Ghassan R Chehab

List of Publications by Year
in descending order

58 papers	**891** citations	516710 **16** h-index	501196 **28** g-index
59 all docs	**59** docs citations	**59** times ranked	**813** citing authors

#	Article	IF	Citations
1	Behavioral determinants towards enhancing construction waste management: A Bayesian Network analysis. Resources, Conservation and Recycling, 2017, 117, 274-284.	10.8	84
2	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
3	Flexural Behavior of Concrete Beams Reinforced with Different Types of Geogrids. Journal of Materials in Civil Engineering, 2014, 26, .	2.9	58
4	Determination of Time-domain Viscoelastic Functions using Optimized Interconversion Techniques. Road Materials and Pavement Design, 2007, 8, 351-365.	4.0	54
5	Evaluation of geogrids for stabilising weak pavement subgrade. International Journal of Pavement Engineering, 2008, 9, 413-429.	4.4	53
6	Viscoelastoplastic Damage Characterization of Asphaltâ€"Aggregate Mixtures Using Digital Image Correlation. International Journal of Geomechanics, 2007, 7, 111-118.	2.7	50
7	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
8	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
9	Viscoelastoplastic Continuum Damage Model Application to Thermal Cracking of Asphalt Concrete. Journal of Materials in Civil Engineering, 2005, 17, 384-392.	2.9	35
10	A numerical modeling approach to evaluate energy-efficient mechanical ventilation strategies. Energy and Buildings, 2012, 55, 618-630.	6.7	31
11	Pilot-based assessment of the economics of recycling construction demolition waste. Waste Management and Research, 2013, 31, 1170-1179.	3.9	31
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	Determination of Time-domain Viscoelastic Functions using Optimized Interconversion Techniques. Road Materials and Pavement Design, 2007, 8, 351-365.	4.0	14
20	Issues Affecting Measurement of the Complex Modulus of Asphalt Concrete. Journal of Materials in Civil Engineering, 2004, 16, 469-476.	2.9	13
21	Finite Element Approach to Assess the Benefits of Asphalt Solar Collectors. Transportation Research Record, 2016, 2575, 79-91.	1.9	13
22	Probabilistic Modeling of Dynamic Modulus Master Curves for Hot-Mix Asphalt Mixtures. Transportation Research Record, 2015, 2507, 90-99.	1.9	11
23	Exploratory Analysis of Accelerated Wear Testing to Evaluate Performance of Pavement Markings. Transportation Research Record, 2009, 2107, 76-84.	1.9	10
24	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
25	Design, construction, and evaluation of energy-harvesting asphalt pavement systems. Road Materials and Pavement Design, 2020, 21, 1647-1674.	4.0	10
26	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
27	Performance-Based Specifications for Sustainable Pavements: A Lean Engineering Analysis. Energy Procedia, 2015, 74, 453-461.	1.8	9
28	Advanced Characterization of Asphalt Concrete Mixtures Reinforced with Synthetic Fibers. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	9
29	Implementing the Mechanistic–Empirical Design Guide Procedure for a Hot-Mix Asphalt–Rehabilitated Pavement in Indiana. Transportation Research Record, 2005, 1919, 121-133.	1.9	8
30	Life - Cycle Evaluation of Pavements: A Critical Review. Journal of Engineering Science and Technology Review, 2016, 9, 12-26.	0.4	8
31	Construction Demolition Waste Management in Lebanon. , 2012, , .		7
32	Use of creep compliance interconverted from complex modulus for thermal cracking prediction using the M–E pavement design guide. International Journal of Pavement Engineering, 2010, 11, 95-105.	4.4	6
33	Investigating High-Temperature PG Grade Adjustment Recommendations for Airfield Pavements. Transportation Research Record, 2019, 2673, 365-373.	1.9	6
34	Accelerated Testing of Geogrid-Reinforced Subgrade in Flexible Pavements. , 2008, , .		5
35	Evaluating Recycled Asphalt Pavement Mixtures with Mechanistic-Empirical Pavement Design Guide Level 3 Analysis. Transportation Research Record, 2006, 1962, 90-100.	1.9	5
36	Laboratory Study on Effects of Geogrid Properties on Subgrade Stabilization of Flexible Pavements. , 2008, , .		4

#	Article	IF	Citations
37	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
38	Recycling construction materials in a developing country: four case studies. Journal of Evidence-Based Medicine, 2012, 3, 135.	1.8	4
39	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
40	Integrating the Dynamic Modulus of Asphalt Mixes in the 1993 AASHTO Design Method. Transportation Research Record, 2017, 2640, 29-40.	1.9	4
41	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
42	A Framework for Managing Construction Demolition Waste: Economic Determinants of Recycling. , 2012, , .		3
43	Evaluation of Low-Temperature Properties of Asphalt Binders and Mixtures. Transportation Research Record, 2013, 2370, 102-108.	1.9	3
44	Rejuvenators for Asphalt Binders Using Oil Extracted from Spent Coffee Grounds. , 2016, , .		3
45	Benchmarking pavement practices in data-scarce regions â€" case of Saudi Arabia. International Journal of Pavement Engineering, 2021, 22, 294-306.	4.4	3
46	Implementation Initiatives of the Mechanistic-Empirical Pavement Design Guide in Countries with Insufficient Design Input Data â€" The Case of Lebanon. Sustainable Civil Infrastructures, 2018, , 147-167.	0.2	3
47	Evaluating Recycled Asphalt Pavement Mixtures with Mechanisticâ€"Empirical Pavement Design Guide Level 3 Analysis. Transportation Research Record, 2006, 1962, 90-100.	1.9	2
48	Investigation of Ultra-Rapid-Setting Emulsion for Tack Coat Applications. Transportation Research Record, 2012, 2293, 80-88.	1.9	2
49	Developing a Carbon Footprint Calculator for Construction Buildings. , 2012, , .		2
50	Methodology for relating accelerated trafficking to field trafficking for pavement evaluation. KSCE Journal of Civil Engineering, 2014, 18, 505-513.	1.9	2
51	Inherent Variability in the Parameters Describing the Linear Viscoelastic Response of Asphalt Concrete. , 2017, , .		2
52	Framework for Hybrid Performance-Based Quality Assurance for Flexible Airfield Pavements. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020025.	1.5	2
53	Purchasing and Payment Policies for Building Construction Materials. , 2000, , 574.		1
54	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

#	Article	IF	Citations
55	A Case Study: Assessing the Sensitivity of the Coefficient of Thermal Contraction of AC Mixtures on Thermal Crack Prediction. , 2005, , 115.		0
56	Method to Investigate Mix Design Parameters of Pervious Concrete Mixtures. Transportation Research Record, 2016, 2577, 43-52.	1.9	0
57	Evaluation of Slip Resistant Plates for Roadway Applications. Journal of Testing and Evaluation, 2010, 38, 567-574.	0.7	0
58	Kalman filter updating of rutting predictive models in flexible pavements using measured field data. International Journal of Pavement Engineering, 2023, 24, .	4.4	0