

DAFTAR PUSTAKA

- (1) Trianisa, K.; Purnomo, E. P.; Kasiwi, A. N. Pengaruh Industri Batubara Terhadap Polusi Udara Dalam Keseimbangan World Air Quality Index in India. *J. Sains Teknol. Lingkung.* 2020, 6 (2), 156–168. <https://doi.org/10.29303/jstl.v6i2.154>.
- (2) Baity, P. S. N.; Suasmoro. Sintesis Nickel Yttria Stabilized Zirconia (Ni YSZ) Sebagai Anoda Solid Oxide Fuel Cell (SOFC). *Renew. Sustain. Energy Rev.* 2016, 5 (2), 2337–3520.
- (3) Putri, R. A.; Noviyanti, A. R. Sel Bahan Bakar Oksida Padat Sebagai Sumber Energi Yang Ramah Lingkungan Di Masa Pandemik COVID-19. *Jambura J. Chem.* 2021, 3 (1), 16–26. <https://doi.org/10.34312/jambchem.v3i1.9740>.
- (4) Alaswad, A.; Baroutaji, A.; Rezk, A.; Ramadan, M.; Olabi, A. G. *Advances in Solid Oxide Fuel Cell Materials*; Elsevier Ltd., 2021. <https://doi.org/10.1016/B978-0-12-803581-8.11743-6>.
- (5) Margaretha, T.; Kojong, I.; Aritonang, H. Green Syntesis Nanopartikel Perak (Ag) Menggunakan Larutan Daun Rumput Macan (Lantana Camara L .). 2018, 11 (2), 46–51.
- (6) Irshad, M.; Siraj, K.; Raza, R.; Rafique, M.; Usman, M.; Ain, Q. ul; Ghaffar, A. Evaluation of Densification Effects on the Properties of 8 Mol % Yttria Stabilized Zirconia Electrolyte Synthesized by Cost Effective Coprecipitation Route. *Ceram. Int.* 2021, 47 (2), 2857–2863. <https://doi.org/10.1016/j.ceramint.2020.09.140>.
- (7) Sumiyati, S.; Manurung, P.; Suprihatin, S. Sintesis Nanotitania Dengan Cara Hidrotermal Sebagai Fungsi Suhu. *J. Energy, Mater. Instrum. Technol.* 2021, 2 (4), 147–151. <https://doi.org/10.23960/jemit.v2i4.152>.
- (8) Yunarto, Nanang; Elya, B.; Konadi, L. Potensi Fraksi Etil Asetat Ekstrak Daun Gambir (Uncaria Gambir Roxb .) Sebagai Antihiperlipidemia Potency of Ethyl Acetate Fraction of Gambier Leaves Extract Abstrak Mengandung Katekin. *J. Kefarmasian Indonesia.* 2015, 5 (1), 1–10.
- (9) Campisi, S.; Schiavoni, M.; Chan-Thaw, C. E.; Villa, A. Untangling the Role of the Capping Agent in Nanocatalysis: Recent Advances and Perspectives. *Catalysts* 2016, 6 (12), 1–21. <https://doi.org/10.3390/catal6120185>.
- (10) Putra, G.; Munggaran, D.; Fitriyani, D.; Rivai, K. Dengan Metode Reaksi Padatan Dan Karakterisasinya. *Jurnal Fisika Unand.* 2014, 3 (2), 102–108.
- (11) Miyashita, T. Bell's Non-Locality Theorem Can Be Understood in Terms of

- Classical Thermodynamics. *J. Mod. Phys.* 2017, 08 (01), 87–98. <https://doi.org/10.4236/jmp.2017.81008>.
- (12) Saputra, H.; Yusuf, M. M. Sistem Fuel Cell Pengaplikasian Pada Moda Transportasi (Portable Device). *Pros. Semin. Nas. Terap. Ris. Inov.* 2020, 6 (1), 153–161.
- (13) Blum, L.; Riensche, E. Fuel Cells - Solid Oxide Fuel Cells | Systems. *Encycl. Electrochem. Power Sources* 2009, 99–119. <https://doi.org/10.1016/B978-044452745-5.00262-8>.
- (14) Menzler, N. H.; Lavergnat, D.; Tietz, F.; Sominski, E.; Djurado, E.; Fischer, W.; Pang, G.; Gedanken, A.; Buchkremer, H. P. Materials Synthesis and Characterization of 8YSZ Nanomaterials for the Fabrication of Electrolyte Membranes in Solid Oxide Fuel Cells. *Ceram. Int.* 2003, 29 (6), 619–628. [https://doi.org/10.1016/S0272-8842\(02\)00209-2](https://doi.org/10.1016/S0272-8842(02)00209-2).
- (15) Mishra, S.; Soren, S.; Debnath, A. K.; Aswal, D. K.; Das, N.; Parhi, P. Rapid Microwave – Hydrothermal Synthesis of CeO₂ Nanoparticles for Simultaneous Adsorption/Photodegradation of Organic Dyes under Visible Light. *Optik (Stuttgart)*. 2018, 169 (May), 125–136. <https://doi.org/10.1016/j.ijleo.2018.05.045>.
- (16) Sharma, S. K. *Complex Magnetic Nanostructures: Synthesis, Assembly and Applications*; 2017. <https://doi.org/10.1007/978-3-319-52087-2>.
- (17) Sebayang, L.; Afni Hardyani, M. The Morphology Characteristics of Plant Gambir (*Uncaria Gambire Roxb.*) in Pakpak Barat District. *J. Pertan. Trop.* 2020, 7 (2), 213–218. <https://doi.org/10.32734/jpt.v7i2.4374>.
- (18) Arief, S.; Gustia, V.; Wellia, D. V.; Zulhadjri; Ban, T.; Ohya, Y. Hydrothermal Synthesized Ag Nanoparticles Using Bioreductor of Gambier Leaf Extract (*Uncaria Gambier Roxb.*). *J. Chem. Pharm. Res.* 2015, 7 (9), 189–192.
- (19) Setiabudi, A.; Hardian, R.; Muzakir, A. *Karakterisasi Material: Prinsip Dan Aplikasinya Dalam Penelitian Kimia*; 2012; Vol. 1.
- (20) Bunaciu, A. A.; Udriștioiu, E. gabriela; Aboul-Enein, H. Y. X-Ray Diffraction: Instrumentation and Applications. *Crit. Rev. Anal. Chem.* 2015, 45 (4), 289–299. <https://doi.org/10.1080/10408347.2014.949616>.
- (21) Alderton, D. X-Ray Diffraction (XRD). *Encycl. Geol. Vol. 1-6, Second Ed.* 2020, 1, 520–531. <https://doi.org/10.1016/B978-0-08-102908-4.00178-8>.
- (22) Sulistyani, M.; Huda, N. Perbandingan Metode Transmisi Dan Reflektansi Pada Pengukuran Polistirena Menggunakan Instrumentasi Spektroskopi Fourier Transform Infra Red. *Indones. J. Chem. Sci.* 2018, 7 (2), 195–198.

- (23) Khan, S. A.; Khan, S. B.; Khan, L. U.; Farooq, A.; Akhtar, K.; Asiri, A. M. Fourier Transform Infrared Spectroscopy: Fundamentals and Application in Functional Groups and Nanomaterials Characterization. *Handb. Mater. Charact.* 2018, 317–344. https://doi.org/10.1007/978-3-319-92955-2_9.
- (24) Rahmawati, F.; Zührini, N.; Nugrahaningtyas, K. D.; Arifah, S. K. Yttria-Stabilized Zirconia (YSZ) Film Produced from an Aqueous Nano-YSZ Slurry: Preparation and Characterization. *J. Mater. Res. Technol.* 2019, 8 (5), 4425–4434. <https://doi.org/10.1016/j.jmrt.2019.07.054>.
- (25) Septiano, A. F.; Susilo, S.; Setyaningsih, N. E. Analisis Citra Hasil Scanning Electron Microscopy Energy Dispersive X-Ray (SEM EDX) Komposit Resin Timbal Dengan Metode Contrast to Noise Ratio (CNR). *Indones. J. Math. Nat. Sci.* 2021, 44 (2), 81–85. <https://doi.org/10.15294/ijmns.v44i2.33143>.
- (26) Inkson, B. J. *Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM) for Materials Characterization*; Elsevier Ltd, 2016. <https://doi.org/10.1016/B978-0-08-100040-3.00002-X>.
- (27) Jumardin; Maddu, A.; Santoso, K.; Isnaeni. Karakteristik Sifat Optik Nanopartikel Karbon (Carbon Dots) Dengan Metode Uv-Vis Drs (Ultraviolet-Visible Diffuse Reflectance Spectroscopy). *JFT J. Fis. dan Ter.* 2022, 9 (1), 1–15. <https://doi.org/10.24252/jft.v9i1.28815>.
- (28) Elsyah, S.A. R.; Zulhadjri; Arief, S. Pendekatan Green Synthesis Nanopartikel Karbon (Carbon Dots) dengan Bantuan Ekstrak Daun Gambir Dan Sifat Anti Bakterinya. *Jurnal Kimia dan Kemasan.* 2019, 41 (2), 55–64.
- (29) Kasim, A.; Malrianti, Y.; Derosya, V.; Syukri, D. Gc-Ms Screening of Valuable Volatile Compounds in the Waste of Uncaria Gambir. *Ann. Biol.* 2019, 35 (2), 242–245.
- (30) Eka Putri, G.; Rilda, Y.; Syukri, S.; Labanni, A.; Arief, S. Highly Antimicrobial Activity of Cerium Oxide Nanoparticles Synthesized Using Moringa Oleifera Leaf Extract by a Rapid Green Precipitation Method. *J. Mater. Res. Technol.* 2021, 15 (September), 2355–2364. <https://doi.org/10.1016/j.jmrt.2021.09.075>.
- (31) Suvaci, E.; Öznel, E. Hydrothermal Synthesis. *Encycl. Mater. Tech. Ceram. Glas.* Vol. 1-3 2021, 1, V1-59-V1-68. <https://doi.org/10.1016/B978-0-12-803581-8.12096-X>.
- (32) Li, Y.; Han, Q.; Yao, Y.; Li, M.; Dong, P.; Han, L.; Zeng, X.; Liu, J.; Liu, J.; Zhang, Y.; Xiao, J. Comparative Study of Yttria-Stabilized Zirconia Synthesis by Co-Precipitation and Solvothermal Methods. *Jom* 2019, 71 (11), 3806–3813.

<https://doi.org/10.1007/s11837-019-03760-w>.

- (33) Sato, K.; Horiguchi, K.; Nishikawa, T.; Yagishita, S.; Kuruma, K.; Murakami, T.; Abe, H. Hydrothermal Synthesis of Yttria-Stabilized Zirconia Nanocrystals with Controlled Yttria Content. *Inorg. Chem.* 2015, 54 (16), 7976–7984. <https://doi.org/10.1021/acs.inorgchem.5b01112>.
- (34) Madhusudhana, H. C.; Shobhadevi, S. N.; Nagabhushana, B. M.; Chaluvaraju, B. V.; Murugendrappa, M. V.; Hari Krishna, R.; Nagabhushana, H.; Radeep, N. R. Effect of Fuels on Conductivity, Dielectric and Humidity Sensing Properties of ZrO_2 Nanocrystals Prepared by Low Temperature Solution Combustion Method. *J. Asian Ceram. Soc.* 2016, 4 (3), 309–318. <https://doi.org/10.1016/j.jascer.2016.05.009>.
- (35) Aghazadeh, M.; Ghaemi, M.; Nozad Golikand, A.; Yousefi, T.; Jangju, E. Yttrium Oxide Nanoparticles Prepared by Heat Treatment of Cathodically Grown Yttrium Hydroxide. *ISRN Ceram.* 2011, 2011, 1–6. <https://doi.org/10.5402/2011/542104>.
- (36) Muhoza, S. P.; Lee, S.; Song, X.; Guan, B.; Yang, T.; Gross, M. D. Enhancing Activity, Charge Transport, Power Production, and Stability of Commercial Solid Oxide Fuel Cells with Yttria-Stabilized Zirconia Nanoparticles. *J. Electrochem. Soc.* 2020, 167 (2), 024517. <https://doi.org/10.1149/1945-7111/ab6eed>.
- (37) Wei, T.; Jia, B.; Shen, L.; Zhao, C.; Wu, L.; Zhang, B.; Tao, X.; Wu, S.; Liang, Y. Reversible Upconversion Modulation in New Photochromic $SrBi_2Nb_2O_9$ Based Ceramics for Optical Storage and Anti-Counterfeiting Applications. *J. Eur. Ceram. Soc.* 2020, 40 (12), 4153–4163. <https://doi.org/10.1016/j.jeurceramsoc.2020.04.014>.
- (38) Rahmawati, F.; Pemadani, I.; SYarif, D. G.; Soepriyanto, S. Electrical Properties Of Various Composition Of Yttrium Doped- Zirconia Prepared From Local Zircon Sand. *International Journal of Technology*. 2017, 939–946.
- (39) Moisiori, C.O. Effects of Quantum Confinements in Tin Sulphide Nanocrystals Produced by Wet-Solution Technique. *Research Article*. 2008, 2 (4), 43–53.