Halil Ceylan

List of Publications by Year in Descending Order

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	Construction and performance evaluation of large stone subbase (LSSB) layers. *Transportation Geotechnics*, **2022**, 32, 100694	4	
164	Field Evaluation of Using Slag as Aggregates for Otta Seal Surfacing. *Lecture Notes in Civil Engineering*, **2022**, 475-487	0.3	
163	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
162	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
161	Performance-based economic analysis to find the sustainable aggregate option for a granular roadway. *Transportation Geotechnics*, **2021**, 26, 100410	4	7
160	An investigation on ice adhesion and wear of surfaces with differential stiffness. *Wear*, **2021**, 476, 203662	3.5	1
159	Experimental and theoretical characterization of electrodes on electrical and thermal performance of electrically conductive concrete. *Composites Part B: Engineering*, **2021**, 222, 109003	10	4
158	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
157	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
156	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
155	Long-term performance evaluation of Iowa concrete overlays. *International Journal of Pavement Engineering*, **2020**, 1-12	2.6	1
154	In Situ Evaluation of Using Lignosulfonate for Subgrade Stabilization **2020**,		2
153	Pavement curling and warping analysis using wavelet techniques. *International Journal of Pavement Engineering*, **2020**, 1-16	2.6	2
152	Evaluation of bio-based fog seal for low-volume road preservation. *International Journal of Pavement Research and Technology*, **2020**, 13, 303-312	2	4
151	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
150	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	
149	Investigation of Longitudinal Cracking in Widened Concrete Pavements. *Baltic Journal of Road and Bridge Engineering*, **2020**, 15, 211-231	0.9	5

148	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
147	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
146	Proposed Improvements to the Construction of Electrically Conductive Concrete Pavement System Based on Lessons Learned **2020**,		2
145	Effects of moisture damage on asphalt mixtures. *Journal of Traffic and Transportation Engineering (English Edition)*, **2020**, 7, 600-628	3.9	26
144	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
143	Polyurethane-carbon microfiber composite coating for electrical heating of concrete pavement surfaces. *Heliyon*, **2019**, 5, e02359	3.6	9
142	Laboratory Evaluation of Silty Soils Stabilized with Lignosulfonate **2019**,		2
141	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
140	Design, Construction, and Preliminary Investigations of Otta Seal in Iowa. *Transportation Research Record*, **2019**, 2673, 821-833	1.7	2
139	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
138	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
137	Concrete Grinding Residue: Management Practices and Reuse for Soil Stabilization. *Transportation Research Record*, **2019**, 2673, 748-763	1.7	2
136	Effect of finishing practices on surface structure and salt-scaling resistance of concrete. *Cement and Concrete Composites*, **2019**, 104, 103345	8.6	4
135	Effect of joint spacing and pavement thickness on concrete overlay performance. *International Journal of Pavement Research and Technology*, **2019**, 12, 64-69	2	2
134	Electrically conductive asphalt concrete: An alternative for automating the winter maintenance operations of transportation infrastructure. *Composites Part B: Engineering*, **2019**, 173, 106985	10	26
133	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
132	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
131	Economics of upgrading gravel roads to Otta seal surface. *Applied Economics*, **2019**, 51, 4820-4832	1.6	2

130	Effect of plasticizer on the wear behavior and ice adhesion of elastomeric coatings. *Wear*, **2019**, 426-427, 212-218	3.5	6
129	Effect of mixture proportions on concrete performance. *Construction and Building Materials*, **2019**, 212, 77-84	6.7	5
128	Effect of curing regimes on hardened performance of concrete containing slag cement. *Construction and Building Materials*, **2019**, 211, 771-778	6.7	4
127	Effects of concrete grinding residue (CGR) on selected sandy loam properties. *Journal of Cleaner Production*, **2019**, 240, 118057	10.3	4
126	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
125	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
124	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
123	Effects of Mixture Proportioning, Curing, and Finishing on Concrete Surface Hardness. *ACI Materials Journal*, **2019**, 116,	0.9	1
122	Integrated stochastic life cycle benefit cost analysis of hydronically-heated apron pavement system. *Journal of Cleaner Production*, **2019**, 224, 994-1003	10.3	8
121	The Influence of Concrete Grinding Residue on Soil Physical Properties and Plant Growth. *Journal of Environmental Quality*, **2019**, 48, 1842-1848	3.4	3
120	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
119	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
118	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
117	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
116	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
115	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
114	Development of Artificial Neural Networks Based Predictive Models for Dynamic Modulus of Airfield Pavement Asphalt Mixtures **2018**,		3
113	Hydronic Heated Pavement System Using Precast Concrete Pavement for Airport Applications **2018**,		2

112	Investigating the Heat Generation Efficiency of Electrically-Conductive Asphalt Mastic Using Infrared Thermal Imaging **2018**,		1
111	Electrically-conductive asphalt mastic: Temperature dependence and heating efficiency. *Materials and Design*, **2018**, 157, 303-313	8.1	31
110	Performance of Concrete Overlays in Iowa. *MATEC Web of Conferences*, **2018**, 199, 08001	0.3	1
109	Otta Seal Construction for Asphalt Pavement Resurfacing **2018**,		1
108	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
107	Assessment of soils stabilized with lignin-based byproducts. *Transportation Geotechnics*, **2018**, 17, 122-132	4	18
106	Design and Construction of the Worlds 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	Carbon fiber-based electrically conductive concrete for salt-free deicing of pavements. *Journal of Cleaner Production*, **2018**, 203, 799-809	10.3	62
104	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
103	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
102	Superhydrophobic coatings on Portland cement concrete surfaces. *Construction and Building Materials*, **2017**, 141, 393-401	6.7	66
101	Evaluation of the Freeze and Thaw Durability of Road Soils Stabilized with a Biofuel Co-Product **2017**,		1
100	Tribological behavior and wettability of spray-coated superhydrophobic coatings on aluminum. *Wear*, **2017**, 376-377, 1713-1719	3.5	21
99	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
98	Numerical Modeling of Electrically Conductive Pavement Systems **2017**,		1
97	Influence of Deicing Salts on the Water-Repellency of Portland Cement Concrete Coated with Polytetrafluoroethylene and Polyetheretherketone **2017**,		5
96	Configuration of Electrodes for Electrically Conductive Concrete Heated Pavement Systems **2017**,		4
95	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

94	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
93	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
92	Helical-Shaped Graphene Tubular Spring Formed Within Microchannel for Wearable Strain Sensor With Wide Dynamic Range **2017**, 1, 1-4		11
91	Statistical model of tyre-road noise for thin layer surfacing. *Noise Control Engineering Journal*, **2017**, 65, 22-32	0.6	0
90	System Requirements for Electrically Conductive Concrete Heated Pavements. *Transportation Research Record*, **2016**, 2569, 70-79	1.7	26
89	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
88	Fabrication of Polytetrafluoroethylene-Coated Asphalt Concrete Biomimetic Surfaces: A Nanomaterials-Based Pavement Winter Maintenance Approach **2016**,		8
87	Pavement stiffness measurements in relation to mechanical impedance. *Construction and Building Materials*, **2016**, 102, 455-461	6.7	12
86	Sustainable Development Factors in Pavement Life-Cycle: Highway/Airport Review. *Sustainability*, **2016**, 8, 248	3.6	25
85	Superhydrophobic Coatings on Asphalt Concrete Surfaces: Toward Smart Solutions for Winter Pavement Maintenance. *Transportation Research Record*, **2016**, 2551, 10-17	1.7	48
84	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
83	Life cycle assessment of heated apron pavement system operations. *Transportation Research, Part D: Transport and Environment*, **2016**, 48, 316-331	6.4	9
82	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
81	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
80	Evaluation of pavement life cycle cost analysis: Review and analysis. *International Journal of Pavement Research and Technology*, **2016**, 9, 241-254	2	62
79	Economic Assessment of Heated Pavements for the Minneapolis-St. Paul International Airport **2016**,		2
78	Dynamic Characterization of a Soft Elastomeric Capacitor for Structural Health Monitoring. *Journal of Structural Engineering*, **2015**, 141, 04014186	3	49
77	Influence of Road Surface Characteristics on Tire-Road Noise for Thin-Layer Surfacings. *Journal of Transportation Engineering*, **2015**, 141, 04015024		7

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76	A survey of health monitoring systems for wind turbines. *Renewable and Sustainable Energy Reviews*, **2015**, 52, 976-990	16.2	94
75	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
74	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
73	Strength Performance of Iowa Soils Stabilized with Biofuel Industry Co-product. *Procedia Engineering*, **2015**, 125, 317-323		6
72	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
71	Sensitivity analysis frameworks for mechanistic-empirical pavement design of continuously reinforced concrete pavements. *Construction and Building Materials*, **2014**, 73, 498-508	6.7	8
70	Finite element modeling of environmental effects on rigid pavement deformation. *Frontiers of Structural and Civil Engineering*, **2014**, 8, 101-114	2.5	4
69	Finite element based hybrid evolutionary optimization approach to solving rigid pavement inversion problem. *Engineering With Computers*, **2014**, 30, 1-13	4.5	4
68	Performance Evaluation of Roadway Subdrain Outlets in Iowa. *Transportation Research Record*, **2014**, 2462, 68-76	1.7	
67	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
66	HIGHWAY INFRASTRUCTURE HEALTH MONITORING USING MICRO-ELECTROMECHANICAL SENSORS AND SYSTEMS (MEMS). *Journal of Civil Engineering and Management*, **2014**, 19, S188-S201	3	19
65	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
64	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
63	Sensitivity quantification of jointed plain concrete pavement mechanistic-empirical performance predictions. *Construction and Building Materials*, **2013**, 43, 545-556	6.7	6
62	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
61	Knowledge discovery and data mining in pavement inverse analysis. *Transport*, **2013**, 28, 1-10	1.4	27
60	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
59	Engineering Neutron Diffraction Data Analysis with Inverse Neural Network Modeling. *Materials Science Forum*, **2013**, 772, 39-44	0.4	

58	Renewable biomass-derived lignin in transportation infrastructure strengthening applications. *International Journal of Sustainable Engineering*, **2013**, 6, 316-325	3.1	11
57	Development of a Neural Network Simulator for Studying the Constitutive Behavior of Structural Composite Materials. *ISRN Materials Science*, **2013**, 2013, 1-10		
56	Global Sensitivity Analysis of Mechanistic Empirical Performance Predictions for Flexible Pavements. *Transportation Research Record*, **2013**, 2368, 12-23	1.7	24
55	Global Sensitivity Analysis of Jointed Plain Concrete Pavement Mechanistic Empirical Performance Predictions. *Transportation Research Record*, **2013**, 2367, 113-122	1.7	8
54	Influence of changes in surface layer properties on tire/pavement noise. *Noise Control Engineering Journal*, **2013**, 61, 417-424	0.6	5
53	Unbound material characterisation with Nottingham asphalt tester. *Proceedings of Institution of Civil Engineers: Construction Materials*, **2012**, 165, 355-365	0.8	1
52	Moisture Susceptibility of Subgrade Soils Stabilized by Lignin-Based Renewable Energy Coproduct. *Journal of Transportation Engineering*, **2012**, 138, 1283-1290		32
51	Structural Characterization of Iowa Rubblized PCC Pavements. *Journal of Transportation Engineering*, **2012**, 138, 406-413		2
50	Impact of Bio-Fuel Co-Product Modified Subgrade on Flexible Pavement Performance **2012**,		4
49	Local Sensitivity of Mechanistic-Empirical Flexible Pavement Performance Predictions to Unbound Material Property Inputs **2012**,		8
48	Sustainable Utilization of Bio-fuel Co-Product in Roadbed Stabilization. *Green Energy and Technology*, **2012**, 117-129	0.6	3
47	Sustainable Use of Lignocellulosic Biorefineries Co-Products in Geotechnical Bulk Applications: Comparative Analysis of Lab Data **2011**,		1
46	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
45	Computationally efficient surrogate response models for mechanistic empirical pavement analysis and design. *Structure and Infrastructure Engineering*, **2011**, 7, 297-306	2.9	8
44	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
43	Influences of mixture composition on properties and freeze thaw resistance of RCC. *Construction and Building Materials*, **2011**, 25, 313-319	6.7	50
42	Comparative Performance of Concrete Pavements with Recycled Concrete Aggregate (RCA) and Virgin Aggregate Subbases **2011**,		2
41	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

40	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
39	Soil Stabilization with Bioenergy Coproduct. *Transportation Research Record*, **2010**, 2186, 130-137	1.7	38
38	Lingnin Recovery and Utilization **2010**, 247-274		6
37	NON-DESTRUCTIVE EVALUATION OF IN-PLACE REHABILITATED CONCRETE PAVEMENTS. *Journal of Civil Engineering and Management*, **2010**, 16, 552-560	3	5
36	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
35	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
34	Airfield pavement deterioration assessment using stress-dependent neural network models. *Structure and Infrastructure Engineering*, **2009**, 5, 487-496	2.9	10
33	Sensitivity Analysis of Rigid Pavement Systems Using the Mechanistic-Empirical Design Guide Software. *Journal of Transportation Engineering*, **2009**, 135, 555-562		19
32	Effects of crushed clay brick aggregate on mortar durability. *Construction and Building Materials*, **2009**, 23, 1909-1914	6.7	102
31	Adaptive Neuro-Fuzzy Inference System-Based Backcalculation Approach to Airport Pavement Structural Analysis **2009**,		2
30	Accuracy of Predictive Models for Dynamic Modulus of Hot-Mix Asphalt. *Journal of Materials in Civil Engineering*, **2009**, 21, 286-293	3	90
29	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
28	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
27	Intelligent and Soft Computing in Infrastructure Systems Engineering. *Studies in Computational Intelligence*, **2009**,	0.8	10
26	Neural Networks Application in Pavement Infrastructure Materials. *Studies in Computational Intelligence*, **2009**, 47-66	0.8	8
25	Smoothness variations in early-age jointed plain concrete pavements. *Canadian Journal of Civil Engineering*, **2008**, 35, 1388-1398	1.3	1
24	Neural networks based concrete airfield pavement layer moduli backcalculation. *Civil Engineering and Environmental Systems*, **2008**, 25, 185-199	2.1	7
23	Advanced approaches to hot-mix asphalt dynamic modulus prediction. *Canadian Journal of Civil Engineering*, **2008**, 35, 699-707	1.3	44

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22	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
21	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
20	Neural Network-Based Approach for Analysis of Rigid Pavement Systems Using Deflection Data. *Transportation Research Record*, **2008**, 2068, 61-70	1.7	15
19	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
18	Effect of Portland Cement Fineness on ASTM C1260 Expansion. *Journal of Testing and Evaluation*, **2008**, 36, 101440	1	
17	Effect of M-E Design Guide Inputs on Flexible Pavement Performance Predictions. *Road Materials and Pavement Design*, **2007**, 8, 375-397	2.6	20
16	Neural Networks Based Models for Mechanistic-Empirical Design of Rubblized Concrete Pavements **2007**, 1		2
15	Initial smoothness of concrete pavements under environmental loads. *Magazine of Concrete Research*, **2007**, 59, 599-609	2	
14	Comparative Performance of Ground Clay Brick in Mitigation of Alkali Silica Reaction. *Journal of Materials in Civil Engineering*, **2007**, 19, 1070-1078	3	16
13	Environmental Effects on Deformation and Smoothness Behavior of Early-Age Jointed Plain Concrete Pavements. *Transportation Research Record*, **2007**, 2037, 30-39	1.7	8
12	Advanced Approaches to Characterizing Nonlinear Pavement System Responses. *Transportation Research Record*, **2007**, 2005, 86-94	1.7	16
11	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
10	Artificial Neural Networks for the Analysis of Slabs Under Simultaneous Aircraft and Temperature Loading **2003**, 223		
9	Effects of Simultaneous Temperature and Gear Loading on the Response of Concrete Airfield Pavements Serving the Boeing B-777 Aircraft **2000**, 25		2
8	Artificial Neural Networks for Analyzing Concrete Airfield Pavements Serving the Boeing B-777 Aircraft. *Transportation Research Record*, **1999**, 1684, 110-117	1.7	15
7	Critical Responses of Flexible Pavements Under Superheavy Loads and Data-Driven Surrogate Model. *International Journal of Pavement Research and Technology*, 1	2	1
6	Innovative Nano-engineered Asphalt Concrete for Ice and Snow Controls in Pavement Systems		5
5	Evaluation of joint activation and joint spacing in concrete overlays. *Road Materials and Pavement Design*, 1-10	2.6	

List of Publications

4	Effect of M-E Design Guide Inputs on Flexible Pavement Performance Predictions		1
3	Assessment of satellite-based MERRA climate data in AASHTOWare pavement mechanistic-empirical design. *Road Materials and Pavement Design*,1-10	2.6	0
2	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
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	