

## DAFTAR PUSTAKA

1. Barkaline, V. V. and Choshynski, S.: Adsorption Properties of Carbon Nanotubes from Molecular Dynamics View Point. *Rev.Ad mater.Sci* 2009, 20, 21-27.
2. Sulistiya.: Pembuatan Komposit *Carbon Nanotubes* (CNT) Dikombinasi Dengan Karbon Aktif Sebagai Elektroda *Flow-Through Capacitor (FTC)* Untuk Aplikasi Desalinasi Air Payau. *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Diponegoro, Semarang, 2009.
3. Prasodjo, Prolessara.: Studi Kapasitas Adsorpsi Hidrogen pada Carbon Nanotube. *Thesis*, Fakultas Teknik, Universitas Indonesia, Depok, 2010.
4. Ganji M. D.; Dalirandeh, Z.; Khorasani, M.: Lithium absorption on single-walled boron nitride, aluminium nitride, silicon carbide and carbon nanotubes : A first-principles study, *J. of Physics ang Chemistry of Solids*, 2016, 90, 27-34.
5. Bian, R.; Zhao, J.; Fu, H.: Silicon doping in carbon nanotubes formation energies, electronic structures, and chemical reactivity. *Journal of Molecular Modeling*, 2013, 19, 1667.
6. Ashrafi, F.; Ghasemi, A. S.: *Optimati on of carbon nanotube for nitrogen gas adsorption. Journal of applied science* 2010, 2(6), 547- 551.
7. Molla, M.; Jafari, T.B.: Adsorption of N<sub>2</sub>, O<sub>2</sub>, CO and CO<sub>2</sub> on open ends and surface of single walled carbon nano-tubes : A computational nuclear magnetic resonance and nuclear quadrupole resonance study. *journal of molecular liquids* 2016, 222, 717-732.
8. Ernesto, Joselevich.: *Electronic Structure and Chemical Reactivity of Carbon Nanotube. Chem Phys Chem* 2004, 5, 610 – 624.
9. Yunus, A. D.: *Sifat Listrik*; Universitas Darma Persada; Jakarta, 2010, 72-73.
10. Iijima, S.: Helical Microtubes of Graphitic Carbon. *Nature* 1991, 354, 56-58.
11. Fan, X.; Wang, C.; Wang, P.; Hou, J.; Qian, J.: Effects of Carbon Nanotubes on Physicochemical Properties and Sulfamethoxazole Adsorption of Sediments With or Without Aging Processes. *Chemical Engineering Journal* 2016, 310, 317 – 327.
12. Andrews. R.; Jacques. D.; Rao. A.M.; Derbyshire. F.; Qian. D.; Fan. X.; Dickey. E.C.; and Chen. J.: Continuous Production of Aligned Carbon Nanotubes A step Closer to Commercial Realization. *Chemical Physics Letters* 1999, 303, 467 – 474.
13. Saito, R.; Dresselhaus, G.; Dresselhaus, M.S.: *Physical Properties of Carbon Nanotube*; Imperial College Press; London, 1999.

14. Brown. R.D. Jr.: *Germanium*; U.S Geological Survey Mineral Commodity Summaries, 2015, 64-65.
15. Adams, J.H.: *Germanium and Germanium Compound*; in Metals handbook (10th ed) : Metals Park, Ohio, ASM Internasional, 1990, 2, 733-738.
16. Sumarna,: *Fisika Semikonduktor*; Staff Universitas Negeri Yogyakarta; Yogyakarta, 2002, 1-4.
17. Legesse, M.; Giorgos, F.; Nolan, M.: Modifying the Band Gap and Optical Properties of Germanium Nanowires By Surface Termination. *Applied Surface Science* 2016, 396, 1155–1163.
18. Kim, S.; Walker, B.; Yi, P. S.; Choi, H.; Seo-Jin, K.; Jeong, J.; Yun, M. H; Lee, J. C.; Kim, D. S.; Kim, J. Y.: Germanium. *Nanoscale*, 2014, 6, 10156-10160.
19. Zhang. J.J.; and Ni. J.: *Germanium*; Nankai University; Tianjin China, 2015.
20. Albert,: Studi adsorpsi gas H<sub>2</sub> pada Single-walled Carbon nanotube (4.0) yang disubstitusi dengan Li menggunakan metode Ab initio. *Thesis*, Pasca Sarjana Universitas Andalas, Padang, 2006.
21. Barghi, S. H.; Tsotsis, T. T.; Sahimi, M.: Chemisorption, Physisorption and Hysteresis During Hydrogen Storage in Carbon Nanotubes. *Science Direct* 2014, 39, 1390 – 1397.
22. Ramadisa, S.: Studi Interaksi Ujung Terbuka *Single Walled Carbon Nanotube* (SWCNT) dengan Atom Silikon Menggunakan Metoda Semiempiris AM1. *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang, 2015
23. Amanda, P.: Studi Interaksi *Single Walled Carbon Nanotube* (SWCNT) Ujung Terbuka dengan Molekul NH<sub>3</sub>. *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Andalas, Padang, 2014.
24. Zhao, J.; Buldum, A.; Han, J.; Lu, P. J.: Gas molecule adsorption in carbon nanotubes and nanotube bundles. *Institute Of Physics Publishing, Nanotechnology* 2002, 13,195–200.
25. Harker. C.J.: Numerically Solving the Klein-Gordon Equation. *Thesis*. Marlboro College, USA 2002.
26. Ai, Song Nio.: Evolusi Fotosintesis Pada Tumbuhan. *Jurnal Ilmiah Sains*, 2012, 12, 28-34.
27. Pranowo. H.D.: *Kimia Komputasi*; Pusat Kimia Komputasi Indonesia-Austria; Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gajah Mada, Yogyakarta, 2003.

28. Sung, D.; Hong, S.; Yong-Hoon, K.; Park, N.; Kim, S.; Maeng, S. L.; Ki-Chul. K.: Ab Intio Study of the Effect of Water adsorption on the carbon nanotube field-effect transistor. *Journal Of The Korean Physical Society* 2006, 89, 243110-243112.

