Zhanping You

List of Publications by Citations

440 papers	11,425 citations	53 h-index	84 g-index
477 ext. papers	14,116 ext. citations	4.6 avg, IF	7.21 L-index

#	Paper	IF	Citations
440	Nanoclay-modified asphalt materials: Preparation and characterization. *Construction and Building Materials*, **2011**, 25, 1072-1078	6.7	278
439	Rheological Properties and Chemical Bonding of Asphalt Modified with Nanosilica. *Journal of Materials in Civil Engineering*, **2013**, 25, 1619-1630	3	216
438	Performance of Warm Mix Asphalt containing Sasobit : State-of-the-art. *Construction and Building Materials*, **2013**, 38, 530-553	6.7	214
437	Chemical Characterization of Biobinder from Swine Manure: Sustainable Modifier for Asphalt Binder. *Journal of Materials in Civil Engineering*, **2011**, 23, 1506-1513	3	212
436	Developments of nano materials and technologies on asphalt materials A review. *Construction and Building Materials*, **2017**, 143, 633-648	6.7	185
435	Discrete Element Modeling to Predict the Modulus of Asphalt Concrete Mixtures. *Journal of Materials in Civil Engineering*, **2004**, 16, 140-146	3	178
434	Rheological properties and chemical analysis of nanoclay and carbon microfiber modified asphalt with Fourier transform infrared spectroscopy. *Construction and Building Materials*, **2013**, 38, 327-337	6.7	172
433	The mechanical properties of asphalt mixtures with Recycled Concrete Aggregates. *Construction and Building Materials*, **2010**, 24, 230-235	6.7	161
432	Discrete Element Modeling of Asphalt Concrete: Microfabric Approach. *Transportation Research Record*, **2001**, 1757, 111-118	1.7	161
431	Laboratory evaluation on high temperature viscosity and low temperature stiffness of asphalt binder with high percent scrap tire rubber. *Construction and Building Materials*, **2012**, 26, 583-590	6.7	156
430	Prediction of Creep Stiffness of Asphalt Mixture with Micromechanical Finite-Element and Discrete-Element Models. *Journal of Engineering Mechanics - ASCE*, **2007**, 133, 163-173	2.4	145
429	High temperature performance evaluation of bio-oil modified asphalt binders using the DSR and MSCR tests. *Construction and Building Materials*, **2015**, 76, 380-387	6.7	143
428	Viscoelastic Model for Discrete Element Simulation of Asphalt Mixtures. *Journal of Engineering Mechanics - ASCE*, **2009**, 135, 324-333	2.4	143
427	Chemical characterization and oxidative aging of bio-asphalt and its compatibility with petroleum asphalt. *Journal of Cleaner Production*, **2017**, 142, 1837-1847	10.3	142
426	Mechanical performance of asphalt mixtures modified by bio-oils derived from waste wood resources. *Construction and Building Materials*, **2014**, 51, 424-431	6.7	135
425	Three-Dimensional Discrete Element Models for Asphalt Mixtures. *Journal of Engineering Mechanics - ASCE*, **2008**, 134, 1053-1063	2.4	130
424	Fourier Transform Infrared Spectroscopy characterization of aging-related properties of original and nano-modified asphalt binders. *Construction and Building Materials*, **2015**, 101, 1078-1087	6.7	127

423	Performance of asphalt binder blended with non-modified and polymer-modified nanoclay. *Construction and Building Materials*, **2012**, 35, 159-170	6.7	122
422	Dynamic modulus simulation of the asphalt concrete using the X-ray computed tomography images. *Materials and Structures/Materiaux Et Constructions*, **2009**, 42, 617-630	3.4	122
421	Effect of deicing solutions on the tensile strength of micro- or nano-modified asphalt mixture. *Construction and Building Materials*, **2011**, 25, 195-200	6.7	121
420	Evaluation of Low-Temperature Binder Properties of Warm-Mix Asphalt, Extracted and Recovered RAP and RAS, and Bioasphalt. *Journal of Materials in Civil Engineering*, **2011**, 23, 1569-1574	3	114
419	Partial replacement of asphalt binder with bio-binder: characterisation and modification. *International Journal of Pavement Engineering*, **2012**, 13, 515-522	2.6	112
418	Visualization and Simulation of Asphalt Concrete with Randomly Generated Three-Dimensional Models. *Journal of Computing in Civil Engineering*, **2009**, 23, 340-347	5	110
417	The impact of bio-oil as rejuvenator for aged asphalt binder. *Construction and Building Materials*, **2019**, 196, 134-143	6.7	104
416	Aging Influence on Rheology Properties of Petroleum-Based Asphalt Modified with Biobinder. *Journal of Materials in Civil Engineering*, **2014**, 26, 358-366	3	99
415	. *IEEE Sensors Journal*, **2008**, 8, 2053-2058	4	98
414	Preparation of composite shape-stabilized phase change materials for highway pavements. *Construction and Building Materials*, **2013**, 42, 114-121	6.7	92
413	Asphalt Binders Blended with a High Percentage of Biobinders: Aging Mechanism Using FTIR and Rheology. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014157	3	90
412	Molecular dynamics simulation of physicochemical properties of the asphalt model. *Fuel*, **2016**, 164, 83-93	7.1	86
411	Laboratory performance of warm mix asphalt containing recycled asphalt mixtures. *Construction and Building Materials*, **2014**, 64, 141-149	6.7	83
410	Environmental and mechanical performance of crumb rubber modified warm mix asphalt using Evotherm. *Journal of Cleaner Production*, **2017**, 159, 346-358	10.3	80
409	Analysis on fatigue crack growth laws for crumb rubber modified (CRM) asphalt mixture. *Construction and Building Materials*, **2013**, 47, 1342-1349	6.7	78
408	High temperature performance of SBS modified bio-asphalt. *Construction and Building Materials*, **2017**, 144, 99-105	6.7	74
407	Modification mechanism of asphalt binder with waste tire rubber and recycled polyethylene. *Construction and Building Materials*, **2016**, 126, 66-76	6.7	73
406	Effect of warm mixture asphalt (WMA) additives on high failure temperature properties for crumb rubber modified (CRM) binders. *Construction and Building Materials*, **2012**, 35, 281-288	6.7	71

405	Emission analysis of recycled tire rubber modified asphalt in hot and warm mix conditions. *Journal of Hazardous Materials*, **2019**, 365, 942-951	12.8	70
404	Effectiveness of Vegetable Oils as Rejuvenators for Aged Asphalt Binders. *Journal of Materials in Civil Engineering*, **2017**, 29,	3	69
403	Mechanical Properties of Porous Asphalt Pavement Materials with Warm Mix Asphalt and RAP. *Journal of Transportation Engineering*, **2012**, 138, 90-97		69
402	Rheological properties of asphalts modified by waste tire rubber and reclaimed low density polyethylene. *Construction and Building Materials*, **2015**, 83, 143-149	6.7	68
401	Chemo-physical analysis and molecular dynamics (MD) simulation of moisture susceptibility of nano hydrated lime modified asphalt mixtures. *Construction and Building Materials*, **2015**, 101, 536-547	6.7	67
400	Effect of short-term ageing temperature on bitumen properties. *Road Materials and Pavement Design*, **2017**, 18, 108-117	2.6	66
399	Laboratory investigation on chemical and rheological properties of bio-asphalt binders incorporating waste cooking oil. *Construction and Building Materials*, **2018**, 167, 348-358	6.7	66
398	Investigation of induction healing effects on electrically conductive asphalt mastic and asphalt concrete beams through fracture-healing tests. *Construction and Building Materials*, **2013**, 49, 729-737	6.7	64
397	Using bio-based rejuvenator derived from waste wood to recycle old asphalt. *Construction and Building Materials*, **2018**, 189, 568-575	6.7	64
396	Rheological properties, low-temperature cracking resistance, and optical performance of exfoliated graphite nanoplatelets modified asphalt binder. *Construction and Building Materials*, **2016**, 113, 988-996	6.7	63
395	Investigation of the rheological modification mechanism of crumb rubber modified asphalt (CRMA) containing TOR additive. *Construction and Building Materials*, **2014**, 67, 225-233	6.7	62
394	A simple stepwise method to determine and evaluate the initiation of tertiary flow for asphalt mixtures under dynamic creep test. *Construction and Building Materials*, **2009**, 23, 3398-3405	6.7	59
393	Discrete element modeling of realistic particle shapes in stone-based mixtures through MATLAB-based imaging process. *Construction and Building Materials*, **2017**, 143, 169-178	6.7	58
392	Preliminary Dynamic Modulus Criteria of HMA for Field Rutting of Asphalt Pavements: Michigan's Experience. *Journal of Transportation Engineering*, **2011**, 137, 37-45		58
391	Normalization of fatigue characteristics for asphalt mixtures under different stress states. *Construction and Building Materials*, **2018**, 177, 33-42	6.7	57
390	Warm mix asphalt technology: An up to date review. *Journal of Cleaner Production*, **2020**, 268, 122128	10.3	56
389	Discrete-Element Modeling: Impacts of Aggregate Sphericity, Orientation, and Angularity on Creep Stiffness of Idealized Asphalt Mixtures. *Journal of Engineering Mechanics - ASCE*, **2011**, 137, 294-303	2.4	54
388	High-temperature rheological behavior and fatigue performance of lignin modified asphalt binder. *Construction and Building Materials*, **2020**, 230, 117063	6.7	54

387	The determination of mechanical performance of laboratory produced hot mix asphalt mixtures using controlled RAP and virgin aggregate size fractions. *Construction and Building Materials*, **2012**, 26, 655-662	6.7	53
386	Optimization of bio-asphalt using bio-oil and distilled water. *Journal of Cleaner Production*, **2017**, 165, 281-289	10.3	53
385	Micromechanical finite element framework for predicting viscoelastic properties of asphalt mixtures. *Materials and Structures/Materiaux Et Constructions*, **2008**, 41, 1025-1037	3.4	53
384	Review on heterogeneous model reconstruction of stone-based composites in numerical simulation. *Construction and Building Materials*, **2016**, 117, 229-243	6.7	52
383	Analysis of interfacial adhesion properties of nano-silica modified asphalt mixtures using molecular dynamics simulation. *Construction and Building Materials*, **2020**, 255, 119354	6.7	51
382	The properties of asphalt binder blended with variable quantities of recycled asphalt using short term and long term aging simulations. *Construction and Building Materials*, **2012**, 26, 552-557	6.7	51
381	A micromechanical finite element model for linear and damage-coupled viscoelastic behaviour of asphalt mixture. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2006**, 30, 1135-1158	4	51
380	Performance evaluation of high-elastic asphalt mixture containing deicing agent Mafilon. *Construction and Building Materials*, **2015**, 94, 494-501	6.7	49
379	Micromechanical Modeling Approach to Predict Compressive Dynamic Moduli of Asphalt Mixtures Using the Distinct Element Method		49
378	Effects of coarse aggregate angularity on the microstructure of asphalt mixture. *Construction and Building Materials*, **2018**, 183, 472-484	6.7	48
377	Evaluation of aggregate resistance to wear with Micro-Deval test in combination with aggregate imaging techniques. *Wear*, **2015**, 338-339, 288-296	3.5	47
376	Three-Dimensional Microstructural-Based Discrete Element Viscoelastic Modeling of Creep Compliance Tests for Asphalt Mixtures. *Journal of Materials in Civil Engineering*, **2011**, 23, 79-87	3	47
375	Investigation of microwave healing performance of electrically conductive carbon fiber modified asphalt mixture beams. *Construction and Building Materials*, **2016**, 126, 1012-1019	6.7	46
374	Three-dimensional discrete element modeling of asphalt concrete: Size effects of elements. *Construction and Building Materials*, **2012**, 37, 775-782	6.7	46
373	Characterization of the rate of change of rheological properties of nano-modified asphalt. *Construction and Building Materials*, **2015**, 98, 437-446	6.7	45
372	Research on properties of bio-asphalt binders based on time and frequency sweep test. *Construction and Building Materials*, **2018**, 160, 786-793	6.7	45
371	Lab assessment and discrete element modeling of asphalt mixture during compaction with elongated and flat coarse aggregates. *Construction and Building Materials*, **2018**, 182, 573-579	6.7	44
370	Using discrete element models to track movement of coarse aggregates during compaction of asphalt mixture. *Construction and Building Materials*, **2018**, 189, 338-351	6.7	43

369	Characteristics of Water-Foamed Asphalt Mixture under Multiple Freeze-Thaw Cycles: Laboratory Evaluation. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018270	3	42
368	Shear property, high-temperature rheological performance and low-temperature flexibility of asphalt mastics modified with bio-oil. *Construction and Building Materials*, **2018**, 174, 30-37	6.7	41
367	A comprehensive review of theory, development, and implementation of warm mix asphalt using foaming techniques. *Construction and Building Materials*, **2017**, 152, 115-133	6.7	41
366	Study on the rubber-modified asphalt mixtures□racking propagation using the extended finite element method. *Construction and Building Materials*, **2013**, 47, 223-230	6.7	41
365	Thermal Storage Stability of Bio-Oil Modified Asphalt. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018054	3	40
364	Characterization of Low Temperature Crack Resistance of Crumb Rubber Modified Asphalt Mixtures Using Semi-Circular Bending Tests. *Journal of Testing and Evaluation*, **2016**, 44, 20150145	1	40
363	Small and large strain rheological characterizations of polymer- and crumb rubber-modified asphalt binders. *Construction and Building Materials*, **2017**, 144, 168-177	6.7	39
362	Laboratory performance of warm mix asphalt binder containing polyphosphoric acid. *Construction and Building Materials*, **2016**, 106, 218-227	6.7	39
361	Effect of silane coupling agent on improving the adhesive properties between asphalt binder and aggregates. *Construction and Building Materials*, **2018**, 169, 591-600	6.7	38
360	3D discrete element models of the hollow cylindrical asphalt concrete specimens subject to the internal pressure. *International Journal of Pavement Engineering*, **2010**, 11, 429-439	2.6	38
359	Spectral element method for dynamic response of transversely isotropic asphalt pavement under impact load. *Road Materials and Pavement Design*, **2018**, 19, 223-238	2.6	37
358	Properties of Modified Asphalt Binders Blended with Electronic Waste Powders. *Journal of Materials in Civil Engineering*, **2012**, 24, 1261-1267	3	37
357	Impacts of recycled crumb rubber powder and natural rubber latex on the modified asphalt rheological behaviour, bonding, and resistance to shear. *Construction and Building Materials*, **2020**, 234, 117357	6.7	37
356	Preparation and anti-icing properties of a superhydrophobic silicone coating on asphalt mixture. *Construction and Building Materials*, **2018**, 189, 227-235	6.7	37
355	Laboratory moisture susceptibility evaluation of WMA under possible field conditions. *Construction and Building Materials*, **2015**, 101, 57-64	6.7	36
354	Evaluation of the effect of bio-oil on the high-temperature performance of rubber modified asphalt. *Construction and Building Materials*, **2018**, 191, 692-701	6.7	36
353	Characterising the asphalt concrete fracture performance from X-ray CT Imaging and finite element modelling. *International Journal of Pavement Engineering*, **2018**, 19, 307-318	2.6	35
352	A simple treatment of electronic-waste plastics to produce asphalt binder additives with improved properties. *Construction and Building Materials*, **2016**, 110, 79-88	6.7	35

351	Rheological Behavior and Sensitivity of Wood-Derived Bio-Oil Modified Asphalt Binders. *Applied Sciences (Switzerland)*, **2018**, 8, 919	2.6	35
350	Exploring the Interactions of Chloride Deicer Solutions with Nanomodified and Micromodified Asphalt Mixtures Using Artificial Neural Networks. *Journal of Materials in Civil Engineering*, **2012**, 24, 805-815	3	35
349	New Predictive Equations for Dynamic Modulus and Phase Angle Using a Nonlinear Least-Squares Regression Model. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014131	3	34
348	Innovation of aggregate angularity characterization using gradient approach based upon the traditional and modified Sobel operation. *Construction and Building Materials*, **2016**, 120, 442-449	6.7	34
347	Improvements on high-temperature stability, rheology, and stiffness of asphalt binder modified with waste crayfish shell powder. *Journal of Cleaner Production*, **2020**, 264, 121745	10.3	33
346	Study on microstructure of rubberized recycled hot mix asphalt based X-ray CT technology. *Construction and Building Materials*, **2016**, 121, 177-184	6.7	33
345	Comparative study on the properties of WMA mixture using foamed admixture and free water system. *Construction and Building Materials*, **2013**, 48, 45-50	6.7	33
344	Evaluation of Fatigue Models of Hot-Mix Asphalt through Laboratory Testing. *Transportation Research Record*, **2009**, 2127, 36-42	1.7	33
343	Dynamic complex modulus predictions of hot-mix asphalt using a micromechanical-based finite element model. *Canadian Journal of Civil Engineering*, **2007**, 34, 1519-1528	1.3	33
342	The performance of asphalt binder with trichloroethylene: Improving the efficiency of using reclaimed asphalt pavement. *Journal of Cleaner Production*, **2019**, 232, 205-212	10.3	32
341	Impact of interlayer on the anisotropic multi-layered medium overlaying viscoelastic layer under axisymmetric loading. *Applied Mathematical Modelling*, **2018**, 61, 726-743	4.5	32
340	Micromechanical Modeling Approach to Predict Compressive Dynamic Moduli of Asphalt Mixtures Using the Distinct Element Method. *Transportation Research Record*, **2006**, 1970, 72-83	1.7	32
339	Application of Discrete Element Modeling Techniques to Predict the Complex Modulus of Asphalt□Aggregate Hollow Cylinders Subjected to Internal Pressure		32
338	Laboratory Testing of Rheological Behavior of Water-Foamed Bitumen. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018153	3	32
337	Effects of Physio-Chemical Factors on Asphalt Aging Behavior. *Journal of Materials in Civil Engineering*, **2014**, 26, 190-197	3	31
336	Accelerated Discrete-Element Modeling of Asphalt-Based Materials with the Frequency-Temperature Superposition Principle. *Journal of Engineering Mechanics - ASCE*, **2011**, 137, 355-365	2.4	31
335	Use of tung oil as a rejuvenating agent in aged asphalt: Laboratory evaluations. *Construction and Building Materials*, **2020**, 239, 117783	6.7	30
334	Automated real aggregate modelling approach in discrete element method based on X-ray computed tomography images. *International Journal of Pavement Engineering*, **2017**, 18, 837-850	2.6	29

333	Effect of tack coat dosage and temperature on the interface shear properties of asphalt layers bonded with emulsified asphalt binders. *Construction and Building Materials*, **2017**, 141, 86-93	6.7	29
332	Characteristics of compound asphalt modified by waste tire rubber (WTR) and ethylene vinyl acetate (EVA): Conventional, rheological, and microstructural properties. *Journal of Cleaner Production*, **2020**, 258, 120732	10.3	29
331	Compaction characteristics of asphalt mixture with different gradation type through Superpave Gyratory Compaction and X-Ray CT Scanning. *Construction and Building Materials*, **2016**, 129, 243-255	6.7	29
330	Investigating the Sensitivity of Aggregate Size within Sand Mastic by Modeling the Microstructure of an Asphalt Mixture. *Journal of Materials in Civil Engineering*, **2011**, 23, 580-586	3	29
329	Review of advances in micromechanical modeling of aggregate□aggregate interactions in asphalt mixtures. *Canadian Journal of Civil Engineering*, **2007**, 34, 239-252	1.3	29
328	Strength and fatigue performance for cement-treated aggregate base materials. *International Journal of Pavement Engineering*, **2021**, 22, 690-699	2.6	29
327	Integrated Experimental-Numerical Approach for Estimating Asphalt Mixture Induction Healing Level through Discrete Element Modeling of a Single-Edge Notched Beam Test. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014259	3	28
326	Measurement and modeling of skid resistance of asphalt pavement: A review. *Construction and Building Materials*, **2020**, 260, 119878	6.7	28
325	Performance evaluation of petroleum bitumen binders and mixtures modified by natural rock asphalt from Xinjiang China. *Construction and Building Materials*, **2017**, 154, 623-631	6.7	28
324	Application of Discrete Element Modeling Techniques to Predict the Complex Modulus of Asphalt□Aggregate Hollow Cylinders Subjected to Internal Pressure. *Transportation Research Record*, **2005**, 1929, 218-226	1.7	28
323	Development of morphological properties of road surfacing aggregates during the polishing process. *International Journal of Pavement Engineering*, **2017**, 18, 367-380	2.6	27
322	Investigation of adhesion and interface bond strength for pavements underlying chip-seal: Effect of asphalt-aggregate combinations and freeze-thaw cycles on chip-seal. *Construction and Building Materials*, **2019**, 203, 322-330	6.7	27
321	Effect of anisotropic characteristics on the mechanical behavior of asphalt concrete overlay. *Frontiers of Structural and Civil Engineering*, **2019**, 13, 110-122	2.5	27
320	Laboratory evaluation on comprehensive performance of polyurethane rubber particle mixture. *Construction and Building Materials*, **2019**, 224, 29-39	6.7	27
319	Determination of Specific Heat Capacity on Composite Shape-Stabilized Phase Change Materials and Asphalt Mixtures by Heat Exchange System. *Materials*, **2016**, 9,	3.5	27
318	The anti-icing and mechanical properties of a superhydrophobic coating on asphalt pavement. *Construction and Building Materials*, **2018**, 190, 83-94	6.7	27
317	Prediction models of mixtures□dynamic modulus using gene expression programming. *International Journal of Pavement Engineering*, **2017**, 18, 971-980	2.6	26
316	3D Voxel-Based Approach to Quantify Aggregate Angularity and Surface Texture. *Journal of Materials in Civil Engineering*, **2017**, 29, 04017031	3	26

315	A critical review of corrosion development and rust removal techniques on the structural/environmental performance of corroded steel bridges. *Journal of Cleaner Production*, **2019**, 233, 126-146	10.3	26
314	Use of reacted and activated rubber in ultra-thin hot mixture asphalt overlay for wet-freeze climates. *Journal of Cleaner Production*, **2019**, 232, 369-378	10.3	26
313	Research on properties of bitumen mortar containing municipal solid waste incineration fly ash. *Construction and Building Materials*, **2019**, 218, 657-666	6.7	26
312	Moisture Susceptibility Evaluation of Nanosize Hydrated Lime-Modified Asphalt Aggregate Systems Based on Surface Free Energy Concept. *Transportation Research Record*, **2014**, 2446, 52-59	1.7	26
311	A hybrid strategy in selecting diverse combinations of innovative sustainable materials for asphalt pavements. *Journal of Traffic and Transportation Engineering (English Edition)*, **2016**, 3, 89-103	3.9	25
310	Evaluation of Asphalt Blended With Low Percentage of Carbon Micro-Fiber and Nanoclay. *Journal of Testing and Evaluation*, **2013**, 41, 20120068	1	25
309	Rheological properties and micro-characteristics of polyurethane composite modified asphalt. *Construction and Building Materials*, **2020**, 234, 117395	6.7	25
308	Compaction temperatures of Sasobit produced warm mix asphalt mixtures modified with SBS. *Construction and Building Materials*, **2016**, 123, 357-364	6.7	25
307	Analysis of performance and mechanism of Buton rock asphalt modified asphalt. *Journal of Applied Polymer Science*, **2019**, 136, 46903	2.9	25
306	Material selections in asphalt pavement for wet-freeze climate zones: A review. *Construction and Building Materials*, **2019**, 201, 510-525	6.7	25
305	Macro-micro degradation process of fly ash concrete under alternation of freeze-thaw cycles subjected to sulfate and carbonation. *Construction and Building Materials*, **2018**, 181, 369-380	6.7	24
304	Quantification of physicochemical properties, activation energy, and temperature susceptibility of foamed asphalt binders. *Construction and Building Materials*, **2017**, 153, 557-568	6.7	24
303	Preparation process of bio-oil and bio-asphalt, their performance, and the application of bio-asphalt: A comprehensive review. *Journal of Traffic and Transportation Engineering (English Edition)*, **2020**, 7, 137-151	3.9	24
302	Estimation of cumulative energy demand and green house gas emissions of ethanol foamed WMA using life cycle assessment analysis. *Construction and Building Materials*, **2015**, 93, 1117-1124	6.7	23
301	Modulus simulation of asphalt binder models using Molecular Dynamics (MD) method. *Construction and Building Materials*, **2018**, 162, 430-441	6.7	23
300	Aggregate Shape Characterization Using Virtual Measurement of Three-Dimensional Solid Models Constructed from X-Ray CT Images of Aggregates. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018026	3	23
299	Aggregate Morphological Characterization with 3D Optical Scanner versus X-Ray Computed Tomography. *Journal of Materials in Civil Engineering*, **2018**, 30, 04017248	3	23
298	Unified characterizing fatigue performance of rubberized asphalt mixtures subjected to different loading modes. *Journal of Cleaner Production*, **2021**, 279, 123740	10.3	23

297	Spectral element solution for transversely isotropic elastic multi-layered structures subjected to axisymmetric loading. *Computers and Geotechnics*, **2016**, 72, 67-73	4.4	22
296	Assessment of nanoparticles dispersion in asphalt during bubble escaping and bursting: Nano hydrated lime modified foamed asphalt. *Construction and Building Materials*, **2018**, 184, 391-399	6.7	22
295	Three-dimensional modeling and simulation of asphalt concrete mixtures based on X-ray CT microstructure images. *Journal of Traffic and Transportation Engineering (English Edition)*, **2014**, 1, 55-61	3.9	22
294	Rheological Evaluation of Foamed WMA Modified with Nano Hydrated Lime. *Procedia, Social and Behavioral Sciences*, **2013**, 96, 2858-2866		22
293	Numerical Simulation of Indirect Tensile Test Based on the Microstructure of Asphalt Mixture. *Journal of Materials in Civil Engineering*, **2011**, 23, 21-29	3	22
292	Sensitivity of flexible pavement design to Michigan climatic inputs using pavement ME design. *International Journal of Pavement Engineering*, **2017**, 18, 622-632	2.6	21
291	Fatigue behavior of epoxy asphalt concrete and its moisture susceptibility from flexural stiffness and phase angle. *Construction and Building Materials*, **2017**, 145, 506-517	6.7	21
290	Analytical solution for the effect of anisotropic layers/interlayers on an elastic multi-layered medium subjected to moving load. *International Journal of Solids and Structures*, **2019**, 172-173, 10-20	3.1	21
289	Fractal dimension of concrete meso-structure based on X-ray computed tomography. *Powder Technology*, **2019**, 350, 91-99	5.2	21
288	External sulfate attack on concrete under combined effects of flexural fatigue loading and drying-wetting cycles. *Construction and Building Materials*, **2020**, 249, 118224	6.7	21
287	Effects of preheating conditions on performance and workability of hot in-place recycled asphalt mixtures. *Construction and Building Materials*, **2019**, 226, 288-298	6.7	21
286	Towards an understanding of diffusion mechanism of bio-rejuvenators in aged asphalt binder through molecular dynamics simulation. *Journal of Cleaner Production*, **2021**, 299, 126927	10.3	21
285	Effects of mean annual temperature and mean annual precipitation on the performance of flexible pavement using ME design. *International Journal of Pavement Engineering*, **2016**, 17, 647-658	2.6	20
284	Temperature segregation of warm mix asphalt pavement: Laboratory and field evaluations. *Construction and Building Materials*, **2017**, 136, 436-445	6.7	20
283	High-Temperature Performance of Polymer-Modified Asphalt Mixes: Preliminary Evaluation of the Usefulness of Standard Technical Index in Polymer-Modified Asphalt. *Polymers*, **2019**, 11,	4.5	20
282	Correlation of DSR Results and FTIR Carbonyl and Sulfoxide Indexes: Effect of Aging Temperature on Asphalt Rheology. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019115	3	20
281	Unified fatigue characteristics model for cement-stabilized macadam under various loading modes. *Construction and Building Materials*, **2019**, 223, 775-783	6.7	20
280	Review on advances in modeling and simulation of stone-based paving materials. *Construction and Building Materials*, **2013**, 43, 408-417	6.7	20

279	A preliminary study of the mechanical properties of asphalt mixture containing bottom ash. *Canadian Journal of Civil Engineering*, **2008**, 35, 1114-1119	1.3	20
278	Simulation of Cyclic Loading Tests for Asphalt Mixtures Using User Defined Models within Discrete Element Method **2008**,		20
277	High modulus asphalt concrete: A state-of-the-art review. *Construction and Building Materials*, **2020**, 237, 117653	6.7	20
276	Short- and long-term properties of glass fiber reinforced asphalt mixtures. *International Journal of Pavement Engineering*, **2021**, 22, 64-76	2.6	20
275	Performance evaluation of warm mix asphalt containing reclaimed asphalt mixtures. *International Journal of Pavement Engineering*, **2017**, 18, 981-989	2.6	19
274	Homogeneity evaluation of hot in-place recycling asphalt mixture using digital image processing technique. *Journal of Cleaner Production*, **2020**, 258, 120524	10.3	19
273	Performances Evaluation of Cecabase RT in Warm Mix Asphalt Technology. *Procedia, Social and Behavioral Sciences*, **2013**, 96, 2782-2790		19
272	Ethanol based foamed asphalt as potential alternative for low emission asphalt technology. *Journal of Traffic and Transportation Engineering (English Edition)*, **2016**, 3, 116-126	3.9	19
271	Assessment and mechanism analysis of municipal solid waste incineration bottom ash as aggregate in cement stabilized macadam. *Journal of Cleaner Production*, **2020**, 244, 118750	10.3	19
270	Standardization to evaluate the lasting capacity of rubberized asphalt mixtures with different testing approaches. *Construction and Building Materials*, **2021**, 269, 121341	6.7	19
269	Rheological Performance of Bio-Char Modified Asphalt with Different Particle Sizes. *Applied Sciences (Switzerland)*, **2018**, 8, 1665	2.6	19
268	Viscoelastic Fatigue Damage Properties of Asphalt Mixture with Different Aging Degrees. *KSCE Journal of Civil Engineering*, **2018**, 22, 2073-2081	1.9	19
267	Aggregate representation for mesostructure of stone based materials using a sphere growth model based on realistic aggregate shapes. *Materials and Structures/Materiaux Et Constructions*, **2016**, 49, 2493-2508	3.4	18
266	Effects of vehicle speeds on the hydrodynamic pressure of pavement surface: Measurement with a designed device. *Measurement: Journal of the International Measurement Confederation*, **2017**, 98, 1-9	4.6	18
265	Evaluation of contact angle between asphalt binders and aggregates using Molecular Dynamics (MD) method. *Construction and Building Materials*, **2019**, 212, 727-736	6.7	18
264	Effects of Regular-Sized and Nanosized Hydrated Lime on Binder Rheology and Surface Free Energy of Adhesion of Foamed Warm Mix Asphalt. *Journal of Materials in Civil Engineering*, **2015**, 27, 04014254	3	18
263	Integrated computational experimental approach for evaluating recovered fracture strength after induction healing of asphalt concrete beam samples. *Construction and Building Materials*, **2016**, 106, 700-710	6.7	18
262	Flame Resistance of Asphalt Mixtures with Flame Retardants through a Comprehensive Testing Program. *Journal of Materials in Civil Engineering*, **2017**, 29, 04016266	3	18

261	Adhesion Evaluation of Asphalt-Aggregate Interface Using Surface Free Energy Method. *Applied Sciences (Switzerland)*, **2017**, 7, 156	2.6	18
260	Leaching evaluation and performance assessments of asphalt mixtures with recycled cathode ray tube glass: A preliminary study. *Journal of Cleaner Production*, **2021**, 279, 123716	10.3	18
259	Evaluation of crumb rubber modification and short-term aging on the rutting performance of bioasphalt. *Construction and Building Materials*, **2018**, 193, 467-473	6.7	18
258	Laboratory testing on the anti-aging performance of amorphous poly alpha olefin (APAO) modified asphalt binders. *Construction and Building Materials*, **2018**, 189, 460-469	6.7	18
257	The laboratory performance of asphalt mixture with Amorphous poly alpha olefins (APAO) modified asphalt binder. *Construction and Building Materials*, **2018**, 188, 676-684	6.7	18
256	Curing process and properties of hydrogenated bisphenol a epoxy resin particles by an interfacial polymerization method for asphalt pavements. *Construction and Building Materials*, **2017**, 147, 448-456	6.7	17
255	Construction Technology of Warm and Hot Mix Epoxy Asphalt Paving for Long-Span Steel Bridge. *Journal of Construction Engineering and Management - ASCE*, **2019**, 145, 04019074	4.2	17
254	Strength and durability of dry-processed stone matrix asphalt containing cement pre-coated scrap tire rubber particles. *Construction and Building Materials*, **2019**, 214, 475-483	6.7	17
253	Random-fractal-method-based generation of meso-model for concrete aggregates. *Powder Technology*, **2015**, 284, 63-77	5.2	17
252	Correlate aggregate angularity characteristics to the skid resistance of asphalt pavement based on image analysis technology. *Construction and Building Materials*, **2020**, 242, 118150	6.7	17
251	Laboratory Evaluation of Double-Layered Pavement Structures for Long-Span Steel Bridge Decks. *Journal of Materials in Civil Engineering*, **2018**, 30, 04018111	3	17
250	Analytical layer-element approach for wave propagation of transversely isotropic pavement. *International Journal of Pavement Engineering*, **2016**, 17, 275-282	2.6	17
249	Comprehensive Performance Evaluation and Cost Analysis of SBS-Modified Bioasphalt Binders and Mixtures. *Journal of Materials in Civil Engineering*, **2017**, 29, 04017232	3	17
248	Review of advances in understanding impacts of mix composition characteristics on asphalt concrete (AC) mechanics. *International Journal of Pavement Engineering*, **2011**, 12, 385-405	2.6	17
247	Self-healing capability of asphalt mixture containing polymeric composite fibers under acid and saline-alkali water solutions. *Journal of Cleaner Production*, **2020**, 268, 122387	10.3	17
246	Application of phase change material in asphalt mixture：A review. *Construction and Building Materials*, **2020**, 263, 120219	6.7	17
245	Experimental and molecular dynamics simulation study on thermal, transport, and rheological properties of asphalt. *Construction and Building Materials*, **2020**, 265, 120358	6.7	17
244	The Effect of Morphological Characteristic of Coarse Aggregates Measured with Fractal Dimension on Asphalt Mixtures' High-Temperature Performance. *Advances in Materials Science and Engineering* , **2016**, 2016, 1-9	1.5	17

243	Open-graded asphalt concrete grouted by latex modified cement mortar. *Road Materials and Pavement Design*, **2020**, 21, 61-77	2.6	17
242	Laboratory investigation of fatigue parameters characteristics of aging asphalt mixtures: A dissipated energy approach. *Construction and Building Materials*, **2020**, 230, 116972	6.7	17
241	Refining the Calculation Method for Fatigue Failure Criterion of Asphalt Binder from Linear Amplitude Sweep Test. *Journal of Materials in Civil Engineering*, **2018**, 30, 04017286	3	17
240	Automated pixel-level pavement distress detection based on stereo vision and deep learning. *Automation in Construction*, **2021**, 129, 103788	9.6	17
239	A novel double-drum mixing technique for plant hot mix asphalt recycling with high reclaimed asphalt pavement content and rejuvenator. *Construction and Building Materials*, **2017**, 134, 236-244	6.7	16
238	Dynamic response of temperature-seepage-stress coupling in asphalt pavement. *Construction and Building Materials*, **2019**, 211, 824-836	6.7	16
237	High temperature performance of asphalt modified with Sasobit and Deurex. *Construction and Building Materials*, **2018**, 164, 783-791	6.7	16
236	Property Analysis of Exfoliated Graphite Nanoplatelets Modified Asphalt Model Using Molecular Dynamics (MD) Method. *Applied Sciences (Switzerland)*, **2017**, 7, 43	2.6	16
235	Determination of Flow Number in Asphalt Mixtures from Deformation Rate during Secondary State. *Transportation Research Record*, **2011**, 2210, 106-112	1.7	16
234	New innovations in pavement materials and engineering: A review on pavement engineering research 2021. *Journal of Traffic and Transportation Engineering (English Edition)*, **2021**, 8, 815-815	3.9	16
233	Performance and optimization of castor beans-based bio-asphalt and European rock-asphalt modified asphalt binder. *Construction and Building Materials*, **2020**, 240, 117951	6.7	16
232	Role of mineral filler in asphalt mixture. *Road Materials and Pavement Design*, **2020**, 1-40	2.6	16
231	Recycling fish scale powder in improving the performance of asphalt: A sustainable utilization of fish scale waste in asphalt. *Journal of Cleaner Production*, **2021**, 288, 125682	10.3	16
230	Effectiveness of Micro- and Nanomaterials in Asphalt Mixtures through Dynamic Modulus and Rutting Tests. *Journal of Nanomaterials*, **2016**, 2016, 1-14	3.2	16
229	Micro-mechanical analysis of high modulus asphalt concrete pavement. *Construction and Building Materials*, **2019**, 220, 128-141	6.7	15
228	Assessing artificial neural network performance for predicting interlayer conditions and layer modulus of multi-layered flexible pavement. *Frontiers of Structural and Civil Engineering*, **2020**, 14, 487-500	2.5	15
227	Using Modified Creep and Recovery Tests to Evaluate the Foam-Based Warm Mix Asphalt Contained Nano Hydrated Lime. *Advanced Materials Research*, **2013**, 646, 90-96	0.5	15
226	Review on evolution and evaluation of asphalt pavement structures and materials. *Journal of Traffic and Transportation Engineering (English Edition)*, **2020**, 7, 573-599	3.9	15

225	Determining Aggregate Grain Size Using Discrete-Element Models of Sieve Analysis. *International Journal of Geomechanics*, **2019**, 19, 04019014	3.1	14
224	Performance Test on Styrene-Butadiene-Styrene (SBS) Modified Asphalt Based on the Different Evaluation Methods. *Applied Sciences (Switzerland)*, **2019**, 9, 467	2.6	14
223	Rutting and Fatigue Properties of Cellulose Fiber-Added Stone Mastic Asphalt Concrete Mixtures. *Advances in Materials Science and Engineering*, **2019**, 2019, 1-8	1.5	14
222	Impact of freeze-thaw cycles on compressive characteristics of asphalt mixture in cold regions. *Journal Wuhan University of Technology, Materials Science Edition*, **2015**, 30, 703-709	1	14
221	Influence of Coarse-Aggregate Angularity on Asphalt Mixture Macroperformance: Skid Resistance, High-Temperature, and Compaction Performance. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020095	3	14
220	Moisture Damage and Fatigue Cracking of Foamed Warm Mix Asphalt Using a Simple Laboratory Setup **2011**,		14
219	Special Issue on Multiscale and Micromechanical Modeling of Asphalt Mixes. *Journal of Materials in Civil Engineering*, **2011**, 23, 1-1	3	14
218	Crack resistance of waste cooking oil modified cement stabilized macadam. *Journal of Cleaner Production*, **2020**, 243, 118525	10.3	14
217	Determination of optimal mix from the standpoint of short term aging based on asphalt mixture fracture properties using response surface method. *Construction and Building Materials*, **2018**, 179, 35-48	6.7	14
216	Investigating fatigue life prediction of rubber asphalt mixture based on damage evolution using residual strain analysis approach. *Construction and Building Materials*, **2020**, 257, 119476	6.7	13
215	Effect of a lignin-based polyurethane on adhesion properties of asphalt binder during UV aging process. *Construction and Building Materials*, **2020**, 247, 118547	6.7	13
214	Combined Fourier-wavelet transforms for studying dynamic response of anisotropic multi-layered flexible pavement with linear-gradual interlayers. *Applied Mathematical Modelling*, **2020**, 81, 559-581	4.5	13
213	Investigation on the morphological and mineralogical properties of coarse aggregates under VSI crushing operation. *International Journal of Pavement Engineering*, **2020**, 1-14	2.6	13
212	Linear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testing. *Journal of Materials in Civil Engineering*, **2018**, 30, 04017303	3	13
211	Fatigue Equation of Cement-Treated Aggregate Base Materials under a True Stress Ratio. *Applied Sciences (Switzerland)*, **2018**, 8, 691	2.6	13
210	Moisture Susceptibility of Warm Mix Asphalt (WMA) with an Organic Wax Additive Based on X-Ray Computed Tomography (CT) Technology. *Advances in Civil Engineering*, **2019**, 2019, 1-12	1.3	13
209	Preliminary Laboratory Evaluation of Methanol Foamed Warm Mix Asphalt Binders and Mixtures. *Journal of Materials in Civil Engineering*, **2017**, 29, 06017017	3	13
208	Air void effect on an idealised asphalt mixture using two-dimensional and three-dimensional discrete element modelling approach. *International Journal of Pavement Engineering*, **2010**, 11, 381-391	2.6	13

207	Investigation of hot mixture asphalt with high ground tire rubber content. *Journal of Cleaner Production*, **2020**, 277, 124037	10.3	13
206	Relationship of Coefficient of Permeability, Porosity, and Air Voids in Fine-Graded HMA. *Journal of Materials in Civil Engineering*, **2019**, 31, 04018359	3	13
205	A review on compatibility between crumb rubber and asphalt binder. *Construction and Building Materials*, **2021**, 297, 123820	6.7	13
204	Characterizations of foamed asphalt binders prepared using combinations of physical and chemical foaming agents. *Construction and Building Materials*, **2019**, 204, 94-104	6.7	12
203	The Effect of Waste Engine Oil and Waste Polyethylene on UV Aging Resistance of Asphalt. *Polymers*, **2020**, 12,	4.5	12
202	Three-dimensional quantification and classification approach for angularity and surface texture based on surface triangulation of reconstructed aggregates. *Construction and Building Materials*, **2020**, 246, 118120	6.7	12
201	Microstructural Modeling Method for Asphalt Specimens Supporting 3D Adaptive and Automatic Mesh Generation. *Journal of Computing in Civil Engineering*, **2016**, 30, 04015013	5	12
200	Rheological Characteristics of Nano-Sized Hydrated Lime-Modified Foamed Warm Mix Asphalt **2014** ,		12
199	Rheological Properties of Short-Term Aged Foamed Asphalt Modified with Nano Hydrated Lime **2014**,		12
198	Predictive models for dynamic modulus using weighted least square nonlinear multiple regression model. *Canadian Journal of Civil Engineering*, **2012**, 39, 589-597	1.3	12
197	Determining Burger's Model Parameters of Asphalt Materials Using Creep-Recovery Testing Data **2008**,		12
196	Investigation of the asphalt□aggregate interaction using molecular dynamics. *Petroleum Science and Technology*, **2017**, 35, 586-593	1.4	12
195	Stability and rheology of asphalt-emulsion under varying acidic and alkaline levels. *Journal of Cleaner Production*, **2020**, 256, 120417	10.3	11
194	Using surface free energy to evaluate the fracture performance of asphalt binders. *Construction and Building Materials*, **2020**, 240, 118004	6.7	11
193	Aggregate Morphology and Internal Structure for Asphalt Concrete: Prestep of Computer-Generated Microstructural Models. *International Journal of Geomechanics*, **2018**, 18, 06018024	3.1	11
192	Characteristics of Moduli Decay for the Asphalt Mixture under Different Loading Conditions. *Applied Sciences (Switzerland)*, **2018**, 8, 840	2.6	11
191	Investigation on surface characteristics of epoxy asphalt concrete pavement. *International Journal of Pavement Research and Technology*, **2017**, 10, 545-552	2	11
190	Three-Dimensional Finite-Element Modeling for Asphalt Concrete Using Visual Cross-Sectional Imaging and Indirect Element Meshing Based on Discrete-Element Models. *Journal of Materials in Civil Engineering*, **2017**, 29, 04016182	3	11

189	Performance assessments of open-graded cement stabilized macadam containing recycled aggregate. *Construction and Building Materials*, **2020**, 233, 117326	6.7	11
188	Investigation of anti-icing, anti-skid, and water impermeability performances of an acrylic superhydrophobic coating on asphalt pavement. *Construction and Building Materials*, **2020**, 264, 120702	6.7	11
187	Effect of long-term aging on waste tire rubber and amorphous poly alpha olefin compound modified asphalt binder and its mixtures. *Construction and Building Materials*, **2021**, 272, 121667	6.7	11
186	Revealing compatibility mechanism of nanosilica in asphalt through molecular dynamics simulation. *Journal of Molecular Modeling*, **2021**, 27, 81	2	11
185	3D Quantification for Aggregate Morphology Using Surface Discretization Based on Solid Modeling. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019123	3	10
184	Analysis of Preparation and Properties on Shape Memory Hydrogenated Epoxy Resin Used for Asphalt Mixtures. *Applied Sciences (Switzerland)*, **2017**, 7, 523	2.6	10
183	Sensitivity analysis of longitudinal cracking on asphalt pavement using MEPDG in permafrost region. *Journal of Traffic and Transportation Engineering (English Edition)*, **2015**, 2, 40-47	3.9	10
182	Evaluation of Warm Mix Asphalt Produced at Various Temperatures through Dynamic Modulus Testing and Four Point Beam Fatigue Testing **2011**,		10
181	Effects of surface texture and its mineral composition on interfacial behavior between asphalt binder and coarse aggregate. *Construction and Building Materials*, **2020**, 262, 120869	6.7	10
180	Effect of crumb rubber size on the performance of rubberized asphalt with bio-oil pretreatment. *Construction and Building Materials*, **2021**, 285, 122864	6.7	10
179	Mechanical performance of asphalt rejuvenated with various vegetable oils. *Construction and Building Materials*, **2021**, 293, 123485	6.7	10
178	Correlation Analysis between Temperature Indices and Flexible Pavement Distress Predictions Using Mechanistic-Empirical Design. *Journal of Cold Regions Engineering - ASCE*, **2017**, 31, 04017009	1.1	9
177	Laboratory performance of asphalt mixture with waste tyre rubber and APAO modified asphalt binder. *International Journal of Pavement Engineering*, **2020**, 1-11	2.6	9
176	Determining the specific gravities of coarse aggregates utilizing vacuum saturation approach. *Construction and Building Materials*, **2009**, 23, 1316-1322	6.7	9
175	Properties of Recovered Asphalt Binder Blended with Waste Engine Oil: A Preliminary Study **2011**,		9
174	Prediction of the coefficient of permeability of asphalt mixtures using the lattice Boltzmann method. *Construction and Building Materials*, **2020**, 240, 117896	6.7	9
173	Investigating the mechanisms of rubber, styrene-butadiene-styrene and ethylene-vinyl acetate in asphalt binder based on rheological and distress-related tests. *Construction and Building Materials*, **2020**, 262, 120744	6.7	9
172	Characterization and evaluation of morphological features for aggregate in asphalt mixture: A review. *Construction and Building Materials*, **2021**, 273, 121989	6.7	9

171	Engineering and microscopic characteristics of natural rubber latex modified binders incorporating silane additive. *International Journal of Pavement Engineering*, **2020**, 21, 1874-1883	2.6	9
170	Influence of ethylene-vinyl acetate on the performance improvements of low-density polyethylene-modified bitumen. *Journal of Cleaner Production*, **2021**, 278, 123865	10.3	9
169	Three-Dimensional Characterization and Evaluation of Aggregate Skeleton of Asphalt Mixture Based on Force-Chain Analysis. *Journal of Engineering Mechanics - ASCE*, **2021**, 147, 04020147	2.4	9
168	Influence of air void structures on the coefficient of permeability of asphalt mixtures. *Powder Technology*, **2021**, 377, 1-9	5.2	9
167	Evaluation of waste cooling oil and European Rock Asphalt modified asphalt with laboratory tests and economic cost comparison. *Journal of Cleaner Production*, **2021**, 310, 127364	10.3	9
166	Investigation of asphalt mixture internal structure consistency in accelerated discrete element models. *Construction and Building Materials*, **2020**, 244, 118272	6.7	8
165	Aggregate Representation Approach in 3D Discrete-Element Modeling Supporting Adaptive Shape and Mass Property Fitting of Realistic Aggregates. *Journal of Engineering Mechanics - ASCE*, **2020**, 146, 04020042	2.4	8
164	Gray relational entropy analysis of high temperature performance of bio-asphalt binder and its mixture. *International Journal of Pavement Research and Technology*, **2018**,	2	8
163	Warm Mix Asphalt Using Sasobit in Cold Region **2009**,		8
162	Finite Element Analysis of Concrete Pavements Over Culverts. *International Journal of Geomechanics*, **2001**, 1, 337-350	3.1	8
161	Analysis of the Low-Temperature Rheological Properties of Rubberized Warm Mix Asphalt Binders. *Journal of Testing and Evaluation*, **2012**, 40, 20120147	1	8
160	Characteristics of a Surfactant Produced Warm Mix Asphalt Binder and Workability of the Mixture. *Journal of Testing and Evaluation*, **2016**, 44, 20140447	1	8
159	Three-Dimensional Discrete Element Simulation of Asphalt Concrete Subjected to Haversine. Loading An Application of the Frequency-Temperature Superposition Technique. *Road Materials and Pavement Design*, **2010**, 11, 273-290	2.6	8
158	Modification Mechanism of Using Waste WoodBased Bio-Oil to Modify Petroleum Asphalt. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020375	3	8
157	Comparative evaluation of rheological properties and micromechanics of non-foamed and foamed asphalt mastic. *Construction and Building Materials*, **2018**, 193, 654-664	6.7	8
156	Comparison between bitumen aged in laboratory and recovered from HMA and WMA lab mixtures. *Materials and Structures/Materiaux Et Constructions*, **2018**, 51, 1	3.4	8
155	Comparisons of Natural and Enhanced Asphalt Mixtures Containing Recycled Cement-Stabilized Macadam as Aggregates. *Journal of Materials in Civil Engineering*, **2020**, 32, 05020003	3	7
154	Characteristics of cement-stabilized macadam containing surface-treated recycled aggregates. *Road Materials and Pavement Design*, **2020**, 1-15	2.6	7

153	Microscopic analysis and mechanical properties of Recycled Paper Mill Sludge modified asphalt mixture using granite and limestone aggregates. *Construction and Building Materials*, **2020**, 243, 118172	6.7	7
152	Prediction on rutting decay curves for asphalt pavement based on the pavement-ME and matter element analysis. *International Journal of Pavement Research and Technology*, **2017**, 10, 466-475	2	7
151	Laboratory evaluation on the high temperature rheological properties of rubber asphalt: a preliminary study. *Canadian Journal of Civil Engineering*, **2012**, 39, 1125-1135	1.3	7
150	Evaluation of Recycled Asphalt Shingles in Hot Mix Asphalt **2011**,		7
149	Three-Dimensional Discrete Element Simulation of Asphalt Concrete Subjected to Haversine Loading. *Road Materials and Pavement Design*, **2010**, 11, 273-290	2.6	7
148	Intermediate Temperature Fatigue and Low Temperature Cracking Properties of Rubber Asphalt Binder **2011**,		7
147	Evaluation of Coarse Aggregate in Cold Recycling Mixes Using X-Ray CT Scanner and Image Analysis. *Journal of Testing and Evaluation*, **2016**, 44, 20140231	1	7
146	Study on Workability and Skid Resistance of Bio-Oil Modified Fog Seal with Sand. *Journal of Testing and Evaluation*, **2020**, 48, 20190224	1	7
145	Discussion on molecular dynamics (MD) simulations of the asphalt materials. *Advances in Colloid and Interface Science*, **2021**, 299, 102565	14.3	7
144	3-D virtual design and microstructural modeling of asphalt mixture based on a digital aggregate library. *Computers and Structures*, **2021**, 242, 106378	4.5	7
143	Physical, chemical and morphology characterisation of nano ceramic powder as bitumen modification. *International Journal of Pavement Engineering*, **2021**, 22, 858-871	2.6	7
142	A Combinational Prediction Model for Transverse Crack of Asphalt Pavement. *KSCE Journal of Civil Engineering*, **2018**, 22, 2109-2117	1.9	7
141	Design and Performance of Polyurethane Elastomers Composed with Different Soft Segments. *Materials*, **2020**, 13,	3.5	6
140	Dynamic friction coefficient between tire and compacted asphalt mixtures using tire-pavement dynamic friction analyzer. *Construction and Building Materials*, **2020**, 258, 119492	6.7	6
139	Rheological and Spectroscopic Properties of Ethylene Vinyl Acetate Modified Rubberized Asphalt. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020142	3	6
138	Comparative study on engineering properties and energy efficiency of asphalt mixes incorporating fly ash and cement. *Construction and Building Materials*, **2018**, 168, 295-304	6.7	6
137	Updating and augmenting weather data for pavement mechanistic-empirical design using ASOS/AWOS database in Michigan. *International Journal of Pavement Engineering*, **2018**, 19, 1025-1033	2.6	6
136	Investigation on the Cooling and Evaporation Behavior of Semi-Flexible Water Retaining Pavement based on Laboratory Test and Thermal-Mass Coupling Analysis. *Materials*, **2019**, 12,	3.5	6

135	Mixed-mode fracture modeling of cold recycled mixture using discrete element method. *Construction and Building Materials*, **2017**, 151, 625-635	6.7	6
134	Preparation and Properties of Asphalt Binders Modified by THFS Extracted From Direct Coal Liquefaction Residue. *Applied Sciences (Switzerland)*, **2017**, 7, 1155	2.6	6
133	Development and Application of the Single-Spiral Inductive-Capacitive Resonant Circuit Sensor for Wireless, Real-Time Characterization of Moisture in Sand. *Journal of Sensors*, **2013**, 2013, 1-7	2	6
132	Evaluation of Hot-Mix Asphalt Distress under Rapid Freeze-Thaw Cycles Using Image Processing Technique **2012**,		6
131	Evaluation of the Master Curves for Complex Shear Modulus for Nano-Modified Asphalt Binders **2012**,		6
130	Cold In-Place Recycling Asphalt Mixtures: Laboratory Performance and Preliminary M-E Design Analysis. *Materials*, **2021**, 14,	3.5	6
129	Dynamic Response Analysis of Rutting Resistance Performance of High Modulus Asphalt Concrete Pavement. *Applied Sciences (Switzerland)*, **2018**, 8, 2701	2.6	6
128	Laboratory shear bond test for chip-seal under varying environmental and material conditions. *International Journal of Pavement Engineering*, **2019**, 1-9	2.6	5
127	Comparative study of ethanol foamed asphalt binders and mixtures prepared via manual injection and laboratory foaming device. *Journal of Traffic and Transportation Engineering (English Edition)*, **2019**, 6, 383-395	3.9	5
126	Performance Analysis of Direct Coal Liquefaction Residue (DCLR) and Trinidad Lake Asphalt (TLA) for the Purpose of Modifying Traditional Asphalt. *Arabian Journal for Science and Engineering*, **2016**, 41, 3983-3993		5
125	Design and Construction of Oblique Prestressed Concrete Pavement: A Case Study in China. *Applied Sciences (Switzerland)*, **2018**, 8, 607	2.6	5
124	Evaluation of Recovered Fracture Strength after Light-Healing of Graphite-Modified Asphalt Mixtures with Integrated Computational-Experimental Approach. *Journal of Materials in Civil Engineering*, **2017**, 29, 04016289	3	5
123	Resilient Modulus and Dynamic Modulus of Warm Mix Asphalt **2008**,		5
122	The Dynamic Modulus of Asphalt Mixture with Bottom Ash Aggregates **2008**,		5
121	Asphalt Mixture with Scrap Tire Rubber and Nylon Fiber from Waste Tires: Laboratory Performance and Preliminary M-E Design Analysis. *Buildings*, **2022**, 12, 160	3.2	5
120	Performance of Micro- and Nano-Modified Asphalt Mixtures Through Flow Number and Moisture Susceptibility Evaluations. *Journal of Testing and Evaluation*, **2017**, 45, 20150434	1	5
119	Optimization of Laboratory Preparation of the Emulsified Bioasphalt with Two Emulsifiers. *Journal of Testing and Evaluation*, **2018**, 46, 20170449	1	5
118	Relationship between Air Voids and Permeability: Effect on Water Scouring Resistance in HMA. *Journal of Materials in Civil Engineering*, **2021**, 33, 04021022	3	5

117	Effects of Titanate Coupling Agent on Engineering Properties of Asphalt Binders and Mixtures Incorporating LLDPE-CaCO3 Pellet. *Applied Sciences (Switzerland)*, **2018**, 8, 1029	2.6	5
116	Waste cathode-ray-tube glass powder modified asphalt materials: Preparation and characterization. *Journal of Cleaner Production*, **2021**, 314, 127949	10.3	5
115	Preliminary study of modified asphalt binders with thermoplastics: The Rheology properties and interfacial adhesion between thermoplastics and asphalt binder. *Construction and Building Materials*, **2021**, 301, 124373	6.7	5
114	A review on the best practices in concrete pavement design and materials in wet-freeze climates similar to Michigan. *Journal of Traffic and Transportation Engineering (English Edition)*, **2019**, 6, 245-255	3.9	4
113	Laboratory Evaluation of the Residue of Rubber-Modified Emulsified Asphalt. *Sustainability*, **2020**, 12, 8383	3.6	4
112	Adaptive Three-Dimensional Aggregate Shape Fitting and Mesh Optimization for Finite-Element Modeling. *Journal of Computing in Civil Engineering*, **2020**, 34, 04020020	5	4
111	Porosity Prediction of Granular Materials through Discrete Element Method and Back Propagation Neural Network Algorithm. *Applied Sciences (Switzerland)*, **2020**, 10, 1693	2.6	4
110	Rheological properties and chemical characterisation of reacted and activated rubber modified asphalt binder. *Road Materials and Pavement Design*, **2020**, 21, S140-S154	2.6	4
109	Experimental Study on the Performance Decay of Permeable Asphalt Mixture in Seasonally Frozen Regions under Freeze-Thaw Cycles. *Sustainability*, **2020**, 12, 2966	3.6	4
108	Modeling shear stress response of bituminous materials under small and large strains. *Construction and Building Materials*, **2020**, 252, 119133	6.7	4
107	Laboratory research on the performance of stress-absorption interlayer (SAI) of waste tire rubber and amorphous ploy alpha olefin modified asphalt. *Construction and Building Materials*, **2019**, 223, 830-840	6.7	4
106	Multi-scale characterization of hydrated lime mastics. *Canadian Journal of Civil Engineering*, **2017**, 44, 985-993	1.3	4
105	Rheological Properties of Modified Coal Tar Pitches. *Journal of Materials in Civil Engineering*, **2017**, 29,	3	4
104	Towards an Alternate Evaluation of Moisture-Induced Damage of Bituminous Materials. *Applied Sciences (Switzerland)*, **2017**, 7, 1049	2.6	4
103	Coal Gangue Applied to Low-Volume Roads in China. *Transportation Research Record*, **2011**, 2204, 258-266	0.7	4
102	Postprocessing Method for Dynamic Modulus Tests of Hot-Mix Asphalt. *Journal of Materials in Civil Engineering*, **2010**, 22, 658-666	3	4
101	A Simple Method to Determine the Tertiary Flow in Repeated Load Test: A Step-Wise Method **2008**,		4
100	Speed Up Discrete Element Simulation of Asphalt Mixtures with User-Written C++ Codes **2008**,		4

99	Measuring the Specific Gravity and Absorption of Steel Slag and Crushed Concrete Coarse Aggregates: A Preliminary Study **2008**,		4
98	Aggregate Effect on Asphalt Mixture Properties by Modeling Particle-to-Particle Interaction **2007**,		4
97	Development and Implementation of a Finite Element Model for Asphalt Mixture to Predict Compressive Complex Moduli at Low and Intermediate Temperatures **2005**, 21		4
96	Effects of Type and Content of Mineral Fillers on the Consistency Properties of Asphalt Mastic. *Journal of Testing and Evaluation*, **2012**, 40, 20120140	1	4
95	Mineral Aggregate Morphological Evaluation With MATLAB Fourier Radial Gradient Transform Analysis. *Journal of Testing and Evaluation*, **2017**, 45, 20160141	1	4
94	Mechanical behaviors of asphalt mixtures modified with European rock bitumen and waste cooking oil. *Construction and Building Materials*, **2022**, 319, 125909	6.7	4
93	Review on the fatigue properties of recycled asphalt concrete containing construction and demolition wastes. *Journal of Cleaner Production*, **2021**, 327, 129478	10.3	4
92	Rheological models for non-newtonian viscosity of modified asphalt binders and mastics. *Egyptian Journal of Petroleum*, **2020**, 29, 105-112	3.4	4
91	Morphological simplification of asphaltic mixture components for micromechanical simulation using finite element method. *Computer-Aided Civil and Infrastructure Engineering*, **2021**, 36, 1435	8.4	4
90	Stability prediction for asphalt mixture based on evolutional characterization of aggregate skeleton. *Computer-Aided Civil and Infrastructure Engineering*, **2021**, 36, 1453	8.4	4
89	A conditioning method to evaluate moisture influence on the durability of asphalt mixture materials. *Canadian Journal of Civil Engineering*, **2016**, 43, 943-948	1.3	4
88	High, intermediate and low temperature performance appraisal of elastomeric and plastomeric asphalt binders and mixes. *Journal of Elastomers and Plastics*, **2021**, 009524432110386	1.6	4
87	Influence of silane-hydrolysate coupling agents on bitumen□ggregate interfacial adhesion: An exploration from molecular dynamics simulation. *International Journal of Adhesion and Adhesives*, **2022**, 112, 102993	3.4	4
86	Unified Strength Model of Asphalt Mixture under Various Loading Modes. *Materials*, **2019**, 12,	3.5	3
85	Assessments of Potential Service Characteristics of Ethanol and Ethanol-NaHCO3 Foamed WMA Mixtures. *Journal of Materials in Civil Engineering*, **2019**, 31, 04019079	3	3
84	Effects of Preheating on the Rheological Properties of Rejuvenated Asphalt Binder. *Transportation Research Record*, **2019**, 2673, 546-557	1.7	3
83	Anisotropy of multi-layered structure with sliding and bonded interlayer conditions. *Frontiers of Structural and Civil Engineering*, **2020**, 14, 632-645	2.5	3
82	Serviceability during asphaltic concrete production and leaching concerns of asphalt mixture prepared with recycled paper mill sludge. *International Journal of Pavement Engineering*, **2020**, 1-11	2.6	3

81	Study on impact of variables to pavement preheating operation in HIR by using FEM. *Construction and Building Materials*, **2020**, 243, 118304	6.7	3
80	Properties of Direct Coal Liquefaction Residue Modified Asphalt Mixture. *Advances in Materials Science and Engineering*, **2017**, 2017, 1-11	1.5	3
79	Using DSR and FTIR to Evaluate Asphalt Binder Extracted and Recovered from Asphalt Mixtures **2017**,		3
78	Characterization of the Viscoelastic Property of Asphalt Mastic **2011**,		3
77	Preliminary Study of Evaluating Asphalt Pavement Rutting Performance Using the Mechanistic-Empirical Pavement Design Guide **2009**,		3
76	Prediction of Dynamic Modulus of Asphalt Concrete Using Two-Dimensional and Three-Dimensional Discrete Element Modeling Approach **2008**,		3
75	On the Mechanical Modeling of Asphalt Matrix and Hot Mix Asphalt Mixtures **2008**,		3
74	Modeling of Hollow Cylindrical Asphalt Mixture Specimens **2008**,		3
73	Viscoelastic Properties, Rutting Resistance, and Fatigue Resistance of Waste Wood-Based Biochar-Modified Asphalt. *Coatings*, **2022**, 12, 89	2.9	3
72	Nanoclay-Modified Asphalt Binder Systems **2011**, 257-270		3
71	Comparison of Short Term Laboratory Ageing on Virgin and Recovered Binder from HMA/WMA Mixtures. *RILEM Bookseries*, **2019**, 21-26	0.5	3
70	Surface-treated fish scale powder with silane coupling agent in asphalt for performance improvement: Conventional properties, rheology, and morphology. *Journal of Cleaner Production*, **2021**, 311, 127772	10.3	3
69	Application of Epoxy-Asphalt Composite in Asphalt Paving Industry: A Review with Emphasis on Physicochemical Properties and Pavement Performances. *Advances in Materials Science and Engineering*, **2021**, 2021, 1-35	1.5	3
68	Influence of concentration and packing of filler particles on the stiffening effect and shearing behaviour of asphalt mastic. *Construction and Building Materials*, **2021**, 295, 123660	6.7	3
67	Concave distribution characterization of asphalt pavement surface segregation using smartphone and image processing based techniques. *Construction and Building Materials*, **2021**, 301, 124111	6.7	3
66	Rheological behavior of high modulus asphalt binder and its indication for fracture performances. *Construction and Building Materials*, **2021**, 306, 124835	6.7	3
65	Sensitivity of Rigid Pavement Performance Predictions to Individual Climate Variables using Pavement ME Design. *Journal of Transportation Engineering Part B: Pavements*, **2020**, 146, 04020028	1.4	2
64	Region-based adaptive asphalt mixture microstructural modeling for efficient numerical simulation. *Construction and Building Materials*, **2020**, 257, 119431	6.7	2

63	Evaluation of Foam-based Warm Mix Asphalt Modified with Nano-sized Hydrated Lime Using Multiple Creep and Recovery Tests **2014**,		2
62	Development of a Realistic Conditioning and Evaluation System to Study Moisture Damage of Asphalt Materials **2013**,		2
61	Discrete Element Simulation of Aggregate Sphericity and Orientation: An Approach to Improving the Understanding of Asphalt Concrete **2010**,		2
60	Formulization of Asphalt Concrete Stiffness for Specific Microstructures Based on Discrete Element Method **2010**,		2
59	Effect of Hydrated Lime Application Method on Mechanical and Fatigue Properties of HMA **2012**,		2
58	DEM Models of Idealized Asphalt Mixtures **2008**,		2
57	Properties of Asphalt Mixtures with RAP in the Mechanistic-Empirical Pavement Design of Flexible Pavements: A Preliminary Investigation **2008**,		2
56	Moisture susceptibility of Nano-sized Hydrated Lime-modified foamed Warm Mix Asphalt mixes **2014**, 1735-1745		2
55	Characterizing the Temperature Effects on Rutting and Fatigue Properties of Asphalt Binders Based on Time-Temperature Superposition Principle. *Journal of Testing and Evaluation*, **2019**, 47, 20170123	1	2
54	Effect of Key Aggregate Morphology and Mold Modulus on the Spatial Distribution of Internal Air Voids in the Compacted Asphalt Mixture. *Journal of Testing and Evaluation*, **2020**, 48, 20180454	1	2
53	Low-density polyethylene/ethylene□inyl acetate compound modified asphalt: Optimal preparation process and high-temperature rheological properties. *Construction and Building Materials*, **2022**, 314, 125688	6.7	2
52	A Bitumen-Based Prototype to Predict the Workability of Asphalt Concrete Mixtures. *Sustainable Civil Infrastructures*, **2018**, 14-30	0.2	2
51	Effect of Coarse Aggregate Characteristics on Skid Resistance Deterioration of the Ultrathin Wearing Course. *Journal of Materials in Civil Engineering*, **2021**, 33, 04021051	3	2
50	Nanoclay modified asphalt **2016**, 183-216		2
49	A New Method for Characterizing Coarse Aggregate Morphology through a MATLAB Program **2016** ,		2
48	A Review on Utilization of Electronic Waste Plastics for Use Within Asphaltic Concrete Materials: Development, Opportunities and Challenges for Successful Implementation **2020**, 737-749		2
47	A numerical study on rutting behaviour of direct coal liquefaction residue modified asphalt mixture. *Road Materials and Pavement Design*, **2021**, 22, 1454-1468	2.6	2
46	Performance of ethanol and ethanol-NaHCO3 based foamed WMA mixtures for low emission asphalt technology. *Construction and Building Materials*, **2018**, 192, 9-19	6.7	2

45	Atomistic-scale investigation of self-healing mechanism in Nano-silica modified asphalt through molecular dynamics simulation. *Journal of Infrastructure Preservation and Resilience*, **2022**, 3,	2.1	2
44	Evaluation of lab performance of stamp sand and acrylonitrile styrene acrylate waste composites without asphalt as road surface materials. *Construction and Building Materials*, **2022**, 338, 127569	6.7	2
43	Effect of Freeze‐thaw cycles on the pavement performance of SBS modified and composite crumb rubber modified asphalt mixtures. *Construction and Building Materials*, **2022**, 342, 127799	6.7	2
42	Rheological Characteristics of Reacted and Activated Rubber Modified Asphalt Binder **2019**,		1
41	A Microstructure-Based Approach for Simulating Viscoelastic Behaviors of Asphalt Mixtures **2010**,		1
40	Study on Dynamic Modulus of Waste Plastic Modified Asphalt Mixture Using Waste Plastic Bag Chips. *Advanced Materials Research*, **2011**, 261-263, 824-828	0.5	1
39	Preliminary Study of Materials Effect of Cold In-Place and Full-Depth Reclamation Asphalt Concrete in Mechanistic-Empirical Pavement Design **2012**,		1
38	Review on Applications of Lignin in Pavement Engineering: A Recent Survey. *Frontiers in Materials*, **2022**, 8,	4	1
37	Research on the anti-aging mechanism of SBS-modified asphalt compounded with multidimensional nanomaterials based on atomic force microscopy. *Construction and Building Materials*, **2022**, 317, 125808	6.7	1
36	The effect of styrene-butadiene rubber modification on the properties of asphalt binders: Aging and restoring. *Construction and Building Materials*, **2022**, 316, 126034	6.7	1
35	Characteristics of mineral fillers and their effects on mastic fracture resistance at intermediate temperature 20 ?. *Construction and Building Materials*, **2022**, 323, 126568	6.7	1
34	Influences of different modification methods on surface activation of waste tire rubber powder applied in cement-based materials. *Construction and Building Materials*, **2022**, 314, 125191	6.7	1
33	Laboratory Performance and Field Case Study of Asphalt Mixture with Sasobit Treated Aramid Fiber as Modifier. *Transportation Research Record*,036119812110478	1.7	1
32	Mechanism and rheological characterization of MDI modified Wood-Based Bio-Oil asphalt. *Construction and Building Materials*, **2021**, 309, 125113	6.7	1
31	Effect of Asphalt Grade and Polymer Type (SBS and EE-2) on Produced PMB and Asphalt Concrete Mix Properties. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020385	3	1
30	Morphological Identification of Latex Modified Asphalt Binder Prepared with Surfactants. *Lecture Notes in Civil Engineering*, **2020**, 1175-1185	0.3	1
29	High-Temperature Viscosity Performance of Crumb-Rubber-Modified Binder With Warm Mix Asphalt Additives. *Journal of Testing and Evaluation*, **2012**, 40, 20120064	1	1
28	Unified approach to characterize the strength of cement stabilized macadam subjected to different loading modes. *Construction and Building Materials*, **2020**, 265, 120143	6.7	1

27	Effect of Water Absorption and Loss Characteristics of Fine Aggregates on Aggregate-Asphalt Adhesion. *KSCE Journal of Civil Engineering*, **2021**, 25, 2020-2035	1.9	1
26	Behavioural interface-bonding and chemical characterization of silane and wax based additives on latex modified asphalt binders. *International Journal of Adhesion and Adhesives*, **2021**, 106, 102822	3.4	1
25	Influence of Different Fillers on Mechanical Properties of Porous Asphalt Mixtures Using Microstructural Finite-Element Analysis. *Journal of Transportation Engineering Part B: Pavements*, **2021**, 147, 04021004	1.4	1
24	Evaluations of Plant-Produced Foamed Warm Mixture Asphalt **2016**,		1
23	Pavement performance zone based on mechanistic-empirical design and temperature indices. *Transportmetrica A: Transport Science*, **2019**, 15, 91-113	2.5	1
22	Workability, compactibility and engineering properties of rubber-modified asphalt mixtures prepared via wet process. *International Journal of Pavement Research and Technology*, **2021**, 14, 560-569	2	1
21	Effects of Sodium Sulfate Attack on Concrete Incorporated with Drying-Wetting Cycles. *Advances in Civil Engineering*, **2021**, 2021, 1-12	1.3	1
20	Influence of sea salt on the interfacial adhesion of bitumen–aggregate systems by molecular dynamics simulation. *Construction and Building Materials*, **2022**, 336, 127471	6.7	1
19	Optimal design of fresh sand fog seal mortar using response surface methodology (RSM): Towards to its workability and rheological properties. *Construction and Building Materials*, **2022**, 340, 127638	6.7	1
18	Nanomodified asphalt mixture with enhanced performance **2019**, 187-201		0
17	Chemical characteristics analyze of SBS-modified bitumen containing composite nanomaterials after aging by FTIR and GPC. *Construction and Building Materials*, **2022**, 324, 126522	6.7	0
16	How to Achieve Efficiency and Accuracy in Discrete Element Simulation of Asphalt Mixture: A DRF-Based Equivalent Model for Asphalt Sand Mortar. *Advances in Civil Engineering*, **2020**, 2020, 1-10	1.3	0
15	Effect of physical hardening on low temperature performance of DCLR modified asphalt. *Construction and Building Materials*, **2021**, 295, 123545	6.7	0
14	Establishment and extension of digital aggregate database using auxiliary classifier Wasserstein GAN with gradient penalty. *Construction and Building Materials*, **2021**, 300, 124217	6.7	0
13	Experimental assessments of methanol-based foaming agent in latex modified foamed binders and warm asphalt mixtures **2022**, 2, 84-97		0
12	Highway constructions on the Qinghai-Tibet Plateau: Challenge, research and practice **2022**, 2, 1-60		0
11	Evaluation of test methods for fracture resistance of high modulus asphalt binders from rheological and mechanical perspectives. *Construction and Building Materials*, **2022**, 329, 127216	6.7	0
10	Preparation process and performance of thermoplastic polyurethane/amorphous poly alpha olefin compound modified bitumen. *Journal of Cleaner Production*, **2022**, 352, 131562	10.3	0

9	Closure to "Linear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testing" by Aboelkasim Diab and Zhanping You. *Journal of Materials in Civil Engineering*, **2019**, 31, 07019002	3
8	Advanced Pavement Materials for Sustainable Transportation Infrastructure. *Advances in Materials Science and Engineering*, **2018**, 2018, 1-1	1.5
7	Virtual design of asphalt mixtures using a growth and contact model based on realistic aggregates. *Construction and Building Materials*, **2022**, 320, 126322	6.7
6	Heavy Impact Compaction Modeling and Analysis on Unbound Paving Mixtures. *Springer Proceedings in Physics*, **2017**, 437-444	0.2
5	Advanced Pavement Technologies. *Journal of Materials in Civil Engineering*, **2018**, 30, 02018001	3
4	Discrete Element Simulation of the Internal Structures of Asphalt Mixtures with High Content of Tire Rubber. *Lecture Notes in Civil Engineering*, **2022**, 425-439	0.3
3	The Low Temperature Performance of Rubberized Bituminous Mixture Using the Dry Process. *RILEM Bookseries*, **2022**, 1839-1844	0.5
2	A Review of Asphaltic Crack Healing Approaches and Its Mechanism. *Advances in Materials Science and Engineering*, **2021**, 2021, 1-15	1.5
1	New Methodology to Characterize the Workability of Asphaltic Concrete Mixtures Based on Kinematic Compaction Energy. *Sustainability*, **2022**, 14, 6550	3.6