

# Jeffery R Roesler

## List of Publications by Year in descending order

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43  
papers

1,589  
citations

394286

19  
h-index

302012

39  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Early Age Monitoring of High Cement Replacement Mixtures for Pavement. Transportation Research Record, 2023, 2677, 1646-1657.	1.0	2
2	Rapid detection of concrete joint activation using normalized shear wave transmission energy. International Journal of Pavement Engineering, 2022, 23, 1025-1037.	2.2	3
3	Slab-Base Interface Friction Evaluation for Continuously Reinforced Concrete Pavement. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	0.8	0
4	Noncontact Ultrasonic and Computer Vision Assessment for Sawcut Initiation Time. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020055.	0.8	4
5	A method for evaluating CRCP performance based on edge-loaded FWD test. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	1.3	4
6	Interfacial transition zone of cement composites with steel furnace slag aggregates. Cement and Concrete Composites, 2018, 86, 117-129.	4.6	54
7	Unrestrained Curling in Concrete with Fine Lightweight Aggregates. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	4
8	Bonding in cementitious materials with asphalt-coated particles: Part II "Cement-asphalt chemical interactions. Construction and Building Materials, 2017, 130, 182-192.	3.2	80
9	Bonding in cementitious materials with asphalt-coated particles: Part I "The interfacial transition zone. Construction and Building Materials, 2017, 130, 171-181.	3.2	104
10	Expansive and Concrete Properties of SFS"FRAP Aggregates. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	32
11	Characterization of Cement Treated Base Course Using Reclaimed Asphalt Pavement, Aggregate By-Products, and Macro-Synthetic Fibers. , 2016, , .		2
12	Concrete slab analyses with field-assigned non-uniform support conditions. International Journal of Pavement Engineering, 2016, 17, 578-589.	2.2	12
13	Machine vision based characterization of particle shape and asphalt coating in Reclaimed Asphalt Pavement. Transportation Geotechnics, 2016, 6, 26-37.	2.0	28
14	Steel furnace slag aggregate expansion and hardened concrete properties. Cement and Concrete Composites, 2015, 60, 1-9.	4.6	172
15	One-dimensional temperature profile prediction in multi-layered rigid pavement systems using a separation of variables method. International Journal of Pavement Engineering, 2014, 15, 373-382.	2.2	14
16	Fracture Properties of Roller-Compacted Concrete with Virgin and Recycled Aggregates. Transportation Research Record, 2014, 2441, 128-134.	1.0	54
17	Finite element analysis of a concrete slab under various non-uniform support conditions. International Journal of Pavement Engineering, 2014, 15, 460-470.	2.2	7
18	Flexural Capacity of Full-Depth and Two-Lift Concrete Slabs with Recycled Aggregates. Transportation Research Record, 2014, 2456, 64-72.	1.0	47

#	ARTICLE	IF	CITATIONS
19	Two-scale approach to predict multi-site cracking potential in 3-D structures using the generalized finite element method. International Journal of Solids and Structures, 2013, 50, 1991-2002.	1.3	13
20	Three-dimensional cohesive zone model for fracture of cementitious materials based on the thermodynamics of irreversible processes. Engineering Fracture Mechanics, 2013, 97, 261-280.	2.0	24
21	Accelerated performance testing of concrete pavement with short slabs. International Journal of Pavement Engineering, 2012, 13, 494-507.	2.2	37
22	One-Dimensional Rigid Pavement Temperature Prediction Using Laplace Transformation. Journal of Transportation Engineering, 2012, 138, 1171-1177.	0.9	20
23	Prediction of Potential Cracking Failure Modes in Three-Dimensional Airfield Rigid Pavements with Existing Cracks and Flaws. Transportation Research Record, 2012, 2266, 11-19.	1.0	7
24	Performance of Continuously Reinforced Concrete Pavement Containing Recycled Concrete Aggregates. Transportation Research Record, 2011, 2253, 32-39.	1.0	10
25	Innovative Algorithm to Solve Axisymmetric Displacement and Stress Fields in Multilayered Pavement Systems. Journal of Transportation Engineering, 2011, 137, 287-295.	0.9	11
26	Simplified Nonlinear Temperature Curling Analysis for Jointed Concrete Pavements. Journal of Transportation Engineering, 2010, 136, 654-663.	0.9	34
27	Analytical Approach to Predicting Temperature Fields in Multilayered Pavement Systems. Journal of Engineering Mechanics - ASCE, 2009, 135, 334-344.	1.6	40
28	A unified potential-based cohesive model of mixed-mode fracture. Journal of the Mechanics and Physics of Solids, 2009, 57, 891-908.	2.3	365
29	Simplified method for concrete pavement design with discrete structural fibers. Construction and Building Materials, 2008, 22, 384-393.	3.2	63
30	Determination of the kink point in the bilinear softening model for concrete. Engineering Fracture Mechanics, 2008, 75, 3806-3818.	2.0	80
31	Fracture Energy Approach to Characterize Concrete Crack Surface Roughness and Shear Stiffness. Journal of Materials in Civil Engineering, 2008, 20, 275-282.	1.3	10
32	Location and Timing of Fatigue Cracks on Jointed Plain Concrete Pavements. , 2008, , .		1
33	Virtual Internal Pair-Bond Model for Quasi-Brittle Materials. Journal of Engineering Mechanics - ASCE, 2008, 134, 856-866.	1.6	11
34	Accounting for Self-Equilibrating Stresses Due to Non-Linear Temperature Profiles in Rigid Pavements. , 2008, , .		0
35	Determination of Critical Concrete Pavement Fatigue Damage Locations Using Influence Lines. Journal of Transportation Engineering, 2005, 131, 599-607.	0.9	50
36	Longitudinal Cracking Distress on Continuously Reinforced Concrete Pavements in Illinois. Journal of Performance of Constructed Facilities, 2005, 19, 331-338.	1.0	13

#	ARTICLE	IF	CITATIONS
37	Characterizing Effective Built-In Curling from Concrete Pavement Field Measurements. <i>Journal of Transportation Engineering</i> , 2005, 131, 320-327.	0.9	57
38	Fracture of Plain and Fiber-Reinforced Concrete Slabs under Monotonic Loading. <i>Journal of Materials in Civil Engineering</i> , 2004, 16, 452-460.	1.3	54
39	Modeling Longitudinal, Corner and Transverse Cracking in Jointed Concrete Pavements. <i>International Journal of Pavement Engineering</i> , 2003, 4, 51-58.	2.2	15
40	Transverse Joint Analysis for Mechanistic-Empirical Design of Rigid Pavements. <i>Transportation Research Record</i> , 2002, 1809, 42-51.	1.0	15
41	Top-Down Cracking of Rigid Pavements Constructed with Fast-Setting Hydraulic Cement Concrete. <i>Transportation Research Record</i> , 2000, 1712, 3-12.	1.0	13
42	Fatigue and Static Testing of Concrete Slabs. <i>Transportation Research Record</i> , 1999, 1684, 71-80.	1.0	15
43	Effect of Static and Fatigue Cracking on Concrete Strain Measurements. <i>Transportation Research Record</i> , 1999, 1684, 51-60.	1.0	8