Jo E Sias

List of Publications by Year
in descending order

		840776	888059
36 papers	342 citations	11 h-index	17 g-index
41 all docs	41 docs citations	41 times ranked	242 citing authors

#	Article	IF	Citations
1	Impact of Aging on the Viscoelastic Properties and Cracking Behavior of Asphalt Mixtures. Transportation Research Record, 2019, 2673, 406-415.	1.9	33
2	Seasonal and Long-Term Changes to Pavement Life Caused by Rising Temperatures from Climate Change. Transportation Research Record, 2019, 2673, 267-278.	1.9	32
3	A Framework for Introducing Climate-Change Adaptation in Pavement Management. Sustainability, 2019, 11, 4382.	3.2	25
4	Development of a rate-dependent cumulative work and instantaneous power-based asphalt cracking performance index. Road Materials and Pavement Design, 2019, 20, S315-S331.	4.0	21
5	Correlating Laboratory Conditioning with Field Aging for Asphalt using Rheological Parameters. Transportation Research Record, 2020, 2674, 393-404.	1.9	20
6	Asphalt mix fracture energy based reflective cracking performance criteria for overlay mix selection and design for pavements in cold climates. Construction and Building Materials, 2019, 211, 1025-1033.	7.2	19
7	Comparison and correlation of asphalt binder and mixture cracking parameters incorporating the aging effect. Construction and Building Materials, 2021, 301, 124075.	7.2	19
8	Mixture-based rheological evaluation tool for cracking in asphalt pavements. Road Materials and Pavement Design, 2019, 20, S299-S314.	4.0	16
9	Evaluation of the cracking and aging susceptibility of asphalt mixtures using viscoelastic properties and master curve parameters. Journal of Traffic and Transportation Engineering (English Edition), 2022, 9, 106-119.	4.2	16
10	Development of a rheology-based mixture aging model for asphalt material cracking performance evaluation. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	13
11	Evaluation of laboratory ageing procedures on cracking performance of asphalt mixtures. Road Materials and Pavement Design, 2019, 20, S647-S662.	4.0	12
12	Development of new performance indices to evaluate the fatigue properties of asphalt binders with ageing. Road Materials and Pavement Design, 2022, 23, 377-396.	4.0	12
13	Climate change impacts on flexible pavement design and rehabilitation practices. Road Materials and Pavement Design, 2021, 22, 2098-2112.	4.0	10
14	Exploring master curve parameters to distinguish between mixture variables. Road Materials and Pavement Design, 2019, 20, S812-S826.	4.0	9
15	Suitable Tests and Machine Learning Approach to Predict Moisture Susceptibility of Hot-Mix Asphalt. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04019030.	1.5	8
16	Development of Complex Modulus-Based Rutting Index Parameter for Asphalt Mixtures. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020026.	1.5	8
17	Mere Nuisance or Growing Threat? The Physical and Economic Impact of High Tide Flooding on US Road Networks. Journal of Infrastructure Systems, 2021, 27, .	1.8	8
18	Evaluation of Laboratory Performance and Structural Contribution of Cold Recycled Versus Hot Mixed Intermediate and Base Course Asphalt Layers in New Hampshire. Transportation Research Record, 2019, 2673, 467-476.	1.9	7

#	ARTICLE	IF	CITATIONS
19	Development of Time–Depth–Damage Functions for Flooded Flexible Pavements. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	1.5	6
20	Statistical Evaluation of the Effects of Mix Design Properties on Performance Indices of Asphalt Mixtures. Journal of Testing and Evaluation, 2020, 48, 20180903.	0.7	5
21	Comparative Evaluation of Moisture Susceptibility Test Methods for Routine Usage in Asphalt Mixture Design. Journal of Testing and Evaluation, 2020, 48, 88-106.	0.7	5
22	Laboratory Investigation of Factors Affecting the Evolution of Curing in Cold In-Place Recycled Materials. Transportation Research Record, 2022, 2676, 28-40.	1.9	5
23	An Overview of Black Space Evaluation of Performance and Distress Mechanisms in Asphalt Materials. RILEM Bookseries, 2022, , 231-237.	0.4	4
24	Statistical Analysis Framework to Evaluate Asphalt Concrete Overlay Reflective Cracking Performance. Transportation Research Record, 2022, 2676, 132-146.	1.9	4
25	Using mix design information for modelling of fundamental viscoelasticity of asphalt mixtures. Construction and Building Materials, 2022, 329, 127029.	7.2	4
26	Comprehensive Laboratory Evaluation of Recycling Agent Treated Plant-Produced Asphalt Mixtures. Transportation Research Record, 2022, 2676, 620-634.	1.9	4
27	Black Space Rheological Assessment of Asphalt Material Behavior. Journal of Testing and Evaluation, 2022, 50, 20210205.	0.7	3
28	Developing a prediction model for low-temperature fracture energy of asphalt mixtures using machine learning approach. International Journal of Pavement Engineering, 2023, 24, .	4.4	3
29	Accuracy Assessment of Satellite-Based Freeze-Thaw Retrievals on Low-Volume Roads in the United States. Transportation Research Record, 2019, 2673, 756-766.	1.9	2
30	Correlating field and laboratory evolution of curing in cold in-place recycled (CIR) materials. Construction and Building Materials, 2022, 345, 128352.	7.2	2
31	Comprehensive Evaluation of Properties and Performance of Asphalt Mixtures with Reactive Isocyanate and Styrene-Butadiene-Styrene-Modified Binders. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	2
32	Performance Evaluation of Pelletized Solid Polymer Modified Asphalt Mixtures. Transportation Research Record, 0, , 036119812210833.	1.9	1
33	Regionalizing the Quality Assurance Processes in New England Area for Pre-Stressed and Precast Concrete Elements used in Highway Construction. Transportation Research Record, 2019, 2673, 544-553.	1.9	0
34	Assessment of Asphalt Mixture Disk-Shaped Compact Tension Test Indexes for Reflective Cracking Performance. Journal of Testing and Evaluation, 2022, 50, 755-769.	0.7	0
35	Plasticity-Based Method for the Design and Analysis of Cold Recycled Pavement Layers. Journal of Testing and Evaluation, 2022, 50, 20210198.	0.7	0
36	Generalized Methodology to Develop Mechanistically Informed Asphalt Mixture Layer Coefficients for AASHTO 1993 Pavement Design Approach. Transportation Research Record, 2022, 2676, 312-324.	1.9	0