# Halil Ceylan

## List of Publications by Citations



| | | | |
|---|---|---|---|
| 165 papers | 2,255 citations | 26 h-index | 40 g-index |
| 186 ext. papers | 2,767 ext. citations | 3.5 avg, IF | 5.31 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 165 | Effects of crushed clay brick aggregate on mortar durability. *Construction and Building Materials*, **2009**, 23, 1909-1914 | 6.7 | 102 |
| 164 | A survey of health monitoring systems for wind turbines. *Renewable and Sustainable Energy Reviews*, **2015**, 52, 976-990 | 16.2 | 94 |
| 163 | Accuracy of Predictive Models for Dynamic Modulus of Hot-Mix Asphalt. *Journal of Materials in Civil Engineering*, **2009**, 21, 286-293 | 3 | 90 |
| 162 | Novel nanocomposite technologies for dynamic monitoring of structures: a comparison between cement-based embeddable and soft elastomeric surface sensors. *Smart Materials and Structures*, **2014**, 23, 045023 | 3.4 | 79 |
| 161 | Superhydrophobic coatings on Portland cement concrete surfaces. *Construction and Building Materials*, **2017**, 141, 393-401 | 6.7 | 66 |
| 160 | Evaluation of pavement life cycle cost analysis: Review and analysis. *International Journal of Pavement Research and Technology*, **2016**, 9, 241-254 | 2 | 62 |
| 159 | Carbon fiber-based electrically conductive concrete for salt-free deicing of pavements. *Journal of Cleaner Production*, **2018**, 203, 799-809 | 10.3 | 62 |
| 158 | Influence of mix design variables on engineering properties of carbon fiber-modified electrically conductive concrete. *Construction and Building Materials*, **2017**, 152, 168-181 | 6.7 | 54 |
| 157 | Backcalculation of full-depth asphalt pavement layer moduli considering nonlinear stress-dependent subgrade behavior. *International Journal of Pavement Engineering*, **2005**, 6, 171-182 | 2.6 | 54 |
| 156 | High-Resolution Patterning and Transferring of Graphene-Based Nanomaterials onto Tape toward Roll-to-Roll Production of Tape-Based Wearable Sensors. *Advanced Materials Technologies*, **2017**, 2, 1700223 | 6.8 | 50 |
| 155 | Influences of mixture composition on properties and freeze–thaw resistance of RCC. *Construction and Building Materials*, **2011**, 25, 313-319 | 6.7 | 50 |
| 154 | Dynamic Characterization of a Soft Elastomeric Capacitor for Structural Health Monitoring. *Journal of Structural Engineering*, **2015**, 141, 04014186 | 3 | 49 |
| 153 | Superhydrophobic Coatings on Asphalt Concrete Surfaces: Toward Smart Solutions for Winter Pavement Maintenance. *Transportation Research Record*, **2016**, 2551, 10-17 | 1.7 | 48 |
| 152 | Wearable Graphene Sensors With Microfluidic Liquid Metal Wiring for Structural Health Monitoring and Human Body Motion Sensing. *IEEE Sensors Journal*, **2016**, 16, 7870-7875 | 4 | 46 |
| 151 | Advanced approaches to hot-mix asphalt dynamic modulus prediction. *Canadian Journal of Civil Engineering*, **2008**, 35, 699-707 | 1.3 | 44 |
| 150 | Integrated fuzzy analytic hierarchy process and VIKOR method in the prioritization of pavement maintenance activities. *International Journal of Pavement Research and Technology*, **2016**, 9, 112-120 | 2 | 43 |
| 149 | Looking to the future: the next-generation hot mix asphalt dynamic modulus prediction models. *International Journal of Pavement Engineering*, **2009**, 10, 341-352 | 2.6 | 40 |

| | | | |
|---|---|---|---|
| 148 | Development of Carbon Fiber-modified Electrically Conductive Concrete for Implementation in Des Moines International Airport. *Case Studies in Construction Materials*, **2018**, 8, 277-291 | 2.7 | 38 |
| 147 | Soil Stabilization with Bioenergy Coproduct. *Transportation Research Record*, **2010**, 2186, 130-137 | 1.7 | 38 |
| 146 | Moisture Susceptibility of Subgrade Soils Stabilized by Lignin-Based Renewable Energy Coproduct. *Journal of Transportation Engineering*, **2012**, 138, 1283-1290 | | 32 |
| 145 | Electrically-conductive asphalt mastic: Temperature dependence and heating efficiency. *Materials and Design*, **2018**, 157, 303-313 | 8.1 | 31 |
| 144 | Neural Networks Modeling of Stress Growth in Asphalt Overlays due to Load and Thermal Effects during Reflection Cracking. *Journal of Materials in Civil Engineering*, **2011**, 23, 221-229 | 3 | 31 |
| 143 | Physicochemical and thermal analyses of polyurethane modified bitumen incorporated with Cecabase and Rediset: Optimization using response surface methodology. *Fuel*, **2019**, 254, 115662 | 7.1 | 30 |
| 142 | Determining the water damage resistance of nano-clay modified bitumens using the indirect tensile strength and surface free energy methods. *Construction and Building Materials*, **2018**, 167, 391-402 | 6.7 | 27 |
| 141 | Knowledge discovery and data mining in pavement inverse analysis. *Transport*, **2013**, 28, 1-10 | 1.4 | 27 |
| 140 | Electrically conductive asphalt concrete: An alternative for automating the winter maintenance operations of transportation infrastructure. *Composites Part B: Engineering*, **2019**, 173, 106985 | 10 | 26 |
| 139 | System Requirements for Electrically Conductive Concrete Heated Pavements. *Transportation Research Record*, **2016**, 2569, 70-79 | 1.7 | 26 |
| 138 | Effects of moisture damage on asphalt mixtures. *Journal of Traffic and Transportation Engineering (English Edition)*, **2020**, 7, 600-628 | 3.9 | 26 |
| 137 | Investigation on physical, thermal and chemical properties of palm kernel oil polyol bio-based binder as a replacement for bituminous binder. *Construction and Building Materials*, **2019**, 204, 122-131 | 6.7 | 25 |
| 136 | Sustainable Development Factors in Pavement Life-Cycle: Highway/Airport Review. *Sustainability*, **2016**, 8, 248 | 3.6 | 25 |
| 135 | Global Sensitivity Analysis of Mechanistic–Empirical Performance Predictions for Flexible Pavements. *Transportation Research Record*, **2013**, 2368, 12-23 | 1.7 | 24 |
| 134 | Tribological behavior and wettability of spray-coated superhydrophobic coatings on aluminum. *Wear*, **2017**, 376-377, 1713-1719 | 3.5 | 21 |
| 133 | Effect of Carbon-Fiber Properties on Volumetrics and Ohmic Heating of Electrically Conductive Asphalt Concrete. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019200 | 3 | 21 |
| 132 | Calibration of Pavement ME Design and Mechanistic-Empirical Pavement Design Guide Performance Prediction Models for Iowa Pavement Systems. *Journal of Transportation Engineering*, **2014**, 140, 04014052 | | 21 |
| 131 | Comparative study on using static and dynamic finite element models to develop FWD measurement on flexible pavement structures. *Construction and Building Materials*, **2018**, 176, 583-592 | 6.7 | 21 |

| | | | |
|---|---|---|---|
| 130 | Effect of M-E Design Guide Inputs on Flexible Pavement Performance Predictions. *Road Materials and Pavement Design*, **2007**, 8, 375-397 | 2.6 | 20 |
| 129 | HIGHWAY INFRASTRUCTURE HEALTH MONITORING USING MICRO-ELECTROMECHANICAL SENSORS AND SYSTEMS (MEMS). *Journal of Civil Engineering and Management*, **2014**, 19, S188-S201 | 3 | 19 |
| 128 | Sensitivity Analysis of Rigid Pavement Systems Using the Mechanistic-Empirical Design Guide Software. *Journal of Transportation Engineering*, **2009**, 135, 555-562 | | 19 |
| 127 | Assessment of soils stabilized with lignin-based byproducts. *Transportation Geotechnics*, **2018**, 17, 122-132 | 4 | 18 |
| 126 | Towards resilient infrastructure systems for winter weather events: Integrated stochastic economic evaluation of electrically conductive heated airfield pavements. *Sustainable Cities and Society*, **2018**, 41, 195-204 | 10.1 | 18 |
| 125 | Effect of Water-to-Binder Ratio, Air Content, and Type of Cementitious Materials on Fresh and Hardened Properties of Binary and Ternary Blended Concrete. *Journal of Materials in Civil Engineering*, **2014**, 26, 04014002 | 3 | 17 |
| 124 | Energy and thermal performance evaluation of an automated snow and ice removal system at airports using numerical modeling and field measurements. *Sustainable Cities and Society*, **2018**, 43, 238-250 | 10.1 | 17 |
| 123 | Investigation of the relationship between fluidity and adhesion strength of unmodified and modified bitumens using the pull-off test method. *Construction and Building Materials*, **2016**, 122, 140-148 | 6.7 | 16 |
| 122 | Capillary Transport in RCC: Water-to-Cement Ratio, Strength, and Freeze-Thaw Resistance. *Journal of Materials in Civil Engineering*, **2011**, 23, 1181-1191 | 3 | 16 |
| 121 | Comparative Performance of Ground Clay Brick in Mitigation of Alkali–Silica Reaction. *Journal of Materials in Civil Engineering*, **2007**, 19, 1070-1078 | 3 | 16 |
| 120 | Advanced Approaches to Characterizing Nonlinear Pavement System Responses. *Transportation Research Record*, **2007**, 2005, 86-94 | 1.7 | 16 |
| 119 | Determining the effects of aging on halloysite nano-tube modified binders through the pull-off test method. *Construction and Building Materials*, **2016**, 126, 245-252 | 6.7 | 16 |
| 118 | Design and Full-scale Implementation of the Largest Operational Electrically Conductive Concrete Heated Pavement System. *Construction and Building Materials*, **2020**, 255, 119229 | 6.7 | 15 |
| 117 | Neural Network-Based Approach for Analysis of Rigid Pavement Systems Using Deflection Data. *Transportation Research Record*, **2008**, 2068, 61-70 | 1.7 | 15 |
| 116 | Artificial Neural Networks for Analyzing Concrete Airfield Pavements Serving the Boeing B-777 Aircraft. *Transportation Research Record*, **1999**, 1684, 110-117 | 1.7 | 15 |
| 115 | Pavement stiffness measurements in relation to mechanical impedance. *Construction and Building Materials*, **2016**, 102, 455-461 | 6.7 | 12 |
| 114 | Comparison between cement paste and asphalt mastic modified by carbonaceous materials: Electrical and thermal properties. *Construction and Building Materials*, **2019**, 213, 121-130 | 6.7 | 11 |
| 113 | Helical-Shaped Graphene Tubular Spring Formed Within Microchannel for Wearable Strain Sensor With Wide Dynamic Range **2017**, 1, 1-4 | | 11 |

| | | | |
|---|---|---|---|
| 112 | Effect of Paste-to-Voids Volume Ratio on the Performance of Concrete Mixtures. *Journal of Materials in Civil Engineering*, **2013**, 25, 1840-1851 | 3 | 11 |
| 111 | Renewable biomass-derived lignin in transportation infrastructure strengthening applications. *International Journal of Sustainable Engineering*, **2013**, 6, 316-325 | 3.1 | 11 |
| 110 | Use of Pavement Management Information System for Verification of Mechanistic–Empirical Pavement Design Guide Performance Predictions. *Transportation Research Record*, **2010**, 2153, 30-39 | 1.7 | 11 |
| 109 | Airfield pavement deterioration assessment using stress-dependent neural network models. *Structure and Infrastructure Engineering*, **2009**, 5, 487-496 | 2.9 | 10 |
| 108 | Intelligent and Soft Computing in Infrastructure Systems Engineering. *Studies in Computational Intelligence*, **2009**, | 0.8 | 10 |
| 107 | Multi-objective Bayesian optimization of super hydrophobic coatings on asphalt concrete surfaces. *Journal of Computational Design and Engineering*, **2019**, 6, 693-704 | 4.6 | 10 |
| 106 | Design and Construction of the World's First Full-Scale Electrically Conductive Concrete Heated Airport Pavement System at a U.S. Airport. *Transportation Research Record*, **2018**, 2672, 82-94 | 1.7 | 10 |
| 105 | Polyurethane-carbon microfiber composite coating for electrical heating of concrete pavement surfaces. *Heliyon*, **2019**, 5, e02359 | 3.6 | 9 |
| 104 | Life cycle assessment of heated apron pavement system operations. *Transportation Research, Part D: Transport and Environment*, **2016**, 48, 316-331 | 6.4 | 9 |
| 103 | Fabrication of Polytetrafluoroethylene-Coated Asphalt Concrete Biomimetic Surfaces: A Nanomaterials-Based Pavement Winter Maintenance Approach **2016**, | | 8 |
| 102 | Sensitivity analysis frameworks for mechanistic-empirical pavement design of continuously reinforced concrete pavements. *Construction and Building Materials*, **2014**, 73, 498-508 | 6.7 | 8 |
| 101 | Global Sensitivity Analysis of Jointed Plain Concrete Pavement Mechanistic–Empirical Performance Predictions. *Transportation Research Record*, **2013**, 2367, 113-122 | 1.7 | 8 |
| 100 | Computationally efficient surrogate response models for mechanistic–empirical pavement analysis and design. *Structure and Infrastructure Engineering*, **2011**, 7, 297-306 | 2.9 | 8 |
| 99 | Local Sensitivity of Mechanistic-Empirical Flexible Pavement Performance Predictions to Unbound Material Property Inputs **2012**, | | 8 |
| 98 | Environmental Effects on Deformation and Smoothness Behavior of Early-Age Jointed Plain Concrete Pavements. *Transportation Research Record*, **2007**, 2037, 30-39 | 1.7 | 8 |
| 97 | Neural Networks Application in Pavement Infrastructure Materials. *Studies in Computational Intelligence*, **2009**, 47-66 | 0.8 | 8 |
| 96 | Integrated stochastic life cycle benefit cost analysis of hydronically-heated apron pavement system. *Journal of Cleaner Production*, **2019**, 224, 994-1003 | 10.3 | 8 |
| 95 | Impacts of Fractional Hot-Deck Imputation on Learning and Prediction of Engineering Data. *IEEE Transactions on Knowledge and Data Engineering*, **2020**, 32, 2363-2373 | 4.2 | 8 |

| | | | |
|---|---|---|---|
| 94 | Influence of Road Surface Characteristics on Tire-Road Noise for Thin-Layer Surfacings. *Journal of Transportation Engineering*, **2015**, 141, 04015024 | | 7 |
| 93 | Characterization of environmental loads related concrete pavement deflection behavior using Light Detection and Ranging technology. *International Journal of Pavement Research and Technology*, **2018**, 11, 470-480 | 2 | 7 |
| 92 | Neural networks based concrete airfield pavement layer moduli backcalculation. *Civil Engineering and Environmental Systems*, **2008**, 25, 185-199 | 2.1 | 7 |
| 91 | Development of Prediction Models for Mechanical Properties and Durability of Concrete Using Combined Nondestructive Tests. *Journal of Materials in Civil Engineering*, **2019**, 31, 04018378 | 3 | 7 |
| 90 | Performance-based economic analysis to find the sustainable aggregate option for a granular roadway. *Transportation Geotechnics*, **2021**, 26, 100410 | 4 | 7 |
| 89 | Development of rapid three-dimensional finite-element based rigid airfield pavement foundation response and moduli prediction models. *Transportation Geotechnics*, **2017**, 13, 81-91 | 4 | 6 |
| 88 | Effect of plasticizer on the wear behavior and ice adhesion of elastomeric coatings. *Wear*, **2019**, 426-427, 212-218 | 3.5 | 6 |
| 87 | Sensitivity quantification of jointed plain concrete pavement mechanistic-empirical performance predictions. *Construction and Building Materials*, **2013**, 43, 545-556 | 6.7 | 6 |
| 86 | Strength Performance of Iowa Soils Stabilized with Biofuel Industry Co-product. *Procedia Engineering*, **2015**, 125, 317-323 | | 6 |
| 85 | Lingnin Recovery and Utilization **2010**, 247-274 | | 6 |
| 84 | Rehabilitation of concrete pavements utilizing rubblization: a mechanistic based approach to HMA overlay thickness design. *International Journal of Pavement Engineering*, **2008**, 9, 45-57 | 2.6 | 6 |
| 83 | Evaluation of the Mechanistic-Empirical Pavement Design Guide for implementation in Iowa. *Baltic Journal of Road and Bridge Engineering*, **2009**, 4, 5-12 | 0.9 | 6 |
| 82 | Deterministic and stochastic life-cycle cost analysis for Otta seal surface treatment on low volume roads. *International Journal of Pavement Research and Technology*, **2019**, 12, 101-109 | 2 | 5 |
| 81 | Effect of mixture proportions on concrete performance. *Construction and Building Materials*, **2019**, 212, 77-84 | 6.7 | 5 |
| 80 | Influence of Deicing Salts on the Water-Repellency of Portland Cement Concrete Coated with Polytetrafluoroethylene and Polyetheretherketone **2017**, | | 5 |
| 79 | Neural Network-Based Multiple-Slab Response Models for Top-Down Cracking Mode in Airfield Pavement Design. *Journal of Transportation Engineering Part B: Pavements*, **2018**, 144, 04018009 | 1.4 | 5 |
| 78 | Noise-tolerant inverse analysis models for nondestructive evaluation of transportation infrastructure systems using neural networks. *Nondestructive Testing and Evaluation*, **2013**, 28, 233-251 | 2 | 5 |
| 77 | Sensitivity quantification of airport concrete pavement stress responses associated with top-down and bottom-up cracking. *International Journal of Pavement Research and Technology*, **2017**, 10, 410-420 | 2 | 5 |

| | | | |
|---|---|---|---|
| 76 | Influence of changes in surface layer properties on tire/pavement noise. *Noise Control Engineering Journal*, **2013**, 61, 417-424 | 0.6 | 5 |
| 75 | Effect of Concrete Strength and Stiffness Characterization on Predictions of Mechanistic-Empirical Performance for Rigid Pavements. *Transportation Research Record*, **2011**, 2226, 41-50 | 1.7 | 5 |
| 74 | NON-DESTRUCTIVE EVALUATION OF IN-PLACE REHABILITATED CONCRETE PAVEMENTS. *Journal of Civil Engineering and Management*, **2010**, 16, 552-560 | 3 | 5 |
| 73 | Innovative Nano-engineered Asphalt Concrete for Ice and Snow Controls in Pavement Systems | | 5 |
| 72 | Investigation of Longitudinal Cracking in Widened Concrete Pavements. *Baltic Journal of Road and Bridge Engineering*, **2020**, 15, 211-231 | 0.9 | 5 |
| 71 | Integrated finite element and artificial neural network methods for constructing asphalt concrete dynamic modulus master curve using deflection time-history data. *Construction and Building Materials*, **2020**, 257, 119549 | 6.7 | 5 |
| 70 | Effect of finishing practices on surface structure and salt-scaling resistance of concrete. *Cement and Concrete Composites*, **2019**, 104, 103345 | 8.6 | 4 |
| 69 | Effect of curing regimes on hardened performance of concrete containing slag cement. *Construction and Building Materials*, **2019**, 211, 771-778 | 6.7 | 4 |
| 68 | Evaluating the Effect of Mixing Process on Nano-Clay Modified Binders Using the Pull-Off Test Method. *Applied Mechanics and Materials*, **2015**, 802, 357-362 | 0.3 | 4 |
| 67 | Statistics and Artificial Intelligence-Based Pavement Performance and Remaining Service Life Prediction Models for Flexible and Composite Pavement Systems. *Transportation Research Record*, **2020**, 2674, 448-460 | 1.7 | 4 |
| 66 | Evaluation of bio-based fog seal for low-volume road preservation. *International Journal of Pavement Research and Technology*, **2020**, 13, 303-312 | 2 | 4 |
| 65 | Effects of concrete grinding residue (CGR) on selected sandy loam properties. *Journal of Cleaner Production*, **2019**, 240, 118057 | 10.3 | 4 |
| 64 | Finite element modeling of environmental effects on rigid pavement deformation. *Frontiers of Structural and Civil Engineering*, **2014**, 8, 101-114 | 2.5 | 4 |
| 63 | Finite element based hybrid evolutionary optimization approach to solving rigid pavement inversion problem. *Engineering With Computers*, **2014**, 30, 1-13 | 4.5 | 4 |
| 62 | Configuration of Electrodes for Electrically Conductive Concrete Heated Pavement Systems **2017**, | | 4 |
| 61 | A SIMPLIFIED APPROACH FOR PREDICTING EARLY-AGE CONCRETE PAVEMENT DEFORMATION / SUPAPRASTINTAS METODAS, PROGNOZUOJANTIS ANKSTYVOJO BETONO DANGOS DEFORMACIJAS. *Journal of Civil Engineering and Management*, **2011**, 17, 27-35 | 3 | 4 |
| 60 | Impact of Bio-Fuel Co-Product Modified Subgrade on Flexible Pavement Performance **2012**, | | 4 |
| 59 | Design of Rigid Pavements in Iowa Using the Mechanistic-Empirical Pavement Design Guide. *Baltic Journal of Road and Bridge Engineering*, **2008**, 3, 219-225 | 0.9 | 4 |

| | | | |
|---|---|---|---|
| 58 | Experimental and theoretical characterization of electrodes on electrical and thermal performance of electrically conductive concrete. *Composites Part B: Engineering*, **2021**, 222, 109003 | 10 | 4 |
| 57 | Evaluation of four different climate sources on pavement mechanistic-empirical design and impact of surface shortwave radiation. *International Journal of Pavement Engineering*, **2019**, 1-14 | 2.6 | 3 |
| 56 | Integration of a prototype wireless communication system with micro-electromechanical temperature and humidity sensor for concrete pavement health monitoring. *Cogent Engineering*, **2015**, 2, 1014278 | 1.5 | 3 |
| 55 | ANNFAA: artificial neural network-based tool for the analysis of Federal Aviation Administration rigid pavement systems. *International Journal of Pavement Engineering*, **2020**, 1-14 | 2.6 | 3 |
| 54 | Development of Artificial Neural Networks Based Predictive Models for Dynamic Modulus of Airfield Pavement Asphalt Mixtures **2018**, | | 3 |
| 53 | Linking air-void system and mechanical properties to salt-scaling resistance of concrete containing slag cement. *Cement and Concrete Composites*, **2019**, 104, 103364 | 8.6 | 3 |
| 52 | Stiffness characterisation of full-scale airfield test pavements using computational intelligence techniques. *IES Journal Part A: Civil and Structural Engineering*, **2008**, 1, 280-290 | | 3 |
| 51 | The Influence of Concrete Grinding Residue on Soil Physical Properties and Plant Growth. *Journal of Environmental Quality*, **2019**, 48, 1842-1848 | 3.4 | 3 |
| 50 | Sustainable Utilization of Bio-fuel Co-Product in Roadbed Stabilization. *Green Energy and Technology*, **2012**, 117-129 | 0.6 | 3 |
| 49 | A review of electrically conductive concrete heated pavement system technology: From the laboratory to the full-scale implementation. *Construction and Building Materials*, **2022**, 329, 127139 | 6.7 | 3 |
| 48 | Laboratory Evaluation of Silty Soils Stabilized with Lignosulfonate **2019**, | | 2 |
| 47 | Design, Construction, and Preliminary Investigations of Otta Seal in Iowa. *Transportation Research Record*, **2019**, 2673, 821-833 | 1.7 | 2 |
| 46 | Concrete Grinding Residue: Management Practices and Reuse for Soil Stabilization. *Transportation Research Record*, **2019**, 2673, 748-763 | 1.7 | 2 |
| 45 | Effect of joint spacing and pavement thickness on concrete overlay performance. *International Journal of Pavement Research and Technology*, **2019**, 12, 64-69 | 2 | 2 |
| 44 | Economics of upgrading gravel roads to Otta seal surface. *Applied Economics*, **2019**, 51, 4820-4832 | 1.6 | 2 |
| 43 | A Greenhouse Study of Concrete Grinding Residue Influences on Seedling Emergence and Early Growth of Selected Prairie Species. *Water, Air, and Soil Pollution*, **2020**, 231, 1 | 2.6 | 2 |
| 42 | In Situ Evaluation of Using Lignosulfonate for Subgrade Stabilization **2020**, | | 2 |
| 41 | Pavement curling and warping analysis using wavelet techniques. *International Journal of Pavement Engineering*, **2020**, 1-16 | 2.6 | 2 |

| | | | |
|---|---|---|---|
| 40 | Hydronic Heated Pavement System Using Precast Concrete Pavement for Airport Applications **2018**, | | 2 |
| 39 | Numerical analysis of longitudinal cracking in widened jointed plain concrete pavement systems. *International Journal of Pavement Research and Technology*, **2019**, 12, 277-287 | 2 | 2 |
| 38 | Comparative Performance of Concrete Pavements with Recycled Concrete Aggregate (RCA) and Virgin Aggregate Subbases **2011**, | | 2 |
| 37 | Structural Characterization of Iowa Rubblized PCC Pavements. *Journal of Transportation Engineering*, **2012**, 138, 406-413 | | 2 |
| 36 | Adaptive Neuro-Fuzzy Inference System-Based Backcalculation Approach to Airport Pavement Structural Analysis **2009**, | | 2 |
| 35 | Neural Networks Based Models for Mechanistic-Empirical Design of Rubblized Concrete Pavements **2007**, 1 | | 2 |
| 34 | Effects of Simultaneous Temperature and Gear Loading on the Response of Concrete Airfield Pavements Serving the Boeing B-777 Aircraft **2000**, 25 | | 2 |
| 33 | Early-Age Response of Concrete Pavements to Temperature and Moisture Variations. *Baltic Journal of Road and Bridge Engineering*, **2010**, 5, 132-138 | 0.9 | 2 |
| 32 | Energy-efficient design of a carbon fiber-based self-heating concrete pavement system through finite element analysis. *Clean Technologies and Environmental Policy*, **2020**, 22, 1145-1155 | 4.3 | 2 |
| 31 | Proposed Improvements to the Construction of Electrically Conductive Concrete Pavement System Based on Lessons Learned **2020**, | | 2 |
| 30 | Impact of farm equipment loading on low-volume concrete road structural response and performance. *Baltic Journal of Road and Bridge Engineering*, **2015**, 10, 325-332 | 0.9 | 2 |
| 29 | Economic Assessment of Heated Pavements for the Minneapolis St. Paul International Airport **2016**, | | 2 |
| 28 | Evaluation of Engineering Properties of Recycled Aggregates and Preliminary Performance of Recycled Aggregate Base Layers. *Journal of Materials in Civil Engineering*, **2022**, 34, | 3 | 2 |
| 27 | Structural and Fatigue Analysis of Jointed Plain Concrete Pavement Top-Down and Bottom-Up Transverse Cracking Subjected to Superloads. *Transportation Research Record*,036119812210855 | 1.7 | 2 |
| 26 | Evaluation of the Freeze and Thaw Durability of Road Soils Stabilized with a Biofuel Co-Product **2017**, | | 1 |
| 25 | Long-term performance evaluation of Iowa concrete overlays. *International Journal of Pavement Engineering*, **2020**, 1-12 | 2.6 | 1 |
| 24 | Numerical Modeling of Electrically Conductive Pavement Systems **2017**, | | 1 |
| 23 | Investigating the Heat Generation Efficiency of Electrically-Conductive Asphalt Mastic Using Infrared Thermal Imaging **2018**, | | 1 |

| | | | |
|---|---|---|---|
| 22 | Unbound material characterisation with Nottingham asphalt tester. *Proceedings of Institution of Civil Engineers: Construction Materials*, **2012**, 165, 355-365 | 0.8 | 1 |
| 21 | Sustainable Use of Lignocellulosic Biorefineries Co-Products in Geotechnical Bulk Applications: Comparative Analysis of Lab Data **2011**, | | 1 |
| 20 | Smoothness variations in early-age jointed plain concrete pavements. *Canadian Journal of Civil Engineering*, **2008**, 35, 1388-1398 | 1.3 | 1 |
| 19 | Critical Responses of Flexible Pavements Under Superheavy Loads and Data-Driven Surrogate Model. *International Journal of Pavement Research and Technology*,1 | 2 | 1 |
| 18 | Effects of Mixture Proportioning, Curing, and Finishing on Concrete Surface Hardness. *ACI Materials Journal*, **2019**, 116, | 0.9 | 1 |
| 17 | Effect of M-E Design Guide Inputs on Flexible Pavement Performance Predictions | | 1 |
| 16 | Performance of Concrete Overlays in Iowa. *MATEC Web of Conferences*, **2018**, 199, 08001 | 0.3 | 1 |
| 15 | Otta Seal Construction for Asphalt Pavement Resurfacing **2018**, | | 1 |
| 14 | An investigation on ice adhesion and wear of surfaces with differential stiffness. *Wear*, **2021**, 476, 203662 | 3.5 | 1 |
| 13 | Statistical model of tyre-road noise for thin layer surfacing. *Noise Control Engineering Journal*, **2017**, 65, 22-32 | 0.6 | 0 |
| 12 | Assessment of satellite-based MERRA climate data in AASHTOWare pavement mechanistic-empirical design. *Road Materials and Pavement Design*,1-10 | 2.6 | 0 |
| 11 | Sensitivity Index comparison of pavement mechanistic-empirical design input variables to reflective cracking model for different climatic zones. *Road Materials and Pavement Design*, **2020**, 1-16 | 2.6 | |
| 10 | Performance Evaluation of Roadway Subdrain Outlets in Iowa. *Transportation Research Record*, **2014**, 2462, 68-76 | 1.7 | |
| 9 | Engineering Neutron Diffraction Data Analysis with Inverse Neural Network Modeling. *Materials Science Forum*, **2013**, 772, 39-44 | 0.4 | |
| 8 | Development of a Neural Network Simulator for Studying the Constitutive Behavior of Structural Composite Materials. *ISRN Materials Science*, **2013**, 2013, 1-10 | | |
| 7 | Initial smoothness of concrete pavements under environmental loads. *Magazine of Concrete Research*, **2007**, 59, 599-609 | 2 | |
| 6 | Artificial Neural Networks for the Analysis of Slabs Under Simultaneous Aircraft and Temperature Loading **2003**, 223 | | |
| 5 | Construction and performance evaluation of large stone subbase (LSSB) layers. *Transportation Geotechnics*, **2022**, 32, 100694 | 4 | |

| | | |
|---|---|---|
| 4 | Evaluation of joint activation and joint spacing in concrete overlays. *Road Materials and Pavement Design*,1-10 | 2.6 |
| 3 | Effect of Portland Cement Fineness on ASTM C1260 Expansion. *Journal of Testing and Evaluation*, **2008**, 36, 101440 | 1 |
| 2 | Field Evaluation of Using Slag as Aggregates for Otta Seal Surfacing. *Lecture Notes in Civil Engineering*, **2022**, 475-487 | 0.3 |
| 1 | Evaluation of long-term performance of recycled aggregate base (RAB) layers and optimization of their design thicknesses. *Road Materials and Pavement Design*,1-20 | 2.6 |