 2021, *Research Starter Kit: Modul Praktis untuk Riset Teori dan Komputasi Material*, V1.0, Pusat Penelitian Fisika Kuantum Badan Riset dan Inovasi Nasional: Tangerang Selatan.
- Yang, S., Zhang, T., dan Jiang, C., 2021. van der Waals Magnets: Material Family, Detection and Modulation of Magnetism, and Perspective in Spintronics. *Advanced Science*, 2, 8, 2002488.
- Yang, X., Shen, Y., Lv, L., Zhou, M., Zhang, Y., Meng, X., Jiang, X., Ai, Q., Shuai, Y., dan Zhou, Z., 2023, Tuning the Topological Phase and Anomalous Hall Conductivity with Magnetization Direction in *H-FeCl₂* Monolayer, *Appl. Phys. Lett.* 123, 203102, <https://doi.org/10.1063/5.0175382>.
- Yao Y., Kleinman, L., MacDonald, A.H., Sinova, J., Jungwirth, T., Wang, D., Wang, E., dan Niu, Q., 2004, First Principles Calculation of Anomalous Hall

- Conductivity in Ferromagnetic bcc Fe, *Physical Review Letters*, 92, 3, 032704, DOI: 10.1103/PhysRevLett.92.037204.
- Zheng, H., Han, H., Zheng, J., dan Yan, Y., 2018, Strain Tuned Magnetocrystalline Anisotropy in Ferromagnetic *H*-FeCl₂ Monolayer, *Solid State Communications*, 271, 66–70, <https://doi.org/10.1016/j.ssc.2017.12.025>.
- Zhou, X., Brzostowski, B., Durajski, A., Liu, M., Xiang, J., Jiang, T., Wang, Z., Chen, S., Li, P., Zhong, Z., Drzewiński, A., Jarosik, M., Szczęśniak, R., Lai, T., Guo, D., dan Zhong, D., 2020, Atomically Thin 1T-FeCl₂ Grown by Molecular-Beam Epitaxy, *The Journal of Physical Chemistry C*, 124, 17, 9416-9423, DOI: 10.1021/acs.jpcc.0c03050.
- Zhu, Y., Li, H., Chen, T., Liu, D., dan Zhou, Q.H., 2020, Investigation of The Electronic and Magnetic Properties of Low-Dimensional FeCl₂ Derivatives by First-Principles Calculations. *Vacuum*, 182, 109694, <https://doi.org/10.1016/j.vacuum.2020.109694>.
- Zwiebach, B., 2017, *Quantum Physics III Chapter 6: Adiabatic Approximation*, Massachusetts Institute of Technology: MIT Open Course Ware, <https://ocw.mit.edu/>.