

Ghassan R Chehab

List of Publications by Year in descending order

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59
docs citations

59
times ranked

813
citing authors

#	ARTICLE	IF	CITATIONS
1	Kalman filter updating of rutting predictive models in flexible pavements using measured field data. International Journal of Pavement Engineering, 2023, 24, .	4.4	0
2	The use of deep neural networks for developing generic pavement rutting predictive models. International Journal of Pavement Engineering, 2022, 23, 4260-4276.	4.4	22
3	Benchmarking pavement practices in data-scarce regions “ case of Saudi Arabia. International Journal of Pavement Engineering, 2021, 22, 294-306.	4.4	3
4	Characterisation of the mechanical performance of asphalt concrete mixtures with selected WMA additives. International Journal of Pavement Engineering, 2021, 22, 625-642.	4.4	10
5	Design, construction, and evaluation of energy-harvesting asphalt pavement systems. Road Materials and Pavement Design, 2020, 21, 1647-1674.	4.0	10
6	Using different performance measures for the sustainability assessment of asphalt mixtures: case of warm mix asphalt in a hot climate. Road Materials and Pavement Design, 2020, 21, 1-24.	4.0	18
7	Framework for Hybrid Performance-Based Quality Assurance for Flexible Airfield Pavements. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020025.	1.5	2
8	Investigating High-Temperature PG Grade Adjustment Recommendations for Airfield Pavements. Transportation Research Record, 2019, 2673, 365-373.	1.9	6
9	Assessment of the Physico-Chemical Properties of Waste Cooking Oil and Spent Coffee Grounds Oil for Potential Use as Asphalt Binder Rejuvenators. Waste and Biomass Valorization, 2018, 9, 2125-2132.	3.4	36
10	Quantification of the inherent uncertainty in the relaxation modulus and creep compliance of asphalt mixes. Mechanics of Time-Dependent Materials, 2018, 22, 331-350.	4.4	10
11	Advanced Characterization of Asphalt Concrete Mixtures Reinforced with Synthetic Fibers. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	9
12	Studies of the effect of recycled aggregates on flexural, shear, and bond splitting beam structural behavior. Case Studies in Construction Materials, 2018, 9, e00186.	1.7	18
13	Implementation Initiatives of the Mechanistic-Empirical Pavement Design Guide in Countries with Insufficient Design Input Data “ The Case of Lebanon. Sustainable Civil Infrastructures, 2018, , 147-167.	0.2	3
14	Inherent Variability in the Parameters Describing the Linear Viscoelastic Response of Asphalt Concrete. , 2017, , .		2
15	Integrating the Dynamic Modulus of Asphalt Mixes in the 1993 AASHTO Design Method. Transportation Research Record, 2017, 2640, 29-40.	1.9	4
16	Behavioral determinants towards enhancing construction waste management: A Bayesian Network analysis. Resources, Conservation and Recycling, 2017, 117, 274-284.	10.8	84
17	Probabilistic Modeling of the Inherent Variability in the Dynamic Modulus Master Curve of Asphalt Concrete. Transportation Research Record, 2016, 2576, 60-71.	1.9	20
18	The use of geogrid reinforcement for enhancing the performance of concrete overlays: An experimental and numerical assessment. Construction and Building Materials, 2016, 124, 826-837.	7.2	30

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19	Finite Element Approach to Assess the Benefits of Asphalt Solar Collectors. Transportation Research Record, 2016, 2575, 79-91.	1.9	13
20	Rejuvenators for Asphalt Binders Using Oil Extracted from Spent Coffee Grounds. , 2016, , .		3
21	Method to Investigate Mix Design Parameters of Pervious Concrete Mixtures. Transportation Research Record, 2016, 2577, 43-52.	1.9	0
22	Recycling cementitious constituents of construction demolition waste in asphalt mixes: the case of Lebanon. International Journal of Sustainable Society, 2016, 8, 109.	0.1	4
23	Life - Cycle Evaluation of Pavements: A Critical Review. Journal of Engineering Science and Technology Review, 2016, 9, 12-26.	0.4	8
24	Probabilistic Modeling of Dynamic Modulus Master Curves for Hot-Mix Asphalt Mixtures. Transportation Research Record, 2015, 2507, 90-99.	1.9	11
25	A field based methodology for estimating waste generation rates at various stages of construction projects. Resources, Conservation and Recycling, 2015, 100, 70-80.	10.8	65
26	Framework for Low-Temperature Cracking Analysis of Asphalt Mixtures Using a Viscoelastic Continuum Damage Model. Journal of Materials in Civil Engineering, 2015, 27, 04014265.	2.9	1
27	Performance-Based Specifications for Sustainable Pavements: A Lean Engineering Analysis. Energy Procedia, 2015, 74, 453-461.	1.8	9
28	An FEM-predictive tool for simulating the cooling characteristics of freshly paved asphalt concrete layers. International Journal of Pavement Engineering, 2015, 16, 157-167.	4.4	16
29	Flexural Behavior of Concrete Beams Reinforced with Different Types of Geogrids. Journal of Materials in Civil Engineering, 2014, 26, .	2.9	58
30	Methodology for relating accelerated trafficking to field trafficking for pavement evaluation. KSCE Journal of Civil Engineering, 2014, 18, 505-513.	1.9	2
31	Effectiveness of the earth tube heat exchanger system coupled to a space model in achieving thermal comfort in rural areas. International Journal of Sustainable Energy, 2014, 33, 567-586.	2.4	14
32	Pilot-based assessment of the economics of recycling construction demolition waste. Waste Management and Research, 2013, 31, 1170-1179.	3.9	31
33	Evaluation of Low-Temperature Properties of Asphalt Binders and Mixtures. Transportation Research Record, 2013, 2370, 102-108.	1.9	3
34	Construction Demolition Waste Management in Lebanon. , 2012, , .		7
35	The use of a multi-set-up, reduced-scale accelerated trafficking simulator for evaluating roadway systems and products. International Journal of Pavement Engineering, 2012, 13, 535-552.	4.4	4
36	Investigation of Ultra-Rapid-Setting Emulsion for Tack Coat Applications. Transportation Research Record, 2012, 2293, 80-88.	1.9	2

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37	Recycling construction materials in a developing country: four case studies. Journal of Evidence-Based Medicine, 2012, 3, 135.	1.8	4
38	A numerical modeling approach to evaluate energy-efficient mechanical ventilation strategies. Energy and Buildings, 2012, 55, 618-630.	6.7	31
39	Developing a Carbon Footprint Calculator for Construction Buildings. , 2012, , .		2
40	A Framework for Managing Construction Demolition Waste: Economic Determinants of Recycling. , 2012, , .		3
41	Use of creep compliance interconverted from complex modulus for thermal cracking prediction using the Mâ€E pavement design guide. International Journal of Pavement Engineering, 2010, 11, 95-105.	4.4	6
42	Evaluation of Slip Resistant Plates for Roadway Applications. Journal of Testing and Evaluation, 2010, 38, 567-574.	0.7	0
43	Exploratory Analysis of Accelerated Wear Testing to Evaluate Performance of Pavement Markings. Transportation Research Record, 2009, 2107, 76-84.	1.9	10
44	Accelerated Testing of Geogrid-Reinforced Subgrade in Flexible Pavements. , 2008, , .		5
45	Evaluation of geogrids for stabilising weak pavement subgrade. International Journal of Pavement Engineering, 2008, 9, 413-429.	4.4	53
46	Laboratory Study on Effects of Geogrid Properties on Subgrade Stabilization of Flexible Pavements. , 2008, , .		4
47	Determination of Time-domain Viscoelastic Functions using Optimized Interconversion Techniques. Road Materials and Pavement Design, 2007, 8, 351-365.	4.0	54
48	Viscoelastoplastic Damage Characterization of Asphaltâ€Aggregate Mixtures Using Digital Image Correlation. International Journal of Geomechanics, 2007, 7, 111-118.	2.7	50
49	Determination of Time-domain Viscoelastic Functions using Optimized Interconversion Techniques. Road Materials and Pavement Design, 2007, 8, 351-365.	4.0	14
50	Evaluating Recycled Asphalt Pavement Mixtures with Mechanisticâ€Empirical Pavement Design Guide Level 3 Analysis. Transportation Research Record, 2006, 1962, 90-100.	1.9	2
51	Evaluating Recycled Asphalt Pavement Mixtures with Mechanistic-Empirical Pavement Design Guide Level 3 Analysis. Transportation Research Record, 2006, 1962, 90-100.	1.9	5
52	A Case Study: Assessing the Sensitivity of the Coefficient of Thermal Contraction of AC Mixtures on Thermal Crack Prediction. , 2005, , 115.		0
53	Implementing the Mechanisticâ€Empirical Design Guide Procedure for a Hot-Mix Asphaltâ€Rehabilitated Pavement in Indiana. Transportation Research Record, 2005, 1919, 121-133.	1.9	8
54	Viscoelastoplastic Continuum Damage Model Application to Thermal Cracking of Asphalt Concrete. Journal of Materials in Civil Engineering, 2005, 17, 384-392.	2.9	35

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55	Application of a viscoelastoplastic continuum damage tensile model to asphalt mixes in Sweden. Road Materials and Pavement Design, 2004, 5, 133-161.	4.0	3
56	Issues Affecting Measurement of the Complex Modulus of Asphalt Concrete. Journal of Materials in Civil Engineering, 2004, 16, 469-476.	2.9	13
57	Purchasing and Payment Policies for Building Construction Materials. , 2000, , 574.		1
58	Specimen Geometry Study for Direct Tension Test Based on Mechanical Tests and Air Void Variation in Asphalt Concrete Specimens Compacted by Superpave Gyratory Compactor. Transportation Research Record, 2000, 1723, 125-132.	1.9	48