









- process of sodium chloride," *Int. J. Mater. Chem.*, vol. 2, no. 2, pp. 75–78, 2012.
- [3] S. Coskun, B. Aksoy, and H. E. Unalan, "Polyol synthesis of silver nanowires: An extensive parametric study," *Cryst. Growth Des.*, vol. 11, pp. 4963–4969, 2011.
- [4] J. Y. Lin, Y. L. Hsueh, and J. J. Huang, "The concentration effect of capping agent for synthesis of silver nanowire by using the polyol method," *J. Solid State Chem.*, vol. 214, pp. 2–6, 2014.
- [5] Y. Sun, B. Gates, B. Mayers, and Y. Xia, "Crystalline silver nanowires by soft solution processing," *Nano Lett.*, vol. 2, no. 2, pp. 165–168, 2002.
- [6] J. Lee, H. Shin, Y. Noh, S. Na, and H. Kim, "Solar energy materials & solar cells brush painting of transparent PEDOT/Ag nanowire/PEDOT multilayer electrodes for flexible organic solar cells," *Sol. Energy Mater. Sol. Cells*, vol. 114, pp. 15–23, 2013.
- [7] M. R. Johan, N. Azri, K. Aznan, S. T. Yee, I. H. Ho, S. W. Ooi, N. D. Singho, and F. Aplop, "Synthesis and growth mechanism of silver nanowires through different mediated agents (CuCl<sub>2</sub> and NaCl) Polyol process," *J. Nanomater.*, vol. 2014, no. Article ID 105454, pp. 1–7, 2014.
- [8] G. H. Lim, S. J. Lee, I. Han, S. Bok, J. H. Lee, J. Nam, J. H. Cho, and B. Lim, "Polyol synthesis of silver nanostructures: Inducing the growth of nanowires by a heat-up process," *Chem. Phys. Lett.*, vol. 602, pp. 10–15, 2014.
- [9] T. Cheng, Y. Zhang, W. Lai, Y. Chen, and W. Huang, "A rapid synthesis of high aspect ratio silver nanowires for high-performance transparent electrodes," *Chinese J. Chem.*, vol. 33, no. 1, pp. 147–151, 2015.
- [10] J.-Y. Lin, Y.-L. Hsueh, J.-J. Huang, and J.-R. Wu, "Effect of silver nitrate concentration of silver nanowires synthesized using a polyol method and their application as transparent conductive films," *Thin Solid Films*, vol. 584, pp. 243–247, 2015.
- [11] D. Zhang, L. Qi, J. Ma, and H. Cheng, "Formation of silver nanowires in aqueous solutions of a double-hydrophilic block copolymer," *Chem. Mater.*, vol. 13, no. 9, pp. 2753–2755, 2001.
- [12] R. Becker, F. Söderlind, B. Liedberg, and P. Käll, "Synthesis of silver nanowires in aqueous solutions," *Mater. Lett.*, vol. 64, no. 8, pp. 956–958, 2010.
- [13] C. Jia, P. Yang, and A. Zhang, "Glycerol and ethylene glycol co-mediated synthesis of uniform multiple crystalline silver nanowires," *Mater. Chem. Phys.*, vol. 143, pp. 794–800, 2014.
- [14] L. R. Shobin, D. Sastikumar, and S. Manivannan, "Glycerol mediated synthesis of silver nanowires for room temperature ammonia vapor sensing," *Sensors Actuators A Phys.*, vol. 214, pp. 74–80, 2014.
- [15] H. S. Lee, Y. W. Kim, J. E. Kim, S. W. Yoon, T. Y. Kim, J.-S. Noh, and K. S. Suh, "Synthesis of dimension-controlled silver nanowires for highly conductive and transparent nanowire films," *Acta Mater.*, vol. 83, pp. 84–90, 2015.
- [16] C. Yang, Y. Tang, Z. Su, Z. Zhang, and C. Fang, "Preparation of silver nanowires via a rapid, scalable and green pathway," *J. Mater. Sci. Technol.*, vol. 31, no. 1, pp. 16–22, 2015.
- [17] A. Amirjani, P. Marashi, and D. H. Fatmehsari, "Effect of AgNO<sub>3</sub> addition rate on aspect ratio of CuCl<sub>2</sub>-mediated synthesized silver nanowires using response surface methodology," *Colloids Surfaces A Physicochem. Eng. Asp.*, vol. 444, pp. 33–39, 2014.
- [18] Junaidi, K. Triyana, H. Sosiati, E. Suharyadi, and Harsojo, "Effect of temperature on silver nanorods synthesized by polyol method," *Adv. Mater. Res.*, vol. 1123, pp. 256–259, 2015.
- [19] X. Tang, M. Tsuji, P. Jiang, M. Nishio, S.-M. Jang, and S.-H. Yoon, "Rapid and high-yield synthesis of silver nanowires using air-assisted polyol method with chloride ions," *Colloids Surfaces A Physicochem. Eng. Asp.*, vol. 338, no. 1–3, pp. 33–39, 2009.
- [20] Y. Zhang, J. Wang, and P. Yang, "Convenient synthesis of Ag nanowires with tunable length and morphology," *Mater. Res. Bull.*, vol. 48, no. 2, pp. 461–468, 2013.
- [21] H. Fu, X. Yang, A. Yu, and X. Jiang, "Rapid synthesis and growth of silver nanowires induced by vanadium trioxide particles," *Particuology*, vol. 11, no. 4, pp. 428–440, 2013.
- [22] A. R. Raut and G. H. Murhekar, "Studies optical and morphological study of modified polyvinyl alcohol," *Int. J. Chem. Stud.*, vol. 2, no. 1, pp. 19–24, 2014.
- [23] N. Ahad, E. Saion, and E. Gharibshahi, "Structural, thermal, and electrical properties of PVA-sodium," *J. Nanomater.*, 1–8, 2012.
- [24] D. Malina, A. Sobczak-kupiec, Z. Wzorek, and Z. Kowalski, "Silver nanoparticles synthesis with different concentrations of polyvinylpyrrolidone," *Dig. J. Nanomater. Bios.*, vol. 7, no. 4, pp. 1527–1534, 2012.
- [25] O. G. Abdullah, S. B. Azis, K. M. Omer, and Y. M. Salih, "Reducing the optical band gap of polyvinyl alcohol (PVA) based nanocomposite," *J. Mater. Sci-Mater. El.*, DOI 10.1007/s10854-015-3067-3, 2015.
- [26] W. A. Jabbar, N. F. Habubi, and S. S. Chiad, "Optical characterization of silver doped poly(vinyl alcohol) films," *J. Ark. Acad. Sci.*, vol. 64, pp. 101–105, 2010.
- [27] H. Mao, J. Feng, X. Ma, C. Wu, and X. Zhao, "One-dimensional silver nanowires synthesized by self-seeding polyol process," *J. Nanoparticle Res.*, vol. 14, no. 6, pp. 1–15, 2012.
- [28] M. Kang, E. Chung, S. Kim, and S. W. Rhee, "Ag nanowires prepared by a modified polyol method with 1,4-benzoquinone additives," *Bull. Korean Chem. Soc.*, vol. 35, no. 11, pp. 3209–3212, 2014.
- [29] Y. Tang, W. He, S. Wang, Z. Tao, and L. Cheng, "One step synthesis of silver nanowires used in preparation of conductive silver paste," *J. Mater. Sci. Mater. Electron.*, vol. 25, no. 7, pp. 2929–2933, 2014.
- [30] K. S. Teppei Araki, Jinting Jiu, Masaya Nogi, Hirotaka Koga, Shijo Nagao, Tooru Sugahara, "Low haze transparent electrodes and highly conducting air dried films with ultra-long silver nanowires synthesized by one-step polyol method," *Nano Res.*, vol. 7, pp. 236–245, 2014.
- [31]