

DAFTAR PUSTAKA

- Absor, M. A. U. dan Santoso, I., 2022, Reversible canted persistent spin textures in two-dimensional ferroelectric bilayer WTe₂, *Journal of Applied Physics*, 132(18), p. 183906.
URL: <https://doi.org/10.1063/5.0121520>
- Altenkirch, J., 1909, Über den nutzeffekt der thermosäule, *Phys. Z.*, 10(16), p. 560–568.
- Augustin, J., Eyert, V., Böker, T., Frentrop, W., Dwelk, H., Janowitz, C. dan Mancke, R., 2000, Electronic band structure of the layered compound Td – wte₂, *Phys. Rev. B*, 62(16), p. 10812–10823.
URL: <https://link.aps.org/doi/10.1103/PhysRevB.62.10812>
- Bernevig, B. A. dan Zhang, S.-C., 2006, Quantum spin hall effect, *Phys. Rev. Lett.*, 96(10), p. 106802.
URL: <https://link.aps.org/doi/10.1103/PhysRevLett.96.106802>
- Besalú, E. dan Bofill, J., 1998, On the automatic restricted-step rational-function-optimization method, *Theoretical Chemistry Accounts*, 100(5), p. 265–274.
- Brown, B. E., 1966, The crystal structures of wte₂ and high-temperature mote₂, *Acta Crystallographica*, 20(2), p. 268–274.
URL: <https://onlinelibrary.wiley.com/doi/abs/10.1107/S0365110X66000513>
- Cutler, M. dan Mott, N. F., 1969, Observation of anderson localization in an electron gas, *Phys. Rev.*, 181(3), p. 1336–1340.
URL: <https://link.aps.org/doi/10.1103/PhysRev.181.1336>
- Das, P. K., Sante, D. D., Cilento, F., Bigi, C., Kopic, D., Soranzio, D., Sterzi, A., Krieger, J. A., Vobornik, I., Fujii, J., Okuda, T., Strocov, V. N., Breese, M. B. H., Parmigiani, F., Rossi, G., Picozzi, S., Thomale, R., Sangiovanni, G., Cava, R. J. dan Panaccione, G., 2019, Electronic properties of candidate type-ii weyl semimetal wte₂. a review perspective, *Electronic Structure*, 1(1), p. 014003.
URL: <https://dx.doi.org/10.1088/2516-1075/ab0835>

Eftekhari, A., 2017, Tungsten dichalcogenides (ws₂, wse₂, and wte₂): materials chemistry and applications, *J. Mater. Chem. A*, 5(35), p. 18299–18325.

URL: <http://dx.doi.org/10.1039/C7TA04268J>

Fang, Z., Nagaosa, N., Takahashi, K. S., Asamitsu, A., Mathieu, R., Ogasawara, T., Yamada, H., Kawasaki, M., Tokura, Y. dan Terakura, K., 2003, The anomalous hall effect and magnetic monopoles in momentum space, *Science*, 302(5642), p. 92–95.

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*, 74(6), p. 1674–1677.

Goldsmid, H. J., 2016, *Introduction to Thermoelectricity*, Vol. 121, 2 edn, Springer.

URL: <http://www.springer.com/series/856>

Guin, S. N., Manna, K., Noky, J., Watzman, S. J., Fu, C., Kumar, N., Schnelle, W., Shekhar, C., Sun, Y., Gooth, J. dan Felser, C., 2019, Anomalous nernst effect beyond the magnetization scaling relation in the ferromagnetic heusler compound co₂mnga, *NPG Asia Materials*, 11(1), p. 16.

URL: <http://dx.doi.org/10.1038/s41427-019-0116-z>

Haldane, F. D. M., 1988, Model for a quantum hall effect without landau levels: Condensed-matter realization of the "parity anomaly", *Phys. Rev. Lett.*, 61(18), p. 2015–2018.

URL: <https://link.aps.org/doi/10.1103/PhysRevLett.61.2015>

Jiang, J., Tang, F., Pan, X. C., Liu, H. M., Niu, X. H., Wang, Y. X., Xu, D. F., Yang, H. F., Xie, B. P., Song, F. Q., Dudin, P., Kim, T. K., Hoesch, M., Das, P. K., Vobornik, I., Wan, X. G. dan Feng, D. L., 2015, Signature of strong spin-orbital coupling in the large nonsaturating magnetoresistance material wte₂, *Phys. Rev. Lett.*, 115(16), p. 166601.

URL: <https://link.aps.org/doi/10.1103/PhysRevLett.115.166601>

Jungwirth, T., Niu, Q. dan MacDonald, A. H., 2002, Anomalous hall effect in ferromagnetic semiconductors, *Phys. Rev. Lett.*, 88(20), p. 207208.

URL: <https://link.aps.org/doi/10.1103/PhysRevLett.88.207208>

- Kabashima, S., 1966, Electrical properties of tungsten-ditelluride wte2, *Journal of the Physical Society of Japan*, 21(5), p. 945–948.
URL: <https://doi.org/10.1143/JPSJ.21.945>
- Kane, C. L. dan Mele, E. J., 2005, Quantum spin hall effect in graphene, *Phys. Rev. Lett.*, 95(22), p. 226801.
URL: <https://link.aps.org/doi/10.1103/PhysRevLett.95.226801>
- Karplus, R. dan Luttinger, J. M., 1954, Hall effect in ferromagnetics, *Phys. Rev.*, 95(5), p. 1154–1160.
URL: <https://link.aps.org/doi/10.1103/PhysRev.95.1154>
- Kohn, W. dan Sham, L. J., 1965, Self-consistent equations including exchange and correlation effects, *Phys. Rev.*, 140(4A), p. A1133–A1138.
URL: <https://link.aps.org/doi/10.1103/PhysRev.140.A1133>
- Labracherie, V., 2021, *Electrical transport in nanostructures of the Weyl semimetal WTe2*, Theses, Université Grenoble Alpes [2020-....] ; Technische Universität (Dre-sde, Allemagne).
URL: <https://theses.hal.science/tel-03487115>
- Lee, C.-H., Silva, E., Calderín, L., Nguyen Minh, T., Hollander, M., Bersch, B., Mallouk, T. dan Robinson, J., 2015, Tungsten ditelluride: A layered semimetal, *Scientific reports*, 5(1), p. 10013.
- Li, P., Wen, Y., He, X., Zhang, Q., Xia, C., Yu, Z. M., Yang, S. A., Zhu, Z., Alshareef, H. N. dan Zhang, X. X., 2017, Evidence for topological type-ii weyl semimetal wte2, *Nature Communications*, 8(1), p. 2150.
- Liang, T., Gibson, Q., Xiong, J., Hirschberger, M., Koduvayur, S. P., Cava, R. J. dan Ong, N. P., 2013, Evidence for massive bulk dirac fermions in pb1-xsn xse from nernst and thermopower experiments, *Nature Communications*, 4(1), p. 2696.
- Liang, T., Lin, J., Gibson, Q., Gao, T., Hirschberger, M., Liu, M., Cava, R. J. dan Ong, N. P., 2017, Anomalous nernst effect in the dirac semimetal cd₃as₂, *Phys. Rev. Lett.*, 118(13), p. 136601.
URL: <https://link.aps.org/doi/10.1103/PhysRevLett.118.136601>

- lv, B. Q., Weng, H. M., Fu, B. B., Wang, X. P., Miao, H., Ma, J., Richard, P., Huang, X. C., Zhao, L. X., Chen, G. F., Fang, Z., Dai, X., Qian, T. dan Ding, H., 2015, Experimental discovery of weyl semimetal taas, *Phys. Rev. X*, 5(3), p. 031013.
URL: <https://link.aps.org/doi/10.1103/PhysRevX.5.031013>
- Madsen, G. K., Carrete, J. dan Verstraete, M. J., 2018, Boltztrap2, a program for interpolating band structures and calculating semi-classical transport coefficients, *Computer Physics Communications*, 231, p. 140–145.
URL: <https://www.sciencedirect.com/science/article/pii/S0010465518301632>
- Madsen, G. K. dan Singh, D. J., 2006, Boltztrap. a code for calculating band-structure dependent quantities, *Computer Physics Communications*, 175(1), p. 67–71.
URL: <http://dx.doi.org/10.1016/j.cpc.2006.03.007>
- Min, H., Hill, J. E., Sinitsyn, N. A., Sahu, B. R., Kleinman, L. dan MacDonald, A. H., 2006, Intrinsic and rashba spin-orbit interactions in graphene sheets, *Phys. Rev. B*, 74(16), p. 165310.
URL: <https://link.aps.org/doi/10.1103/PhysRevB.74.165310>
- Morrison, I., Bylander, D. M. dan Kleinman, L., 1993, Nonlocal hermitian norm-conserving vanderbilt pseudopotential, *Phys. Rev. B*, 47(11), p. 6728–6731.
URL: <https://link.aps.org/doi/10.1103/PhysRevB.47.6728>
- Narang, P., Garcia, C. A. dan Felser, C., 2021, The topology of electronic band structures, *Nature Materials*, 20(3), p. 293–300.
- Novoselov, K. S., Geim, A. K., Morozov, S. V., Jiang, D., Katsnelson, M. I., Grigorieva, I. V., Dubonos, S. V. dan Firsov, A. A., 2005, Two-dimensional gas of massless dirac fermions in graphene, *Nature*, 438(7065), p. 197–200.
- Onoda, M. dan Nagaosa, N., 2002, Topological nature of anomalous hall effect in ferromagnets, *Journal of the Physical Society of Japan*, 71(1), p. 19–22.
URL: <https://doi.org/10.1143/JPSJ.71.19>
- Ozaki, T., 2003, Variationally optimized atomic orbitals for large-scale electronic structures, *Phys. Rev. B*, 67(15), p. 155108.
URL: <https://link.aps.org/doi/10.1103/PhysRevB.67.155108>

Ozaki, T. dan Kino, H., 2004, Numerical atomic basis orbitals from h to kr, *Phys. Rev. B*, 69(19), p. 195113.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.69.195113>

Ozaki, T. dan Kino, H., 2005, Efficient projector expansion for the ab initio lcao method, *Phys. Rev. B*, 72(4), p. 045121.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.72.045121>

Pan, Y., He, B., Helm, T., Chen, D., Schnelle, W. dan Felser, C., 2022, Ultrahigh transverse thermoelectric power factor in flexible weyl semimetal wte2, *Nature Communications*, 13(1), p. 3909.

Perdew, J. P., Burke, K. dan Ernzerhof, M., 1996, Generalized gradient approximation made simple, *Phys. Rev. Lett.*, 77(18), p. 3865–3868.

URL: <https://link.aps.org/doi/10.1103/PhysRevLett.77.3865>

Perdew, J. P. dan Wang, Y., 1992, Accurate and simple analytic representation of the electron-gas correlation energy, *Phys. Rev. B*, 45(23), p. 13244–13249.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.45.13244>

Qi, X.-L. dan Zhang, S.-C., 2011, Topological insulators and superconductors, *Rev. Mod. Phys.*, 83(4), p. 1057–1110.

URL: <https://link.aps.org/doi/10.1103/RevModPhys.83.1057>

Qian, X., Liu, J., Fu, L. dan Li, J., 2014, Quantum spin hall effect in two - dimensional transition metal dichalcogenides, *Science*, 346(6215), p. 1344–1347.

Rana, K. G., Dejene, F. K., Kumar, N., Rajamathi, C. R., Sklarek, K., Felser, C. dan Parkin, S. S. P., 2018, Thermopower and unconventional nernst effect in the predicted type-ii weyl semimetal wte2, *Nano Letters*, 18(10), p. 6591–6596. PMID: 30241438.

URL: <https://doi.org/10.1021/acs.nanolett.8b03212>

Sakai, A., Minami, S., Koretsune, T., Chen, T., Higo, T., Wang, Y., Nomoto, T., Hirayama, M., Miwa, S., Nishio-Hamane, D., Ishii, F., Arita, R. dan Nakatsuji, S., 2020, Iron-based binary ferromagnets for transverse thermoelectric conversion, *Nature*, 581(7806), p. 53–57.

Sawahata, H., Yamaguchi, N., Minami, S. dan Ishii, F., 2023, First-principles calculation of anomalous hall and nernst conductivity by local berry phase, *Phys. Rev. B*, 107(2), p. 024404.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.107.024404>

Sharma, G., Moore, C., Saha, S. dan Tewari, S., 2017, Nernst effect in dirac and inversion-asymmetric weyl semimetals, *Phys. Rev. B*, 96(19), p. 195119.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.96.195119>

Soluyanov, A. A., Gresch, D., Wang, Z., Wu, Q., Troyer, M., Dai, X. dan Bernevig, B. A., 2015, Type-ii weyl semimetals, *Nature*, 527(7579), p. 495–498.

Thouless, D. J., Kohmoto, M., Nightingale, M. P. dan den Nijs, M., 1982, Quantized hall conductance in a two-dimensional periodic potential, *Phys. Rev. Lett.*, 49(6), p. 405–408.

URL: <https://link.aps.org/doi/10.1103/PhysRevLett.49.405>

Tominaga, T., Yamaguchi, N., Sawahata, H. dan Ishii, F., 2023, First-principles study of anomalous hall effect and anomalous nernst effect in fe₂si, *Japanese Journal of Applied Physics*, 62(SD), p. SD1019.

URL: <https://dx.doi.org/10.35848/1347-4065/acaca6>

Uchida, K.-i., Zhou, W. dan Sakuraba, Y., 2021, Transverse thermoelectric generation using magnetic materials, *Applied Physics Letters*, 118(14), p. 140504.

URL: <https://doi.org/10.1063/5.0046877>

Wang, H. dan Qian, X., 2019, Ferroelectric nonlinear anomalous hall effect in few-layer wte₂, *npj Computational Materials*, 5(1), p. 119.

URL: <http://dx.doi.org/10.1038/s41524-019-0257-1>

Watzman, S. J., McCormick, T. M., Shekhar, C., Wu, S.-C., Sun, Y., Prakash, A., Felser, C., Trivedi, N. dan Heremans, J. P., 2018, Dirac dispersion generates unusually large nernst effect in weyl semimetals, *Phys. Rev. B*, 97(16), p. 161404.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.97.161404>

Xiang, J. S., Hu, S. L., Lyu, M., Zhu, W. L., Ma, C. Y., Chen, Z. Y., Steglich, F., Chen, G. F. dan Sun, P. J., 2020, Large transverse thermoelectric figure of merit in a topological dirac semimetal, *Science China: Physics, Mechanics and Astronomy*, 63(3), p. 237011.

Xiao, D., Yao, Y., Fang, Z. dan Niu, Q., 2006, Berry-phase effect in anomalous thermoelectric transport, *Phys. Rev. Lett.*, 97(2), p. 026603.

URL: <https://link.aps.org/doi/10.1103/PhysRevLett.97.026603>

Xu, S.-Y., Belopolski, I., Alidoust, N., Neupane, M., Bian, G., Zhang, C., Sankar, R., Chang, G., Yuan, Z., Lee, C.-C., Huang, S.-M., Zheng, H., Ma, J., Sanchez, D. S., Wang, B., Bansil, A., Chou, F., Shibaev, P. P., Lin, H., Jia, S. dan Hasan, M. Z., 2015, Discovery of a weyl fermion semimetal and topological fermi arcs, *Science*, 349(6248), p. 613–617.

URL: <https://www.science.org/doi/10.1126/science.aaa9297>

Xu, S.-Y., Ma, Q., Shen, H., Fatemi, V., Wu, S., Chang, T.-R., Chang, G., Valdivia, A. M. M., Chan, C.-K., Gibson, Q. D., Zhou, J., Liu, Z., Watanabe, K., Taniguchi, T., Lin, H., Cava, R. J., Fu, L., Gedik, N. dan Jarillo-Herrero, P., 2018, Electrically switchable berry curvature dipole in the monolayer topological insulator wte2, *Nature Physics*, 14(9), p. 900–906.

URL: <http://dx.doi.org/10.1038/s41567-018-0189-6>

Yang, H., You, W., Wang, J., Huang, J., Xi, C., Xu, X., Cao, C., Tian, M., Xu, Z.-A., Dai, J. dan Li, Y., 2020, Giant anomalous nernst effect in the magnetic weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$, *Phys. Rev. Mater.*, 4(2), p. 024202.

URL: <https://link.aps.org/doi/10.1103/PhysRevMaterials.4.024202>

Yang, L., Yang, H. dan Chen, Y., 2021, Chapter one - electronic structures of topological quantum materials studied by arpes, in L. Li dan K. Sun (eds), *Topological Insulator and Related Topics*, Vol. 108 of *Semiconductors and Semimetals*, Elsevier, pp. 1–42.

URL: <https://www.sciencedirect.com/science/article/pii/S0080878421000351>

Yao, Y., Kleinman, L., MacDonald, A. H., Sinova, J., Jungwirth, T., sheng Wang, D., Wang, E. dan Niu, Q., 2004, First principles calculation of anomalous hall conductivity in ferromagnetic bcc fe, *Physical Review Letters*, 92(3), p. 4.

Yao, Y., Ye, F., Qi, X.-L., Zhang, S.-C. dan Fang, Z., 2007, Spin-orbit gap of graphene: First-principles calculations, *Phys. Rev. B*, 75(4), p. 041401.

URL: <https://link.aps.org/doi/10.1103/PhysRevB.75.041401>