

DAFTAR PUSTAKA

- Adha, J. P., Rimandhina, R., Robiansyah, & Safaruddin. (2022). Analisa Pengaruh Menirial Klinker terhadap Kuat Tekan Semen untuk Mendapatkan Proposi Bahan Baku Portland Composite Cement (PCC) dengan Penurunan Faktor Klinker. *Applicable Innovation of Engineering and Science Research (AVoER)*, 14(1), 151–158.
- Adi Putra, W., Olivia, M., & Saputra, E. (2020). Ketahanan Beton Semen Portland Composite Cement (PCC) di Lingkungan Gambut Kabupaten Bengkalis. *Jurnal Teknik*, 14(1), 27–34. <https://doi.org/10.31849/teknik.v14i1.3882>
- Al-Luhybi, A. S., & Qader, D. N. (2021). Mechanical Properties of Concrete with Recycled Plastic Waste. *Civil and Environmental Engineering*, 17(2), 629–643. <https://doi.org/10.2478/cee-2021-0063>
- Alós Shepherd, D., & Dehn, F. (2023). Experimental Study into the Mechanical Properties of Plastic Concrete: Compressive Strength Development over Time, Tensile Strength and Elastic Modulus. *Case Studies in Construction Materials*, 19, e02521. <https://doi.org/10.1016/j.cscm.2023.e02521>
- Alrshoudi, F., Abdus Samad, U., & Alothman, O. Y. (2022). Evaluation of the Effect of Recycled Polypropylene as Fine Aggregate Replacement on the Strength Performance and Chloride Penetration of Mortars. *Polymers*, 14(14), 2806. <https://doi.org/10.3390/polym14142806>
- Alsabri, A., & Al-Ghamdi, S. G. (2020). Carbon footprint and embodied energy of PVC, PE, and PP piping: Perspective on environmental performance. *Energy Reports*, 6, 364–370. <https://doi.org/10.1016/j.egyr.2020.11.173>
- Amin, M., Agwa, I. S., Mashaan, N., Mahmood, S., & Abd-Elrahman, M. H. (2023). Investigation of the Physical Mechanical Properties and Durability of Sustainable Ultra-High Performance Concrete with Recycled Waste Glass. *Sustainability*, 15(4), 3085. <https://doi.org/10.3390/su15043085>
- Amran, Y., Permana, A. W., & Kurniawan, S. (2024). Pemanfaatan Limbah Plastik Jenis Polypropylene sebagai Bahan Utama Paving Block Plastis dengan Campuran Arang Sekam Padi Mengacu pada SNI 03-0691-1996. *TAPAK (Teknologi Aplikasi Konstruksi) : Jurnal Program Studi Teknik Sipil*, 13(2), 97–109. <https://doi.org/10.24127/tp.v13i2.3398>

- ASTM C128/C128M. (2001). Standard Test Method for Density , Relative Density (Specific Gravity), and Absorption. *ASTM International*, 1–6. www.astm.org, or
- ASTM C129-06. (2006). Specification for Nonloadbearing Concrete Masonry Units. In *ASTM International*. ASTM International. <http://www.astm.org/cgi-bin/resolver.cgi?C129-06>
- ASTM C140-08. (2008). Standard test methods for Sampling and Testing Concrete Masonry Units and Related Units. *ASTM International*, 1–18.
- ASTM C33/ C33M. (2008). Standard specification for concrete aggregates, ASTM C 33-86. *Annual Book of ASTM Standards*, 11.
- ASTM C595-03. (2003). Standard Specification for Blended Hydraulic Cements. *ASTM International*, 1–6.
- ASTM C642-97. (1997). Standard Test Method for Density, Absorption, and Voids in Hardened Concrete C642-97. *ASTM International, March*, 1–3.
- Bao, W., Yin, Y., Mi, W., Chen, R., & Lin, X. (2024). Durability and microstructural evolution of high-performance ecological geopolymer concrete under low-pressure–salt-erosion–freeze–thaw cycling conditions. *Construction and Building Materials*, 426, 136197. <https://doi.org/10.1016/j.conbuildmat.2024.136197>
- Cahyani, R. A. T., Setyono, E., & Rusdianto, Y. (2020). Performa Beton Dengan Ground Granulated Blast Furnace Slag Terhadap Sulfate Attack. *Jurnal Rekayasa Sipil (JRS-Unand)*, 16(3), 185–193. <https://doi.org/10.25077/jrs.16.3.185-193.2020>
- Castillo, E. del R., Almesfer, N., Saggi, O., & Ingham, J. M. (2020). Light-weight concrete with artificial aggregate manufactured from plastic waste. *Construction and Building Materials*, 265, 120199. <https://doi.org/10.1016/j.conbuildmat.2020.120199>
- Chunchu, B. R. K., & Putta, J. (2019). Effect of recycled plastic granules as a partial substitute for natural resource sand on the durability of SCC. *Resources*, 8(3), 133. <https://doi.org/10.3390/resources8030133>
- Da Silva, S. R., de Brito, J., & Andrade, J. J. de O. (2023). Synergic effect of recycled aggregate, fly ash, and hydrated lime in concrete production. *Journal*

- of *Building Engineering*, 70, 106370.
<https://doi.org/10.1016/j.jobe.2023.106370>
- Devi, D. S., Fauzi, M., Syafitri, B., & Laksono, A. (2023). Durabilitas Geopolymer Foam Concrete Terhadap Ketahanan Sulfat. *Jurnal Tekno Global*, 12(01), 24–29. <https://doi.org/10.36982/jtg.v12i01.3175>
- Eni, S. P. (2019). Memahami Relief-relief pada Candi-candi Kerajaan-kerajaan Kediri, Singasari dan Majapahit di Jawa Timur. *Jurnal SCALE*, 6(2), 69–93.
- Evrar, A., Akçaoğlu, T., Ramyar, K., & Çubukçuoğlu, B. (2020). Effects of waste electronic plastic and marble dust on hardened properties of high strength concrete. *Construction and Building Materials*, 263(2020). <https://doi.org/10.1016/j.conbuildmat.2020.120928>
- Fadugba, O. G., Adetukasi, A., & Dorcas, O. B. (2017). Evaluation of Sulphate Attack on Concrete. *Researcher*, 9(1), 47–52. <https://doi.org/10.7537/marsrsj090117.08>
- Firmansyah, A., Anisah, & Handoyo, S. S. (2022). Pengaruh Penggunaan Abu Daun Bambu Sebagai Pengganti Sebagian Semen Terhadap Kuat Tekan Beton Sebagai Pendukung Bahan Ajar Mata Kuliah Teknologi Beton. *Menara: Jurnal Teknik Sipil*, 17(1), 9–17. <https://doi.org/10.21009/jmenara.v17i1.23911>
- Gencel, O., Bilir, T., Bademler, Z., & Ozbakkaloglu, T. (2022). A Detailed Review on Foam Concrete Composites: Ingredients, Properties, and Microstructure. *Applied Sciences*, 12(11), 5752. <https://doi.org/10.3390/app12115752>
- Golewski, G. L. (2022). The Role of Pozzolanic Activity of Siliceous Fly Ash in the Formation of the Structure of Sustainable Cementitious Composites. *Sustainable Chemistry*, 3(4), 520–534. <https://doi.org/10.3390/suschem3040032>
- Hadi, S. (2020). Analisis Jenis Pasir Terhadap Kuat Tekan Beton. *Jurnal Kacapuri : Jurnal Keilmuan Teknik Sipil*, 3(2), 146. <https://doi.org/10.31602/jk.v3i2.4075>
- Hama, S. M. (2020). Behavior of concrete incorporating waste plastic as fine aggregate subjected to compression, impact load and bond resistance. *European Journal of Environmental and Civil Engineering*, 26(8), 3372–3386. <https://doi.org/10.1080/19648189.2020.1798287>

- Haufe, J., & Vollpracht, A. (2019). Tensile strength of concrete exposed to sulfate attack. *Cement and Concrete Research*, 116, 81–88. <https://doi.org/10.1016/j.cemconres.2018.11.005>
- Haufe, J., Vollpracht, A., & Matschei, T. (2021). Performance test for sulfate resistance of concrete by tensile strength measurements: Determination of test criteria. *Crystals*, 11(9), 1–20. <https://doi.org/10.3390/cryst11091018>
- Huang, Q., Zhu, X., Liu, D., Zhao, L., & Zhao, M. (2021). Modification of water absorption and pore structure of high-volume fly ash cement pastes by incorporating nanosilica. *Journal of Building Engineering*, 33, 101638. <https://doi.org/10.1016/j.jobbe.2020.101638>
- Huang, S., Wang, H., Ahmad, W., Ahmad, A., Ivanovich Vatin, N., Mohamed, A. M., Deifalla, A. F., & Mehmood, I. (2022). Plastic Waste Management Strategies and Their Environmental Aspects: A Scientometric Analysis and Comprehensive Review. *International Journal of Environmental Research and Public Health*, 19(8), 4556. <https://doi.org/10.3390/ijerph19084556>
- Ibrahim, K. I. M. (2021). Recycled waste glass powder as a partial replacement of cement in concrete containing silica fume and fly ash. *Case Studies in Construction Materials*, 15(July), e00630. <https://doi.org/10.1016/j.cscm.2021.e00630>
- Idris, M., & Ibrahim, A. (2020). Studi Eksperimental Pengaruh Penggunaan Semen Pcc Dan Opc Tipe I Terhadap Kuat Tekan Beton. *Bidang Ilmu Teknik Sipil & Keairan, Transportasi & Mitigasi Bencana*, 15, 160–165.
- Indah, K., Dan, S., & Bima Nusa, A. (2019). Pemanfaatan Limbah Plastik Hdpe (High Density Polythylene) Sebagai Bahan Pembuatan Paving Block. *Cetak) Buletin Utama Teknik*, 15(1), 1410–4520. <https://jurnal.uisu.ac.id/index.php/but/article/view/1869>
- Indonesia, M. L. H. dan K. R. (2018). *Peraturan Menteri Lingkungan Hidup Dan Kehutanan Republik Indonesia Nomor P.10/Menlhk/Setjen/Plb.0/4/2018 Tentang Pedoman Penyusunan Kebijakan Dan Strategi Daerah Pengelolaan Sampah Rumah Tangga Dan Sampah Sejenis Sampah Rumah Tangga*. 1–34.
- Islam, M. J., & Shahjalal, M. (2021). Effect of polypropylene plastic on concrete properties as a partial replacement of stone and brick aggregate. *Case Studies*

- in *Construction Materials*, 15(June), e00627.
<https://doi.org/10.1016/j.cscm.2021.e00627>
- Kang, G., Kim, Y., & Kang, J. (2023). Predictive strength model of cement-treated fine-grained soils using key parameters: Consideration of the total water/cement and soil/cement ratios. *Case Studies in Construction Materials*, 18, e02069. <https://doi.org/10.1016/j.cscm.2023.e02069>
- Karyasa, I. W. (2016). Mempelajari Fenomena Absorpsi-Desorpsi Air Dari Batu Cadas Abasan di Wilayah Sangsit Buleleng. *Prosiding Seminar Nasional MIPA*, 1(1), 350–355.
- Kim, Y.-Y., Lee, K.-M., Bang, J.-W., & Kwon, S.-J. (2014). Effect of W/C Ratio on Durability and Porosity in Cement Mortar with Constant Cement Amount. *Advances in Materials Science and Engineering*, 2014, 1–11. <https://doi.org/10.1155/2014/273460>
- Lee, H., Hanif, A., Usman, M., Sim, J., & Oh, H. (2018). Performance evaluation of concrete incorporating glass powder and glass sludge wastes as supplementary cementing material. *Journal of Cleaner Production*, 170, 683–693. <https://doi.org/10.1016/j.jclepro.2017.09.133>
- Liao, J., Wang, Y., Sun, X., & Wang, Y. (2024). Chloride Penetration of Surface-Coated Concrete: Review and Outlook. *Materials*, 17(16), 4121. <https://doi.org/10.3390/ma17164121>
- Liu, C., Su, X., Wu, Y., Zheng, Z., Yang, B., Luo, Y., Yang, J., & Yang, J. (2021). Effect of nano-silica as cementitious materials-reducing admixtures on the workability, mechanical properties and durability of concrete. *Nanotechnology Reviews*, 10(1), 1395–1409. <https://doi.org/10.1515/ntrev-2021-0097>
- Liu, J., Li, W., Zhang, F., Zhang, X., Chen, L., & Liu, Y. (2019). Optimization and Hydration Mechanism of Composite Cementing Material for Paste Filling in Coal Mines. *Advances in Materials Science and Engineering*, 2019, 1–13. <https://doi.org/10.1155/2019/3732160>
- Liu, P., Chen, Y., Yu, Z., & Lu, Z. (2019). Effect of sulfate solution concentration on the deterioration mechanism and physical properties of concrete. *Construction and Building Materials*, 227, 116641.

- <https://doi.org/10.1016/j.conbuildmat.2019.08.022>
- Luhar, S., Chaudhary, S., & Luhar, I. (2019). Development of rubberized geopolymer concrete: Strength and durability studies. *Construction and Building Materials*, 204, 740–753. <https://doi.org/10.1016/j.conbuildmat.2019.01.185>
- Ma, Q., Yang, W., Duan, Z., Liu, H., Hua, M., & Deng, Q. (2022). Influence of Alkali-Activators on Acid Rain Resistance of Geopolymer-Recycled Pervious Concrete with Optimal Pore Size. *Materials*, 15(23), 8368. <https://doi.org/10.3390/ma15238368>
- Mahmoodian, M., & Alani, A. M. (2017). Effect of Temperature and Acidity of Sulfuric Acid on Concrete Properties. *Journal of Materials in Civil Engineering*, 29(10), 1–6. [https://doi.org/10.1061/\(asce\)mt.1943-5533.0002002](https://doi.org/10.1061/(asce)mt.1943-5533.0002002)
- Mehta, A., & Ashish, D. K. (2020). Silica fume and waste glass in cement concrete production: A review. *Journal of Building Engineering*, 29(July), 100888. <https://doi.org/10.1016/j.jobbe.2019.100888>
- Melinda, A. P., Juliafad, E., & Yusmar, F. (2020). Pemanfaatan Serat Polypropylene untuk Meningkatkan Kuat Tekan Mortar dan Kuat Tekan Pasangan Bata. *Cived*, 7(3), 176. <https://doi.org/10.24036/cived.v7i3.111906>
- Melinda, S., Dapas, S. O., & Sumajouw, M. D. J. (2020). Studi Eksperimental Pengujian Kuat Tekan Beton Menggunakan Kapur Dan Batu Apung Sebagai Bahan Pengganti Sebagian Semen. *Jurnal Sipil Statik*, 8(5), 671–678.
- Mildawati, R., Dewi, S. H., & Syefringga, F. (2022). Jurnal Teknik Sipil Unaya Pengaruh Penambahan Limbah Plastik Sebagai Campuran. *Jurnal Teknik Sipil Unaya*, 8(1), 86–97.
- Moelich, G. M., Kruger, P. J., & Combrinck, R. (2022). A plastic shrinkage cracking risk model for 3D printed concrete exposed to different environments. *Cement and Concrete Composites*, 130, 104516. <https://doi.org/10.1016/j.cemconcomp.2022.104516>
- Mohammadhosseini, H., Alrshoudi, F., Tahir, M. M., Alyousef, R., Alghamdi, H., Alharbi, Y. R., & Alsaif, A. (2020). Durability and thermal properties of prepacked aggregate concrete reinforced with waste polypropylene fibers.

- Journal of Building Engineering*, 32, 101723.
<https://doi.org/10.1016/j.job.2020.101723>
- Mohanan, N., Montazer, Z., Sharma, P. K., & Levin, D. B. (2020). Microbial and Enzymatic Degradation of Synthetic Plastics. *Frontiers in Microbiology*, 11.
<https://doi.org/10.3389/fmicb.2020.580709>
- Mora, E., González, G., Romero, P., & Castellón, E. (2019). Control of water absorption in concrete materials by modification with hybrid hydrophobic silica particles. *Construction and Building Materials*, 221, 210–218.
<https://doi.org/10.1016/j.conbuildmat.2019.06.086>
- Mousavinezhad, S., Garcia, J. M., Toledo, W. K., & Newton, C. M. (2023). A Locally Available Natural Pozzolan as a Supplementary Cementitious Material in Portland Cement Concrete. *Buildings*, 13(9), 2364.
<https://doi.org/10.3390/buildings13092364>
- Oddo, M. C., Cavaleri, L., La Mendola, L., & Bilal, H. (2024). Integrating Plastic Waste into Concrete: Sustainable Solutions for the Environment. *Materials*, 17(14), 3408. <https://doi.org/10.3390/ma17143408>
- Özkan, İ. G. M., Aldemir, K., Alhasan, O., Benli, A., Bayraktar, O. Y., Yılmazoğlu, M. U., & Kaplan, G. (2024). Investigation on the sustainable use of different sizes of sawdust aggregates in eco-friendly foam concretes: Physico-mechanical, thermal insulation and durability characteristics. *Construction and Building Materials*, 438, 137100.
<https://doi.org/10.1016/j.conbuildmat.2024.137100>
- Pandey, A., & Kumar, B. (2020). Investigation on the effects of acidic environment and accelerated carbonation on concrete admixed with rice straw ash and microsilica. *Journal of Building Engineering*, 29(December 2019), 101125.
<https://doi.org/10.1016/j.job.2019.101125>
- Periyasamy, D., Manoharan, B., Arockiasamy, F. S., Aravind, D., Senthilkumar, K., Rajini, N., Muhammed, F. F., & Al-Lohedan, H. A. (2023). Exploring the recycling potential of HDPE films reinforced with flax fiber for making sustainable decorative tiles. *Journal of Materials Research and Technology*, 25, 2049–2060. <https://doi.org/10.1016/j.jmrt.2023.06.067>
- Prasetyo, R. A., Rakhmawati, A., Murtopo, A., Sipil, J. T., Teknik, F., Tidar, U.,

- Utara, M., Struktur, L., Teknik, J., & Teknik, F. (2022). Analisis penggunaan pasir merapi sebagai pengisi bata interlock ringan ditinjau dari diameter butiran. *Seminar Nasional Riset Teknologi Terapan*, 3(1).
- Putra, F. C., Tamrin, A. ., & Rahmawati, K. (2023). Pengaruh Penggantian Sebagian Agregat Halus dengan Limbah Plastik Terhadap Berat Jenis, Kuat Tekan dan Nilai Ekonomis pada Bata Ringan. *Indonesian Journal Of Civil Engineering Education*, 9(2), 74. <https://doi.org/10.20961/ijcee.v9i2.83608>
- Putri, A. A., & Herlina, L. (2021). Pengaruh Kuat Tekan Beton Geopolimer Mutu Tinggi Menggunakan Fly Ash Tipe C. *Prosiding Seminar Intelektual Muda*, 3(1), 484–487. <https://doi.org/10.25105/psia.v3i1.13094>
- Qaidi, S., Al-Kamaki, Y., Hakeem, I., Dulaimi, A. F., Özkılıç, Y., Sabri, M., & Sergeev, V. (2023). Investigation of the physical-mechanical properties and durability of high-strength concrete with recycled PET as a partial replacement for fine aggregates. *Frontiers in Materials*, 10(January), 1–17. <https://doi.org/10.3389/fmats.2023.1101146>
- Rahmawati, C., Amin, A., Dini Meutia, P., Meliyana, Zardi, M., Syahputra, I., Sriana, T., Dwi Putri, L., & Khalis, M. (2022). Pengenalan dan Pemanfaatan Limbah Kaca Menjadi Produk Bernilai. *Dinamisia : Jurnal Pengabdian Kepada Masyarakat*, 6(5), 1379–1386. <https://doi.org/10.31849/dinamisia.v6i5.11256>
- Ren, J., & Lai, Y. (2021). Study on the durability and failure mechanism of concrete modified with nanoparticles and polypropylene fiber under freeze-thaw cycles and sulfate attack. *Cold Regions Science and Technology*, 188, 103301. <https://doi.org/10.1016/j.coldregions.2021.103301>
- Rori, N. E. T., Wallah, S. E., & Handono, B. D. (2022). Pengaruh Perawatan Pada Elevated Temperature Terhadap Kuat Tekan Beton Dengan Serbuk Kaca Sebagai Substitusi Parsial Semen. *TEKNO*, 20(80), 57–65. <https://ejournal.unsrat.ac.id/>
- Rosyidi, D. H., Sulton, M., & Risdanareni, P. (2024). Durabilitas beton yang mengandung agregat ringan buatan berbahan dasar abu terbang (fly ash). *PADURAKSA: Jurnal Teknik Sipil Universitas Warmadewa*, 13(1), 11–17. <https://doi.org/10.22225/pd.13.1.7966.11-17>

- Salain, I. M. A. K. (2021). Effect of water/cement and aggregate/cement ratios on consistency and compressive strength of concrete using volcanic stone waste as aggregates. *Civil Engineering and Architecture*, 9(6), 1900–1908. <https://doi.org/10.13189/cea.2021.090621>
- Sastrawidana, I. D. K., & Sukarta, I. N. (2024). Precast lightweight concrete wall panels from plastic waste and household ash as partially sand and cement replacement. *Archives of Materials Science and Engineering*, 125(1), 22–31. <https://doi.org/10.5604/01.3001.0054.4732>
- Sastrawidana, I. D. K., Sukarta, I. N., Saraswati, L. P. A., Maryam, S., & Putra, G. A. (2022). Plastic waste reinforced with inorganic pigment from red stone in manufacturing paving block for pedestrian application. *Journal of Achievements in Materials and Manufacturing Engineering*, 110(2), 49–58. <https://doi.org/10.5604/01.3001.0015.7042>
- Sheng, Z., Wang, Y., & Huang, D. (2022). A Promising Mortar Produced with Seawater and Sea Sand. *Materials*, 15(17), 6123. <https://doi.org/10.3390/ma15176123>
- Shi, M., Yin, G., Zhang, W., Wei, P., Yang, Z., & Zhang, J. (2024). Study on Key Parameters and Design Methods for the Density-Mix Proportion of Rubber-Foamed Concrete. *Buildings*, 14(8), 2468. <https://doi.org/10.3390/buildings14082468>
- Singh, R. (2020). Understanding the role of hydration water and nano C-S-H colloids in concrete. In *Smart Nanoconcretes and Cement-Based Materials* (hal. 157–182). Elsevier. <https://doi.org/10.1016/B978-0-12-817854-6.00006-4>
- Singh, S. B., Munjal, P., & Thammishetti, N. (2015). Role of water/cement ratio on strength development of cement mortar. *Journal of Building Engineering*, 4, 94–100. <https://doi.org/10.1016/j.job.2015.09.003>
- Sofyan, M., Ournama, D. D., Kustanrika, I. W., Kisansti, R. M., & Suro, S. M. (2021). Kekuatan Awal, Workability dan Berat Volume Beton berbahan Agregat Plastik Polypropylene. *Kilat*, 10(2), 301–308. <https://doi.org/10.33322/kilat.v10i2.1484>
- Suharto, S., Amin, M., Al Muttaqii, M., Marjunus, R., Fitri, N., & Suhartono, S.

- (2021). Analysis of Fine Glass Waste Addition as a Filler Material for Sand Substitution on the Properties of Mortar Products. *Teknik*, 42(1), 309–315. <https://doi.org/10.14710/teknik.v42i3.32686>
- Toro, E. M. G. Del, Alcala-Gonzalez, D., Más-Lópe, M. I., García-Salgado, S., & Pindado, S. (2021). Use of ecofriendly glass powder concrete in construction of wind farms. *Applied Sciences (Switzerland)*, 11(7). <https://doi.org/10.3390/app11073050>
- Tulus, A. (2023). Kajian Makna Bentuk pada Relief-relief Dinding di Taman Kota Temohon. *KOMPETENSI: Jurnal Ilmiah Bahasa dan Seni KAJIAN*, 3(03), 2064–2082. <https://doi.org/10.53682/kompetensi.v3i03.6068>
- Umasabor, R., & Longe, O. A. (2024). The Effects of Polypropylene Wastes on the Compressive Strength of Grade 25 Concrete. *Qeios*. <https://doi.org/10.32388/FRVQ71.2>
- Utami, G. S., Alvin, S., Wardani, M. K., Choiriyah, S., & MCA, T. (2023). Pengaruh Pemeraman dan Persentase Abu Sekam Padi pada Stabilisasi Lempung Ekspansif terhadap Indeks Plastisitas dan Nilai CBR. *Jurnal Kacapuri: Jurnal Keilmuan Teknik Sipil*, 6(1), 1–10. <https://doi.org/10.31602/jk.v6i1.10194>
- Wang, C., & Song, M. (2021). Influence of Water-Cement Ratio and Type of Mixing Water on the Early Hydration Performance of Calcium Sulphoaluminate (CSA) Cement. *Advances in Materials Science and Engineering*, 2021(1). <https://doi.org/10.1155/2021/5557763>
- Wang, J., Yang, Y., Chu, J., Mo, K. H., & Yap, P. (2023). Recent developments in utilization of nano silica in self-compacting concrete: A review. *Structural Concrete*, 24(6), 7524–7548. <https://doi.org/10.1002/suco.202201054>
- Wang, X., Gong, C., Lei, J., Dai, J., Lu, L., & Cheng, X. (2021). Effect of silica fume and nano-silica on hydration behavior and mechanism of high sulfate resistance Portland cement. *Construction and Building Materials*, 279, 122481. <https://doi.org/10.1016/j.conbuildmat.2021.122481>
- Wang, Y., Cao, Y., Zhang, P., Ma, Y., Zhao, T., Wang, H., & Zhang, Z. (2019). Water absorption and chloride diffusivity of concrete under the coupling effect of uniaxial compressive load and freeze–thaw cycles. *Construction and*

- Xiong, B., Falliano, D., Restuccia, L., Di Trapani, F., Demartino, C., & Marano, G. C. (2023). High-strain rate compressive behavior of concrete with two different substituted recycled plastic aggregates: Experimental characterization and probabilistic modeling. *Construction and Building Materials*, 368, 130279. <https://doi.org/10.1016/j.conbuildmat.2022.130279>
- Yang, L., Liu, G., Gao, D., & Zhang, C. (2021). Experimental study on water absorption of unsaturated concrete: w/c ratio, coarse aggregate and saturation degree. *Construction and Building Materials*, 272, 121945. <https://doi.org/10.1016/j.conbuildmat.2020.121945>
- Záleská, M., Pavlíková, M., Pokorný, J., Jankovský, O., Pavlík, Z., & Černý, R. (2018). Structural, mechanical and hygrothermal properties of lightweight concrete based on the application of waste plastics. *Construction and Building Materials*, 180, 1–11. <https://doi.org/10.1016/j.conbuildmat.2018.05.250>
- Zhang, Q., Kang, Z., Ling, Y., Chen, H., & Li, K. (2020). Influence of Temperature on the Moisture Transport in Concrete. *Crystals*, 11(1), 8. <https://doi.org/10.3390/cryst11010008>
- Zhongya, Z., Xiaoguang, J., & Wei, L. (2019). Long-term behaviors of concrete under low-concentration sulfate attack subjected to natural variation of environmental climate conditions. *Cement and Concrete Research*, 116(July 2018), 217–230. <https://doi.org/10.1016/j.cemconres.2018.11.017>