

## DAFTAR PUSTAKA

- Adib, M., Tahermansouri, H., Koloogani, S., A., Mohammadi, B., and Bijanzadeh, H., R., 2006, Krohnke Pyridine: an Efficient Solvent-Free Synthesis of 2,4,6-triarylpyridines, *Tetrahedron Lett.*, 47, 5957-5960.
- Akbas, E., Levent, A., Guimus, S., Sumer, M.R., and Akyazi, I., 2012, Synthesis of Some Novel Pyrimidine Derivatives and Investigation of Their Electrochemical Behavior, *Bull. Korean Chem. Soc.*, 31, 12, 3632-3638.
- Angraeni, S., 2010, Sintesis Senyawa 3-(4-hidroksi-3-metoksifenil)-1-fenil-2-propenon dari Vanilin dan Uji Potensinya sebagai *Larvasida* untuk *Aedes aegypti* dan Sensor Anion, *Skripsi*, Jurusan Kimia, UGM Yogyakarta.
- Anslyn, E., V., and Dougherty, D., A., 2004, *Modern Physical Organic Chemistry*, University Science Books, USA.
- Bell, T.W. and Hext, N.M., 2004, Supramolecular optical chemosensors for organic analytes, *Chem. Soc. Rev.* 33, 589--598.
- Budimarwanti, C. dan Handayani S., 2010, Efektifitas Katalis Asam Basa pada sintesis 2-hidroksi kalkon Senyawa yang Berpotensi sebagai Zat Warna, *Prosiding Seminar Nasional Kimia dan Pendidikan Kimia 2010*, Yogyakarta, 30 Oktober 2010.
- Goutam, P.J., and Iyer, P.K., 2015, Selective detection of resorcinol using a bis(benzothiazol-2-yl)pyridine based diprotic reseptor, *Sens. Actuators, B*, 211, 263-267.
- Guan, R., Chen, H., Cao, F., Cao, D., and Deng, Y., 2013, Two Fluorescenc Turn-On Chemosensors For Cyanide Anions Based On Pyridine Cation And The Boronic Acid Moiety, *Inorg. Chem. Commun.*, 38, 112-114.
- Guo, Y., Tang, X., Hou, F., Wu, J., Dou, W., Qin, W., Ru, J., Zhang, G., Liu, W., and Yao, X., 2013, A Reversible Fluorescent Chemosensor for Cyanide In 100% Aqueous Solution, *Sens. Actuators*, 181, 202-208.
- Hanan, Falih and Mohsin, 2013, Synthesis Of Some New Pyrimidines from Chalcone Containing an Imin Group, *Int. J. Pharm. Chem. Res.*, 2(1), 2278 – 8700, 23-35.
- Jayabharathi, J., Thanikachalam, V., and Jayamoorthy, K., 2012, Effective fluorescent chemosensors for the detection of Zn<sup>2+</sup> metal ion, *Spectrochim. Acta, Part A*, 95, 143–147.
- Joshi, V.D., Kshirsagar, M.D. and Singhal, S., 2012, Synthesis and Pharmacological Study of Some Novel Pyrimidines, *Pharm. Sin.*, 3, 3, 343-348.
- Jyothi, M.V., Prasad, Y.R., Venkatesh, P., and Sureshreddy, M., 2012, Synthesis and Antimicrobial Activity of Some Novel Chalcones of 3-Acetyl Pyridine and their Pyrimidine Derivatives, *Chem. Sci. Trans.*, 1(3), 716-722.
- Kannan, V., and Sreekumar, K., 2013, Montmorillonite K10 Clay Catalyzed One Pot Synthesis of 2,4,6-Tri Substituted Pyridine under Solvent Free Condition, *Mod. Res. Cat.*, 2, 42-46.
- Kumar, K.S., Kanth, A.V., Reddy, K.T., and Omprakash, G., 2011, Synthesis and Characterization of some novel Pyrimidines via Aldol Condensation, *J. Chem. Pharm. Res.*, 3(5), 234-252.

- Kyrychenko, A., Yu, I., Sevriukov, Syzova, Z.A., Ladokhin, A.S. and Doroshenko, A.O., 2011, Partitioning of 2,6-Bis(1H-benzimidazol-2-yl)Pyridine Fluorophore Into A Phospholipid Bilayer: Complementary Use of Fluorescence Quenching Studies and Molecular Dynamics Simulations, *Biophys. Chem.*, 154, 8-17.
- Liaw, D., Wang, K., Pujari, S.P., Huang, Y., Tao, B., Chen, M., Lee, K., and Lai, J., 2009, A Novel, Conjugated Polymer Containing Fluorene, Pyridine and Unsymmetric Carbazole Moieties: Synthesis, Protonation and Electrochemical Properties, *Dyes Pigm.*, 82, 109-117.
- Lin, C-I., Selvi, S., Fang, J-M., Chou, P-T., Lai, C-H., and Chen, Y-M., 2007, Pyreno[2,1-b]pyrrole and Bis(pyreno[2,1-b]pyrrole) as Selective Chemosensors of Fluoride Ion: A Mechanistic Study, *J. Org. Chem.*, 72, 9, 3537-3542.
- Mahernia, S., Adib, M., Mahdavi, M., and Nosrati, M., 2014, A Solvent-Free Reaction Between Acetophenone Oximes And Epoxy Styrenes: An Efficient Synthesis Of 2,4,6-Triarylpyridines Under Neutral Conditions, *Tetrahedron Lett.*, 55, 3844-3846.
- Mardiyono, 2002, Sintesis Senyawa 3-Metoksi-4-Hidroksi Kalkon dari Vanilin dan Asetofenon, *Skripsi*, Jurusan Kimia FMIPA UNDIP, Semarang.
- Marini, V.G., Torri, E., Zimmermann, L.M. and Machado, V.G., 2010, An Anionic Chromogenic Chemosensor Based On 4-(4-Nitrobenzylideneamine)-2,6-Diphenylphenol for Selective Detection of Cyanide In Acetonitrile-Water Mixtures, *ARKAT USA, Inc.*, xi, 146-162.
- Masoud, M.S, Ali, A.E., Shaker, M.A., and Ghani, M.A., 2004, Solvatochromic Behavior of The Electronic Absorption Spectra of Some Azo Derivatives of Amino Pyridines, *Spectrochim. Acta, Part A*, 60, 3155-3159.
- McMurry, J., 2008, *Organic Chemistry*, 7<sup>th</sup> edition, Thomson, Books/Cole.
- Millan, D., Dominuez, M., and Rezende, M. C., 2008, Solvatochromic Hydrazone Anions Derived from Chalcones, *Dyes Pigm.*, 77, 441-445.
- Mohr, G.J., 2005, Covalent bond formation as an analytical tool to optically detect neutral and anionic analytes, *Sens. Actuators, B*, 107, 2-13.
- Montazeri, N., and Mahjoob, S., 2012, Highly Efficient and Easy Synthesis of 2,4,6-triarylpyridines Catalyzed by Pentafluorophenylammonium Triflate (PFPAT) as a New Recyclable Solid Acid Catalyst in Solvent-Free Conditions, *Chin. Chem. Lett.*, 23, 419-422.
- Nagapura, L., Aneesa, Peddiraju, R., and Apuri, S., 2007, HClO<sub>4</sub>-SiO<sub>2</sub> as A Novel and Recyclable Catalyst for The Synthesis of 2,4,6-triarylpyridines Under Solvent-Free Conditions, *Catal. Commun.*, 8, 1973-1976.
- Nie, H., Gong, C., Tang, Q., Ma, X., and Chow, C., 2014, Visual And Reversible Detection of Cyanide Ions in Protic Solvents by A Novel Colorimetric Resceptor, *Dyes, Pigm.*, 106, 74-80.
- Padarthy, P., K., Sridhar, S., Jagatheesh, K., and Namasivayam, E., 2013, Synthesis and Biological Activity of Imidazole Derived Chalcone and It's Pyrimidines, *Int. J. Res. Ayurveda Pharm.*, 4(3), 355-362.
- Patil, C., B., Mahajan, K., A., dan Suvarna, A., K., 2009, Chalcone: A Versatile Molecule, *J. Pharm. Sci. & Res.*, 1, 3, 11-22.

- Peng, M., Guo, Y., Yang, X., Wang, L., and An, J., 2013, A Highly Selective Ratiometric and Colorimetric Chemosensor for Cyanide Detection, *Dyes Pigm.*, 98, 327-332.
- Priastomo, Y., 2014, Sintesis Dan Uji *In-Vitro* Antibakteri Senyawa N-Fenil Pirazolina Dari Benzaldehida Dan Vanilin Dengan Asetofenon, *Skripsi*, Departemen Kimia UGM Yogyakarta.
- Rahaman, S.A., Pasad B, Y.R., Kumar B, P., and Kumar B, B., 2009, Synthesis and anti-Histaminic Activity of Some Novel Pyrimidines, *Saudi Pharm. J.*, 17, 255–258.
- Reichart, C., 2004, *Solvent and Solvent Effects in Organic Chemistry*, Third, Update and Enlarged Edition, Wiley VCH, German.
- Rochart, S., 2010, *Metal-Based Chemosensors for Important Bioanalytes*, Ecole Polytechnique Federale De Lausanne, Switzerland.
- Shi, B., Zhang, Y., Wei, T., Lin, Q., Yao, H., Zhang, P., and You, X., 2014, A Fluorescent and Colorimetric Chemosensor for Dihydrogen Phosphate Ions Based On 2-Pyridine-1H-imidazo[4,5-B]phenazine–Zinc Ensemble, *Sens. Actuators, B*, 190, 555-561.
- Silvia, A.F., 2014, Studi Teoritis Senyawa 3-(4-hidroksi-3-metoksifenil)-1-fenil-2-propen-1-on sebagai Sensor Anion, *Tesis*, Departemen Kimia UGM, Yogyakarta.
- Su, H., Lin, H., Cai, Z., and Lin, H., 2010, Anion receptor based on thiourea: via hydrogen bonding interaction and efficient deprotonation, *J. Incl. Phenom. Macrocycl. Chem.*, 67, 183–189.
- Suryawanshi, V. D., Gore, A. H., Dongare, P.R., Anbhule, P.V., Patil, S. R., and Kolekar, G.B., 2013, A novel pyrimidine derivative as a fluorescent chemosensor for highly selective detection of Aluminum(III) in aqueous media, *Spectrochim. Acta, Part A*, 114, 681-686.
- Tavallali, H., Deilamy-Rad, G., Parhami, A., and Mousavi, P.Z., 2013, A Novel Development of Dithizone as A Dual-Analyte Colorimetric Chemosensor: Detection and Determination of Cyanide and Cobalt(II) Ions In Dimethyl Sulfoxide/Water Media With Biological Applications, *J. Photochem. Photobiol., B*, 125, 121-130.
- Wang, H., Chen, L., Zhu, X., Wang, C., Wan, Y. and Wu, H., 2014, Spectral Studies of Multi-Branched Fluorescence Dyes Based on Triphenylpyridine Core, *Spectrochim. Acta, Part A*, 121, 355–362.
- Wang, K., Liou, T., Liaw, D., and Chen, W., 2008, A Novel Fluorescent Poly(Pyridine-Imide) Acid Chemosensor, *Dyes Pigm.*, 78, 93-100.
- Weng, J., Mei, Q., Ling, Q., Fan, Q., and Huang, W., 2012, A new colorimetric and fluorescent ratiometric sensor for Hg<sup>2+</sup> based on 4-pyren-1-yl-pyrimidine, *Tetrahedron*, 68, 3129-3134.
- World Health Organization (WHO), 1996, *Guideline for Drinking Water Quality*, Geneva.
- Xue, W., Li, L., Li, Q., and Wu, A., 2012, Novel furo[2,3-d] pyrimidine derivative as fluorescent chemosensor for HSO<sub>4</sub><sup>-</sup>, *Talanta*, 88, 734-738.
- You, G.R., Park, G.J., Lee, S.A., Choi, Y.W., Kim, Y.S., Lee, J.J., and Kim, C., 2014, A Single Chemosensor for Multiple Target Anions: The

Simultaneous Detection of  $\text{CN}^-$  And  $\text{OAc}^-$  In Aqueous Media, *Sens. Actuators*, 202, 645-655.

Zhang, C. and Suslick, K. S., 2005, A Colorimetric Sensor Array for Organics in Water, *J. Am. Chem. Soc.*, 127, 11548-11549.

Zhang, P., Shi, B., You, X., Zhang, Y., Lin, Q., Yao, H., and Wei, Y., 2014, A Highly Selective and Sensitive Chemosensor for Instant Detection Cyanide Via Different Channels In Aqueous Solution, *Tetrahedron*, 70, 1889-1894.