

DAFTAR PUSTAKA

- Banhart, F., Kotakoski, J., Krasheninikov, A. V., 2010. Structural Defects in Graphene. ACS Nano 5, hal. 26-41.
- Calandra, M. dan Mauri, F. 2005. Theoretical explanation of superconductivity in C_6Ca . Phys. Rev. Lett. 95, 23700.
- Calandra, M. dan Mauri, F. 2006. Possibility of superconductivity in graphite intercalated with alkaline earths investigated with density functional theory. Phys. Rev. B 74, 094507.
- Chan, K. T., Neaton, J. B., dan Cohen, M. L., 2008. First-principles study of metal adatom adsorption on graphene. Physical Review B, vol.77, no.23, hal.235430.
- Dekker, Marcel, 1969. Superconductivity. The United State of America.
- Dennis, Pablo A., 2016. Mono and Dual Doped Monolayer Graphene with Aluminum, Silicon, Phosphorus and Sulfur. Sciencedirect, hal. 40-47.
- Durajski, Arthur P., Skoczylas, Kamil M., dan Szczesniak, R., 2019. Superconductivity in bilayer graphene intercalated by alkali and alkaline earth metals. The Royal Society of Chemistry, 1-7.
- Eisberg, R. Martin, Caldwell, D. O., Christman, J. Richard, dan Resnick, R., 1985. Quantum physics of atoms, molecules, solids, nuclei and particles, edisi kedua, New York, Wiley.
- Elias, D. C., Nair, R. R., Mohiuddin, T. M. G., Morosov, S. V., Blake, P., Halall, M. P., Ferrari, A. C., Boukhvalov, D. W., Katsnelson, S. V., Geim, A. A., Novoselov, A. K., 2009. Control of Graphene's Properties by Reversal and Hydrogenation: Evidence for Graphene. Science, Vol 323, hal. 610-613.
- G-C, Wang, T-M, Lu, 2014. Crystal Lattices Reciprocal Lattices. Springer.
- Hinks, D. G., Rosenmann, D., Claus, H., Bailey, M. S., dan Jorgensen, J. D., 2007. Large Ca isotope effect in the CaC_6 superconductor, Phys. Rev. B 75,014509.
- Hohenberg, P., dan W.Kohn, 1964, Inhomogeneous Electron Gas, *Physical Review B*, Vol.136.

- Ichinokura, S., Sugawara, K., Takayama, A., Takahashi, T., dan Hasegawa, S., 2016. Superconducting calcium-intercalated bilayer graphene. *ACS nano*, vol.10, no.2, hal.2761-2765.
- Jishi, R. A., dan Guzman, D. M., 2011. Theoretical Investigation of Two-Dimensional Superconductivity in Intercalated Graphene Layers. *Adv. Studies Theor. Phys.*, Vol. 5, no. 15, 703-716.
- John, R., 2014. *Solid State Physics*. Ie. McGraw-Hill Education.
- Kittel, C., McEuen, P., dan McEuen, P., 1996. *Introduction to solid state physics*. New York, Wiley.
- Kohanoff, J., 2006, *Electronic Structure Calculation for Solids and Molecules: Theory and Computational Methods* (Cambridge University Press, United Kingdom), Hal. 85
- Kohn, W and Sham, L.J., 1965, Self-Consistent Equations Including Exchange and Correlations Effects, *Physical Review A*, Vol.140.
- Laref, A., Ahmed, A., Bin-Omran, S., dan Luo, S. J., 2015. First-principle analysis of the electronic and optical properties of boron and nitrogen doped carbon monolayer graphenes. *Carbon*, vol.81, hal.179-192.
- Lehtinen, O., Katakoski, J., Krasheninnikov, A. V., Toluanen, A., Nordlund, K., Keinonen, S., 2010. Effects of Ion Bombardment on a Two-dimensional Target: Atomistic Simulations of Graphene Irradiation. *Phys. Rev. B*. 81. 153401.
- Lian, B., Wang, Z., dan Andrei Bernevig, B. 2019. Twisted Bilayer Graphene: A Phonon-Driven Superconductor. *Physical Review Letters* 122, 257002.
- Liu, X., Wang, C.Z., Hupalo, M., Lu, W.C., Tringides, M.C., Yao, Y.X., Ho, K.M., 2012. Metals on graphene: correlation between adatom adsorption behavior and growth morphology, *Phys. Chem. Chem. Phys.* 14. 9157–9166.
- Manaf, M. N., Santoso, I., Hermanto, A., 2015. *The Possibility of Superconductivity in Twisted Bilayer Graphene*. AIP Publishing.
- Marchenko, D., Evtushinsky, D. V., Golias, E., Varykhalov, A., Seylleer, Th., Rader, o., 2018. Extremely flat band in bilayer graphene. *Sci. Adv.* 4: eaau0059

- Margine, E. R., Lambert, H., and Giustino, F., 2016. Electron-phonon interaction and pairing mechanism in superconducting Ca-intercalated bilayer graphene. *Science reports*. 6:21414.
- McCann, Edward, 2013. The Electronic Properties of Bilayer Graphene. arXiv: 1205.6953V2
- Mazin, I.I., dan Balatsky, A. V., 2010. Superconductivity in Ca-intercalated bilayer graphene. *Philosophical Magazine Letters*. Vol. 90, No. 10, 731-738
- Minglei, S., Wencheng, T., Qingqiang, R., Wang, S., Jim, Y., Yanhui, D., Yajua, Z., 2015. First-Principle Study of Alkali Earth Metal Atoms Adsorption on Graphene. *Elsevier*, hal. 668-673.
- Neto, A.C., Guinea, F., Peres, N.M., Novoselov, K.S. dan Geim, A.K., 2009. The electronic properties of graphene. *Reviews of modern physics*, vol.81, no.1 Januari 2009, hal. 109-162.
- Nicolas, E., Claire, H., Jean-Francois, M., Phillippe, L., 2008. Synthesis and Superconductivity properties of C_aC_6 . *Sci. Technol. Adv. Matter*, 9, 044102.
- Noah, F., Yuan, Q., dan Liang, F., 2018. Model for the metal-insulator transition in graphene superlattices and beyond. *Physical Review B* 98, 045103.
- Novoselov, K.S., Geim, A.K., Morozov, S.V., Jiang, D., Zhang, Y., Dubonos, S.V., Grigorieva, I.V. dan Firsov, A.A., 2004. Electric field effect in atomically thin carbon films. *science*, vol.306, no.5696, hal.666-669.
- Novoselov, K.S., et-al. 2005. Two-Dimensional Atomic Crystals. *Proc. Natl Acad. Sci. USA* 102, hal. 10451-10453.
- Ohashy, Y., Koizumi, T., Yoshikawa, T., Hironaka, T., Shiiki, K., 1997. Size Effect in The In-plane Electrical Resistivity of Very Thin Graphite Crystals. *TANSO*, hal. 235-238.
- Parr, R.G., Yang, W., 1989. *Density-functional Theory of Atoms and Molecules*. Oxford University Press, New York.
- Proveta, G., Calandra, M., Mauri, F., 2012. Phonon-Mediated Superconductivity in Graphene by Lithium Deposition. *Nature Physics*, Vol. 8, hal 131-134.

- Reshak, A.H., Stys, D., Ktyk, I., 2011. Dispersion of linear and nonlinear optical susceptibilities and the hyperpolarizability of 3-methyl-4-phenyl-5-(2-pyridyl)-1, 2, 4-triazole, *Phys. Chem. Chem. Phys.* 13, hal. 2945-2952.
- Rofique, M., Shuai, Y., Hussain, N. 2018. First-Principles Study on Silicon Atom Doped Monolayer Graphene. *Physics E* 95, hal. 94-101.
- Saito, R., Dresselhaus, G. M., Dresselhaus, S., 1998. *Physical Properties of Carbon Nanotubes*. London, Imperial College Press.
- Savini, G., Ferrari, A. C., Giustino, F., 2010. Doped Grphene: a Prototype High-Tc Electron-Phonon Superconductorr. *arVix*: 002.0653V
- Savini, G., Ferrari, A. C., Giustino, F., 2010. First-Principles Prediction Prediction of Doped Graphene as a High-Temperature Electron-Phonon Superconductor. *Physical Review Letters*. 105, 037002.
- Schedin, F., Geim, A. K., Morosov, S. V., Hill, E. W., Katsnelson, M. I., Novoselov, K. S., 2007. Detection of Individual Gas Moleculer Adsorbed on Graphene. *Nature Materials*, Vol. 6, hal. 652-655.
- Shokuhi, R. Ali, Daryoush, Z., Majid, P., Mohsen, J., 2016. Surface Study of Gallium and Aluminium Doped Grapheness upon Adsorption of Cytosine: DFT Calculations. *Sciencedirect, ASS*. 390, hal 444-451.
- Sholihun, 2015, Thesis: *First-Principles Calculations of Vacancies in Semiconductors*, University of Kanazawa, Japan, hal 1-6 dan 7-30.
- S.S., Varghese, Sundaram, S., Krishna, K. S., Vikkas, M., 2016. Energetic Stabilities, Structural and Electronik Properties of Monolayer Graphene Doped with Boron and Nitrogen Atoms. *Electronic MDSI*.
- Sugawara, K., Sato, T., Takahashi, T., 2008. Fermi-Surface-Dependent Superconducting Gap in C₆Ca. *Nature Physics*. Vol. 5m, hal. 40-43
- Taghioskoui, Mazdak. 2009. *Trends in Graphene Research*. Elsevier, Vol. 12, NO. 10.
- Uchoa, B. dan Castro Neto, A. H. 2007. Superconducting State of Pure and Doped Graphene, *Phys. Rev. IETT.*, 98, 146801.
- Vafek, O., 2012. Carbon's Superconducting Footprint, *Nature Phys.*, 8, 111-112.

- Valla, T., Camacho, J., Pan, Z. H., Fedorov, A. V., Walters, A. C., Howard, C. A., and Ellerby, M., 2009. Anisotropic Electron-Phonon Coupling and Dy-namical Nesting on the Graphene Sheets in Superconducting CaC_6 us-ing Angle-Resolved Photoe-mission Spectroscopy, *Phys. Rev. Lett.* 102, 107007
- Wallace, P. R., 1947. The Band Theory of Graphite. *Physical Review*, Vol. 71, hal. 622.
- Weller, Thomas E., Ellerby, Mark, Saxona, Siddharth S., Smith, Robert P., Skipper, Neal T., 2005. Superconductivity in The Intercalated Graphite Compounds C_6Yb and C_6Ca . *Nature Physics*. Vol. 1, hal. 39-41.
- Yagi, Y., Briere, T.M., Sluiter, M.H., Kumar, V., Farajian, A.A., Kawazoe, Y., 2004. Stablegeometries and magnetic properties of single-walled carbon nanotubes do-ped with 3d transition metals: a first-principles study, *Phys. Rev. B* 69. 075414.
- Zhu, Xiaojing, 2018. A Fisrt-Principle Study of Calcium Decorated on The Interlayer of Bilayer Graphene for High Capacity Hydrogen Storage. *Earth and Environmen-tal Science*. hal. 1-10.