

## DAFTAR PUSTAKA

- Alexiou, C., Schmid, R.J., Jurgons, R., Kremer, M., Wanner, G., Bergemann, C., Huenges, E., Nawroth, T., Arnold, W., & Parak, F.G. (2006). Targeting cancer cells : magnetic nanoparticles as drug carriers. *European Biophysical Journal*, 35, hlm. 446-450.
- Alfaruqi, M.H. (2008). *Pengaruh Konsentrasi Hidrogen Klorida (HCl) dan Temperatur Perlakuan Hidrotermal Terhadap Kristalinitas Material Mesopori Silika SBA-15*. (Skripsi). Fakultas Teknik, Universitas Indonesia, Depok.
- Ardianti, A. (2014). *Uji Farmakologi Ekstrak Akar Landep (Barleria prionitis Linn) Asal Indonesia Sebagai Antiparkinson*. (Skripsi). Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam, Universitas Pendidikan Indonesia , Bandung.
- Arulkumar, S. & Sabesan, M. (2012). The behavioral performance test of *Mucuna pruriens* gold nanoparticles in the 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine treated mouse model of Parkinsonism. *Asian Pasific Journal of Tropical Disease*, 2, hlm. 499-502.
- Balamurugan, M.G., Mohanraj, S., Kodhaiyolii, S., & Pugalenti, V. (2014). *Ocimum sanctum* leaf extract mediated green synthesis of iron oxide nanoparticles : spectroscopic and microscopic studies. *Journal of Chemical and Pharmaceutical Sciences*, (2), hlm. 201-204.
- Banasikowski, T.J. & Beninger, R.J. (2012). Haloperidol conditioned catalepsy in rats: a possible role for D<sub>1</sub>-like receptors. *International Journal of Neuropsychopharmacology*, 15, hlm.1525-1534.
- Berry, C.C. & Curtis, A.S.G. (2003). Functionalisation of magnetic nanoparticles for applications in biomedicine. *Journal of Physics D: Applied Physics*, 36, R198–R206.
- Chakraborty, D.S. (2016). Instrumentation of FTIR and its herbal applications. *World Journal of Pharmaceutical Research*, 5(3), hlm.498-505.
- Chamorro, S., Gutiérrez, L., Vaquero, M.P., Verdoy, D., Salas, G., Luengo, Y., Brenes, A., & Teran, F.J. (2015). Safety assessment of chronic oral exposure to iron oxide nanoparticles. *Nanotechnology*, 26 (20), hlm. 1-11.
- Chertok, B., Moffat, B.A., David, A.E., Yu, F., Bergemann, C., Ross, B.D., & Yanga, V.C. (2007). Iron oxide nanoparticles as a drug delivery vehicle for MRI monitored magnetic targeting of brain tumors. *Biomaterials*, 29, hlm. 487-496.

- Costall, B. & Olley, J.E. (1971). Cholinergic and neuroleptic induced catalepsy: modification by lesions in the globus pallidus and substantia nigra. *Neuropharmacology*, 10(5), hlm.581-594.
- Cullity, B.D. & Stock, S.R. (2001) *Elements of X-ray Diffraction*. New Jersey : Prentice Hall.
- Dick, F.D., Palma, G.D., Ahmadi, A., Scott, N.W., Prescott, G.J., Bennett, J., Semple, S., Dick, S., Counsell, C., Mozzoni, P., Haites, N., Bezzina, S., Wetingger, Mutti, A., Otelea, M., Seaton, A., Soderkvist, P., & Felice, A. (2007). Environmental risk factors for Parkinson's disease and Parkinsonism: the geoparkinson study on behalf of the geoparkinson study group. *Occupational and Environmental Medicine*, 64 (10), hlm. 666–672.
- Dobson, J. (2006). Magnetic micro- and nano-particle-based targeting for drug and gene delivery. *Nanomedicine*, 1, hlm. 31-37.
- Dorsey, E.R., Constantinescu, R., Thompson, J.P., Biglan, K.M., Holloway, R.G., Kieburtz, K., Marshall, F.J., Ravina, B.M., Schifitto, G., Siderowf, A., & Tanner, C.M. (2007). Projected number of people with Parkinson disease in the most populous nations , 2005 through 2030. *Neurology*, 68 (5), hlm. 384-386.
- Fajaroh, F., Setyawan, H., Winardi, S., Enggawati, R., & Wardhani, I.G.(2009). *Mekanisme Pembentukan Nanopartikel Magnetit Secara elektrokimia*, Prosiding Seminar Nasional Teknik Kimia Indonesia (hlm.978-979). Jakarta : ISBN.
- Fessenden, R.J. & Fessenden, J.S. (1986). *Organic Chemistry Third Edition*. California : Wadsworth, Inc.
- Fung, S.Y., Tan, N.H., Sim, S.M., Marinello, E., Guerranti, R., & Aguiyi J.C. (2011). *Mucuna pruriens* Linn. seed extract pretreatment protects against cardiorespiratory and neuromuscular depressant effects of *Naja sputatrix* (Javan spitting cobra) venom in rats. *Indian Journal of Experimental Biology*, 49 (4), hlm. 254-259.
- Gandjar, I. (1977). *Fermentasi Biji Mucuna pruriens DC dan Pengaruhnya Terhadap Kualitas Protein*. (Disertasi) Institut Teknologi Bandung, Bandung.
- Golbe, L.I., Mark, M.H., & Sage, J. (2009). *Parkinson's Disease Handbook*. New Jersey : The American Parkinson Disease Association, Inc.
- Harbone, J.B. (1996). *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan. Edisi 4*. Bandung: Institut Teknologi Bandung.

- Harsanti, D. (2010). Sintesis dan Karakterisasi Boron Karbida dari Asam Borat, Asam Sitrat dan Karbon Aktif. *Jurnal Sains dan Teknologi Modifikasi Cuaca*, 11(1), hlm. 29-40.
- Hatakeyama, T. & Zhenhai, L. (1998). *Handbook of Thermal Analysis*. New Jersey : Wiley.
- Houghton, D. & Hurtig, H. (2013). *Parkinson's Disease : Medications*. Miami : National Parkinson Foundation.
- Hutapea, E.L. (2003). *Penyakit Parkinson Sebagai Salah Satu Etiologi Terjadinya Sialorro*. (Skripsi). Fakultas Kedokteran Gigi, Universitas Sumatera Utara, Medan.
- International Federation of Pigment Cell Societies. (2009). *Picture of mice*. [Online]. Diakses dari <http://www.espcr.org/micemut/locustyr.html>.
- Joy, A.E., Shyamjith, M., & Bhat, K.S. (2012). Acute effect of ethanolic extract of Moringa oleifera on haloperidol induced catalepsy in mice models. *Drug Invention Today*, 4(10), hlm. 543-545.
- Katzenschlager, R., Evans A., Manson, A., Patsalos, P.N., Ratnaraj, N., Watt, H., Timmermann, L., Giessen, R.V., & Lees, A.J. (2004). *Mucuna pruriens* in Parkinson's disease: a double blind clinical and pharmacological study. *Journal Neurol Neurosurg Psychiatry*, 75, hlm. 1672-1677.
- Khare, C.P. (2004). *Encyclopedia of Indian medicinal plants*. Berlin : Springer-Verlag Berlin Heidelberg.
- Klancnik, G., Jozef, M., & Mrvar, P. (2010). Differential Thermal Analysis (DTA) and Differential Scanning Calorimetry (DSC) as a method of material investigation. *RMZ – Materials and Geoenvironment*, 57 (1), hlm. 127-142.
- Kroschwitz, J. (1990). *Polymer Characterization and Analysis*. Canada : John Wiley and Sons, Inc.
- Kumar, P. & Saha, S. (2013). An updated review on taxonomy , phytochemistry , pharmacology and toxicology of *Mucuna pruriens*. *Journal of Pharmacognosy and Phytochemistry*, 2 (1), hlm. 306-314
- Kusumawati, D. (2004). *Bersahabat dengan Hewan Coba*. Yogyakarta : Gajah Mada University Press.
- LeWitt, P.A. (2008) . Levodopa for the treatment of Parkinson's disease. *New England Journal Medicine*, 359 (23), hlm. 2468-2476.
- Lorenzetti, E., Macissac, S., Anasson, J.T., Avang, D.V.C., & Buckles, D. (1998). *The phytochemistry, toxicology and food potential of velvet bean (Mucuna*

*Adans spp., Fabaceae) Cover crops of West Africa: contributing to sustainable agriculture.* IDRC & IITA : Canada & Nigeria.

- Lotharius, J. & Brundin, P. (2002). Pathogenesis of Parkinson`s disease : dopamine, vesicles and  $\alpha$ -synuclein. *Nature Reviews : Neuroscience*, 3 (12), hlm.1-11
- Lynch, I., Cedervall, T., Lundqvist, M., Lago, C.C., Linse, S., & Dawson, K.A. (2007). The nanoparticle protein complex as a biological entity; a complex fluids and surface science challenge for the 21<sup>st</sup> century. *Advances in Colloid and Interface Science*, 134-135, hlm. 167-174.
- Mahdavi, M., Ahmad, M.B., Haron, M.J., Gharayebi, Y., Shameli, K., & Nadi, B. (2013). Fabrication and characterization of SiO<sub>2</sub> / (3-aminopropyl) triethoxysilane-coated magnetite nanoparticles for lead (II) removal from aqueous solution. *Journal of Inorganic and Organometallic and Polymers Materials*, (23) , hlm. 599–607.
- Manyam, B.V. (1990) Paralysis agitans and levodopa in “Ayurveda”: ancient Indian medical treatise. *Movement Disorder*, 5, hlm. 47–48.
- Misra, L., & Wagner, H. (2004). Alkaloidal constituents of *Mucuna pruriens* seeds. *Phytochemistry*, 65 (18), hlm.2565–2567.
- Misra, L., & Wagner, H. (2007). Extraction of bioactive principles from *Mucuna pruriens* seeds. *Indian Journal of Biochemistry and Biophysics*, 44 (1), hlm. 56-60.
- Modi, G., Pillay, V., Choonara, Y.E., Ndesendo, V.M., du Toit, L.C., & Naidoo, D. (2009). Nanotechnological applications for the treatment of neurodegenerative disorders. *Progress in Neurobiology*, 88, hlm.272-285
- Mody, V.V., Siwale, R., Singh, A., & Mody, H.R. (2010). Introduction to metallic nanoparticles. *Journal of Pharmacy and Bioallied Sciences*, 4, hlm.282-289.
- Mohanpuria, P., Rana, N.K., & Yadav, S.K. (2008). Biosynthesis of nanoparticles: technological concepts and future applications. *Journal of Nanoparticles Research*, 10, 507–517.
- Muliani, H. (2011). Pertumbuhan mencit (*Mus Musculus* L.) setelah pemberian biji jarak pagar (*Jatropha curcas* L.). *Buletin Anatomi dan Fisiologi*, 19(1), hlm.44-54.
- Nair, V., Arjuman, A., Gopalakrishna, H.N., & Nandini, M. (2008). Effect of *Withania somnifera* root extract on haloperidol-induced catalepsy in albino mice. *Phytotherapy research*, 22(2), 243-246.
- Owen, S. (2006). *Material Safety Data Sheet*. New Jersey : Spectrum Chemical.

- Pulikkalpura, H., Kurup, R., Mathew, P.J., & Baby, S. (2015). Levodopa in *Mucuna pruriens* and its degradation. *Nature Publishing Group*, 5, hlm.1-5.
- Rahmawati, D. (2009). *Pengaruh Vaksinasi Kultur Klebsiella pneumnoniae Hasil Inaktivasi Pemanasan dan Iradiasi Sinar Gamma Terhadap Kondisi Fisik dan Profil Protein Serum Darah Mencit*. (Skripsi). Fakultas Kedokteran dan Ilmu Kesehatan Universitas Islam Negeri Syarif Hidayatullah, Jakarta.
- Rätsch, C. (2004). *Enzyklopädie der psychoaktiven Pflanzen*. Aarau : Botanik, Ethnopharmakologie und Anwendungen.
- Sardjono, R.E., Musthapa, I., Solihin, H., & Ramdhani, R.P. (2012). Physicochemical composition of Indonesian velvet bean (*Mucuna pruriens* L.). *Global Journal of Research on Medical Plants & Indigenous Medicine*, 11 (18), hlm. 101-108.
- Sardjono, R.E., Musthapa, I., Solihin, H., Subarnas, A., Herachandra, E., & Ardianto, F.N. (2016). Evaluation of antiparkinson's activity of Indonesia velvet bean (*Mucuna pruriens* L.) extract. *ARNP Journal of Engineering and Applied Sciences*, 1 (4), hlm. 10856-10861.
- Sathiyarayanan, L & Arulmozhi, S. (2007). *Mucuna pruriens* Linn – a comprehensive review. *Pharmacokinetic Review*, 1(1), hlm. 157-162.
- Setiabudi, A., Hardian, R., & Mudzakir, A. (2012). Karakterisasi Material: Prinsip dan Aplikasinya dalam Penelitian Kimia. Bandung: Program Studi Kimia FPMIPA Universitas Pendidikan Indonesia.
- Siddhuraju, P., Vijayakumari, K., & Janardhanan, K. (1996). Chemical composition and protein quality of the little known legume, velvet bean (*Mucuna pruriens* (L.)DC.) . *Journal of Agriculture and Food Chemistry*, 44 (9), hlm. 2636–2641.
- Stuart, A.G. (2016). *Velvet bean*. [Online]. Diakses dari <http://www.herbalsafety.utep.edu/herbal-fact-sheets/velvet-bean/>.
- Subama, E. (2010). *Pengaruh Penambahan 20% Berat Fly Ash Terhadap Sifat Fisis Keramik Tradisional Berbasis Mineral Lempung Dengan Suhu Penyinteran 1100°C*. (Skripsi) Universitas Lampung, Bandar Lampung.
- Syahrin, A. (2006). *Kesan ekstrak etanol andrographis Paniculata (burm. F.) Nees ke atas Tikus betina diabetik aruhan streptozotosin*. Malaysia: Universiti Sains Malaysia.
- Teja, A.S. & Koh, Y-P. (2009). Synthesis, properties, and applications of magnetic iron oxide nanoparticles. *Progress in Crystal Growth and Characterization of Materials*, 55 (1), hlm.22-45.

- Thakkar, K.N., Mhatre, S.S., & Parikh, R.Y. (2010). Biological synthesis of metallic nanoparticles. *Nanomedicine*, 6(2), 257-262.
- Verma, S.C., Vashishth, E., Singh, R., P. Pant, P., & Padhi, M.M. (2014). A review on phytochemistry and pharmacological activity of parts of *Mucuna pruriens* used as an ayurvedic medicine. *World Journal of Pharmaceutical Research*, 3 (5), 138-158.
- Wadenberg, M.L., Soliman, A., VanderSpek, S.C., & Kapur, S. (2001). Dopamine D<sub>2</sub> receptor occupancy is a common mechanism underlying animal models of antipsychotics and their clinical effects. *Neuropsychopharmacology*, 25(6), hlm.33-41.