DAFTAR PUSTAKA

Afroughsabet, V., Biolzi, L., & Ozbakkaloglu, T. (2017). Influence of double hooked-end steel fibers and slag on mechanical and durability properties of high performance recycled aggregate concrete. *Composite Structures*, *181*, 273–284. https://doi.org/10.1016/j.compstruct.2017.08.086

Afroughsabet, V., & Ozbakkaloglu, T. (2015). Mechanical and durability properties of high-strength concrete containing steel and polypropylene fibers. *Construction and Building Materials*, *94*, 73–82. https://doi.org/10.1016/j.conbuildmat.2015.06.051

Afshoon, I., & Sharifi, Y. (2017). Use of copper slag microparticles in self-consolidating concrete. *ACI Materials Journal*, *114*(5), 691–699. https://doi.org/10.14359/51700887

Afshoon, I., & Sharifi, Y. (2020). Utilization of micro copper slag in SCC subjected to high temperature. *Journal of Building Engineering*, *29*, 101128. https://doi.org/10.1016/j.jobe.2019.101128

Aggarwal, Y., & Siddique, R. (2014). Microstructure and properties of concrete using bottom ash and waste foundry sand as partial replacement of fine aggregates. *Construction and Building Materials*, *54*, 210–223. https://doi.org/10.1016/j.conbuildmat.2013.12.051

Akhtar, A., & Sarmah, A. K. (2018). Construction and demolition waste generation and properties of recycled aggregate concrete: A global perspective. *Journal of Cleaner Production*, *186*, 262–281. https://doi.org/10.1016/j.jclepro.2018.03.085

Ali, B., Qureshi, L. A., Shah, S. H. A., Rehman, S. U., Hussain, I., & Iqbal, M. (2020). A step towards durable, ductile and sustainable concrete: Simultaneous incorporation of recycled aggregates, glass fiber and fly ash. *Construction and Building Materials*, *251*, 118980. https://doi.org/10.1016/j.conbuildmat.2020.118980

Ali, K., Qureshi, M. I., Saleem, S., & Khan, S. U. (2021). Effect of waste electronic plastic and silica fume on mechanical properties and thermal performance of concrete. *Construction and Building Materials*, *285*, 122952. https://doi.org/10.1016/j.conbuildmat.2021.122952

Anastasiou, E., Georgiadis Filikas, K., & Stefanidou, M. (2014). Utilization of fine recycled aggregates in concrete with fly ash and steel slag. *Construction and Building Materials*, *50*, 154–161. https://doi.org/10.1016/j.conbuildmat.2013.09.037

ASTM. (2003). Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens 1. *ASTM International*, *i*(March), 1–5.

ASTM. (2011). Standard Test Method for Splitting Tensile Strength of Cylindrical Concrete Specimens ASTM C-496. *ASTM International*, *March 1996*, 1–5. ftp://ftp.astmtmc.cmu.edu/docs/diesel/cummins/procedure_and_ils/ism/Archive/ISM Procedure (Draft 10).doc

ASTM. (2014). Standard Test Method for Slump of Hydraulic-Cement Concrete. *ASTM International*, *i*(Reapproved), 1–4. https://doi.org/10.1520/C0143

ASTM. (2016). Making and Curing Concrete Test Specimens in the Laboratory. *ASTM*, *04*, 1–8.

Avarmaa, K., Klemettinen, L., O'Brien, H., & Taskinen, P. (2019). Urban mining of precious metals via oxidizing copper smelting. *Minerals Engineering*, *133*(August 2018), 95–102. https://doi.org/10.1016/j.mineng.2019.01.006

Bechikh, A., Klinkova, O., Maalej, Y., Tawfiq, I., & Nasri, R. (2020). Sandblasting parameter variation effect on galvanized steel surface chemical composition, roughness and free energy. *International Journal of Adhesion and Adhesives*, *102*, 102653. https://doi.org/10.1016/j.ijadhadh.2020.102653

Borucka-Lipska, J., Techman, M., & Skibicki, S. (2019). Use of Contaminated Sand Blasting Grit for Production of Cement Mortars. *IOP Conference*

Series: Materials Science and Engineering, *471*(3). https://doi.org/10.1088/1757-899X/471/3/032055

British Standards Institution (BSI). (1983). Testing concrete — compressive strength of concrete cubes. *British Standard Institution*, *1*, 1–10.

Buruiana, D. L., Bordei, M., Diaconescu, I., & Ciurea, A. (2011). Recycling options for used sandblasting grit into road construction. *Recent Res Energy Environ Landsc Archit*, *November*, 172–178.

Chithra, S., Senthil Kumar, S. R. R., & Chinnaraju, K. (2016). The effect of Colloidal Nano-silica on workability, mechanical and durability properties of High Performance Concrete with Copper slag as partial fine aggregate. *Construction and Building Materials*, *113*, 794–804. https://doi.org/10.1016/j.conbuildmat.2016.03.119

Cuartas, M., López, A., Pérez, F., & Lobo, A. (2018). Analysis of landfill design variables based on scientific computing. *Waste Management*, *71*, 287–300. https://doi.org/10.1016/j.wasman.2017.10.043

Dermawan, D., & Ashari, M. L. (2018). Studi Komparasi Kelayakan Teknis dan Lingkungan Pemanfaatan Limbah B3 Sandblasting terhadap Limbah B3 Sandblasting dan Fly Ash sebagai Campuran Beton. *Jurnal Presipitasi : Media Komunikasi Dan Pengembangan Teknik Lingkungan*, *15*(1), 25. https://doi.org/10.14710/presipitasi.v15i1.25-30

Dinakar, P., Kartik Reddy, M., & Sharma, M. (2013). Behaviour of self compacting concrete using Portland pozzolana cement with different levels of fly ash. *Materials and Design*, *46*, 609–616. https://doi.org/10.1016/j.matdes.2012.11.015

Erfanimanesh, A., & Sharbatdar, M. K. (2020). Mechanical and microstructural characteristics of geopolymer paste, mortar, and concrete containing local zeolite and slag activated by sodium carbonate. *Journal of Building Engineering*, *32*(September), 101781. https://doi.org/10.1016/j.jobe.2020.101781

Feng, S., Xiao, H., Zhang, R., & Yang, C. (2020). Bond performance between substrate concrete and repair mortar: Effect of carbon fibre and expansive agent. *Construction and Building Materials*, *250*, 118830. https://doi.org/10.1016/j.conbuildmat.2020.118830

Gulo, W. (2002). Metodologi Penelitian. In Gramedia Widiasarana Indonesia.

Guo, M. Z., Ling, T. C., & Poon, C. S. (2021). Stress-strain behaviour of cement mortars containing recycled glass during and after exposure to elevated temperatures. *Cement and Concrete Composites*, *118*(February), 103970. https://doi.org/10.1016/j.cemconcomp.2021.103970

Guru Jawahar, J., Sashidhar, C., Ramana Reddy, I. V., & Annie Peter, J. (2013). Micro and macrolevel properties of fly ash blended self compacting concrete. *Materials and Design*, *46*, 696–705. https://doi.org/10.1016/j.matdes.2012.11.027

Hardani, Hikmatul, A. N., Ardiani, H., Fardani, R. A., Ustiawaty, J., Utami, E. F., Sukmana, D. J., & Istiqomah, R. R. (2020). *Metode Penelitian Kualitatif & Kuantitatif* (Issue March).

Ho, B. J., Tsoi, J. K. H., Liu, D., Lung, C. Y. K., Wong, H. M., & Matinlinna, J. P. (2015). Effects of sandblasting distance and angles on resin cement bonding to zirconia and titanium. *International Journal of Adhesion and Adhesives*, *62*, 25–31. https://doi.org/10.1016/j.ijadhadh.2015.06.009

Hussain, K., Butt, F., Alwetaishi, M., Waqas, R. M., Aslam, F., Ibraheem, M., Xulong, Z., Ahmad, N., Tufail, R. F., Musarat, M. A., & Hussein, E. E. (2021). Effect of quarry rock dust as a binder on the properties of fly ash and slag-based geopolymer concrete exposed to ambient and elevated temperatures. *Applied Sciences (Switzerland)*, *11*(19). https://doi.org/10.3390/app11199192

Ibrahim, A., Alang, A. H., Madi, Baharuddin, Muhammad Aswar Ahmad, & Darmawati. (2018). *Metodologi Penelitian* (I. Ismail (ed.); 1st ed.). Gunadarma Ilmu.

Ichtiakhiri, T. H., & Sudarmaji. (2015). Pengelolaan Limbah B3 dan Keluhan Kesehatan Pekerja di Pt. Inka (Persero) Kota Madiun B3 Waste Management and Health Workers Complaint In. Inka (Persero) Madiun City. *Jurnal Kesehatan Lingkungan*, *08*(1), 118–127.

IS 5816-1999. (1999). Indian standard Splitting tensile strength of concrete-method of test. *Bureau of Indian Standards*, 1–14.

Jain, A., Chaudhary, S., & Gupta, R. (2022). Mechanical and microstructural characterization of fly ash blended self-compacting concrete containing granite waste. *Construction and Building Materials*, *314*(PA), 125480. https://doi.org/10.1016/j.conbuildmat.2021.125480

Karimah, R., & Wahyudi, Y. (2016). Kajian Penggunaan Copper Slag sebagai Agregat Halus Beton. *Media Teknik Sipil*, *14*(2), 206–210. http://www.riss.kr/link?id=A60258377

Kementerian Lingkungan Hidup Kehutanan. (2018). Perizinan Air Limbah. *P.102/Menlhk/Setjen/Kum.1/11/2018*, 38.

Khan, A. A., Al Kheraif, A. A., Alhijji, S. M., & Matinlinna, J. P. (2016). Effect of grit-blasting air pressure on adhesion strength of resin to titanium. *International Journal of Adhesion and Adhesives*, *65*, 41–46. https://doi.org/10.1016/j.ijadhadh.2015.11.003

Kim, K., Shin, M., & Cha, S. (2013). Combined effects of recycled aggregate and fly ash towards concrete sustainability. *Construction and Building Materials*, *48*, 499–507. https://doi.org/10.1016/j.conbuildmat.2013.07.014

Li, J., Li, Y., Huang, M., Xiang, Y., & Liao, Y. (2018). Improvement of aluminum lithium alloy adhesion performance based on sandblasting techniques. *International Journal of Adhesion and Adhesives*, *84*(February), 307–316. https://doi.org/10.1016/j.ijadhadh.2018.04.007

Lori, A. R., Hassani, A., & Sedghi, R. (2019). Investigating the mechanical and hydraulic characteristics of pervious concrete containing copper slag as

coarse aggregate. *Construction and Building Materials*, *197*, 130–142. https://doi.org/10.1016/j.conbuildmat.2018.11.230

Madandoust, R., & Ghavidel, R. (2013). Mechanical properties of concrete containing waste glass powder and rice husk ash. *Biosystems Engineering*, *116*(2), 113–119. https://doi.org/10.1016/j.biosystemseng.2013.07.006

Madandoust, R., Ranjbar, M. M., Moghadam, H. A., & Mousavi, S. Y. (2011). Mechanical properties and durability assessment of rice husk ash concrete. *Biosystems Engineering*, *110*(2), 144–152. https://doi.org/10.1016/j.biosystemseng.2011.07.009

Majhi, R. K., Nayak, A. N., & Mukharjee, B. B. (2018). Development of sustainable concrete using recycled coarse aggregate and ground granulated blast furnace slag. *Construction and Building Materials*, *159*, 417–430. https://doi.org/10.1016/j.conbuildmat.2017.10.118

Mevia, F.M.A. (2021). Semen Mortar - Pengertian, Jenis, Fungsi, dan Keunggulan. (Online). Diakses dari https://wira.co.id (diakses 17 Desember 2021).

Millman, L. R., & Giancaspro, J. W. (2012). Environmental Evaluation of Abrasive Blasting with Sand, Water, and Dry Ice. *International Journal of Architecture, Engineering and Construction*, *1*(3), 174–182. https://doi.org/10.7492/ijaec.2012.019

Mithun, B. M., & Narasimhan, M. C. (2016). Performance of alkali activated slag concrete mixes incorporating copper slag as fine aggregate. *Journal of Cleaner Production*, *112*, 837–844. https://doi.org/10.1016/j.jclepro.2015.06.026

Molaei Raisi, E., Vaseghi Amiri, J., & Davoodi, M. R. (2018). Mechanical performance of self-compacting concrete incorporating rice husk ash. *Construction and Building Materials*, *177*, 148–157. https://doi.org/10.1016/j.conbuildmat.2018.05.053

Murari, K., Siddique, R., & Jain, K. K. (2015). Use of waste copper slag, a

sustainable material. *Journal of Material Cycles and Waste Management*, *17*(1), 13–26. https://doi.org/10.1007/s10163-014-0254-x

Nasiru, S., Jiang, L., Yu, L., Chu, H., Huang, Y., Pei, C., Gu, Y., Jin, W., Eyram Klu, E., & Guo, M. Z. (2021). Properties of cement mortar containing recycled glass and rice husk ash. *Construction and Building Materials*, *299*, 123900. https://doi.org/10.1016/j.conbuildmat.2021.123900

Nuaklong, P., Sata, V., & Chindaprasirt, P. (2016). Influence of recycled aggregate on fly ash geopolymer concrete properties. *Journal of Cleaner Production*, *112*, 2300–2307. https://doi.org/10.1016/j.jclepro.2015.10.109

Nuaklong, P., Sata, V., & Chindaprasirt, P. (2018). Properties of metakaolin-high calcium fly ash geopolymer concrete containing recycled aggregate from crushed concrete specimens. *Construction and Building Materials*, *161*, 365–373. https://doi.org/10.1016/j.conbuildmat.2017.11.152

Nuaklong, P., Wongsa, A., Boonserm, K., Ngohpok, C., Jongvivatsakul, P., Sata, V., Sukontasukkul, P., & Chindaprasirt, P. (2021). Enhancement of mechanical properties of fly ash geopolymer containing fine recycled concrete aggregate with micro carbon fiber. *Journal of Building Engineering*, *41*(November 2020), 102403. https://doi.org/10.1016/j.jobe.2021.102403

Nuryadi, Astuti, T. D., Utami, E. S., & Budiantara, M. (2017). *Buku ajar dasar-dasar statistik penelitian*.

Pemerintah Republik Indonesia. (2021). *Lampiran IX Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021*. *9*. https://peraturan.bpk.go.id/Home/Details/161852/pp-no-22-tahun-2021

Pemerintah RI. (2021). *Peraturan Pemerintah Nomor 28 Tahun 2021 Tentang Penyelenggaraan Bidang Perindustrian*. *083746 A*.

Pokhrel, D., & Viraraghavan, T. (2004). Treatment of pulp and paper mill wastewater - A review. *Science of the Total Environment*, *333*(1–3), 37–58. https://doi.org/10.1016/j.scitotenv.2004.05.017

Presiden Republik Indonesia. (1999). Peraturan Pemerintah Republik Indonesia Nomor 18 Tahun 1999 Tentang Pengelolaan Limbah Bahan Berbahaya Dan Beracun. *Government Regulation No. 27*, *18*, 2/65. http://ditlin.tanamanpangan.pertanian.go.id/assets/front/uploads/document/pp_85_1999.pdf

Qomariah, Q., Sugiharti, S., & Riyanto, S. (2020). The utilization of sandblasting sand waste for mortar and normal concrete. *IOP Conference Series: Materials Science and Engineering*, *732*(1). https://doi.org/10.1088/1757-899X/732/1/012036

Qureshi, L. A., Ali, B., & Ali, A. (2020). Combined effects of supplementary cementitious materials (silica fume, GGBS, fly ash and rice husk ash) and steel fiber on the hardened properties of recycled aggregate concrete. *Construction and Building Materials*, *263*(2020), 120636. https://doi.org/10.1016/j.conbuildmat.2020.120636

Ramakrishnan, K., Pugazhmani, G., Sripragadeesh, R., Muthu, D., & Venkatasubramanian, C. (2017). Experimental study on the mechanical and durability properties of concrete with waste glass powder and ground granulated blast furnace slag as supplementary cementitious materials. *Construction and Building Materials*, *156*, 739–749. https://doi.org/10.1016/j.conbuildmat.2017.08.183

Rao, S. K., Sravana, P., & Rao, T. C. (2016). Abrasion resistance and mechanical properties of Roller Compacted Concrete with GGBS. *Construction and Building Materials*, *114*, 925–933. https://doi.org/10.1016/j.conbuildmat.2016.04.004

Sharifi, Y., Afshoon, I., Asad-Abadi, S., & Aslani, F. (2020). Environmental protection by using waste copper slag as a coarse aggregate in self-compacting concrete. *Journal of Environmental Management*, *271*(July), 111013. https://doi.org/10.1016/j.jenvman.2020.111013

Sharma, R., & Khan, R. A. (2018). Influence of copper slag and metakaolin on the

durability of self compacting concrete. *Journal of Cleaner Production*, *171*, 1171–1186. https://doi.org/10.1016/j.jclepro.2017.10.029

Siddique, R., Aggarwal, P., & Aggarwal, Y. (2012). Influence of water/powder ratio on strength properties of self-compacting concrete containing coal fly ash and bottom ash. *Construction and Building Materials*, *29*, 73–81. https://doi.org/10.1016/j.conbuildmat.2011.10.035

Singh, G., & Siddique, R. (2016). Strength properties and micro-structural analysis of self-compacting concrete made with iron slag as partial replacement of fine aggregates. *Construction and Building Materials*, *127*, 144–152. https://doi.org/10.1016/j.conbuildmat.2016.09.154

Subekti, S. (2010). *Pengelolaan Sampah Rumah Tangga 3R Berbasis Masyarakat*. 24–30. https://doi.org/10.1109/GLOCOM.2009.5426153

Sugiyono. (2007). *Statistika untuk Penelitian* (E. Mulyatiningsih (ed.)). Alfabeta Bandung.

Sukandar, & Wildaniand, N. (2010). Studi Awal Pemanfaatan Limbah Sandblasting sebagai Koagulan. *Teknik Lingkungan*, *16*(1), 93–102.

Tironi, A., Trezza, M. A., Scian, A. N., & Irassar, E. F. (2013). Assessment of pozzolanic activity of different calcined clays. *Cement and Concrete Composites*, *37*(1), 319–327. https://doi.org/10.1016/j.cemconcomp.2013.01.002

Vijayaraghavan, J., Jude, A. B., & Thivya, J. (2017). Effect of copper slag, iron slag and recycled concrete aggregate on the mechanical properties of concrete. *Resources Policy*, *53*(June), 219–225. https://doi.org/10.1016/j.resourpol.2017.06.012

W.Creswell, J. (2010). *Research Design: Pendekatan Kualitatif,Kuantitatif,Dan Mixed*. 175–176.

Walidin, W., Saifullah, & Tabrani. (2015). *Metode Penelitian Kualitatif & Grounded Theory* (Masbur (ed.); 1st ed.). FTK Ar-Raniry Press.

Wang, H. L., Wang, J. J., Sun, X. Y., & Jin, W. L. (2013). Improving performance of recycled aggregate concrete with superfine pozzolanic powders. *Journal of Central South University*, *20*(12), 3715–3722. https://doi.org/10.1007/s11771-013-1899-7

Wang, L., Jin, M., Guo, F., Wang, Y. A. N., & Tang, S. (2021). Pore structural and fractal analysis of the influence of fly ash and silica fume on the mechanical property and abrasion resistance of concrete. *Fractals*, *29*(2), 1–18. https://doi.org/10.1142/S0218348X2140003X

Weng, C. H., Lin, Y. T., Yuan, C., & Lin, Y. H. (2013). Dewatering of bio-sludge from industrial wastewater plant using an electrokinetic-assisted process: Effects of electrical gradient. *Separation and Purification Technology*, *117*, 35–40. https://doi.org/10.1016/j.seppur.2013.06.013

Winchester, C. L., & Salji, M. (2016). Writing a literature review. *Journal of Clinical Urology*, *9*(5), 308–312. https://doi.org/10.1177/2051415816650133

Zhang, H., Wang, Y., He, Y., Xu, S., Hu, B., Cao, H., Zhou, J., & Zheng, G. (2021). Efficient and safe disposition of arsenic by incorporation in smelting slag through copper flash smelting process. *Minerals Engineering*, *160*(October 2020), 106661. https://doi.org/10.1016/j.mineng.2020.106661

Zhao, H., Xu, X., Ke, F., Li, W., Feng, M., & Zhang, H. (2013). Nitrogen removal from wastewater plant secondary effluent in a compound natural treatment system. *Ecological Engineering*, *57*, 361–365. https://doi.org/10.1016/j.ecoleng.2013.04.026

Zulkarnain, I., Mohamad Kassim, N. A., Syakir, M. I., Rahman, A. A., Md Yusuff, M. S., Yusop, R. M., & Keat, N. O. (2021). Sustainability-based characteristics of abrasives in blasting industry. *Sustainability (Switzerland)*, *13*(15), 1–13. https://doi.org/10.3390/su13158130