

DAFTAR PUSTAKA

- [1]. A.S. Anhar, I.D. Sara, R.H. Siregar, “Desain Prototype Sel Surya Terkonsentrasi Menggunakan Lensa Fresnel, “Karya Ilm. Tek. Elektro, vol.2 no.3, pp. 1-7, 2017
- [2]. E. Taer, U. Riau, I. Iwantono, U. Riau, “Sel Surya Fotoelektrokimia dengan Menggunakan Nanopartikel Platinum sebagai Elektroda Growth PLATINUM SEBAGAI ELEKTRODA COUNTER GROWTH tipis (thin film) dan yang ketiga sel surya Dye Sensitized Solar – Cell (DSSC). Dalam fabrikasinya, sel surya,” no. April, 2014
- [3]. <http://digilib.unila.ac.id/14348/4/BAB%20II.pdf> (diakses tanggal 15 November 2019)
- [4]. S. Syamsuluri et al., “Concentration on the Optical Behavior and Structure,” pp. 1-11
- [5]. C. Aydin, M.S. Abd El-sadek, Kaibo Zheng, et al. Properties of nanocrystalline Fe-doped ZnO via sol-gel calcination technique. Journal of Optics and Laser Technology 48 pp. 447-452
- [6]. T. Srinivasulu, K. Saritha, K.T. Ramakrishna Reddy. 2017. Structural and Potoluminescence Properties Of Fe-doped ZnO thin films. Int. J. Adv. Res 5(4), 958-963
- [7]. T. Srinivasulu, K. Saritha, K.T. Ramakrishna Reddy. 2017. Physical Properties of Spray Deposited Fe:ZnOThin Films. Materials Today: Proceedings. Vol 4 p.12571–12576
- [8]. R. Azimirad, A. Khayatian, S. Safa, M. Almasi Kashi.2014. Enhancing photoresponsivity of ultra violet photodetectors based of Fe doped ZnO / ZnO shell / core nanorods. Journal of Alloys and Compounds.10.1016/j.jallcom.2014.06.157
- [9]. A.Srivastava, N.Kumar, S. Khare. Enhancement in UV emission and band gap by Fe doping in ZnO thin films. Opto Electronics. Rev 22(1), 68–76
- [10]. Karmvir Singh et al. 2016. Structural optical and electronic properties of Fe and Ga doped ZnO thin films grown using pulsed laser deposition technique. J. Phys.: Conf. Ser. 755012040

- [11]. Arun Kumar, Pooja Dhiman, M.Singh. 2016. Effect of Fe-doping on the structural, optical and magnetic properties of ZnOthin films prepared by RF magnetron sputtering. Ceramics International. 42 : 7918-7923
- [12]. S.I. Inamdar, K.Y. Rajpure. 2014. High - performance metal – semiconductor – metal UV photodetector based on spray deposited ZnO thin films. Journal of Alloys and Compounds. 595 ; 55–59
- [13]. Zhang, Y., Chung, J., Lee, J., Myoung, J., Lim, S., 2011. Synthesis of ZnO nanospheres with uniform nanopores by a hydrothermal process, Journal of Physics and Chemistry of Solids, 72, 1548–1553
- [14]. Kanade, K.G., Kale, B.B., Aiyer, R.C., Das, B.K., 2006. Effect of solvents on the synthesis of nano-size zinc oxide and its properties. Materials Research Bulletin, 41, 590–600
- [15]. C.O Chey, Ansar Masood, A. Riazanova, et al. 2014. Synthesis of FeDoped ZnO Nanorods by Rapid Mixing Hydrothermal Method and Its Application for High Performance UV Photodetector Journal of Nanomaterials Volume 2014 Article ID 524530, 9 pages
- [16]. James R. Sowers and M. Epstein, “Sintesis Partikel Nano ZnO Dengan Metode Kopresipitasi Dan Karakterisasinya, “Am. Hear. Assoc. J., vol. 26, pp. 869-879, 1995
- [17]. Kwang-Sik Kim, Hyoun Woo Kim, Chong Mu Lee. Effect of growth temperature on ZnO thin film deposited on SiO₂.Materials Science and Engineering B98 (2003) 135 – 139
- [18]. Erlyta Septa Rosa, Shobih, Hari Teja Lesmana. Pembuatan film Oksida konduktif Transparan ZnO:Al Menggunakan Metoda Screen Printing. Jurnal Elektronika No. 1 Vol. 9, Januari-Juni 2009, ISSN 1411-8289
- [19]. H. Kim, J.S. Horwitz, W.H. Kim, A.J. Makinen, Z.H. Kafafi, D.B. Chrisey, Thin Solid Film 420-421 (2002) 539
- [20]. J.B. Baxter, E.S. Aydil, Appl. Phys. Lett. 86 (2005) 053114GHH
- [21]. Y.Chen, D. Bagnall and T. Yao, Mater. Sci. Eng. B., 2000, 75, 190
- [22]. H.m. Lin, S.J. Tzeng, P-J. Hsiau and W-l. Tsai, Nanostruct. Mater., 1998, 10, 465

- [23]. Adi Muhamad, K. Sofjan Firdaus, Wahyu Setia Budi. Efek Magneto Optispada Lapisan Tipis (ZnO). BerkalaFisika, Vol 10, No.1, 1 Januari 2007, hal 31-34. ISSN: 1410-9662. Jurusan Fisika, FMIPA, Universitas Diponegoro
- [24]. Ong, C. B., Ng, L. Y., dan Mohammad, A. W. 2018. A Review of ZnO Nanoparticles as Solar Photocatalysts: Synthesis, Mechanisms and Applications. Renewable and Sustainable Energy Reviews, 81(2): 536-551.
- [25]. Sungho Seo, Yao Litao, Hwamin Kim. 2014. Preparation of transparent metal films, titanium-doped zinc oxide films $(\text{TiO}_2)_{2}(\text{ZnO})_{98}$ of PEN by using a RF-Magnetron Sputtering method. Mol. Cryst. Liq. Cryst. Vol 602 64-71
- [26]. Sonet Kumar Saha, M. Azizar Rahman, M.R.H. Sarkar, M. Shahjahan, M.K.R. Khan. 2015. Effect of Co doping on structural, optical, electrical and thermal properties of nanostructured ZnO thin films. J. Semicond. Vol 36 p. 033004-1
- [27]. T. Srinivasulu, K. Saritha, K.T. Ramakrishna Reddy. 2017. Synthesis and characterization of Fe-doped ZnO thin films deposited by chemical spray pyrolysis. Modern Electronic Materials. 3 : 76-85
- [28]. Dickson, Kho. 2015. Prinsip Dasar dan Pengertian Semikonduktor. <http://teknikelektronika.com> (diakses tanggal 13 Desember 2019)
- [29]. Muhammad, Rully Fakhry. (2016). Studi Pengaruh Suhu Substrat terhadap Sifat Listrik dan Sifat Optik Bahan Semikonduktor Lapisan Tipis Tin Sulfide (SnS) Hasil Preparasi dengan Teknik Vakum Evaporasi. Skripsi. Yogyakarta: Universitas Negeri Yogyakarta
- [30]. Ariswan,(2013). Semikonduktor, Handout Kuliah. Yogyakarta: FMIPA UNY
- [31]. Reka Rio, S., Masamori Iida. 1999. Fisika dan Teknologi Semikonduktor. Jakarta: Pradnya Paramita
- [32]. Seung Chang Lee et al., Journal of Applied Physics 114 (2013) p.064502
- [33]. Ratnasari, Dina., dkk. 2009. “X-Ray Diffraction (XRD)”. Tugas Kimia

- [34]. Movla, Hossein. (2014). Simulation Analysis of the Alumunium Thin Film Thickness Measurement by Using Low Energy Electron Beam. Optik, 125(1): 71-74
- [35]. Senthilarasu, S. (2005). Substrate Temperature Effects on Structural Orientation and Optical Properties of Zinc Phthalocyanine (ZnPc) Thin Films. Material Science and Engineering B, 122: 100-105
- [36]. Abdullah, M. dan Khairurrijal. (2009). Review: Karakterisasi Nanomaterial Jurnal Nanosains dan Nanoteknologi 2(1)
- [37]. Khopkar S. M. (2003). Konsep Dasar Kimia Analitik. Jakarta: UI-Press
- [38]. Shewale p.s. etc, "H₂S gas sensing properties of nanocrystalline Cu-doped ZnO thin films prepared by advanced spray pyrolysis," Elsevier, sensror and actuators B Vol.186, pp. 226-234, 2013
- [39]. M. R. Patel, Wind and Solar Power System, New York: U.S Merchant Marine Academy, 2006
- [40]. J.B. Mooney, S.B. Radding. 1982. Spray pyrolysis processing. Annu. Rev. Mater. Sci.; 12: 81-101
- [41]. B. Xia, I.W. Lenggoro, and K. Okuyama, Adv. Mater. 13, 1579 (2001)
- [42]. S.C. Tsai, Y.L. Song, C.C. Yang, W.Y. Chiu, and H.M. Lin, J. Mater. Sci. 39, 3647 (2004)
- [43]. J. Nanosains, "Pengembangan Reaktor Spray Pyrolysis dan Spray Drying Untuk sintesis Partikel Oksida dan Partikel komposit Berbentuk Bulat dan Berukuran Mikrometer, "vol. 2, no. 2, pp. 52-55, 2009
- [44]. Khatibani Bagheri A. and Rozati S.M, "Synthesis and characterization of amorphous alumunium oxide thin film prepared by spray pyrolysis: effects of substrate temperature,"Journal of non-crystalline solids,Vol.363 pp.121-133, 2013
- [45]. Illegbusi, Olusegun J. Etc, Spray pyrolysis deposition of single and mixed oxide thin films," Materilas sciences and aplicationsVol.8, pp.153-169, 2017
- [46]. Rajendraetc, "Influence of processing parameters on the optical properties of zinc oxide thin film grown by spray pyrolisis," International journal of emerging technology and advanced engineering Vol.3(8): pp82-88, 2013

- [47]. G. J. Exarhos, X-D. Zhou. 2007. Discovery-based design of transparent conducting oxide films. *Thin Solid Films*. 515: 7025-7032
- [48]. <https://bisakimia.com/2016/09/03/bagaimana-menentukan-pelarut-yang-tepat/>, (diakses tanggal 7 Desember 2019)
- [49]. Amutha C. A. Etc, “Influence of concentration on structural and optical characteristics of nanocrystalline ZnO thin film synthesized by sol-gel dip coating method,” *Progress in nanotechnology and nanomaterials* Vol.3(1), pp.13-18, 2014
- [50]. D. Anggoro, R. Syarifah, H. Sunarno et al, “Karakterisasi Pengaruh Temperatur Kalsinasi pada Intensitas Emisi Material Luminisensi ZnO:Zn,” *Jurnal Fisika dan Aplikasinya*, No.3 Vol.14 , Oktober, 2018
- [51]. Maddu, A., dkk, 2010, Pengaruh Ketebalan Terhadap Sifat Optik Lapisan Semikonduktor Cu₂O yang Dideposisikan dengan Metode Chemical Bath Deposition, Pusat Penelitian Fisika-LIP, Departemen Fisika-FMIPA, Institut Pertanian Bogor, Kampus IPB Darmaga, Indonesia
- [52]. Wilda Amananti. Analisis Sifat Optis Lapisan Tipis ZnO, TiO₂, TiO₂:ZnO, dengan dan Tanpa Lapisan Penyangga yang Dideposisikan Menggunakan Metode Sol-Gel Spray Coating. *Jurnal Fisika Indonesia* No:55, Vol XIX, Mei 2015. ISSN:1410-2994, Jurusan Fisika
- [53]. Kittel, Charles., 1996, *Introduction to Solid State Physics* 7th Edition, John Wiley and Sons, Inc., New York
- [54]. Sugianto, etc, “Pengaruh temperatur annealing pada sifat listrik film tipis zinc oksida doping alumunium oksida,” *Jurnal MIPA UNNES* Vol. 39 (2), pp. 155-122, 2016
- [55]. W. Ayu, P. Kesuma, P.S. Fisika, and J. Sains, Penumbuhan dan Karakterisasi Film Tipis ZnO:Cu (CZO) Dengan Metode Spray Pyrolysis Sederhana Sebagai Fotodetektor UV Tugas Akhir. 2019
- [56]. Sari Lara Permata, etc, Pengaruh jumlah mol zinc asetat dyhidtare terhadap struktur kristal lapisan tipis ZnO (0,01; 0,02; 0,03 mol),” *Jurnal fisika dan aplikasinya* Vol. 16, No. 3, 2015

- [57]. Nurfani Eka, etc, “Electrical properties of ZnO-based photodetector prepared by room temperature dc unbalanced magnetron sputtering,” SPIE Vol.10150 1015013-1, 2016
- [58]. Y. Zhang,Z. etc, “Electric-field control of magnetization and electronic transport in ferromagnetic/ ferroelectric heterostructures,” Appl.Phys.Lett. Vol.92(15), 152510, 2008
- [59]. Nur Amin.2007.”Analisis sifat listrik persambungan M-S-M pada film tipis Al_x Ga 1-x N yang ditumbuhkan diatas substrat silikon(111) dengan metode DC Magnetron Sputtering “.Jurusan Fisika. Fakultas Matematika dan Ilmu Pengetahuan Alam: Universitas Negeri Semarang