Aravind Krishna Swamy

List of Publications by Year
in descending order

40 papers	467 citations	840119 11 h-index	752256 20 g-index
40 all docs	40 docs citations	40 times ranked	435 citing authors

#	Article	IF	Citations
1	Viscoelastic properties of recycled asphalt binder containing waste engine oil. Journal of Cleaner Production, 2018, 182, 992-1000.	4.6	101
2	Pavement design with central plant hot-mix recycled asphalt mixes. Construction and Building Materials, 2007, 21, 928-936.	3.2	71
3	Continuous relaxation and retardation spectrum method for viscoelastic characterization of asphalt concrete. Mechanics of Time-Dependent Materials, 2012, 16, 287-305.	2.3	38
4	Regionalization of rainfall characteristics in India incorporating climatic variables and using self-organizing maps. ISH Journal of Hydraulic Engineering, 2018, 24, 147-156.	1.1	21
5	Development of probabilistic fatigue curve for asphalt concrete based on viscoelastic continuum damage mechanics. International Journal of Pavement Research and Technology, 2016, 9, 270-279.	1.3	20
6	Comparison of fatigue failure criterion in flexural fatigue test. International Journal of Fatigue, 2013, 55, 213-219.	2.8	18
7	Prediction of dynamic modulus of asphalt concrete using hybrid machine learning technique. International Journal of Pavement Engineering, 2022, 23, 2083-2098.	2.2	18
8	Effect of HDPEH polymer on viscoelastic properties of SBS modified asphalt. Construction and Building Materials, 2017, 136, 230-236.	3.2	17
9	An improved artificial bee colony algorithm for pavement resurfacing problem. International Journal of Pavement Research and Technology, 2018, 11, 509-516.	1.3	15
10	Impact of RAP on the Volumetric, Stiffness, Strength, and Low-Temperature Properties of HMA. Journal of Materials in Civil Engineering, 2011, 23, 1490-1497.	1.3	13
11	Probabilistic approach to characterise laboratory rutting behaviour of asphalt concrete mixtures. International Journal of Pavement Engineering, 2020, 21, 384-396.	2.2	12
12	Probabilistic characterisation of damage characteristic curve of asphalt concrete mixtures. International Journal of Pavement Engineering, 2019, 20, 659-668.	2.2	11
13	Properties of asphalt binder and asphalt concrete containing waste polyethylene. Petroleum Science and Technology, 2017, 35, 495-500.	0.7	10
14	Effect of Mode of Loading on Viscoelastic and Damage Properties of Asphalt Concrete. Transportation Research Record, 2012, 2296, 144-152.	1.0	9
15	IMPACT OF RECYCLED ASPHALT PAVEMENT ON PROPERTIES OF FOAMED BITUMINOUS MIXTURES. Baltic Journal of Road and Bridge Engineering, 2018, 13, 14-22.	0.4	9
16	Preliminary Constituent Proportioning for Central Plant Hotmix Asphalt Recycling. Journal of Materials in Civil Engineering, 2007, 19, 740-745.	1.3	8
17	Impact of Chemical Composition on Foaming Characteristics of Asphalt Binder. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020045.	0.8	6
18	Quantification of Uncertainty in the Master Curves of Viscoelastic Properties of Asphalt Concrete. Advances in Civil Engineering Materials, 2018, 7, 149-162.	0.2	6

#	Article	IF	Citations
19	Time-temperature-dosage superposition approach to predict the complex modulus of asphalt binders. Construction and Building Materials, 2022, 329, 127140.	3.2	6
20	Use of angle of repose of aggregates as an indicator of asphalt concrete properties. Construction and Building Materials, 2018, 168, 849-857.	3.2	5
21	Effect of aging level on viscoelastic properties of asphalt binder containing waste polyethylene. International Journal of Sustainable Engineering, 2019, 12, 141-148.	1.9	5
22	Effect of Construction Methodology on Uncertainty in Asphalt Concrete Mastercurves. Journal of Transportation Engineering Part B: Pavements, 2019, 145, 04019021.	0.8	5
23	Optimal proportioning for hot recycled mix design under Superpave mix design consideration. Canadian Journal of Civil Engineering, 2009, 36, 1470-1477.	0.7	4
24	Constituent Proportioning in Recycled Asphalt Mix with Multiple RAP Sources. Procedia, Social and Behavioral Sciences, 2013, 104, 21-28.	0.5	4
25	Impact of binder on properties of foamed bituminous mixtures. Proceedings of Institution of Civil Engineers: Construction Materials, 2017, 170, 194-204.	0.7	4
26	Improving quality control through chance constrained programming: A case study using Bailey method. International Journal of Pavement Research and Technology, 2018, 11, 128-137.	1.3	4
27	Prediction of density and viscosity of bitumen. Petroleum Science and Technology, 2018, 36, 1779-1786.	0.7	4
28	Modelling of expansion ratio and half-life of foamed bitumen using gene expressionÂprogramming. International Journal of Pavement Engineering, 2021, 22, 369-381.	2.2	4
29	Impact of low viscosity grade bitumen on foaming characteristics. Journal of the South African Institution of Civil Engineering, 2018, 60, 40-52.	0.3	4
30	Effect of SBS and HDPH polymer on rheological properties of asphalt. Petroleum Science and Technology, 2016, 34, 1790-1796.	0.7	3
31	Systematic error patterns in dynamic modulus predictive models of asphalt concrete. International Journal of Pavement Engineering, 2022, 23, 4049-4064.	2.2	3
32	SOM-and-GEP-Based Model for the Prediction of Foamed Bitumen Characteristics. Journal of Transportation Engineering Part B: Pavements, 2021, 147, 04021008.	0.8	3
33	Reclaimed Waste Materials in Sustainable Pavement Construction. Green Energy and Technology, 2014, , 419-438.	0.4	2
34	A Critical Review of Endurance Limits of Bituminous Mixes for Developing Countries. Transportation Research Procedia, 2016, 17, 438-444.	0.8	1
35	Interrelationship between uncompacted void content of aggregates and asphalt concrete properties. Particulate Science and Technology, 2019, 37, 623-631.	1.1	1
36	Use of Bayesian Model Averaging to Estimate Model Uncertainty for Predicting Strain in a Four-Layered Flexible Pavement. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, 04021002.	1.1	1

#	Article	IF	Citations
37	Continuous spectrum approach to evaluate the effect of binder modification and aging. International Journal of Pavement Engineering, 2023, 24, .	2.2	1
38	Gene expression programming-based viscosity-mixing rule for asphalt blends. Petroleum Science and Technology, 2017, 35, 1508-1514.	0.7	0
39	A comprehensive approach to evaluate presence and propagation of uncertainty in asphalt binder mastercurves. International Journal of Pavement Engineering, 2021, 22, 842-857.	2.2	0
40	Application of Bee Colony Algorithm for Pavement Resurfacing Problem. , 2016, , .		0