

# Jo E Sias

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

342  
citations

840776

11  
h-index

888059

17  
g-index

41  
all docs

41  
docs citations

41  
times ranked

242  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Plasticity-Based Method for the Design and Analysis of Cold Recycled Pavement Layers. Journal of Testing and Evaluation, 2022, 50, 20210198.	0.7	0
6	An Overview of Black Space Evaluation of Performance and Distress Mechanisms in Asphalt Materials. RILEM Bookseries, 2022, , 231-237.	0.4	4
7	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
8	Black Space Rheological Assessment of Asphalt Material Behavior. Journal of Testing and Evaluation, 2022, 50, 20210205.	0.7	3
9	Statistical Analysis Framework to Evaluate Asphalt Concrete Overlay Reflective Cracking Performance. Transportation Research Record, 2022, 2676, 132-146.	1.9	4
10	Using mix design information for modelling of fundamental viscoelasticity of asphalt mixtures. Construction and Building Materials, 2022, 329, 127029.	7.2	4
11	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
12	Development of Time-Depth-Damage Functions for Flooded Flexible Pavements. Journal of Transportation Engineering Part B: Pavements, 2022, 148, .	1.5	6
13	Comprehensive Laboratory Evaluation of Recycling Agent Treated Plant-Produced Asphalt Mixtures. Transportation Research Record, 2022, 2676, 620-634.	1.9	4
14	Correlating field and laboratory evolution of curing in cold in-place recycled (CIR) materials. Construction and Building Materials, 2022, 345, 128352.	7.2	2
15	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
16	Climate change impacts on flexible pavement design and rehabilitation practices. Road Materials and Pavement Design, 2021, 22, 2098-2112.	4.0	10
17	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
18	Comparison and correlation of asphalt binder and mixture cracking parameters incorporating the aging effect. Construction and Building Materials, 2021, 301, 124075.	7.2	19

#	ARTICLE	IF	CITATIONS
19	Mere Nuisance or Growing Threat? The Physical and Economic Impact of High Tide Flooding on US Road Networks. <i>Journal of Infrastructure Systems</i> , 2021, 27, .	1.8	8
20	Correlating Laboratory Conditioning with Field Aging for Asphalt using Rheological Parameters. <i>Transportation Research Record</i> , 2020, 2674, 393-404.	1.9	20
21	Development of Complex Modulus-Based Rutting Index Parameter for Asphalt Mixtures. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2020, 146, 04020026.	1.5	8
22	Statistical Evaluation of the Effects of Mix Design Properties on Performance Indices of Asphalt Mixtures. <i>Journal of Testing and Evaluation</i> , 2020, 48, 20180903.	0.7	5
23	Comparative Evaluation of Moisture Susceptibility Test Methods for Routine Usage in Asphalt Mixture Design. <i>Journal of Testing and Evaluation</i> , 2020, 48, 88-106.	0.7	5
24	Exploring master curve parameters to distinguish between mixture variables. <i>Road Materials and Pavement Design</i> , 2019, 20, S812-S826.	4.0	9
25	Evaluation of laboratory ageing procedures on cracking performance of asphalt mixtures. <i>Road Materials and Pavement Design</i> , 2019, 20, S647-S662.	4.0	12
26	A Framework for Introducing Climate-Change Adaptation in Pavement Management. <i>Sustainability</i> , 2019, 11, 4382.	3.2	25
27	Evaluation of Laboratory Performance and Structural Contribution of Cold Recycled Versus Hot Mixed Intermediate and Base Course Asphalt Layers in New Hampshire. <i>Transportation Research Record</i> , 2019, 2673, 467-476.	1.9	7
28	Suitable Tests and Machine Learning Approach to Predict Moisture Susceptibility of Hot-Mix Asphalt. <i>Journal of Transportation Engineering Part B: Pavements</i> , 2019, 145, 04019030.	1.5	8
29	Seasonal and Long-Term Changes to Pavement Life Caused by Rising Temperatures from Climate Change. <i>Transportation Research Record</i> , 2019, 2673, 267-278.	1.9	32
30	Regionalizing the Quality Assurance Processes in New England Area for Pre-Stressed and Precast Concrete Elements used in Highway Construction. <i>Transportation Research Record</i> , 2019, 2673, 544-553.	1.9	0
31	Impact of Aging on the Viscoelastic Properties and Cracking Behavior of Asphalt Mixtures. <i>Transportation Research Record</i> , 2019, 2673, 406-415.	1.9	33
32	Development of a rate-dependent cumulative work and instantaneous power-based asphalt cracking performance index. <i>Road Materials and Pavement Design</i> , 2019, 20, S315-S331.	4.0	21
33	Mixture-based rheological evaluation tool for cracking in asphalt pavements. <i>Road Materials and Pavement Design</i> , 2019, 20, S299-S314.	4.0	16
34	Asphalt mix fracture energy based reflective cracking performance criteria for overlay mix selection and design for pavements in cold climates. <i>Construction and Building Materials</i> , 2019, 211, 1025-1033.	7.2	19
35	Accuracy Assessment of Satellite-Based Freeze-Thaw Retrievals on Low-Volume Roads in the United States. <i>Transportation Research Record</i> , 2019, 2673, 756-766.	1.9	2
36	Performance Evaluation of Pelletized Solid Polymer Modified Asphalt Mixtures. <i>Transportation Research Record</i> , 0, , 036119812210833.	1.9	1