

## DAFTAR PUSTAKA

- Acayanka, E., Laminisi, S., Ndifon, P.T., Berthelot, S.T., dan Brisset, J., 2013, Degradation of Dithizone by Non Thermal Quenched Plasma of Gliding Arc Type, *J. Adv. Oxid. Technol.*, 16(1), 188-197.
- Adamczuk, A. dan Kolodyńska, 2015, Equilibrium, Thermodynamic and Kinetic Studies on Removal of Chromium, Copper, Zinc and Arsenic from Aqueous Solutions onto Fly Ash Coated by Chitosan, *J. Chem. Eng.*, 274, 200-212.
- Adamson, A.W., 1990, *Physical Chemistry of Surface*, John Wiley and Sons, Inc., New York.
- Aeni, D.N., Hardisantoso, E.P., dan Suhendar, D., 2017, Adsorpsi Ion Logam  $Mn^{2+}$  dan  $Cu^{2+}$  oleh Silika Gel dari Abu Ampas Tebu, *al-Kamiya*, 4(2), 70-80.
- Afrianita, R. dan Dewilda, Y., 2013, Efisiensi dan Kapasitas Penyerapan *Fly Ash* sebagai Adsorben dalam Penyisihan Logam Timbal (Pb) Limbah Cair Industri Percetakan di Kota Padang, *Jurnal Dampak*, 10(1), 1-10.
- Ahmad, M., Ahmed, S., Swami, B.L., dan Ikram, S., 2015, Adsorption of Heavy Metal Ions: Role of Chitosan and Cellulose for Water Treatment, 2(6), 280-289.
- Aisah, S., Zulfikar, dan Sulistiyo, Y.A., 2018, Sintesis Silika Gel Berbasis *Fly Ash* Batu Bara PLTU Paiton sebagai Adsorben Zat Warna *Rhodamin B*, *BST*, 6(1), 31-35.
- Ali, A.M.S., Syaiful, A.Z., dan Gazali, A., Pengaruh Senyawa Alumina ( $Al_2O_3$ ) dan Silika ( $SiO_2$ ) dalam Kualitas Batubara, *Jurnal Saintis*, 3(1), 42-49.
- Alipanahpour, E., Ghaedi, M., Reza, G., Asfaram, A., dan Kumar, M., 2017, Highly Efficient Simultaneous Biosorption of  $Hg^{2+}$ ,  $Pb^{2+}$ , and  $Cu^{2+}$  by Live Yeast *Yarrowia Lipolytica* 70562 Following Response Surface Methodology Optimization: Kinetic and Isotherm Study, *J. Ind. Eng. Chem.*, 48, 162-172.
- Allen, C.V., Destiarti, L., dan Zaharah, T.A., 2014, Recovery Timbal dengan Ekstraksi Fase Padat Menggunakan Kitosan Terimobilisasi Ditizon, *JKK*, 3(2), 1-6.
- Anggriani, U.M., Hasan, A., dan Purnamasari, I., 2021, Kinetika Adsorpsi Karbon Aktif dalam Penurunan Konsentrasi Logam Tembaga (Cu) and Lead (Pb) Metals, *Jurnal Kinetika*, 12(2), 29-37.
- Anwar, R.N., Sunarto, W., dan Kusumastuti, E., 2016, Pemanfaatan Bentonit Teraktivasi Asam Klorida untuk Pengolahan Minyak Goreng Bekas, *Indonesian Journal of Chemical Science*, 5(3), 189-194.
- Arbabi, M., Hemati, S., dan Amiri, M., 2015, Removal of Lead Ions from Industrial Wastewater: A Review of Removal Methods, *environment*, 4, 10.
- Asbahani, 2013, Pemanfaatan Limbah Ampas Tebu sebagai Karbon Aktif untuk Menurunkan Kadar Besi Pada Air Sumur, *Jurnal Teknik Sipil UNTAN*, 13(1), 105-114.
- Astuti, M.D., Nurmasari, R., dan Mujiyanti, D.R., 2012, Imobilisasi 1,8-Dihidroxyanthraquinon Pada Silika Gel Melalui Proses Sol-Gel, *Sains dan Terapan Kimia*, 6(1), 25-34.

- Aziz, T., Ahmad, L.O., Awaliyah, K., dan Kadir, L.A., 2020, Study of Kinetics and Adsorption Isotherm of Methylene Blue Dye Using Tannin Gel from Ceriops Tagal, *Jurnal Kimia Sains dan Aplikasi*, 23(10), 370-376.
- Babapoor, A., Rafie, O., Mousavi, Y., Azizi, M.M., Paar, M., dan Nuri, A., 2022, Comparison an Optimization of Operational Parameters in Removal of Heavy Metal Ions from Aqueous Solutions by Low-Cost Adsorbent, *International Journal of Chemical Engineering*, 1-21.
- Budiharti, G., 2015, Sintesis Nanopartikel Silika Menggunakan Metode Sol-Gel, *Jurnal Inovasi Fisika Indonesia*, 4(3), 22-25.
- Cahyani, A.D., 2014, Pengujian Metode Spektrofometri UV-Visible untuk Penentuan Hg(II) dalam Limbah Cair Laboratorium Kimia Analitik FMIPA UGM dengan Pereaksi Ditizon, *Skripsi*, Departemen Kimia, Universitas Gadjah Mada, Yogyakarta.
- Caroles, J.D.S., 2019, Ekstraksi Silika yang Terkandung dalam Limbah Abu Terbang Batubara, *Fullerene Journal of Chemistry*, 4(1), 5-7.
- Casillas-Ituarte, N.N., dan Allen, H.C., 2009, Water, Chloroform, Acetonitrile, and Atrazine Adsorption to the Amorphous Silica Surface Studied by Vibrational Sum Frequency Generation Spectroscopy, *Chemical Physics Letters*, 483, 84-89.
- Deng, J., Kang, X., Chen, L., Wang, Y., Gu, Z., dan Lu, Z., 2011, A Nanofiber Functionalized with Dithizone by Co-Electrospinning for Lead(II) Adsorption from Aqueous Media, *J.Hazard. Mater.*, 196, 187-193.
- Elaigwu, S.E., Rocher, V., Kyriakou, G., dan Greenway, G.M., 2014, Removal of  $Pb^{2+}$  and  $Cd^{2+}$  from Aqueous Solution Using Chars from Pyrolysis and Microwave-Assisted Hydrothermal Carbonization of Prosopis Africara Shell., *Journal of Industrial and Engineering Chemistry*, 20, 3467-3473.
- Fauzan, A., Aman, dan Drastinawati, 2014, Pemanfaatan Fly Ash Batu Bara sebagai Adsorben Logam Berat Ion  $Pb^{2+}$  yang Terlarut dalam Air, *Jom FTEKNIK*, 1(2), 1-6.
- Febrianti, R.F., Zaharah, T.A., dan Adhitiyawarman, 2022, Sintesis Zeolit Berbahan Dasar Abu Terbang (Fly Ash) Limbah PT. Indonesia Chemical Alumina (ICA) Menggunakan Metode Alkali Hidrotermal, *Indo. J. Pure App. Chem*, 5(1), 28-39.
- Fithri, L., dan Amaria, 2013, Penentuan Kapasitas Adsorpsi Ion Sianida ( $CN^-$ ) Pada Hibrida Amino Silika Terimpregnasi Besi(III), *Journal of Chemistry*, 2(1), 62-67.
- Fu. R., Liu, Y., Luo, Z., Wang, Z., Baig, S.A., dan Xu, X., 2016, Adsorptive Removal of Pb(II) by Magnetic Activated Carbon Incorporated With Amino Groups From Aqueous Solutions, *J. Taiwan. Inst. Chem. Eng.*, 62, 247-258.
- Gracias, W., 2022, Preparasi Zeolit Magnetik Terimobilisasi Ditizon dan Aplikasinya untuk Adsorpsi Ion Cd(II), *Tesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.
- Hamza, T.A., Sherif, A.H., dan Abdalla, E.A., 2017, A Novel Approach to Reinforce Provisional Material Using Silica Gel Powder, *Stomatological Dis Sci*, 1, 3-7.

- Huda, B., Wahyuni, E., dan Mudasir, M., 2021, Eco-friendly Immobilization of Dithizone on Coal Bottom Ash for the Adsorption of Lead(II) Ion from Water, *Result in Engineering*, 10, 100221.
- Huda, B., Wahyuni, E., Kamiya, Y., dan Mudasir, M., 2022, Kinetic and Thermodynamic Study on Adsorption of Lead(II) Ions in Water Over Dithizone-immobilized Coal Bottom Ash, *Materials Chemistry and Physics*, 282, 126005.
- Hussain, Z., Chang, N., Sun, J., Xiang, S., Ayaz, T., Zhang, H., dan Wang, H., 2022, Modification of Coal Fly Ash and Its Use as Low-Cost Adsorbent for the Removal of Directive, Acid, and Reactive Dyes., *Journal of Hazardous Materials*, 422, 126778.
- Ikhsan, F., Herayati, H., Abdullah, S., dan Rukmayadi, Y., 2020, Eksplorasi Bakteri Penyerap Logam Pb dari Air Sungai Ciujung, *J. Sains Teknologi.*, 16(2), 261-266.
- Joshi, S., dan Srivastava, R.K., 2019, Adsorptive Removal of Lead (Pb), Copper (Cu), Nickel (Ni) and Mercury (Hg) Ions from Water Using Chitosan Silica Gel Composite, *Environ Monit Assess*, 191,1-9.
- Koh, D.H., Locke, S.J., Chen, Y.C., Purdue, M.P., dan Friesen, M.C., 2015, Lead Exposure in US Worksites: A Literature Review and Development of An Occupational Lead Exposure Database from the Published Literature, *American Journal of Industrial Medicine*, 58(6), 605-616.
- Kushwaha, A.K., Gupta, N., dan Chattopadhyaya, M.C., 2017, Adsorption Behavior of Lead onto a New Class of Functionalized Silica Gel, *Arabian Journal of Chemistry*, 10, S81-S89.
- Kusmiyati, K., Listyanto, P.A., Vitasary, D., Indra, R., Islamica, D., dan Hardiyanto, H., 2017, Coal Bottom Ash and Activated Carbor for Removal of Vertigo Blue Dye in Batik Textile Waste Water: Adsorbent Characteristic, Isotherms, and Kinetic Studies, *Walailak J.Sci and Tech*, 14(5), 427-439.
- Li, J., Dong, X., Liu, X., Xu, X., Duan, W., Park, J., Gao, L., dan Lu, Y., 2022, Comparative Study on the Adsorption Characteristics of Heavy Metal Ions by Activated Carbon and Selected Natural Adsorbents, *Sustainability*, 14(23), 15579.
- Liu, B., dan Huang, Y., 2011, Polyethyleneimine Modified Eggshell Membrane as a Novel Biosorbent for Adsorption and Detoxification of Cr(VI) from Water, *J. Mater.Chem.*, 21(43), 17413-17418.
- Le, V.H., Thuc, C.N.H., dan Thuc, H.H., 2013, Synthesis of Silica Nanoparticles from Vietnamese Rice Husk by Sol-Gel Method, *Nanoscale Research Letters*, 8(58), 1-10.
- Luan, W., Yang, H., Wan, Z., Yuan, B., Yu, X., dan Tu, S.T., 2012, Mercaptopropionic Acid Capped CdSe/ZnS Quantum Dots as Fluorescence Probe for Lead (II), *Journal of Nanoparticle Research*, 14, 1-8.
- Maihendra, Fadli, A., dan Zultiniar, 2016, Kinetika Adsorpsi Pada Penjerapan Ion Timbal Pb<sup>2+</sup> Terlarut dalam Air Menggunakan Partikel *Tricalcium Phosphate*, *Jom FTEKNIK*, 3(2), 1-5.

- Marwani, H.M., Albishri, H.M., Jalal, T.A., dan Soliman, E.M., 2012, Activated Carbon Immobilized Dithizone Phase for Selective Adsorption and Determination of Gold(III), *Desalin. Water. Treat.*, 251(1-3), 128-135.
- Megasari, K., Herdiyanti, H., Nurliati, G., Kadarwati, A., dan Swantomo, D., 2019, Sintesis Silika Xerogel dari Abu Daun Bambu sebagai Adsorben Uranium, *JFN*, 1(13), 27-36.
- Mitra, S., Chakraborty, A.J., Tareq, A.M., Emran, T.B., Nainu, F., Khusro, A., Idris, A.M., Khandaker, M.U., Osman, H., Alhummaydhi, F.A., dan Gandara, J.S., 2022, Impact of Heavy Metals on the Environment and Human Health: Novel Therapeutic Insights to Counter the Toxicity, *J. King Saud Univ. Sci.*, 34(3), 101865.
- Mohammadyan, M., Moosazadeh, M., Borji, A., Khanjani, N., dan Moghadam, S.R., 2019, Exposure to Lead and Its Effect on Sleep Quality and Digestive Problems in Soldering Workers, *Environ Monit Asses*, 191, 184.
- Mudasir, Karelus, Aprilita, N.H., dan Wahyuni, E.T., 2016, Adsorption of Mercury (II) on Dithizone-Immobilized Natural Zeolite, *J. Environ. Chem. Eng.*, 1839-1849.
- Mudasir, M., Baskara, R.A., Suratman, A., Yunita, K.S., Pradana, R., dan Puspitasari, W., 2020, Simultaneous Adsorption of Zn(II) and Hg(II) Ions on Selective Adsorbent of Dithizone-Immobilized Bentonite in the Presence of Mg(II) Ion, *J. Environ. Chem. Eng.*, 8, 1-12.
- Mudasir, M., Rahmayuni, F., dan Sudiono, S., 2021, Removal of Pb (II) Ion from Aqueous Solution Using Dithizone-Immobilized Natural Bentonite, *Key Engineering Materials*, 884, 10-16.
- Mukarromah, I., 2018, Kompetisi Adsorpsi Ion Logam Pb<sup>2+</sup> dan Cu<sup>2+</sup> oleh Silika Gel Berbasis Abu Terbang Batubara PLTU Paiton-Probolinggo, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Jember, Jember.
- Neto, V., Raulino, G., Freire, P., Silva, M., dan Nascimento, R., 2013, Equilibrium and Kinetic Studies in Adsorption of Toxic Metal Ions for Wastewater Treatment, *A Book on Ion Exchange, Adsorption and Solvent Extraction*, 145-148.
- Niu, Z., Zhang, S., Ma, M., Wang, Z., Zhao, H., dan Wang, Y., 2019, Synthesis of Novel Waste Batteries-Sawdust-Based Adsorbent via a Two-Stage Activation Method for Pb<sup>2+</sup> Removal, *Environ. Sci. Pollut. Res.*, 26(5), 4730-4745.
- Nur, Y., Rohaeti, E., dan Darusman, L.K., 2017, Optical Sensor for the Determination of Pb<sup>2+</sup> Based On Immobilization of Dithizone onto Chitosan-Silica Membrane, *Indones. J. Chem.*, 17(1), 7-14.
- Othman, A.F., Othman, A.A., dan Zuki, H.M., 2016, Dithizon Modified Silver Electrode for the Determination of Metal Ions in Aqueous Solution, *Malaysian J. Anal. Sci.*, 20(1), 197-204.
- Papandreou, A.D., Stournaras, C.J., Panias, D., dan Paspaliaris, I., 2011, Adsorption of Pb(II), Zn(II), and Cr(III) on Coal Fly Ash Porous Pellets, *Miner. Eng.*, 24, 1495-1501.

- Pearson, R.G., 1963, Hard and Soft Acids and Bases, *J. Am. Chem. Soc.*, 85, 3533-3539.
- Pezhhanfar, S., Zarei, M., Shekaari Teymourloue, T., dan Khalilzadeh, M., 2021, Neural Network, Isotherm, and Kinetic Study for Wastewater Treatment using Populus Alba's Pruned Material. *Iranian Journal of Chemistry and Chemical Engineering*, 40(6), 1868-1881.
- Priyanto, A., Malik, F., Muhdarina, M., dan Awaluddin, A., 2021, Adsorption and Characterization of Activated Sugarcane Bagasse Using Sodium Hydroxide. *Indonesian Journal of Chemical Research*, 8(3), 202-209.
- Putri, V.B.A.S., 2019, Adsorpsi Ion Cu(II) dan Cd(II) Pada Abu Layang Batubara yang Diimobilisasi Ditizon, *Tesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.
- Rahmi, 2018, *Modifikasi Khitosan sebagai Adsorben*, Syiah Kuala University Press, Darussalam-Banda Aceh.
- Revellame, E., Fortela, D., Sharp, W., Hernandez, R., dan Zappi, M., 2020, Adsorption Kinetic Modeling Using Pseudo-First Order and Pseudo-Second Order Rate Laws: A Review, *Cleaner Engineering and Technology*, 1, 100032.
- Riswandi, A., 2020, *Biofilm Penerapan Mikrobiologi dalam Bidang Bioteknologi*, Guepedia, Bogor.
- Reyra, A.S., Daud, S., dan Yenti, S.R., 2017, Pengaruh Massa dan Ukuran Partikel Adsorben Daun Nanas terhadap Efisiensi Penyisihan Fe Pada Air Gambut, *Jom FTEKNIK*, 4(2), 1-9.
- Safrianti, I., Wahyuni, N., dan Zaharah, T.A., 2012, Adsorpsi Timbal (II) oleh Selulosa Limbah Jerami Padi Teraktivasi Asam Nitrat: Pengaruh pH dan Waktu Kontak, *JKK*, 1(1), 1-7.
- Sahoo, T.R. dan Prelot, B., 2020, Nanomaterials for the Detection and Removal of Wastewater Pollutants, *Elsevier Science*, Amsterdam.
- Salman, H., Shaheen, H., Abbas, G., dan Khalouf, N., 2017, Use of Syrian Natural Zeolite for Heavy Metals Removal from Industrial Waste Water: Factors and Mechanism, *Journal of Entomology and Zoology Studies*, 5(4), 452-461.
- Saptati, D., dan Himma, N.F., 2018, *Perlakuan Fisiko-Kimia Limbah Cair Industri*, UB Press, Malang.
- Sari, M.Y., dan Susatyo, E.B., 2017, Sintesis Kitosan-Silika *Bead* serta Aplikasinya untuk Menurunkan Kadar Ion Cr(VI) dalam Larutan, *Jurnal MIPA*, 40(2), 104-110.
- Saxena, M., Sharma, N., dan Saxena, R., 2020, Highly Efficient and Rapid Removal of a Toxic Dye: Adsorption Kinetics, Isotherm, and Mechanism Studies on Functionalized Multiwalled Carbon Nanotubes, *Surfaces and Interfaces*, 21, 100639.
- Selvaggi, R., Tarpani, L., Santuari, A., Giovagnoli, S., dan Latterini, L., 2015, Silica Nanoparticles Assisted Photodegradation of Acridine Orange in Aqueous Suspensions, *Applied Catalysis B: Environmental*, 168-169, 363-369.



- Septiana, A., 2013, Studi Adsorpsi Ion Logam Pb(II), Cu(II), dan Cr(III) Menggunakan Abu Dasar Batubara, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.
- Simatupang, L., 2021, *Material Silika Abu Vulkanik Sinabung: Karakteristik dan Aplikasi*, Media Sains Indonesia, Bandung.
- Singhon, R., 2014, Adsorption of Cu(II) and Ni(II) Ions on Functionalized Colloidal Silica Particles Model Studies for Wastewater Treatment, *Doctoral dissertation*, Universite de Franche-Comte.
- Shofwunnada, 2020, Adsorpsi Ion Ag(I) dan Zn(II) dari Larutan Menggunakan Abu Layang Batubara Terimobilisasi Dithizon, *Tesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.
- Sofyan, G.G.I., Alauhdin, M., dan Susatyo, E.B., 2013, Sintesis dan Karakterisasi Bahan Keramik *Cordieritr* dari Abu Sekam Padi, *Indo. J. Chem. Sci.*, 2(2), 99.
- Sofiyannah, 2014, Immobilisasi Dithizon Pada Silika Gel Teraktivasi HCl dan Aplikasinya Terhadap Adsorpsi Ion Logam Pb(II) dan Cu(II), *Skripsi*, Fakultas Sains dan Teknologi Universitas Islam Negeri Sunan Kalijaga, Yogyakarta.
- Supraptiah, E., Ningsih, A.S., Fatria, dan Amalia, U., 2014, Penyerapan Logam Pb dengan Menggunakan Karbon Aktif dari Cangkang Kemiri sebagai Adsorben, *Kinetika*, 5(1), 9-13.
- Taihutttu, B., Kayadoe, V., dan Mariwy, A., 2019, Studi Kinetika Adsorpsi Ion Fe(III) Menggunakan Limbah Ampas Sagu, *MJoCe*, 1(9), 9-17.
- Tangio, J.S, 2013, Adsorpsi Logam Timbal (Pb) dengan Menggunakan Biomassa Eceng Gondok (*Eichhorniacrassipes*), *Jurnal Entropi*, 8(1), 500-506.
- Tiwari, D., Laldanwngliana, Choi, C.H., dan Lee, S.M., 2011, Manganese Modified Natural Sun In The Remediation Of Aquatic Environment Contaminated With Heavy Metal Toxic Ions, *J.Chem.Eng.*, 171, 958-966.
- Trivana, L., Sugiarti, S., dan Rohaeti, E., 2015, Sintesis dan Karakterisasi Natrium Silikat ( $\text{Na}_2\text{SiO}_3$ ) dari Sekam Padi, *Jurnal Sains dan Teknologi Lingkungan*, 7(2), 66-75.
- Wahyuni, N., Silalahi, I.H., Nurlina, dan Yossy., 2020, Isoterm Adsorpsi Kromium(III) oleh Biomassa *Sargassum sp.*, *JB1*, 11(2), 87-93.
- Wogo, H.E., Segu, J.O., dan Ola, P.D., Sintesis Silika Gel Terimobilisasi Dithizon Melalui Proses Sol-Gel, *Sains dan Terapan Kimia*, 5(1), 84-95.
- Woznica, E., Wojcik, M.M., Wojciechowski, M., Mieczkowski, J., Bulska, E., Maksymiuk, K., dan Michalska, A., 2012, Dithizone Modified Gold Nanoparticles Films for Potentiometric Sensing, *Analytical Chemistry*, 84(10), 4437-4442.
- Wulandari, R., Hamdiani, S., dan Ismillayli, N., 2019, Synthesis of Mesoporic Silica from Rice Husk Ash for Pinostrobin Based Drug Delivery, *Acta. Chim. Asiana*. 2(1), 75-82.
- Wulandari, 2016, Sintesis dan Karakterisasi Aluminosilikat Mesopori dan *Red Mud* Pulau Bintan sebagai Sumber Alumina, *Tesis*, Fakultas Matematika dan Ilmu Pengetahuan Alam Institut Teknologi Sepuluh Nopember, Surabaya.

- Xiyili, H., Cetintas, S., dan Bingol, D., 2017, Removal of Some Heavy Metals onto Mechanically Activated Fly Ash: Modeling Approach for Optimization, Isotherms, Kinetics and Thermodynamics, *Process Saf Environ.*, 109, 288-300.
- Yahaya, N.K.E., Muhammad, F.P., Ismail, A., Olugbenga, S.B., dan Mohd, A.A., 2011, *Adsorptiv Removal of Cu(II) Using Activated Carbon Prepared From Rice Husk by ZnCl<sub>2</sub> Activation and Subsequent Gasification with CO<sub>2</sub>*, School of Chemical Engineering University Sains, Malaysia.
- Yu, H.M., Song, H., dan Chen, L.M., 2011, Dithizone Immobilized Silica Gel On-Line Preconcentration of Trace Copper with Detection by Flame Atomic Absorption Spectrometry, *Talanta*, 85, 625-630.
- Yuliana, 2015, Immobilisasi Ditizon Pada Zeolit Sintesis Abu Dasar Batubara serta Aplikasinya sebagai Adsorben Pb<sup>2+</sup>, *Skripsi*, Fakultas Sains dan Teknologi Universitas Islam Negeri Sunan Kalijaga, Yogyakarta.
- Yusuf, M., Suhendar, D., dan Hadisantoso, E.P., 2014, Studi Karakteristik Silika Gel Hasil Sintesis dari Abu Ampas Tebu dengan Variasi Konsentrasi Asam Klorida, *Jurnal istek*, 8(1), 16-28.
- Zulkifli, N.S.C., Ab Rahman, I., Mohamad, D., dan Husein, A., 2013, A Green Sol-Gel Route for the Synthesis of Structurally Controlled Silica Particles from Rice Husk for Dental Composite Filler, *Ceramics international*, 39(4), 4559-4567.