

## Journal Papers

1. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Predicting the Recovery and Non-Recovery Performance of Asphalt Binders Using Artificial Neural Networks. *Canadian Journal of Civil Engineering*, 2022. (Under review).
2. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Temperature and Aging Effects on the Rheological Properties and Performance of Geopolymer-Modified Asphalt Binder and Mixture. *Road Materials and Pavement Design*, 2022. (Under review).
3. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Evaluating the Effect of Glass Powder/Fly Ash-Based Geopolymer on the Rheological and Performance of Asphalt Binder. *International journal of Pavement Engineering*, 2022. (Under review).
4. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Rutting Behaviour of Geopolymer and Styrene Butadiene Styrene-Modified Asphalt Binder. *Polymers Journal*, 2022, DOI: 10.3390/polym14142780.
5. Abdulrahman Hamid, Hamed Alfaidi, Hassan Baaj, and Mohab El-Hakim. Evaluating fly ash-based geopolymers as a modifier for asphalt binders. *Advances in Materials Science and Engineering*, 2020, DOI: 10.1155/2020/2398693.
6. Abdulrahman Hamid, Wagdi Hamid, and Ahmed Alnuaim. Factors Affecting Energy Pile Efficiency. *Soil Mechanics and Foundation Engineering*, 2021, DOI: 10.1007/s11204-021-09743-x.
7. Abdulrahman Hamid, Omar S.Baghabra Al-Amoudi, and Saad A. Aiban. Assessing the Effect of Density and Water Level on the Degree of Compaction of Sand Using Dynamic Cone Penetration Test. *Arabian Journal for Science and Engineering*, 2018, DOI: 10.1007/s13369-018-3641-0.
8. Mohammed Salem and Abdulrahman Hamid. Stabilization/Solidification (S/S) Technique and Its Applications in Saudi Arabia. *International Journal of Environment and Sustainability*, 2016, DOI: 10.1007/s13369-018-3641-0.

## Chapters

1. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Predicting the potential impact of geopolymers on the creep recovery properties of asphalt binder. In *RILEM International Symposium on Bituminous Materials*, pages 1481–1487. Springer, 2020.
2. Omar S.Baghabra Al-Amoudi, Saad A. Aiban, and Abdulrahman Hamid. Usage of Dynamic Cone Penetration Test to Assess the Engineering Properties of Saudi Sands.

Proceedings of International Structural Engineering and Construction 2(1):36-42. In book: Implementing Innovative Ideas in Structural Engineering and Project Management. Publisher: ISEC Press. DOI: 10.14455/ISEC.res.2015.219.

3. Abdulrahman Hamid, Omar S.Baghabra Al-Amoudi, and Saad A. Aiban. Field Assessment of Dynamic Cone Penetration Test to Evaluate the Density of Saudi Sands. Proceedings of International Structural Engineering and Construction 2(1):43-48. In book: Implementing Innovative Ideas in Structural Engineering and Project Management. Publisher: ISEC Press. DOI: 10.14455/ISEC.res.2015.220.

### Conference Papers

1. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Effect of High Temperature on the Behavior of Geopolymer Modified Asphalt Binders. Transportation Association of Canada (TAC) Conference, Edmonton, AB, Canada., 2022.
2. Abdulrahman Hamid, Omar S.Baghabra Al-Amoudi, and Saad A. Aiban. استخدام اختبار الإختراق المخروطي الديناميكي لتقييم كثافة رمال المنطقة الشرقية من المملكة العربية السعودية. the 2nd International Engineering Conference and Exhibition (IECE)At: Riyadh, Saudi Arabia, 2020.
3. Abdulrahman Hamid, Hassan Baaj, and Mohab El-Hakim. Enhancing asphalt cement properties using geopolymer-based on fly ash and glass powder. In Laval, Canada, 7th CSCE International Specialty Conference on Engineering Mechanics and Materials, 2019.
4. Abdulrahman Hamid. Effect of Fine Material on Penetration Resistance. 2017 Canadian Society for Civil Engineering Conference. At: Vancouver, Canada, 2017.
5. Ammar M. Alshammari and Abdulrahman Hamid. Calcareous Sediment in Saudi Arabia: A Review of Marl Soil. 2nd International Conference on Architecture, Structure and Civil Engineering (ICASCE'16) At: London, 2016.
6. Abdulrahman Hamid. The Dynamic Cone Penetration Test: A Review of its Correlations and Applications. International Conference on Advances in Civil and Environmental Engineering. At: Malaysia, 2015