# Mohd Rosli Mohd Hasan

List of Publications by Year
in descending order



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|---|---|---|---|
| 195 papers | 8,546 citations | 44069 48 h-index | 54911 84 g-index |

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|---|---|---|---|
| 195 all docs | 195 docs citations | 195 times ranked | 3036 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | High, intermediate and low temperature performance appraisal of elastomeric and plastomeric asphalt binders and mixes. Journal of Elastomers and Plastics, 2022, 54, 225-246. | 1.5 | 7 |
| 2 | Laboratory Performance and Field Case Study of Asphalt Mixture with Sasobit Treated Aramid Fiber as Modifier. Transportation Research Record, 2022, 2676, 811-824. | 1.9 | 11 |
| 3 | Discussion on molecular dynamics (MD) simulations of the asphalt materials. Advances in Colloid and Interface Science, 2022, 299, 102565. | 14.7 | 63 |
| 4 | Asphalt Mixture with Scrap Tire Rubber and Nylon Fiber from Waste Tires: Laboratory Performance and Preliminary M-E Design Analysis. Buildings, 2022, 12, 160. | 3.1 | 18 |
| 5 | Experimental assessments of methanol-based foaming agent in latex modified foamed binders and warm asphalt mixtures. , 2022, 2, 84-97. | | 3 |
| 6 | Characterization of hydrophobic-treated recycled paper mill sludge in bituminous materials. E3S Web of Conferences, 2022, 347, 01016. | 0.5 | 0 |
| 7 | The Influence of Nano Titanium as Bitumen Modifier in Stone Mastic Asphalt. Advances in Materials Science and Engineering, 2022, 2022, 1-19. | 1.8 | 5 |
| 8 | Mechanical and Durability Analysis of Fly Ash Based Geopolymer with Various Compositions for Rigid Pavement Applications. Materials, 2022, 15, 3458. | 2.9 | 21 |
| 9 | New Methodology to Characterize the Workability of Asphaltic Concrete Mixtures Based on Kinematic Compaction Energy. Sustainability, 2022, 14, 6550. | 3.2 | 0 |
| 10 | A Detection Method for Pavement Cracks Combining Object Detection and Attention Mechanism. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22179-22189. | 8.0 | 19 |
| 11 | Comparing Machine Learning Models with Witczak NCHRP 1-40D Model for Hot-Mix Asphalt Dynamic Modulus Prediction. Arabian Journal for Science and Engineering, 2022, 47, 13579-13591. | 3.0 | 1 |
| 12 | Laboratory shear bond test for chip-seal under varying environmental and material conditions. International Journal of Pavement Engineering, 2021, 22, 1107-1115. | 4.4 | 13 |
| 13 | Investigation on the morphological and mineralogical properties of coarse aggregates under VSI crushing operation. International Journal of Pavement Engineering, 2021, 22, 1611-1624. | 4.4 | 21 |
| 14 | Physico-Mechanical and Morphological Properties of Wax Latex-Modified Asphalt Binder. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 865-878. | 1.9 | 7 |
| 15 | Leaching evaluation and performance assessments of asphalt mixtures with recycled cathode ray tube glass: A preliminary study. Journal of Cleaner Production, 2021, 279, 123716. | 9.3 | 24 |
| 16 | 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. | 2.6 | 9 |
| 17 | Physical, chemical and morphology characterisation of nano ceramic powder as bitumen modification. International Journal of Pavement Engineering, 2021, 22, 858-871. | 4.4 | 15 |
| 18 | Influence of air void structures on the coefficient of permeability of asphalt mixtures. Powder Technology, 2021, 377, 1-9. | 4.2 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 | 5 |
| 20 | Characterization and evaluation of morphological features for aggregate in asphalt mixture: A review. Construction and Building Materials, 2021, 273, 121989. | 7.2 | 26 |
| 21 | Design of Experiment on Concrete Mechanical Properties Prediction: A Critical Review. Materials, 2021, 14, 1866. | 2.9 | 35 |
| 22 | Relationship between Air Voids and Permeability: Effect on Water Scouring Resistance in HMA. Journal of Materials in Civil Engineering, 2021, 33, . | 2.9 | 10 |
| 23 | Cold In-Place Recycling Asphalt Mixtures: Laboratory Performance and Preliminary M-E Design Analysis. Materials, 2021, 14, 2036. | 2.9 | 17 |
| 24 | 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. | 2.9 | 6 |
| 25 | Characteristics of Latex-Modified Bitumen Prepared via Foaming Technique Using Water and Diluted Methanol. Journal of Materials in Civil Engineering, 2021, 33, . | 2.9 | 1 |
| 26 | Effects of Sodium Sulfate Attack on Concrete Incorporated with Drying-Wetting Cycles. Advances in Civil Engineering, 2021, 2021, 1-12. | 0.7 | 2 |
| 27 | A Review of Characteristics of Bio-Oils and Their Utilization as Additives of Asphalts. Molecules, 2021, 26, 5049. | 3.8 | 12 |
| 28 | Evaluation on the rheological and mechanical properties of concrete incorporating eggshell with tire powder. Journal of Materials Research and Technology, 2021, 14, 439-451. | 5.8 | 19 |
| 29 | Physicomechanical Assessments and Heavy Metalsâ€™ Leaching Potential of Modified Asphalt Binders Incorporating Crumb Rubber and Tin Slag Powders. Advances in Materials Science and Engineering, 2021, 2021, 1-10. | 1.8 | 1 |
| 30 | Concave distribution characterization of asphalt pavement surface segregation using smartphone and image processing based techniques. Construction and Building Materials, 2021, 301, 124111. | 7.2 | 11 |
| 31 | 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. | 7.2 | 13 |
| 32 | A Review of Asphaltic Crack Healing Approaches and Its Mechanism. Advances in Materials Science and Engineering, 2021, 2021, 1-15. | 1.8 | 3 |
| 33 | Bio-Asphalt Diffusion Properties Based on Molecular Dynamics Simulation. , 2021, , . | | 0 |
| 34 | Effects of short-term ageing scenarios on asphalt mixturesâ€™ fracture properties using imaging technique and response surface method. International Journal of Pavement Engineering, 2020, 21, 1374-1392. | 4.4 | 13 |
| 35 | Engineering and microscopic characteristics of natural rubber latex modified binders incorporating silane additive. International Journal of Pavement Engineering, 2020, 21, 1874-1883. | 4.4 | 16 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | High-temperature rheological behavior and fatigue performance of lignin modified asphalt binder. Construction and Building Materials, 2020, 230, 117063. | 7.2 | 107 |
| 38 | 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. | 7.2 | 72 |
| 39 | Investigation of hot mixture asphalt with high ground tire rubber content. Journal of Cleaner Production, 2020, 277, 124037. | 9.3 | 23 |
| 40 | 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. | 7.2 | 17 |
| 41 | Achievements and Prospects of Advanced Pavement Materials Technologies. Applied Sciences (Switzerland), 2020, 10, 7743. | 2.5 | 0 |
| 42 | Artificial Intelligence Prediction of Rutting and Fatigue Parameters in Modified Asphalt Binders. Applied Sciences (Switzerland), 2020, 10, 7764. | 2.5 | 16 |
| 43 | Achievements and Prospects of Functional Pavement: Materials and Structures. Applied Sciences (Switzerland), 2020, 10, 7720. | 2.5 | 2 |
| 44 | Effects of Short-Term Aging on the Compactibility and Volumetric Properties of Asphalt Mixtures Using the Response Surface Method. Sustainability, 2020, 12, 6181. | 3.2 | 11 |
| 45 | Performance Evaluations of Pavement Underlying Chip-Seal: Laboratory Testing on Pavement Cores. , 2020, , . | | 0 |
| 46 | Design and Performance of Polyurethane Elastomers Composed with Different Soft Segments. Materials, 2020, 13, 4991. | 2.9 | 27 |
| 47 | Sensitivity of Rigid Pavement Performance Predictions to Individual Climate Variables using Pavement ME Design. Journal of Transportation Engineering Part B: Pavements, 2020, 146, 04020028. | 1.5 | 2 |
| 48 | Porosity Prediction of Granular Materials through Discrete Element Method and Back Propagation Neural Network Algorithm. Applied Sciences (Switzerland), 2020, 10, 1693. | 2.5 | 7 |
| 49 | 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. | 4.4 | 3 |
| 50 | Rheological properties and chemical characterisation of reacted and activated rubber modified asphalt binder. Road Materials and Pavement Design, 2020, 21, S140-S154. | 4.0 | 14 |
| 51 | The Effect of Waste Engine Oil and Waste Polyethylene on UV Aging Resistance of Asphalt. Polymers, 2020, 12, 602. | 4.5 | 27 |
| 52 | Application of diluted methanol to allow the production of latex modified asphalt mixture with lower energy consumption. Construction and Building Materials, 2020, 262, 120028. | 7.2 | 3 |
| 53 | Correlate aggregate angularity characteristics to the skid resistance of asphalt pavement based on image analysis technology. Construction and Building Materials, 2020, 242, 118150. | 7.2 | 28 |
| 54 | 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. | 7.2 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | 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, . | 2.9 | 15 |
| 56 | 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. | 4.2 | 48 |
| 57 | Morphological Identification of Latex Modified Asphalt Binder Prepared with Surfactants. Lecture Notes in Civil Engineering, 2020, , 1175-1185. | 0.4 | 1 |
| 58 | Alternative Testing Protocol to Assess the Bonding and Shear Resistance of Pavement Bituminous Crack-Sealant Material. Lecture Notes in Civil Engineering, 2020, , 1187-1200. | 0.4 | 4 |
| 59 | Warm mix asphalt technology: An up to date review. Journal of Cleaner Production, 2020, 268, 122128. | 9.3 | 120 |
| 60 | Preparation and Properties of Waterborne Epoxyâ€“Modified Emulsified Asphalt Binder (WEMEAB). Journal of Testing and Evaluation, 2020, 48, 20160572. | 0.7 | 11 |
| 61 | Study on Workability and Skid Resistance of Bio-Oilâ€“Modified Fog Seal with Sand. Journal of Testing and Evaluation, 2020, 48, 2072-2092. | 0.7 | 11 |
| 62 | Effect of anisotropic characteristics on the mechanical behavior of asphalt concrete overlay. Frontiers of Structural and Civil Engineering, 2019, 13, 110-122. | 2.9 | 31 |
| 63 | Optimization of fly ash based geopolymer mix design for rigid pavement application. AIP Conference Proceedings, 2019, , . | 0.4 | 8 |
| 64 | 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. | 7.2 | 45 |
| 65 | Characterizations of foamed asphalt binders prepared using combinations of physical and chemical foaming agents. Construction and Building Materials, 2019, 204, 94-104. | 7.2 | 21 |
| 66 | Performance Test on Styrene-Butadiene-Styrene (SBS) Modified Asphalt Based on the Different Evaluation Methods. Applied Sciences (Switzerland), 2019, 9, 467. | 2.5 | 37 |
| 67 | 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. | 4.2 | 7 |
| 68 | 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. | 7.2 | 26 |
| 69 | Correlation of DSR Results and FTIRâ€™s Carbonyl and Sulfoxide Indexes: Effect of Aging Temperature on Asphalt Rheology. Journal of Materials in Civil Engineering, 2019, 31, . | 2.9 | 38 |
| 70 | Traffic open time prediction of fog seal with sand using image processing technology. Construction and Building Materials, 2019, 209, 9-19. | 7.2 | 21 |
| 71 | Review of sustainability, pretreatment, and engineering considerations of asphalt modifiers from the industrial solid wastes. Journal of Traffic and Transportation Engineering (English Edition), 2019, 6, 209-244. | 4.2 | 25 |
| 72 | Assessments of Potential Service Characteristics of Ethanol and Ethanol-NaHCO3 Foamed WMA Mixtures. Journal of Materials in Civil Engineering, 2019, 31, . | 2.9 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Effects of Preheating on the Rheological Properties of Rejuvenated Asphalt Binder. Transportation Research Record, 2019, 2673, 546-557. | 1.9 | 4 |
| 74 | Closure to â€œLinear and Nonlinear Rheological Properties of Bituminous Mastics under Large Amplitude Oscillatory Shear Testingâ€•by Aboelkasim Diab and Zhanping You. Journal of Materials in Civil Engineering, 2019, 31, 07019002. | 2.9 | 0 |
| 75 | Analysis of performance and mechanism of Buton rock asphalt modified asphalt. Journal of Applied Polymer Science, 2019, 136, 46903. | 2.6 | 37 |
| 76 | Emission analysis of recycled tire rubber modified asphalt in hot and warm mix conditions. Journal of Hazardous Materials, 2019, 365, 942-951. | 12.4 | 119 |
| 77 | Relationship of Coefficient of Permeability, Porosity, and Air Voids in Fine-Graded HMA. Journal of Materials in Civil Engineering, 2019, 31, . | 2.9 | 19 |
| 78 | Introducing New Indicators to Evaluate Fracture Properties of Asphalt Mixtures Using Semicircular Bending Test. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2019, 43, 541-549. | 1.9 | 8 |
| 79 | Material selections in asphalt pavement for wet-freeze climate zones: A review. Construction and Building Materials, 2019, 201, 510-525. | 7.2 | 33 |
| 80 | Pavement performance zone based on mechanistic-empirical design and temperature indices. Transportmetrica A: Transport Science, 2019, 15, 91-113. | 2.0 | 3 |
| 81 | Comparative study on engineering properties and energy efficiency of asphalt mixes incorporating fly ash and cement. Construction and Building Materials, 2018, 168, 295-304. | 7.2 | 9 |
| 82 | Characterising the asphalt concrete fracture performance from X-ray CT Imaging and finite element modelling. International Journal of Pavement Engineering, 2018, 19, 307-318. | 4.4 | 51 |
| 83 | Modulus simulation of asphalt binder models using Molecular Dynamics (MD) method. Construction and Building Materials, 2018, 162, 430-441. | 7.2 | 43 |
| 84 | 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, . | 2.9 | 31 |
| 85 | Research on properties of bio-asphalt binders based on time and frequency sweep test. Construction and Building Materials, 2018, 160, 786-793. | 7.2 | 75 |
| 86 | 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. | 4.4 | 14 |
| 87 | An alternative protocol to artificially simulate short-term ageing of binders for selected regional condition. Construction and Building Materials, 2018, 161, 654-664. | 7.2 | 4 |
| 88 | Refining the Calculation Method for Fatigue Failure Criterion of Asphalt Binder from Linear Amplitude Sweep Test. Journal of Materials in Civil Engineering, 2018, 30, . | 2.9 | 28 |
| 89 | Dynamic Response Analysis of Rutting Resistance Performance of High Modulus Asphalt Concrete Pavement. Applied Sciences (Switzerland), 2018, 8, 2701. | 2.5 | 17 |
| 90 | Comparative evaluation of rheological properties and micromechanics of non-foamed and foamed asphalt mastic. Construction and Building Materials, 2018, 193, 654-664. | 7.2 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Rheological Performance of Bio-Char Modified Asphalt with Different Particle Sizes. Applied Sciences (Switzerland), 2018, 8, 1665. | 2.5 | 33 |
| 92 | Effects of Titanate Coupling Agent on Engineering Properties of Asphalt Binders and Mixtures Incorporating LLDPE-CaCO3 Pellet. Applied Sciences (Switzerland), 2018, 8, 1029. | 2.5 | 9 |
| 93 | Performance of ethanol and ethanol-NaHCO3 based foamed WMA mixtures for low emission asphalt technology. Construction and Building Materials, 2018, 192, 9-19. | 7.2 | 6 |
| 94 | Evaluation of the effect of bio-oil on the high-temperature performance of rubber modified asphalt. Construction and Building Materials, 2018, 191, 692-701. | 7.2 | 69 |
| 95 | A Combinational Prediction Model for Transverse Crack of Asphalt Pavement. KSCE Journal of Civil Engineering, 2018, 22, 2109-2117. | 1.9 | 9 |
| 96 | Laboratory Testing of Rheological Behavior of Water-Foamed Bitumen. Journal of Materials in Civil Engineering, 2018, 30, . | 2.9 | 39 |
| 97 | Viscoelastic Fatigue Damage Properties of Asphalt Mixture with Different Aging Degrees. KSCE Journal of Civil Engineering, 2018, 22, 2073-2081. | 1.9 | 29 |
| 98 | 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. | 7.2 | 29 |
| 99 | Characteristics of Water-Foamed Asphalt Mixture under Multiple Freeze-Thaw Cycles: Laboratory Evaluation. Journal of Materials in Civil Engineering, 2018, 30, . | 2.9 | 53 |
| 100 | Advanced Paving Materials and Technologies. Applied Sciences (Switzerland), 2018, 8, 588. | 2.5 | 1 |
| 101 | Fatigue Equation of Cement-Treated Aggregate Base Materials under a True Stress Ratio. Applied Sciences (Switzerland), 2018, 8, 691. | 2.5 | 17 |
| 102 | Rheological Behavior and Sensitivity of Wood-Derived Bio-Oil Modified Asphalt Binders. Applied Sciences (Switzerland), 2018, 8, 919. | 2.5 | 52 |
| 103 | Effects of a surfactant-wax based warm additive on high temperature rheological properties of asphalt binders. Construction and Building Materials, 2018, 183, 395-407. | 7.2 | 10 |
| 104 | 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. | 7.2 | 31 |
| 105 | Effects of coarse aggregate angularity on the microstructure of asphalt mixture. Construction and Building Materials, 2018, 183, 472-484. | 7.2 | 70 |
| 106 | Performance evaluation of warm mix asphalt containing reclaimed asphalt mixtures. International Journal of Pavement Engineering, 2017, 18, 981-989. | 4.4 | 27 |
| 107 | Sensitivity of flexible pavement design to Michiganâ€™s climatic inputs using pavement ME design. International Journal of Pavement Engineering, 2017, 18, 622-632. | 4.4 | 35 |
| 108 | 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. | 4.4 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Development of morphological properties of road surfacing aggregates during the polishing process. International Journal of Pavement Engineering, 2017, 18, 367-380. | 4.4 | 36 |
| 110 | Environmental and mechanical performance of crumb rubber modified warm mix asphalt using Evotherm. Journal of Cleaner Production, 2017, 159, 346-358. | 9.3 | 99 |
| 111 | Correlation Analysis between Temperature Indices and Flexible Pavement Distress Predictions Using Mechanistic-Empirical Design. Journal of Cold Regions Engineering - ASCE, 2017, 31, . | 1.1 | 12 |
| 112 | High temperature performance of SBS modified bio-asphalt. Construction and Building Materials, 2017, 144, 99-105. | 7.2 | 107 |
| 113 | Optimization in producing warm mix asphalt with polymer modified binder and surfactant-wax additive. Construction and Building Materials, 2017, 141, 578-588. | 7.2 | 15 |
| 114 | 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. | 7.2 | 25 |
| 115 | Chemical characterization and oxidative aging of bio-asphalt and its compatibility with petroleum asphalt. Journal of Cleaner Production, 2017, 142, 1837-1847. | 9.3 | 201 |
| 116 | Multi-scale characterization of hydrated lime mastics. Canadian Journal of Civil Engineering, 2017, 44, 985-993. | 1.3 | 5 |
| 117 | Preliminary Laboratory Evaluation of Methanol Foamed Warm Mix Asphalt Binders and Mixtures. Journal of Materials in Civil Engineering, 2017, 29, . | 2.9 | 18 |
| 118 | Quantification of physicochemical properties, activation energy, and temperature susceptibility of foamed asphalt binders. Construction and Building Materials, 2017, 153, 557-568. | 7.2 | 32 |
| 119 | Effects of compaction delay on the performance of porous asphalt mixture compacted at different thicknesses. AIP Conference Proceedings, 2017, , . | 0.4 | 1 |
| 120 | Performance characterizations of asphalt binders and mixtures incorporating silane additive ZycoTherm. AIP Conference Proceedings, 2017, , . | 0.4 | 7 |
| 121 | A comprehensive review of theory, development, and implementation of warm mix asphalt using foaming techniques. Construction and Building Materials, 2017, 152, 115-133. | 7.2 | 59 |
| 122 | Effectiveness of Vegetable Oils as Rejuvenators for Aged Asphalt Binders. Journal of Materials in Civil Engineering, 2017, 29, . | 2.9 | 119 |
| 123 | Flame Resistance of Asphalt Mixtures with Flame Retardants through a Comprehensive Testing Program. Journal of Materials in Civil Engineering, 2017, 29, . | 2.9 | 26 |
| 124 | Property Analysis of Exfoliated Graphite Nanoplatelets Modified Asphalt Model Using Molecular Dynamics (MD) Method. Applied Sciences (Switzerland), 2017, 7, 43. | 2.5 | 23 |
| 125 | Adhesion Evaluation of Asphalt-Aggregate Interface Using Surface Free Energy Method. Applied Sciences (Switzerland), 2017, 7, 156. | 2.5 | 24 |
| 126 | Towards an Alternate Evaluation of Moisture-Induced Damage of Bituminous Materials. Applied Sciences (Switzerland), 2017, 7, 1049. | 2.5 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Preparation and Properties of Asphalt Binders Modified by THFS Extracted From Direct Coal Liquefaction Residue. Applied Sciences (Switzerland), 2017, 7, 1155. | 2.5 | 7 |
| 128 | Investigation of the asphaltâ€“aggregate interaction using molecular dynamics. Petroleum Science and Technology, 2017, 35, 586-593. | 1.5 | 22 |
| 129 | Rheological properties, low-temperature cracking resistance, and optical performance of exfoliated graphite nanoplatelets modified asphalt binder. Construction and Building Materials, 2016, 113, 988-996. | 7.2 | 85 |
| 130 | Ethanol based foamed asphalt as potential alternative for low emission asphalt technology. Journal of Traffic and Transportation Engineering (English Edition), 2016, 3, 116-126. | 4.2 | 21 |
| 131 | Evaluations of Plant-Produced Foamed Warm Mixture Asphalt. , 2016, , . | | 1 |
| 132 | Modification mechanism of asphalt binder with waste tire rubber and recycled polyethylene. Construction and Building Materials, 2016, 126, 66-76. | 7.2 | 105 |
| 133 | Investigation of microwave healing performance of electrically conductive carbon fiber modified asphalt mixture beams. Construction and Building Materials, 2016, 126, 1012-1019. | 7.2 | 68 |
| 134 | Innovation of aggregate angularity characterization using gradient approach based upon the traditional and modified Sobel operation. Construction and Building Materials, 2016, 120, 442-449. | 7.2 | 43 |
| 135 | Disruption of air voids continuity based on permeability loss due to mortar creep. Construction and Building Materials, 2016, 116, 347-354. | 7.2 | 7 |
| 136 | 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. | 1.1 | 10 |
| 137 | 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. | 4.2 | 29 |
| 138 | A simple treatment of electronic-waste plastics to produce asphalt binder additives with improved properties. Construction and Building Materials, 2016, 110, 79-88. | 7.2 | 57 |
| 139 | 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. | 4.4 | 26 |
| 140 | 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. | 3.1 | 30 |
| 141 | Proposed Japanese Mix Design Methodology for Porous Asphalt Using Modified Binder. , 2016, , . | | 1 |
| 142 | High temperature performance evaluation of bio-oil modified asphalt binders using the DSR and MSCR tests. Construction and Building Materials, 2015, 76, 380-387. | 7.2 | 190 |
| 143 | Evaluation of aggregate resistance to wear with Micro-Deval test in combination with aggregate imaging techniques. Wear, 2015, 338-339, 288-296. | 3.1 | 57 |
| 144 | New Predictive Equations for Dynamic Modulus and Phase Angle Using a Nonlinear Least-Squares Regression Model. Journal of Materials in Civil Engineering, 2015, 27, . | 2.9 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | 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. | 7.2 | 28 |
| 146 | Asphalt Binders Blended with a High Percentage of Biobinders: Aging Mechanism Using FTIR and Rheology. Journal of Materials in Civil Engineering, 2015, 27, . | 2.9 | 117 |
| 147 | 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, . | 2.9 | 23 |
| 148 | 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, . | 2.9 | 36 |
| 149 | Characterization of the rate of change of rheological properties of nano-modified asphalt. Construction and Building Materials, 2015, 98, 437-446. | 7.2 | 53 |
| 150 | Laboratory moisture susceptibility evaluation of WMA under possible field conditions. Construction and Building Materials, 2015, 101, 57-64. | 7.2 | 43 |
| 151 | Synthesis of Longitudinal Joint of Flexible Pavement. Jurnal Teknologi (Sciences and Engineering), 2015, 73, . | 0.4 | 0 |
| 152 | Laboratory performance of warm mix asphalt containing recycled asphalt mixtures. Construction and Building Materials, 2014, 64, 141-149. | 7.2 | 107 |
| 153 | Mechanical performance of asphalt mixtures modified by bio-oils derived from waste wood resources. Construction and Building Materials, 2014, 51, 424-431. | 7.2 | 176 |
| 154 | Aging Influence on Rheology Properties of Petroleum-Based Asphalt Modified with Biobinder. Journal of Materials in Civil Engineering, 2014, 26, 358-366. | 2.9 | 126 |
| 155 | Effects of Physio-Chemical Factors on Asphalt Aging Behavior. Journal of Materials in Civil Engineering, 2014, 26, 190-197. | 2.9 | 41 |
| 156 | Comparative study on the properties of WMA mixture using foamed admixture and free water system. Construction and Building Materials, 2013, 48, 45-50. | 7.2 | 41 |
| 157 | The effects of break point location and nominal maximum aggregate size on porous asphalt properties. Construction and Building Materials, 2013, 44, 360-367. | 7.2 | 11 |
| 158 | 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. | 7.2 | 87 |
| 159 | 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. | 7.2 | 212 |
| 160 | Performances Evaluation of CecabaseÂ® RT in Warm Mix Asphalt Technology. Procedia, Social and Behavioral Sciences, 2013, 96, 2782-2790. | 0.5 | 22 |
| 161 | Rheological Properties and Chemical Bonding of Asphalt Modified with Nanosilica. Journal of Materials in Civil Engineering, 2013, 25, 1619-1630. | 2.9 | 278 |
| 162 | Performance of Warm Mix Asphalt containing SasobitÂ®: State-of-the-art. Construction and Building Materials, 2013, 38, 530-553. | 7.2 | 276 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | 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. | 1.1 | 7 |
| 164 | Mechanical Properties of Porous Asphalt Pavement Materials with Warm Mix Asphalt and RAP. Journal of Transportation Engineering, 2012, 138, 90-97. | 0.9 | 86 |
| 165 | Predictive models for dynamic modulus using weighted least square nonlinear multiple regression model. Canadian Journal of Civil Engineering, 2012, 39, 589-597. | 1.3 | 15 |
| 166 | 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. | 2.9 | 43 |
| 167 | Properties of Modified Asphalt Binders Blended with Electronic Waste Powders. Journal of Materials in Civil Engineering, 2012, 24, 1261-1267. | 2.9 | 53 |
| 168 | Partial replacement of asphalt binder with bio-binder: characterisation and modification. International Journal of Pavement Engineering, 2012, 13, 515-522. | 4.4 | 135 |
| 169 | The effects of initial conditioning and ambient temperatures on abrasion loss and temperature change of porous asphalt. Construction and Building Materials, 2012, 29, 108-113. | 7.2 | 14 |
| 170 | Permeability loss in porous asphalt due to binder creep. Construction and Building Materials, 2012, 30, 10-15. | 7.2 | 46 |
| 171 | Performance of asphalt binder blended with non-modified and polymer-modified nanoclay. Construction and Building Materials, 2012, 35, 159-170. | 7.2 | 143 |
| 172 | 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. | 7.2 | 91 |
| 173 | Review of advances in understanding impacts of mix composition characteristics on asphalt concrete (AC) mechanics. International Journal of Pavement Engineering, 2011, 12, 385-405. | 4.4 | 25 |
| 174 | Moisture Damage and Fatigue Cracking of Foamed Warm Mix Asphalt Using a Simple Laboratory Setup. , 2011, , . | | 19 |
| 175 | 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. | 2.9 | 142 |
| 176 | Effect of deicing solutions on the tensile strength of micro- or nano-modified asphalt mixture. Construction and Building Materials, 2011, 25, 195-200. | 7.2 | 161 |
| 177 | Nanoclay-modified asphalt materials: Preparation and characterization. Construction and Building Materials, 2011, 25, 1072-1078. | 7.2 | 349 |
| 178 | Evaluation of Warm Mix Asphalt Produced at Various Temperatures through Dynamic Modulus Testing and Four Point Beam Fatigue Testing. , 2011, , . | | 13 |
| 179 | Special Issue on Multiscale and Micromechanical Modeling of Asphalt Mixes. Journal of Materials in Civil Engineering, 2011, 23, 1-1. | 2.9 | 17 |
| 180 | Chemical Characterization of Biobinder from Swine Manure: Sustainable Modifier for Asphalt Binder. Journal of Materials in Civil Engineering, 2011, 23, 1506-1513. | 2.9 | 274 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Accelerated Discrete-Element Modeling of Asphalt-Based Materials with the Frequency-Temperature Superposition Principle. Journal of Engineering Mechanics - ASCE, 2011, 137, 355-365. | 2.9 | 42 |
| 182 | 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. | 2.9 | 35 |
| 183 | The mechanical properties of asphalt mixtures with Recycled Concrete Aggregates. Construction and Building Materials, 2010, 24, 230-235. | 7.2 | 201 |
| 184 | 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. | 4.4 | 50 |
| 185 | Three-Dimensional Discrete Element Simulation of Asphalt Concrete Subjected to Haversine Loading. Road Materials and Pavement Design, 2010, 11, 273-290. | 4.0 | 8 |
| 186 | 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. | 4.4 | 14 |
| 187 | Visualization and Simulation of Asphalt Concrete with Randomly Generated Three-Dimensional Models. Journal of Computing in Civil Engineering, 2009, 23, 340-347. | 4.7 | 130 |
| 188 | Dynamic modulus simulation of the asphalt concrete using the X-ray computed tomography images. Materials and Structures/Materiaux Et Constructions, 2009, 42, 617-630. | 3.1 | 150 |
| 189 | Viscoelastic Model for Discrete Element Simulation of Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2009, 135, 324-333. | 2.9 | 172 |
| 190 | Warm Mix Asphalt Using Sasobit in Cold Region. , 2009, , . | | 9 |
| 191 | Micromechanical finite element framework for predicting viscoelastic properties of asphalt mixtures. Materials and Structures/Materiaux Et Constructions, 2008, 41, 1025-1037. | 3.1 | 56 |
| 192 | Three-Dimensional Discrete Element Models for Asphalt Mixtures. Journal of Engineering Mechanics - ASCE, 2008, 134, 1053-1063. | 2.9 | 156 |
| 193 | Resilient Modulus and Dynamic Modulus of Warm Mix Asphalt. , 2008, , . | | 11 |
| 194 | Prediction of Creep Stiffness of Asphalt Mixture with Micromechanical Finite-Element and Discrete-Element Models. Journal of Engineering Mechanics - ASCE, 2007, 133, 163-173. | 2.9 | 168 |
| 195 | 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. | 3.3 | 60 |