

## DAFTAR PUSTAKA

- Abbas, Z. dan Okon, Y., 1993, Plant Growth Promotion by *Azotobacter paspali* in The Rhizosphere, *Soil Biol. Biochem.*, 25, 1075-1083.
- Ahmadi, F., Ahmadi, J., dan Nasrabadi, R.M., 2011, Computational Approaches to Design a Molecular Imprinted Polymer for High Selective Extraction of 3,4 Methylendioxyamphetamine from Plasma, *J. Chromatogr. A.*, 1218, 7739-7747.
- Allender, C.J., Richardson, C., Woodhouse, B., Heard, C.M., dan Brain, K.R., 2000, Pharmaceutical Applications for Molecularly Imprinted Polymers, *Int. J. Pharm.*, 195, 39-43.
- Ali, M., Boda, A., Deb, A.K.S., dan Shenoy, K.T.S., 2017, Computational Chemistry Assisted Design and Screen of Ligan-Solvent System for Metal Ion Separation, *Front Sci. Ser.*, 3, 75-186.
- Allen, M.P., 2004, *Computational Soft Matter: From Synthetic Polymers to Proteins*, John von Neumann Institute for Computing, Jülich.
- Asuti, A.D., 2014, Simulasi Dinamika Molekuler Protein dengan Aplikasi Gromacs, *Skripsi*, Jurusan Teknologi Industri Universitas Gunadarma, Depok.
- Azenha, M., Kathirvel, P., Nogueira, P., dan Fernando-Silva, A., 2008, The Requisite Level of Theory for The Computational Design of Molecularly Imprinted Silica Xerogels, *Biosens. & Bioelectron.*, 23, 1843.
- Bakas, I., Oujji, N. B., Moczko, E., Istamboulie, G., Piletsky, S., Piletska, E., Ait Addi, E., Ait-Ichou, I., Noguier, T., dan Rouillon, R., 2013, Computational and Experimental Investigation of Molecular Imprinted Polymers for Selective Extraction of Dimethoate and Its Metabolite Omethoate from Olive Oil, *J. Chromatogr. A.*, 1274, 13-18.
- Brüggemann, O., 2002, *Molecularly Imprinted Material-Receptors More Durable than Nature Can Provide*, Springer-Verlag Heidelberg, Berlin.
- Del Sole, R., Scardino, A., Lazzoi, M.R., dan Vasapollo, G., 2011, Molecularly Imprinted Polymer for Solid Phase Extraction of Nicotinamide in Pork Liver Samples. *J. Appl. Polym. Sci.*, 120, 1634-1641.
- Dethlefs, K.M. dan Hobza, P., 2000, Ncovalent Interactions: A Challenge for Experimental and Theory, *Chem. Rev.*, 100, 143-167.
- Dipojono H.K., 2001, Simulasi Dinamika Molekul, *Prosiding Seminar Nasional Hamburan Neutron dan Sinar X ke 4*, 6 Juni 2001, Serpong.

- Dong, W., Yan, M., Zhang, M., Liu, Z., dan Li Y., 2005, A Computational and Experimental Investigation of The Interaction between The Template Molecule and The Functional Monomer Used in The Molecularly Imprinted Polymer, *Anal. Chim. Acta.*, 542, 186-192.
- Egamberdiyeva, D., 2007, The effect of PGPR on Growth and Nutrient Uptake of Maize in Two Different Soils, *Appl. Soil. Ecol.*, 36(1), 184-189.
- Kabanda, M.M. dan Ebenso E.E., 2012. Density Functional Theory and Quantitative Structure-Activity Relationship Studies of some Quinoxaline derivatives as potential Corrosion Inhibitors for Copper in Acidic Medium. *Int. J. Electrochem. Sci.*, 7:8713 – 8733.
- Karlsson, B.C.G., O'Mahony, J., Karlsson, J.G., Bengtsson, H., Eriksson, L.A., dan Nicholls, I.A., 2009, Structure and Dynamics of Monomer-Template Complexation: An Explanation for Molecularly Imprinted Polymer Recognition Site Heterogeneity, *J. Am. Chem. Soc.*, 131 (37), 13297-13304.
- Kitchen, D., Decornez, H., Furr, J., dan Bajorath, J., 2004, Docking and Scoring in Virtual Screening for Drug Discovery: Methods and Application, *Nat. Rev.*, 4, 935-949.
- Kruse, H., Goerigk, L., dan Grimme, S., 2012, Why the Standar B3LYP/6-31\* Model Chemistry Should Not Be Used in DFT Calculations of Molecular Thermochemistry: Understanding and Correcting the Problems, *J. Org. Chem.*, 77 (23), 10824–10834.
- Li, S., Zhu, M., Whitcombe, M.J., Piletsky, S.A., dan Turner, A.P.F., 2016, *Molecularly Imprinted Catalysis*, Elsevier Inc, Sweden.
- Mehamod F.S, Bulat K.H.K., Yusof N.F., dan Othman N.A., 2015, The Development of Molecular Imprinting Technology for Caffeine Extraction, *Int. J. Tech*, 6(4), 546-554.
- Ncube, N.S., Afolayan, A.J., Okoh, A.I., Ncube, N.S., Afolayan, A.J., Afolayan, A.J., dan Okoh, A.I., 2008, Assessment Techniques of Antimicrobial Properties of Natural Compounds of Plant Origin : Current Methods and Future Trends, *Afr. J. Biotechnol*, 7 (12), 1797–1806.
- Nicholls, I.A., Chavan, S., Golker, K., Karlsson, B.C.G., Olsson., G.D., Rosengren A.M., Suriyanarayanan S., dan Wiklander J.G., 2015, Theoretical and computational strategies of the Molecular Imprinting Process and Polymer Performance, *Adv. Biochem. Eng. Biotechnol*, 150, 25-50.
- Nielsen, M. B., 2014, *Organic Syntesis and Moleculaar Engineering*, John Wiley & Sons Inc., New Jersey.

- Norell, M.C., Andersson, H.S., dan Nicholls, I.A., 1998, Theophylline Molecularly Imprinted Polymer Dissociation Kinetics: A Novel Sustained Release Drug Dosage Mechanism, *J. Mol. Recogn.*, 11, 98–102.
- Piletsky, S.A., dan Whitcombe M.J., 2013, *Designing Receptor for the Next Generation of Biosensor*, Springer, London.
- Puoci, F., Iemma, F., Spizzirri, U.G., Cirillo, G., Curcio, M. dan Picci, N., 2008, A Review: Polymer in Agriculture, *Am. J. Agri. & Biol. Sci.*, 3 (1): 299-314.
- Pranowo H. D., 2009, Teknologi Informasi dalam mendukung Riset di Bidang Kimia, *Prosiding Seminar Nasional Kimia dan Pendidikan Kimia*, 18 Maret 2009, Surakarta.
- Pranowo, H.D., 2004, *Kimia Komputasi*, Pusat Kimia Komputasi Indonesia-Austria Universitas Gajah Mada, Yogyakarta.
- Riahi, S., Eynollahi, S., Ganjali, M.R., dan Norouzi, P., 2010, Computational Approach to Investigation of Template/Monomer Complex in Imprinted Polymers; Dinitrobenzene Sensor, *Int. J. Electrochem. Sci.*, 5, 509–516.
- Rudzinski, W.E., Chipuk, T., Dave, A.M., Kumbar, S.G., dan Aminabhavi, T.M., 2003, pH-Sensitive Acrylic-based Copolymeric Hydrogels for The Controlled Release of A Pesticide and A Micronutrient, *J. Appl. Polym. Sci.*, 87 (3), 394–403.
- Sulistiyani E.T., 2012, Teori Fungsional Densitas dan Penerapannya pada Struktur Atom, *Prosiding Pertemuan Ilmiah XXVI HFI Jateng & DIY*, 14 April 2012, Purworejo.
- Tahir, I., Ahmad, M.N., Islam, A.K.M.S., dan Arbain, D., 2012, Molecular Modeling and Experimental Study on The Interaction Between Quercetin and Methacrylic Acid, *The 2nd International Malaysia-Ireland Joint Symposium on Engineering, Science, and Business (IMiEJS)*, 18-20 Juni 2012, Kangar.
- Vasapollo, G., Sole, R.D., Mergola, L., Lazzoi, M.R., Scardino, A., Scorrano, S., dan Mele, G., 2011, Molecularly Imprinted Polymers: Present and Future Prospective, *Int. J. Mol. Sci.*, 12 (9), 5908–5945.
- Wei, S., Jakusch, M., dan Mizaikoff, B., 2007, Investigating The Mechanisms of 17 $\beta$ -estradiol Imprinting by Computational Prediction and Spectroscopic Analysis, *Anal. & Bioanal. Chem.*, 389 (2), 423–431.
- Wu, L., Zhu M., dan Li Y., 2005, Theoretical and Experimental Study of Nicotinamide Molecularly Imprinted Polymers with Different Porogens, *Anal. Chim. Acta*, 549, 39-44.

Wulff, G. dan Biffis, A., 2001, *Molecular Imprinting with Covalent or Stoichiometric Non-Covalent Interactions*. Dalam Sellergren, B., *Molecularly Imprinted Polymers: Man-Made Mimics of Antibodies and their Applications in Analytical Chemistry*, 23, 1<sup>st</sup> Ed., Elsevier, Amsterdam.