

DAFTAR PUSTAKA

- Baozhi, L., Gengliang, Y. dan Kefang, D., (2005), "Microwave-Assisted Synthesis of *p*-Alkylcalix[n]arene Catalyzed by KOH", *E-J. Chem.*, **2**, 6, 70-74.
- Barret, A. G. M., Braddock, D. C., Henschke, J. P. dan Walker, E. R., (1999), "Ytterbium(III) Triflate-Catalysed Preparation of Calix[4]resorcinarenes: Lewis Assisted Brønsted Acidity", *J. Chem. Soc. Perkin Trans.*, **1**, 873-878.
- Beyeh, N. K., Aumanen, J., Åhman, A., Luostarinen, M., Mansikkamäki, H., Nissinen, M., Korppi-Tommola, J. dan Rissanen, K., (2007), "Dansylated Resorcinarenes", *New J. Chem.*, **31**, 370-376.
- Bouvier-Capely, Céline1, Phan, G., Spagnul, A., Landon, G., Tessier, C., Suhard, D., Rebière, F. dan Fattal, E., (2010), *Calixarene Nanoemulsion: A New Treatment for Uranium Skin Contamination*, Helsinki: Proceedings of Third European IRPA Congress 20101 June 14-16.
- Deligöz, H., Ak, M. S., Memon, S. dan Yilmaz, M., (2008), "Azocalix[4]arenes. 5: *p*-Substituted Azocalix[4]arenes as Extractants for Dichromate Anions", *Pak. J. Anal. Environ. Chem.*, **9**, 1, 1-5.
- Ding, C., Qu, K., Li, Y., Hu, K., Liu, H., Ye, B., Wu, Y. dan Zhang, S., (2007), "Preparation and Characterization of Six Calixarene Bonded Stationary Phases for High Performance Liquid Chromatography", *J. Chromatogr. A*, **1170**, 73–81.
- Gabriel, C., Gabriel, S., Grant, E. H., Halstead, B. S. J. dan Mingos, D. M. P., (1998), "Dielectric Parameters Relevant to Microwave Dielectric Heating", *Chem. Soc. Rev.*, **27**, 213-223.
- Graham, B. F., Harrowfield, J. M. dan Tengrove, R. D., (2002), "Evidence of a Host-Guest Complex between *p*-t-Butylcalix[4]arene and Carbon Dioxide", *J. Incl. Phenom. Macro. Chem.*, **43**, 179-182.
- Gupta, S. P., (Eds) (2006), "QSAR and Molecular Modeling Studies in Heterocyclic Drugs II", *Top. Heterocycl. Chem.*, **4**, 1-307.
- Gutsche, C. D., (1989), *Calixarenes*, Washington: Royal Society of Chemistry, Washington University St. Louis USA.
- Gutsche, C. D. dan Muthukrishnan, R., (1978), "Calixarenes. 1. Analysis of The Product Mixtures Produced by The Base-Catalyzed Condensation of Formaldehyde with *para*-Substituted Phenols", *J. Org. Chem.*, **43**, 25, 4905–4906.

- Gutsche, C. D., Rogers, J. S., Stewart, D. dan See, K., (1990), "Calixarenes: Paradoxes and Paradigms in Molecular Baskets", *Pure & Appl. Chem.*, **62**, 3, 485-491.
- Hamilton, K., (2003), *Synthesis, Characterization, and Application of Water Soluble Chiral Calix[4]arene Derivatives In Spectroscopy and Capillary Electrokinetic Chromatography*, Disertasi: The Department of Chemistry Louisiana State University Lousiana.
- Hedidi, M., Hamdi, S. M., Mazari, T., Boutemeur, B., Rabia, C., Chemat, F. dan Hamdi, M., (2006), "Microwave-Assisted Synthesis of Calix[4]resorcinarenes", *Tetrahedron*, **62**, 24, 5652-5655.
- Hendayana, S., Kadarohman, A., Sumarna, A. A. dan Supriatna, A., (1994), *Kimia Analitik Instrumen* (Edisi Kesatu), Semarang: IKIP Press.
- Iwanek, W. dan Wzorek, A., (2009), "Introduction to The Chirality of Resorcinarenes", *Mini-Reviews in Organic Chemistry*, **6**, 398-411.
- Jain, V. K., Pillai, S. G. dan Kanaiya, P. H., (2008), "Synthesis of Calix[4]resorcinarenes Based Dyes and Its Application in Dyeing of Fibres", *E-J. Chem.*, **5**, 1037-1047.
- Jose, P. dan Menon, S., (2007), "Lower-Rim Substituted Calixarenes and Their Applications", *Bioorg. Chem. App.*, 1-16.
- Jumina, Sardjono, R. E., Siswanta, D., Santosa, S. J. dan Ohto, K., (2011), "Adsorption Characteristics of Pb(II) and Cr(III) onto C-Methylcalix[4]resorcinarene", *J. Korean Chem. Soc.*, **55**, 3, 454-462.
- Kimura, K., Tsujimura. Y. dan Yokoyama, M., (1995), "Silicone-Rubber Membrane Sodium-Ion Sensors Based on Calix[4]arene Neutral Carriers", *Pure & Appl. Chem.*, **67**, 7, 1085-1089.
- Kleinhans, D., (2010), *Studies in The Selective Synthesis of Bidentate Resorcinarene Ligands*, Disertasi: University of Stellenbosch South Africa.
- Krause, D. T., (2006), *Star Polymers and Dendrimers Based on Highly Functional Resorcin- and Pyrogallolarenes*, Disertasi: Department of Chemistry University of Technology Dresden.
- Kunarti, E. S., Pranowo, H. D., Tahir, I., Aprilita, N.H., Sudiono, R. S. dan Wahyuningsih, T. D., (2010), *Manajemen Kerja Laboratorium Berbasis Kimia Hijau*, Yogyakarta: Elmatera.

- Lautenschlager, W., Floter, I. dan Schewdt, G., (1998), "Using Microwave Labstation for Parallel Synthesis and Combinatorial Chemistry", *LaborPraxis*, 42-44.
- Leadbeater, N. E. dan Khan, M. R., (2008), "Microwave-Promoted Desulfurization of Heavy and Sulfur-Containing Crude Oil", *Energ. Fuel.*, **xxx**, A-D.
- LeFevre, J. W., (1997), "Measuring The Melting Point of Compounds and Mixtures", *Chem. Educ. Res.*, Tech 701.
- Levy, I dan Hamel, L. J., (2005), *Green Chemistry: A Description of Metrics with Applications in Academia and Industry*, ACS Conference, San Diego.
- Loupy, A., (Eds) (2002), *Microwaves in Organic Synthesis*, Weinheim: WILEY-VCH Verlag GmbH & Co. KgaA.
- Ludwig, R. dan Dzung, N. T. K., (2005), "Solvent Extraction of Tc(VII) by Calixarenes Bearing Pyridino Groups", *J. Nucl. Radiochem. Sci.*, **6**, 3, 227-231.
- Mallakpour, S. dan Rafiee, Z., (2008), "Microwave Assisted Reactions in Step-Growth Polymerization: A Review", *Iran. Polym. J.*, **17**, 12, 907-935.
- Mardhiyah, A., (2010), *Optimasi Kondisi Sintesis Tetramer Siklis Kaliks[4]resorsinarena dari Vanilin, Sinamaldehida dan Anisaldehida dengan Pemanasan Gelombang Mikro*, Skripsi: FPMIPA Universitas Pendidikan Indonesia: tidak diterbitkan.
- Martinez-Palou, R., (2007), "Ionic Liquid and Microwave-Assisted Organic Synthesis: A "Green" and Synergic Couple", *J. Mex. Chem. Soc.*, **51**, 4, 252-264.
- McMahon, G., O'Malley, S. dan Nolan, K., (2003), "Important Calixarene Derivatives-Their Synthesis and Applications", *ARKIVOC*, vii, 23-31.
- Mingos, D. M. P., (2001), "Theoretical Aspects of Microwave Dielectric Heating" dalam *Microwave Assisted Organic Synthesis*, United Kingdom: Blackwell Publishing Ltd.
- NOTOX Safety and Environmental Research B. V., (2007), *HPV Assessment Report on p-Toluensulfonic Acid CAS 104-5-4*, NOTOX 469722, *p*-Toluensulphonic Acid Coalition: Washington DC.
- Nüchter, M., Ondruschka, B., Bonrath, W. dan Gum, A., (2004), "Microwave Assisted Synthesis-A Critical Technology Review", *Green Chem.*, **6**, 128-141.

- Nurmawati, N., (2010), *Optimasi Kondisi Sintesis Tetramer Siklis Kaliks[4]resorsinarena dengan Metode Bebas Pelarut*, Skripsi: FPMIPA Universitas Pendidikan Indonesia: tidak diterbitkan.
- Osipov, M., Chu, Q., Geib, S. J., Curran, D. P. dan Weber, S. G., (2008), "Synthesis of Deep-Cavity Fluorous Calix[4]arenes as Molecular Recognition Scaffolds", *Beilstein J. Org. Chem.*, **4**, 36, 1-6.
- Perreux, L. dan Loupy, A., (2001), "A Tentative Rationalization of Microwave Effects in Organic Synthesis According to The Reaction Medium and Mechanistic Considerations", *Tetrahedron*, **57**, 9199-9223.
- Pesyan, N. N. dan Dabbagh, A. H., (2008), "*p*-Toluenesulfonic Acid A Useful and Selective Reagent for The Oxidation of Benzoins to Benziles Under Solvent-Free Condition", *J. Iran. Chem. Res.*, **1**, 123-127.
- Roberts, B. A., Cave, G. W. V., Raston, C. L. dan Scott, J. L., (2001), "Solvent-Free Synthesis of Calix[4]resorcinarenes", *Green Chem.*, **3**, 280-284.
- Roberts, B. A. dan Strauss, C. R., (2005), "Toward Rapid, "Green", Predictable Microwave-Assisted Synthesis", *Acc. Chem. Res.*, **38**, 653-661.
- Sardjono, R. E., (2007), *Sintesis dan Penggunaan Tetramer Siklis Seri Kaliksresorsinarena, Alkenikkaliks[4]arena dan Alkoksikaliks[4]arena untuk Adsorpsi Kation Logam Berat*, Disertasi: FMIPA Universitas Gadjah Mada Yogyakarta.
- Sardjono, R. E., Dwiyanti, G., Aisyah, S. dan Khoerunnisa, F., (2008), "Sintesis Kaliks[4]resorsinarena dari Minyak Kayumanis dan Penggunaannya untuk Ekstraksi Fasa Padat Logam Berat Hg(II) dan Pb(II)", *Jurnal Pengajaran MIPA*, **12**, 2, 1-13.
- Sastrohamidjojo, H., (2004), *Kimia Minyak Atsiri*, Yogyakarta: Gadjah Mada University Press.
- Shimizu, S., Kito, K., Sasaki, Y. dan Hirai, C., (1997), "Water-Soluble Calixarenes as New Inverse Phase-Transfer Catalysts. Nucleophilic Substitution of Alkyl and Arylalkyl Halides in Aqueous Media", *Chem. Commun.*, 1629-1630.
- Sunarya, Y., (2003), *Kimia Dasar 2* (Edisi Kedua), Bandung: Alkemi Grafisindo Press.
- Supratman, U., (2010), *Elusidasi Struktur Senyawa Organik : Metode Spektroskopi untuk Penentuan Struktur Senyawa Organik*, Bandung: Widya Padjajaran.

- Timmerman, P., Verboom, W., Reinhoudt, D. N., (1996), "Resorcinarenes", *Tetrahedron*, **52**, 8, 2663-2704.
- Tunstad, L. M., Tucker, J. A., Daicanale, E., Weiser, J., Bryant, J. A., Sherman, J. C., Helgeson, R. C., Knobler, C. B. dan Cram, D. J., (1989), "Host-Guest Complexation 48. Octol Building Blocks for Cavitands and Carcerands", *J. Org. Chem.*, **54**, 6, 1305-1312.
- Vaismaa, M., (2009), *Development of Benign synthesis of Some Terminal α -Hydroxy Ketones and Aldehydes*, Disertasi : Faculty of Science University of Oulu.
- Vicens, J., Volker, B., (Eds) (1990), *Topics in Inclusions Science Vol 3: Calixarenes: A Versatile Class of Macrocyclic Compounds*, Kluwer Academic Publishers : Dordrecht.
- Whittaker, G., (2004), "Microwave Chemistry", *School Sci. Rev.*, **85**, 312, 87-94.
- Zinke, A. dan Ziegler, E., (1944), *Chem. Ber.*, **77**, 264.