



DAFTAR PUSTAKA

- Adhikamsetty, R. K., Gollapalli, N. R., and Jonnalagadda, S. B., 2008, Complexation Kinetics of Fe(II) with 1,10-phenanthroline Forming Ferriin in Acidic Solutions, *Int. J. Chem. Kinet.*, 516-523.
- Amonette, J. E., and Templeton, J. C., 1998, Improvements to the Quantitative Assay of Nonrefractory Minerals for Fe(II) and Total Fe(II) Using 1,10-phenanthroline, *Clays and Clay Minerals*, 46(1), 51-62.
- Araujo, P., 2009, Key aspects of analytical method validation and linearity evaluation, *J. Chromatogr. B.*, 877, 2224–2234.
- Askim, J. R., Mahmoudiab, M., and Suslick, K. S., 2013, Optical Sensor Arrays for Chemical Sensing: The Optoelectronic Nose, *Chem. Soc. Rev.*, 42(2), 8649-8682.
- Campo, V. L., Kawano, D. F., Silva Junior, D. B., and Carvalho, I., 2009, Carrageenans: Biological Properties, Chemical Modifications and Structural Analysis, *Carbohydr. Polym.*, 77, 167-180.
- Chochorek, A., Bobrowski, A., Kiralyova, Z., and Mocak, J., 2010, ICP-OES Determination of Select Metals in Surface Water—A Metrological Study, *J. Environ. Stud.*, 19(1), 59–64.
- Distantina, S., Rochmadi., Fahrurrozi, M., dan wiratni., 2013, Synthesis of Hydrogel Film Based on Carrageenan Extracted from *Kappaphycus alvarezii*, *Mod. Appl. Sci.*, 7(8), 22–30.
- Dragan, E. S., Loghin D. F. A., and Cocarta, A.I., 2014, Efficient Sorption of Cu²⁺ by Composite Chelating Sorbents Based on Potato Starch-graft-Polyamidoxime Embedded in Chitosan *Beads*, *ACS Appl. Mater. Interfaces.*, 6, 16577-16592.
- Gericke, M., Trygg, J., and Fardim, P., 2013, Functional Cellulose *Beads*: Preparation, Characterization and Applications, *J. Chem. Rev.*, 113, 4812-4836.
- Gonzales A. G., and Herrador, M. A., 2007, A Practical Guide to Analytical Method Validation, Including Measurement Uncertainty and Accuracy Profile, *Trends in Anal. Chem.*, 26(3), 227-238.
- Gonzales A. G., Herrador, M. A., and Asuero, A. G., 2010, Intra-laboratory Assessment of Method Accuracy (Trueness and Precision) by Using Validation Standards, *Talanta*, 82, 1995-1998.
- Hadar, H. A., Bulatov, V., Dolgin, B., and Schechter, I., 2013, Detection of Heavy Metals in Water Using Dye Nano-Complexants and A Polymeric Film, *J. Hazard. Mater.*, 260, 652–659.
- Harris, D. C., 2010, *Quantitative Chemical Analysis*, 8th Ed., W.H. Freeman and Company, New York, 96-116.



- Hua, Z., Yang, B., V., Chen, W., Bai, X., Xu, Q., and Gu, H., 2014, Surface Science Surface Functionalized Magnetic PVA Microspheres for Rapid Naked-Eye Recognizing of Copper II Ions in Aqueous Solutions, *Appl. Surf. Sci.*, 317, 226–235.
- Huang, X., Hao, Y., Wu, H., Guo, Q., Guo., L., Wang, J., Zhong, L., Lin, T., Fu, F., and Chen, G., 2014, Chemical Magnetic *Beads* Based Colorimetric Detection of Mercuric Ion, *Sensors Actuators B. Chem.*, 191, 600–604.
- Iborra, J. L., Manjon, A., and Canovas, M., 1997, *Immobilization in Carrageenans*. Dalam Bickerstaff, F.B., *Imobilization of Enzymes and Cells*, 1st Ed., Human Press Inc., New Jersey, 53-60.
- Jones, K., 2009, *Fusion 5: A New Platform for Lateral Flow Immunoassay Tests*, Wong, R., and Tse, H., *Lateral Fow Immunoassay*, Spinger, New York, 115-129.
- Keppeler, S., Ellis, A., and Jacquier, J. C., 2009, Cross-linked carrageenan *beads* for controlled release delivery systems, *Carbohydr. Polym.*, 78(4), 973–977.
- Kologo, S., Eyraud, M., Bonou, L., Vacandio, F., and Massiani, Y., 2007, Voltametry and EQCM Study of Copper Oxidation in Acidic Solution in Presence of Chloride Ions, *Electrochim. Acta*, 52(9), 3105-3113.
- Krasaekoopt, W., Bhandari, B., and Deeth, H., 2003, Evaluation of Encapsulation Techniques of Probiotic for Yogurt, *J. Int. Dairy*, 13(I), 3-13.
- Kumar, S. A., Thakur, N., Parab, H. J., Pandey, S. P., Shinde, R. N., Pandey, A. K., Kumar, S. D., and Reddy, A. V. R., 2014, A visual Strip Sensor for Determination of Iron. *Anal. Chim. Acta*, 851, 87–94.
- Lagerström, M. E., Field, M. P., Seguret, M., Fischer, L., Hann, S., and Sherrell, R. M., 2013, Automated on-Line Flow-Injection ICP-MS Determination of Ttrace Metals (Mn , Fe, Co , Ni , Cu and Zn) in Open Ocean Seawater: Application to The GEOTRACES Program, *Mar. Chem.*, 155, 71–80.
- Levinson L. M, 1988, *Electronic Ceramics: Properties: Devices, and Applications*, 1st Ed., CRC Press, New York, 154-162.
- Li, C., Hein, S., and Wang, K., 2013, Chitosan–Carrageenan Polyelectrolyte Complex for the Delivery of Protein Drugs, *Biomaterials*, 1-6.
- Mashhadizadeh, M. H., Shoaie, I. S., and Monadi, N., 2004, A novel Ion Selective Membrane Potentiometric Sensor for Direct Determination of Fe(III) in The Presence of Fe(II), *J. Talanta*, 64, 1048–1052.
- Mudasir, Mugiyanti dan Hadipranoto, N., 2002, Spectrometric Determination of Pyrocathocol and Pyrogallol Based on Their Redox Reaction with Iron(III)/1,10-phenantroline System, *Indo. J. Chem.*, 2(3), 161–166.
- Müller, K. M., Arndt, K. M., and Plückthun, A., 1998, Model and Simulation of Multivalent Binding to Fixed Ligands, *Anal. Biochem.*, 261, 149-158.



- Necas, J., and Bartosikova, L., 2013, Carrageenan: A Review, *Vet. Med.*, 4, 187–205.
- Ondigo, D. A., Tshentu, Z. R., and Torto, N., 2013, Electrospun Nanofiber Based Colorimetric Probe for Rapid Detection of Fe(II) in Water, *Anal. Chim. Acta*, 804, 228–234.
- Pavia, D. L., Lampman, G.M., Kriz, G. S., and Vyvyan, J.R., 2009, *Introduction to Spectroscopy*, 4th Ed., Brooks/Cole Cengage Learning, Washington, 15–104.
- Park, S. Y., Lee, B. L., Jung, S.T., and Park, H. J., 2001, Biopolymer Composite Films Based on Carrageenan and Chitosan, *Mater. Res. Bull.*, 36, 511–519.
- Perrin, D. D., and Belcher R. R., 1975, The Selection of Masking Agent for Use in Analytical Chemistry, *Crit. Rev. Anal. Chem.*, 5(1), 85–118.
- Peters, F. T., Drummer, O. H., and Musshoff, F., 2007, Validation of New Methods, *Forensic Sci. Inter.*, 165, 216–224.
- Popa, E. G., Gomes, M. E., and Reis, R. L., 2011, Cell Delivery Systems Using Alginate–Carrageenan Hydrogel Beads and Fibers for Regenerative Medicine Applications, *Biomacromol.*, 12, 3952–3961.
- Rajendraprasad, N., and Basavaiah, K., 2010, Highly Sensitive Spectrophotometric Determination of Olanzapine Using Cerium(IV) and Iron(II) Complexes of 1,10-phenanthroline and 2,2'-Bipyridyl, *J. Anal. Chem.*, 65(5), 482–488.
- Ridout, M. J., Garza. S., Brownsey, G. J., and Morris, V. J., 1996, Mixed Iota–Kappa Carrageenan Gels, *Int. J. Biol. Macromol.*, 18(1-2), 5–8.
- Saithongdee, A., Praphairaksit, N., and Imyim, A., 2014, Chemical Electrospun Curcumin-Loaded Zein Membrane for Iron(III) Ions Sensing, *Sensors Actuators B. Chem.*, 202, 935–940.
- Samadi-Maybodi, A., and Rezaei, V., 2014, A New Sol-Gel Optical Sensor with Nonporous Structure for Determination of Trace Zinc, *Sensors Actuators B. Chem.*, 199, 418–423.
- Saranchina, N., Gavrilenko, N., Sukhanov, A., and Muravyon, S., 2015, Colorimetric Polymer Sensor for Determination of Chromium (VI): Comparison of Estimation Methods of The Visible color Changes, *XXI IMEKO World Congress on Measurement in Research and Industry*, 30 August–4 September, Prague.
- Sari, N., dan Sugiarto, D., 2015, Studi Gangguan Mg(II) dalam Analisis Besi(II) dengan Pengompleks o-1,10-fenantrolin Menggunakan Spektrofotometri UV-Vis, *J. Sains dan Seni ITS*, 4(1), 2337–3520.
- Sharif, T., Niaz, A., Najeeb, M., Zaman, M. I., Ihsan, M., and Sirajuddin, 2015, Isonicotinic Acid Hydrazide-Based Silver Nanoparticles as Simple Colorimetric Sensor for the Detection of Cr³⁺, *Sensors Actuators .B Chem.*,



216, 402–408.

- Shumilina, E. V., and Shcipunov, Y. A., 2002, Chitosan-Carrageenan Gels, *Colloid J.*, 64, 372-378.
- Soedjak, H. S., 1994, Colorimetric Determination of Carrageenan and Other Anionic Hydrocolloids with Methylene Blue, *Anal. Chem.*, 66, 4514-4518.
- Spínola, V., Llorent-martínez, E. J., and Castilho, P. C., 2014, Determination of Vitamin C in Foods: Current State of Method Validation, *J. Chromatogr. A.*, 1369, 2–17.
- Tautkus, S., Steponeniene, L., and Kazlauskas, R., 2004, Determination of Iron in Natural and Mineral Waters by Flame Atomic Absorption Spectrometry, *J. Serb. Chem. Soc.*, 69(5), 393–402.
- Thrimawithana, T. R., Young, S., Dunstan, D. E., and Alany, R. G., 2010, Texture and rheological characterization of kappa and iota carrageenan in the presence of counter ions, *Carbohydr. Polym.*, 82, 69–77.
- Uy, F. S., Easteal, A. J., and Fard, M. M., 2005, Seaweed Processing Using Industrial Single-Mode-Cavity Microwave Heating: A Preliminary Investigation, *Carbohydr. Res.*, 340, 1357-1364.
- Villanueva, R. D., Mendoza, W. G., Rodriguez, M. R. C., Romero, J. B., and Montano, M. N. E., 2004, Structure and Functional Performance of Gigartinacean Kappa–Iota Hybrid Carrageenan and Solieriacean Kappa–Iota Carrageenan Blends. *Food Hydrocoll.*, 18(2), 283–292.
- Woźnica, E., Wójcik, M. M., Wojciechowski, M., Mieczkowski, J., Bulska, E., Maksymiuk, K., and Michalska, A., 2012, Dithizone Modified Gold Nanoparticles Films for Potentiometric Sensing, *Anal. Chem.*, 84(10), 4437-4442.
- Yang, B., Lu, Y., Ren, T and Luo, G., 2013, One-Step Synthesis of pH-Sensitive Poly(Acrylamide-co-Sodium Acrylate) Beads with Core–Shell Structure, *React. Funct. Polym.*, 73(1), 122–131.
- Yuguchi, Y., Urakawa, H., and Kajiwara, K., 2003, Structural Characteristics of Carrageenan Gels: Various Types of Counter Ions, *Food Hydrocolloids*, 17, 481–485.