

Sakdirat Kaewunruen

List of Publications by Year in descending order

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321
papers

5,754
citations

94433

37
h-index

138484

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all docs

340
docs citations

340
times ranked

2242
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk and Resilience of Railway Infrastructure: An Assessment on Uncertainties of Rail Accidents to Improve Risk and Resilience Through Long-Term Data Analysis. Lecture Notes in Civil Engineering, 2022, , 17-27.	0.4	1
2	Integration of Building Information Modeling (BIM) and Artificial Intelligence (AI) to Detect Combined Defects of Infrastructure in the Railway System. Lecture Notes in Civil Engineering, 2022, , 377-386.	0.4	5
3	Vulnerability of Railway Switches and Crossings Exposed to Flooding Conditions. Lecture Notes in Civil Engineering, 2022, , 337-348.	0.4	2
4	A hierarchical Bayesian-based model for hazard analysis of climate effect on failures of railway turnout components. Reliability Engineering and System Safety, 2022, 218, 108130.	8.9	17
5	Numerical studies to evaluate crack propagation behaviour of prestressed concrete railway sleepers. Engineering Failure Analysis, 2022, 131, 105888.	4.0	9
6	GPR-assisted evaluation of probabilistic fatigue crack growth in rib-to-deck joints in orthotropic steel decks considering mixed failure models. Engineering Structures, 2022, 252, 113688.	5.3	12
7	Investigation into Ground Vibration Responses of High-Speed Rail Slab Tracks Considering Train-Track-Soil Interactions. Lecture Notes in Civil Engineering, 2022, , 337-347.	0.4	0
8	Benchmarking Socio-Economic Impacts of High-Speed Rail Networks Using K-Nearest Neighbour and Pearson's Correlation Coefficient Techniques through Computational Model-Based Analysis. Applied Sciences (Switzerland), 2022, 12, 1520.	2.5	7
9	AI-Based Quantification of Fitness Activities Using Smartphones. Sustainability, 2022, 14, 690.	3.2	1
10	Evaluation of Railway Passenger Comfort With Machine Learning. IEEE Access, 2022, 10, 2372-2381.	4.2	8
11	Railway defect detection based on track geometry using supervised and unsupervised machine learning. Structural Health Monitoring, 2022, 21, 1757-1767.	7.5	16
12	Prediction of Thermal-Induced Buckling Failures of Ballasted Railway Tracks Using Artificial Neural Network (ANN). International Journal of Structural Stability and Dynamics, 2022, 22, .	2.4	18
13	Comparative Investigations into Environment-Friendly Production Methods for Railway Prestressed Concrete Sleepers and Bearers. Sustainability, 2022, 14, 1059.	3.2	3
14	Mechanical Properties and Energy-Absorption Capability of a 3D-Printed TPMS Sandwich Lattice Model for Meta-Functional Composite Bridge Bearing Applications. Journal of Composites Science, 2022, 6, 71.	3.0	8
15	Crack Propagation Assessment of Time-Dependent Concrete Degradation of Prestressed Concrete Sleepers. Sustainability, 2022, 14, 3217.	3.2	2
16	Machine Learning to Identify Dynamic Properties of Railway Track Components. International Journal of Structural Stability and Dynamics, 2022, 22, .	2.4	4
17	Environment-friendly recycled steel fibre reinforced concrete. Construction and Building Materials, 2022, 327, 126967.	7.2	23
18	State-of-the-Art Review on Additive Manufacturing Technology in Railway Infrastructure Systems. Journal of Composites Science, 2022, 6, 7.	3.0	11

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19	Prognostics of unsupported railway sleepers and their severity diagnostics using machine learning. Scientific Reports, 2022, 12, 6064.	3.3	12
20	Compression behaviour of an extremely lightweight structure with a gyroid core used for bridge bearings. Materials Today: Proceedings, 2022, 65, 1656-1659.	1.8	4
21	Numerical investigation of porous composite honeycomb track slab under point load. Materials Today: Proceedings, 2022, , .	1.8	1
22	Fatigue life modelling of railway prestressed concrete sleepers. Structures, 2022, 41, 643-656.	3.6	8
23	Mechanisms and Evolution of Cracks in Prestressed Concrete Sleepers Exposed to Time-Dependent Actions. Applied Sciences (Switzerland), 2022, 12, 5511.	2.5	2
24	Self-Healing Performance Assessment of Bacterial-Based Concrete Using Machine Learning Approaches. Materials, 2022, 15, 4436.	2.9	9
25	Risk-based maintenance of turnout systems. , 2022, , 341-353.		0
26	Railway turnouts and inspection technologies. , 2022, , 319-340.		0
27	Management of railway stations exposed to a terrorist threat. , 2022, , 81-96.		0
28	Quantification of Dynamic Track Stiffness Using Machine Learning. IEEE Access, 2022, 10, 78747-78753.	4.2	3
29	Rail infrastructure systems and hazards. , 2022, , 97-109.		2
30	Responses of mast structure and overhead line equipment (OHLE) subjected to extreme events. , 2022, , 425-439.		0
31	Reliability quantification of the overhead line conductor. , 2022, , 441-462.		0
32	Diagnostics and management methods for concrete sleepers. , 2022, , 271-294.		1
33	Sustainability and recyclability of composite materials for railway turnout systems. Journal of Cleaner Production, 2021, 285, 124890.	9.3	9
34	Recycled Aggregates Concrete Compressive Strength Prediction Using Artificial Neural Networks (ANNs). Infrastructures, 2021, 6, 17.	2.8	31
35	5G Intelligence Underpinning Railway Safety in the COVID-19 Era. Frontiers in Built Environment, 2021, 7, .	2.3	8
36	Machine Learning Aided Design and Prediction of Environmentally Friendly Rubberised Concrete. Sustainability, 2021, 13, 1691.	3.2	13

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37	Digital Twin Aided Vulnerability Assessment and Risk-Based Maintenance Planning of Bridge Infrastructures Exposed to Extreme Conditions. Sustainability, 2021, 13, 2051.	3.2	66
38	Socioeconomic Benefits of the Shinkansen Network. Infrastructures, 2021, 6, 68.	2.8	6
39	Getting It Right on the Policy Prioritization for Rail Decarbonization: Evidence From Whole-Life CO ₂ e Emissions of Railway Systems. Frontiers in Built Environment, 2021, 7, .	2.3	10
40	Detection and Severity Evaluation of Combined Rail Defects Using Deep Learning. Vibration, 2021, 4, 341-356.	1.9	25
41	Influences of ballast degradation on railway track buckling. Engineering Failure Analysis, 2021, 122, 105252.	4.0	11
42	Evaluation of lateral stability of railway tracks due to ballast degradation. Construction and Building Materials, 2021, 278, 122342.	7.2	31
43	Nonlinear buckling instabilities of interspersed railway tracks. Computers and Structures, 2021, 249, 106516.	4.4	13
44	Sensitivity of a High-Speed Rail Development on Supply Chain and Logistics via Air-Rail-Road Freight Transportation. Frontiers in Built Environment, 2021, 7, .	2.3	4
45	Prediction of Healing Performance of Autogenous Healing Concrete Using Machine Learning. Materials, 2021, 14, 4068.	2.9	19
46	Identification of Weather Influences on Flight Punctuality Using Machine Learning Approach. Climate, 2021, 9, 127.	2.8	5
47	Time-dependent behaviours of railway prestressed concrete sleepers in a track system. Engineering Failure Analysis, 2021, 127, 105500.	4.0	8
48	Benchmarking environmental and economic impacts from the HSR networks considering life cycle perspectives. Environmental Impact Assessment Review, 2021, 90, 106608.	9.2	15
49	Benchmarking on railway safety performance using Bayesian inference, decision tree and petri-net techniques based on long-term accidental data sets. Reliability Engineering and System Safety, 2021, 213, 107684.	8.9	25
50	Editorial: Best Practices on Advanced Condition Monitoring of Rail Infrastructure Systems, Volume II. Frontiers in Built Environment, 2021, 7, .	2.3	2
51	Train-track interactions over vulnerable railway turnout systems exposed to flooding conditions. Engineering Failure Analysis, 2021, 127, 105459.	4.0	3
52	Human Activity Vibrations. Data, 2021, 6, 104.	2.3	3
53	Failure investigations into interspersed railway tracks exposed to flood and washaway conditions under moving train loads. Engineering Failure Analysis, 2021, 129, 105726.	4.0	3
54	Causal analysis of bus travel time reliability in Birmingham, UK. Results in Engineering, 2021, 12, 100280.	5.1	4

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55	Nonlinear Blast Responses of Thin Shell Roof Over Long Span Structures. International Journal of Structural Stability and Dynamics, 2021, 21, 2150031.	2.4	5
56	Local Failure Modes and Critical Buckling Loads of a Meta-Functional Auxetic Sandwich Core for Composite Bridge Bearing Applications. Applied Sciences (Switzerland), 2021, 11, 10844.	2.5	7
57	A net-zero future for freight. One Earth, 2021, 4, 1517-1519.	6.8	4
58	Special Issue "Extreme Sciences and Engineering". Applied Sciences (Switzerland), 2021, 11, 10654.	2.5	0
59	Life Cycle Sustainability Assessments of an Innovative FRP Composite Footbridge. Sustainability, 2021, 13, 13000.	3.2	10
60	Integration of Building Information Modeling and Machine Learning for Railway Defect Localization. IEEE Access, 2021, 9, 166039-166047.	4.2	10
61	Impact Noise and Vibration Sources Induced by Heavy Gym Activities: Do They in Turn Unnecessarily, Indirectly Affect Our Health?. Applied Sciences (Switzerland), 2021, 11, 11812.	2.5	1
62	Machine Learning Application to Eco-Friendly Concrete Design for Decarbonisation. Sustainability, 2021, 13, 13663.	3.2	9
63	Reliability Quantification of Railway Electrification Mast Structure Considering Buckling. Frontiers in Built Environment, 2021, 7, .	2.3	1
64	Value of rescheduling of rail inspection. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 321-330.	2.0	4
65	Life Cycle Cost, Energy and Carbon Assessments of Beijing-Shanghai High-Speed Railway. Sustainability, 2020, 12, 206.	3.2	41
66	The Self-Sealing Capacity of Environmentally Friendly, Highly Damped, Fibre-Reinforced Concrete. Materials, 2020, 13, 298.	2.9	17
67	Systemic values of enhanced dynamic damping in concrete sleepers " Comments on the paper: Ahn S, Kwon S, Hwang Y-T, Koh H-I, Kim H-S, Park J. Complex structured polymer concrete sleeper for rolling noise reduction of high-speed train system, Composite Structures, 2019, 223:110944 (doi) 10.1016/j.compstruc.2019.110944	5.8	8
68	Learning From Accidents: Machine Learning for Safety at Railway Stations. IEEE Access, 2020, 8, 633-648.	4.2	34
69	Global Warming Potentials Due to Railway Tunnel Construction and Maintenance. Applied Sciences (Switzerland), 2020, 10, 6459.	2.5	19
70	Dynamic properties of fibre reinforced foamed urethane composites in wet and dry conditions. Materials Today: Proceedings, 2020, 29, 7-10.	1.8	5
71	Editorial: Best Practices on Advanced Condition Monitoring of Rail Infrastructure Systems. Frontiers in Built Environment, 2020, 6, .	2.3	1
72	Additive manufacturing meta-functional composites for engineered bridge bearings: A review. Construction and Building Materials, 2020, 262, 120535.	7.2	19

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73	Dynamic train-track interactions over railway track stiffness transition zones using baseplate fastening systems. <i>Engineering Failure Analysis</i> , 2020, 118, 104866.	4.0	22
74	Failure modes of fibre reinforced foamed urethane composite beams: Full-scale experimental determination. <i>Materials Today: Proceedings</i> , 2020, 29, 11-15.	1.8	3
75	Self-healing concrete. , 2020, , 825-856.		9
76	On Hogging Bending Test Specifications of Railway Composite Sleepers and Bearers. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	8
77	Large amplitude vibrations of imperfect spider web structures. <i>Scientific Reports</i> , 2020, 10, 19161.	3.3	11
78	Viaduct maintenance for future traffic demands and earthquakes. <i>Infrastructure Asset Management</i> , 2020, 7, 256-268.	1.6	3
79	Experimental and Numerical Investigations into Dynamic Modal Parameters of Fiber-Reinforced Foamed Urethane Composite Beams in Railway Switches and Crossings. <i>Vibration</i> , 2020, 3, 174-188.	1.9	12
80	Smartphone Sensing and Identification of Shock Noise and Vibration Induced by Gym Activities. <i>Acoustics Australia</i> , 2020, 48, 349-361.	2.4	4
81	Parametric Studies Into Creep and Shrinkage Characteristics in Railway Prestressed Concrete Sleepers. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	3
82	Utilizing an Adaptive Neuro-Fuzzy Inference System (ANFIS) for Overcrowding Level Risk Assessment in Railway Stations. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5156.	2.5	28
83	Large-Amplitude Vibrations of Spider Web Structures. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6032.	2.5	6
84	Methods to Monitor and Evaluate the Deterioration of Track and Its Components in a Railway In-Service: A Systemic Review. <i>Frontiers in Built Environment</i> , 2020, 6, .	2.3	15
85	Sustainability of Vibration Mitigation Methods Using Meta-Materials/Structures along Railway Corridors Exposed to Adverse Weather Conditions. <i>Sustainability</i> , 2020, 12, 10236.	3.2	7
86	The Use of e-Learning Technologies in the Russian University in the Training of Engineers of the XXI Century. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 940, 012131.	0.6	5
87	Digital Twin Aided Sustainability and Vulnerability Audit for Subway Stations. <i>Sustainability</i> , 2020, 12, 7873.	3.2	64
88	Comparative studies into public private partnership and traditional investment approaches on the high-speed rail project linking 3 airports in Thailand. <i>Transportation Research Interdisciplinary Perspectives</i> , 2020, 5, 100116.	2.7	15
89	The Effect of Unsupported Sleepers/Bearers on Dynamic Phenomena of a Railway Turnout System under Impact Loads. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2320.	2.5	19
90	Influences of dynamic material properties of slab track components on the train-track vibration interactions. <i>Engineering Failure Analysis</i> , 2020, 115, 104633.	4.0	25

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91	A Deep Learning Approach Towards Railway Safety Risk Assessment. IEEE Access, 2020, 8, 102811-102832.	4.2	35
92	Editorial: UK-Japan Symposium on Highspeed Rails. Frontiers in Built Environment, 2020, 6, .	2.3	1
93	Buckling Analysis of Interspersed Railway Tracks. Applied Sciences (Switzerland), 2020, 10, 3091.	2.5	15
94	Sustainability-Based Lifecycle Management for Bridge Infrastructure Using 6D BIM. Sustainability, 2020, 12, 2436.	3.2	64
95	Seismic metamaterial barriers for ground vibration mitigation in railways considering the train-track-soil dynamic interactions. Construction and Building Materials, 2020, 260, 119936.	7.2	54
96	Damage Detection in Fiber-Reinforced Foamed Urethane Composite Railway Bearers Using Acoustic Emissions. Infrastructures, 2020, 5, 50.	2.8	18
97	Briefing: Dynamic mode couplings of railway composite track slabs. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2020, 173, 81-87.	0.8	4
98	Influences of piles on the ground vibration considering the train-track-soil dynamic interactions. Computers and Geotechnics, 2020, 120, 103455.	4.7	31
99	Bayesian network-based human error reliability assessment of derailments. Reliability Engineering and System Safety, 2020, 197, 106825.	8.9	27
100	Does High-Speed Rail Influence Urban Dynamics and Land Pricing?. Sustainability, 2020, 12, 3012.	3.2	26
101	Effects of under sleeper pads on dynamic responses of railway prestressed concrete sleepers subjected to high intensity impact loads. Engineering Structures, 2020, 214, 110604.	5.3	38
102	Performance Improvement of Ballasted Railway Tracks Using Geocells: Present State of the Art. Springer Transactions in Civil and Environmental Engineering, 2020, , 277-318.	0.4	5
103	Eco-friendly High-Strength Concrete Engineered by Micro Crumb Rubber from Recycled Tires and Plastics for Railway Components. Advances in Civil Engineering Materials, 2020, 9, 210-226.	0.6	8
104	Role of Railway Transportation in the Spread of the Coronavirus: Evidence From Wuhan-Beijing Railway Corridor. Frontiers in Built Environment, 2020, 6, .	2.3	7
105	Experimental and Numerical Investigations of Flexural Behaviour of Composite Bearers in Railway Switches and Crossings. Sustainable Civil Infrastructures, 2020, , 104-113.	0.2	0
106	Failure of Overhead Line Equipment (OHLE) Structure Under Hurricane. Sustainable Civil Infrastructures, 2020, , 54-63.	0.2	1
107	ENGINEERED MODEL FOR THE NUMERICAL INVESTIGATION INTO VIBRATION CHARACTERISTICS OF A NOVEL BRIDGE BEARING UNDER FREE-FREE AND FIXED BOUNDARY CONDITION. , 2020, , .		4
108	Dynamic Capacity Reduction of Railway Prestressed Concrete Sleepers Due to Surface Abrasions Considering the Effects of Strain Rate and Prestressing Losses. International Journal of Structural Stability and Dynamics, 2019, 19, 1940001.	2.4	15

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109	Dynamic Bayesian network-based system-level evaluation on fatigue reliability of orthotropic steel decks. <i>Engineering Failure Analysis</i> , 2019, 105, 1212-1228.	4.0	28
110	Experimental Investigations into Earthquake Resistance of Steel Frame Retrofitted by Low-Yield-Point Steel Energy Absorbers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3299.	2.5	8
111	Shaking Table Tests of Suspended Structures Equipped with Viscous Dampers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2616.	2.5	15
112	Mode shape curvature squares method for crack detection in railway prestressed concrete sleepers. <i>Engineering Failure Analysis</i> , 2019, 105, 386-401.	4.0	21
113	Stochastic Traffic-Based Fatigue Life Assessment of Rib-to-Deck Welding Joints in Orthotropic Steel Decks with Thickened Edge U-Ribs. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2582.	2.5	8
114	Enhancing Railway Engineering Student Engagement Using Interactive Technology Embedded with Infotainment. <i>Education Sciences</i> , 2019, 9, 136.	2.6	7
115	A Life-Cycle Cost Analysis of Railway Turnouts Exposed to Climate Uncertainties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 062026.	0.6	2
116	A Novel Separation Technique of Flexural Loading-Induced Acoustic Emission Sources in Railway Prestressed Concrete Sleepers. <i>IEEE Access</i> , 2019, 7, 51426-51440.	4.2	13
117	Evaluation of remaining fatigue life of concrete sleeper based on field loading conditions. <i>Engineering Failure Analysis</i> , 2019, 105, 70-86.	4.0	15
118	Influence of time-dependent material degradation on life cycle serviceability of interspersed railway tracks due to moving train loads. <i>Engineering Structures</i> , 2019, 199, 109625.	5.3	18
119	Fatigue Assessment on Suspenders under Stochastic Wind and Traffic Loads Based on In-Situ Monitoring Data. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3405.	2.5	10
120	Contact Conditions over Turnout Crossing Noses. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 062027.	0.6	2
121	Utilizing Big Data for Enhancing Passenger Safety in Railway Stations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 603, 052031.	0.6	6
122	Urbanisation Through the Benefits of High-Speed Rail System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 102006.	0.6	1
123	Analysis of Impact On Land Pricing from High-Speed-Rail in Honshu Area. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 471, 092011.	0.6	1
124	Base isolation fibre-reinforced composite bearings using recycled rubber. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 603, 022060.	0.6	3
125	Parameters and Boundary Conditions in Modelling the Track Deterioration in a Railway System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 603, 032084.	0.6	4
126	Risk Management Prediction for Overcrowding in Railway Stations Utilising Adaptive Nero Fuzzy Inference System (ANFIS). <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 603, 052030.	0.6	0

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127	Impact Responses of the Highspeed Railway Track Slabs. IOP Conference Series: Materials Science and Engineering, 2019, 603, 042044.	0.6	0
128	Spectro-Temporal Responses of Curved Railway Tracks with Variable Radii of Arc Curves. International Journal of Structural Stability and Dynamics, 2019, 19, 1950044.	2.4	6
129	A through-life evaluation of end-of-life rolling stocks considering asset recycling, energy recovering, and financial benefit. Journal of Cleaner Production, 2019, 212, 1008-1024.	9.3	22
130	Idealisations of Dynamic Modelling for Railway Ballast in Flood Conditions. Applied Sciences (Switzerland), 2019, 9, 1785.	2.5	16
131	Risk-Based Maintenance Planning for Rail Fastening Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2019, 5, .	1.7	11
132	Digital twin aided sustainability-based lifecycle management for railway turnout systems. Journal of Cleaner Production, 2019, 228, 1537-1551.	9.3	146
133	Rail accident analysis using large-scale investigations of train derailments on switches and crossings: Comparing the performances of a novel stochastic mathematical prediction and various assumptions. Engineering Failure Analysis, 2019, 103, 203-216.	4.0	15
134	Vibration-Induced Pressures on a Cylindrical Structure Surface in Compressible Fluid. Applied Sciences (Switzerland), 2019, 9, 1403.	2.5	7
135	Editorial: Safety, Risk and Uncertainties in Transportation and Transit Systems. Frontiers in Built Environment, 2019, 5, .	2.3	2
136	Effect of Extreme Climate on Topology of Railway Prestressed Concrete Sleepers. Climate, 2019, 7, 17.	2.8	16
137	An Improvement on the End-of-Life of High-Speed Rail Rolling Stocks Considering CFRP Composite Material Replacement. Frontiers in Built Environment, 2019, 5, .	2.3	3
138	The importance of "dynamics"™ in the design and performance-based testing criteria for railway track components. Procedia Structural Integrity, 2019, 21, 83-90.	0.8	5
139	Potential Reconstruction Design of an Existing Townhouse in Washington DC for Approaching Net Zero Energy Building Goal. Sustainability, 2019, 11, 6631.	3.2	22
140	Saturated Ground Vibration Analysis Based on a Three-Dimensional Coupled Train-Track-Soil Interaction Model. Applied Sciences (Switzerland), 2019, 9, 4991.	2.5	16
141	Hybrid Approach to Predict the Track Deterioration in a Railway in-Service: A Conceptual Design. IOP Conference Series: Materials Science and Engineering, 2019, 603, 032083.	0.6	3
142	The Total Track Inspection. Frontiers in Built Environment, 2019, 4, .	2.3	11
143	New Insights from Multibody Dynamic Analyses of a Turnout System under Impact Loads. Applied Sciences (Switzerland), 2019, 9, 4080.	2.5	17
144	Nonlinear finite element analysis for structural capacity of railway prestressed concrete sleepers with rail seat abrasion. Engineering Failure Analysis, 2019, 95, 47-65.	4.0	32

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145	Condition Monitoring of Overhead Line Equipment (OHLE) Structures Using Ground-Bourne Vibrations from Train Passages. Sustainable Civil Infrastructures, 2019, , 14-22.	0.2	3
146	Peridynamic Modeling of Rail Squats. Sustainable Civil Infrastructures, 2019, , 108-118.	0.2	3
147	Experimental Performance Evaluation of Multi-Storey Steel Plate Shear Walls Designed by Different Methods. International Journal of Civil Engineering, 2019, 17, 1145-1154.	2.0	9
148	A Digital-Twin Evaluation of Net Zero Energy Building for Existing Buildings. Sustainability, 2019, 11, 159.	3.2	131
149	Flexural cracking-induced acoustic emission peak frequency shift in railway prestressed concrete sleepers. Engineering Structures, 2019, 178, 493-505.	5.3	32
150	Discussion of "Evaluation of an Innovative Composite Railway Sleeper for a Narrow-Gauge Track under Static Load" by Wahid Ferdous, Allan Manalo, Gerard Van Erp, Thiru Aravinthan, and Kazem Ghabraie. Journal of Composites for Construction, 2019, 23, 07018001.	3.2	4
151	Attenuation Effect of Material Damping on Impact Vibration Responses of Railway Concrete Sleepers. Sustainable Civil Infrastructures, 2019, , 98-107.	0.2	1
152	DYNAMIC BEHAVIOUR OF RAILWAY BALLAST EXPOSED TO FLOODING CONDITIONS. International Journal of GEOMATE, 2019, 16, .	0.3	2
153	MECHANICAL PROPERTIES OF CONCRETE WITH RECYCLED COMPOSITE AND PLASTIC AGGREGATES. International Journal of GEOMATE, 2019, 17, .	0.3	5
154	The effect of ground borne vibrations from high speed train on overhead line equipment (OHLE) structure considering soil-structure interaction. Science of the Total Environment, 2018, 627, 934-941.	8.0	25
155	Uncertainty Propagation Assessment in Railway-Track Degradation Model Using Bayes Linear Theory. Journal of Transportation Engineering Part A: Systems, 2018, 144, 04018026.	1.4	3
156	Discussion of "Field Test Performance of Noncontact Ultrasonic Rail Inspection System" by Stefano Mariani, Thompson Nguyen, Xuan Zhu, and Francesco Lanza di Scalea. Journal of Transportation Engineering Part A: Systems, 2018, 144, 07018001.	1.4	2
157	Derailment-resistant performance of modular composite rail track slabs. Engineering Structures, 2018, 160, 1-11.	5.3	22
158	Bayesian Network-based probability analysis of train derailments caused by various extreme weather patterns on railway turnouts. Safety Science, 2018, 110, 20-30.	4.9	54
159	Friction and fracture characteristics of engineered crumb-rubber concrete at microscopic lengthscale. Construction and Building Materials, 2018, 175, 735-745.	7.2	27
160	Uncovering Urban Dynamic Mobility Patterns Influenced by the Socio-Technical Impacts of High Speed Rail Investments. , 2018, , .		1
161	Dynamic Responses of Interspersed Railway Tracks to Moving Train Loads. International Journal of Structural Stability and Dynamics, 2018, 18, 1850011.	2.4	29
162	Identification of appropriate risk analysis techniques for railway turnout systems. Journal of Risk Research, 2018, 21, 974-995.	2.6	32

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163	Quantitative monitoring of brittle fatigue crack growth in railway steel using acoustic emission. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1211-1224.	2.0	16
164	Optimisation of schedules for the inspection of railway tracks. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1577-1587.	2.0	10
165	Evaluating the residual life of aged railway bridges. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2018, 171, 153-162.	0.5	1
166	Resilience and Robustness of Composite Steel and Precast Concrete Track Slabs Exposed to Train Derailments. Frontiers in Built Environment, 2018, 4, .	2.3	3
167	Value Added Strategy for Unplanned Rail Track Inspections. Proceedings (mdpi), 2018, 2, .	0.2	0
168	Dynamic Pressure Analysis of Hemispherical Shell Vibrating in Unbounded Compressible Fluid. Applied Sciences (Switzerland), 2018, 8, 1938.	2.5	11
169	3D Numerical Simulations for Response and Performance Prediction of Railway Composite Track Slabs under Derailments. , 2018, , .		0
170	Effect of Extreme Climate on Long-term Performance of Railway Prestressed Concrete Sleepers. Proceedings (mdpi), 2018, 2, .	0.2	0
171	Dynamic Properties Evaluation of Railway Ballast Using Impact Excitation Technique. Proceedings (mdpi), 2018, 2, .	0.2	0
172	Discussion: Prospects in elongation of railway transition curves. Proceedings of the Institution of Civil Engineers: Transport, 2018, , 1-2.	0.6	2
173	Foreword: 2018 International Symposium on Rail Infrastructure Systems Engineering (i-RISE 2018). Proceedings (mdpi), 2018, 2, .	0.2	0
174	A Stochastic Approach for Life-Cycle Cost Analysis of Railway Turnouts Exposed to Climate Uncertainties. Proceedings (mdpi), 2018, 2, .	0.2	2
175	Normalised curvature square ratio for detection of ballast voids and pockets under rail track sleepers. Journal of Physics: Conference Series, 2018, 1106, 012002.	0.4	6
176	Impact Load Response of PC Rail Joint Sleeper under a Passing Train. Journal of Physics: Conference Series, 2018, 1106, 012008.	0.4	3
177	Role of Pre-processing in Textual Data Fusion: Learn From the Croydon Tram Tragedy. Frontiers in Built Environment, 2018, 4, .	2.3	1
178	Vulnerability of Structural Concrete to Extreme Climate Variances. Climate, 2018, 6, 40.	2.8	34
179	A Decision Framework for Managing the Risk of Terrorist Threats at Rail Stations Interconnected with Airports. Safety, 2018, 4, 36.	1.7	9
180	Wireless Sensor Networks: Toward Smarter Railway Stations. Infrastructures, 2018, 3, 24.	2.8	35

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