Joseph Herbert Podolsky

List of Publications by Year
in descending order

34	432	840119 11	752256 20
papers	citations	h-index	g-index

36	36	36	348
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low temperature performance of HMA using vacuum tower distillation bottoms modified with bio-derived rejuvenators according to the SCB test. International Journal of Pavement Engineering, 2022, 23, 231-239.	2.2	8
2	Performance Evaluation of Bioengineered Recycled Asphalt Materials. Transportation Research Record, 2022, 2676, 464-475.	1.0	3
3	Effect of blending protocol on the performance of SBS/sulfur/soybean-derived additive composite modified hard asphalt. International Journal of Pavement Engineering, 2021, 22, 1504-1517.	2.2	11
4	Rheology and mix performance of rejuvenated high RAP field produced hot mix asphalt with a soybean derived rejuvenator. Road Materials and Pavement Design, 2021, 22, 1894-1907.	2.0	9
5	Effect of bio-derived/chemical additives on HMA and WMA compaction and dynamic modulus performance. International Journal of Pavement Engineering, 2021, 22, 613-624.	2.2	2
6	The Improvement of Thermal Cracking Resistance and Fatigue Life of RAP-Incorporated Asphalt Mixtures with the Aid of Epoxidized Methyl Soyate (EMS). , 2021, , .		0
7	At the frontline for mitigating the undesired effects of recycled asphalt: An alternative bio oil-based modification approach. Construction and Building Materials, 2021, 310, 125253.	3.2	9
8	Rheological properties and effects of aging on acrylated epoxidised soybean oil monomer-modified asphalt binder. Road Materials and Pavement Design, 2020, 21, 347-373.	2.0	7
9	Development of High RAPâ€“High Performance Thin-Lift Overlay Mix Design Using a Soybean Oil-Derived Rejuvenator. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	9
10	Understanding Improvements to Low-Temperature Rheology of Stiff Binders Modified with Epoxidized Plantâ€“Derived Oil Materials through Analytical Chemistry. Journal of Testing and Evaluation, 2020, 48, 20180900.	0.4	1
11	Practical Approach to Mix Design with High Binder and Aggregate Replacement in Iowa using Fractionation. Transportation Research Record, 2019, 2673, 571-578.	1.0	0
12	Using viscosity models to predict the properties of rejuvenated reclaimed asphalt pavement (RAP) binders. Road Materials and Pavement Design, 2019, 20, S767-S779.	2.0	12
13	Preliminary Local Calibration of Performance Prediction Models in AASHTOWare Pavement ME Design for Flexible Pavement Rehabilitation in Oregon. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 05019002.	0.8	7
14	Determination of the optimum polystyrene parameters using asphalt binder modified with poly(styrene-acrylated epoxidised soybean oil) through response surface modelling. Road Materials and Pavement Design, 2019, 20, 572-591.	2.0	10
15	Effect of corn and soybean oil derived additives on polymer-modified HMA and WMA master curve construction and dynamic modulus performance. International Journal of Pavement Research and Technology, 2018, 11, 541-552.	1.3	24
16	A study of top-down cracking in the state of Oregon. Road Materials and Pavement Design, 2018, 19, 1771-1795.	2.0	3
17	Introducing a soybean oil-derived material as a potential rejuvenator of asphalt through rheology, mix characterisation and Fourier Transform Infrared analysis. Road Materials and Pavement Design, 2018, 19, 1750-1770.	2.0	40
18	Laboratory investigation of using acrylated epoxidized soybean oil (AESO) for asphalt modification. Construction and Building Materials, 2018, 187, 267-279.	3.2	27

#	Article	IF	Citations
19	Mechanistic empirical performance of warm-mix asphalt with select bio-derived additives in the Midwestern United States using AASHTOWare pavement ME design. Road Materials and Pavement Design, 2017, 18, 800-816.	2.0	6
20	Effect of bio-derived/chemical additives on warm mix asphalt compaction and mix performance at low temperature. Cold Regions Science and Technology, 2017, 136, 52-61.	1.6	17
21	Preliminary examination of soybean oil derived material as a potential rejuvenator through Superpave criteria and asphalt bitumen rheology. Construction and Building Materials, 2017, 149, 826-836.	3.2	94
22	Measurement and Finite Element Modeling of the Pavement Response to Superloads. , 2017, , .		2
23	Rejuvenation of vacuum tower bottoms through bio-derived materials for use in paving flexible roadways. Journal of Cleaner Production, 2017, 143, 1081-1093.	4.6	11
24	Preliminary investigation of bioadvantaged polymers as sustainable alternatives to petroleum-derived polymers for asphalt modification. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	20
25	Performance Evaluation of Coarse-Graded Field Mixtures Using Dynamic Modulus Results Gained from Testing in the Indirect Tension Mode. , 2016, , .		2
26	The rutting and stripping resistance of warm and hot mix asphalt using bio-additives. Construction and Building Materials, 2016, 112, 128-139.	3.2	16
27	Use of Bioadvantaged Materials for Use in Bituminous Modification. Transportation Research Procedia, 2016, 14, 3592-3600.	0.8	8
28	Effects of aging on rejuvenated vacuum tower bottom rheology through use of black diagrams, and master curves. Fuel, 2016, 185, 34-44.	3.4	25
29	Comparative performance of bio-derived/chemical additives in warm mix asphalt at low temperature. Materials and Structures/Materiaux Et Constructions, 2016, 49, 563-575.	1.3	26
30	Investigation of Isosorbide Distillation Bottoms as a Bio-Based Warm-Mix Additive. Journal of Materials in Civil Engineering, 2016, 28, 04015153.	1.3	11
31	Low Temperature Performance of Bio-Derived/Chemical Additives in Warm Mix Asphalt. , 2015, , .		1
32	Estimation and assessment of high temperature mix performance grade for select bio-based WMA additives. Construction and Building Materials, 2014, 69, 310-322.	3.2	5
33	Performance of field produced rejuvenated 30% RAP surface mix in Northwest Iowa. Road Materials and Pavement Design, 0, , 1-16.	2.0	3
34	Soybean Oil-Derived Additives Evaluated for Use in Bio-cutback and Bio-fog Seal Treatment. International Journal of Pavement Research and Technology, 0, , .	1.3	1