

Mayorkinos Papaelias

List of Publications by Year in descending order

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79
papers

2,621
citations

257101

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189595

50
g-index

81
all docs

81
docs citations

81
times ranked

2109
citing authors

#	ARTICLE	IF	CITATIONS
1	Condition monitoring of wind turbines: Techniques and methods. <i>Renewable Energy</i> , 2012, 46, 169-178.	4.3	707
2	Wind turbine reliability analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 23, 463-472.	8.2	236
3	A review on non-destructive evaluation of rails: State-of-the-art and future development. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2008, 222, 367-384.	1.3	230
4	Identification of critical components of wind turbines using FTA over the time. <i>Renewable Energy</i> , 2016, 87, 869-883.	4.3	107
5	Inspection and Structural Health Monitoring techniques for Concentrated Solar Power plants. <i>Renewable Energy</i> , 2016, 85, 1178-1191.	4.3	91
6	High-speed inspection of rails using ACFM techniques. <i>NDT and E International</i> , 2009, 42, 328-335.	1.7	85
7	Fault detection and diagnosis within a wind turbine mechanical braking system using condition monitoring. <i>Renewable Energy</i> , 2012, 47, 175-182.	4.3	64
8	Optimal Dynamic Analysis of Electrical/Electronic Components in Wind Turbines. <i>Energies</i> , 2017, 10, 1111.	1.6	58
9	Automated defect classification of Aluminium 5083 TIG welding using HDR camera and neural networks. <i>Journal of Manufacturing Processes</i> , 2019, 45, 603-613.	2.8	54
10	Autonomous underwater vehicles: Instrumentation and measurements. <i>IEEE Instrumentation and Measurement Magazine</i> , 2020, 23, 105-114.	1.2	54
11	Automated defect classification of SS304 TIG welding process using visible spectrum camera and machine learning. <i>NDT and E International</i> , 2019, 107, 102139.	1.7	49
12	Railroad inspection based on ACFM employing a non-uniform B-spline approach. <i>Mechanical Systems and Signal Processing</i> , 2013, 40, 605-617.	4.4	46
13	Onboard detection of railway axle bearing defects using envelope analysis of high frequency acoustic emission signals. <i>Case Studies in Nondestructive Testing and Evaluation</i> , 2016, 6, 8-16.	1.7	46
14	Online condition monitoring of rolling stock wheels and axle bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2016, 230, 709-723.	1.3	38
15	ENDURUNS: An Integrated and Flexible Approach for Seabed Survey Through Autonomous Mobile Vehicles. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 633.	1.2	38
16	Cracks and welds detection approach in solar receiver tubes employing electromagnetic acoustic transducers. <i>Structural Health Monitoring</i> , 2018, 17, 1046-1055.	4.3	36
17	Wet/dry influence on behaviors of closed-cell polymeric cross-linked foams under static, dynamic and impact loads. <i>Construction and Building Materials</i> , 2018, 187, 1092-1102.	3.2	36
18	Wayside detection of faults in railway axle bearings using time spectral kurtosis analysis on high-frequency acoustic emission signals. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667600.	0.8	32

#	ARTICLE	IF	CITATIONS
19	Flexural cracking-induced acoustic emission peak frequency shift in railway prestressed concrete sleepers. <i>Engineering Structures</i> , 2019, 178, 493-505.	2.6	32
20	Structural health monitoring of grouted connections for offshore wind turbines by means of acoustic emission: An experimental study. <i>Renewable Energy</i> , 2020, 147, 130-140.	4.3	32
21	A heuristic method for detecting and locating faults employing electromagnetic acoustic transducers. <i>Eksploatacja I Niezawodnosc</i> , 2017, 19, 493-500.	1.1	29
22	Acoustic emission study of fatigue crack propagation in extruded AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 270-278.	2.6	28
23	An experimental study on the applicability of acoustic emission for wind turbine gearbox health diagnosis. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2016, 35, 64-76.	1.3	28
24	Perspectives on railway axle bearing condition monitoring. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020, 234, 17-31.	1.3	27
25	Structural Health Monitoring Using Fibre Optic Acoustic Emission Sensors. <i>Sensors</i> , 2020, 20, 6369.	2.1	24
26	Measurement of phase transformation in steels using electromagnetic sensors. <i>Ironmaking and Steelmaking</i> , 2002, 29, 469-476.	1.1	23
27	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.	1.3	19
28	Autonomous Underwater Vehicles and Field of View in Underwater Operations. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 277.	1.2	19
29	Measurement and modeling of the electromagnetic response to phase transformation in steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 965-972.	1.1	18
30	Damage Detection in Fiber-Reinforced Foamed Urethane Composite Railway Bearers Using Acoustic Emissions. <i>Infrastructures</i> , 2020, 5, 50.	1.4	18
31	New Insights from Multibody Dynamic Analyses of a Turnout System under Impact Loads. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4080.	1.3	17
32	Detection and evaluation of rail surface defects using alternating current field measurement techniques. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2012, 226, 530-541.	1.3	16
33	Quantitative monitoring of brittle fatigue crack growth in railway steel using acoustic emission. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 1211-1224.	1.3	16
34	Calculus of the defect severity with EMATs by analysing the attenuation curves of the guided waves. <i>Smart Structures and Systems</i> , 2017, 19, 195-202.	1.9	16
35	Generalized Transmissibility Damage Indicator With Application to Wind Turbine Component Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 6347-6359.	5.2	15
36	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, .	1.2	15

#	ARTICLE	IF	CITATIONS
37	Effect of microstructural variations on smart inductive sensor measurements of phase transformation in steel. Scripta Materialia, 2004, 51, 379-383.	2.6	13
38	High-speed inspection of rolling contact fatigue in rails using ACFM sensors. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 366-369.	0.3	13
39	Use of UIoT for Offshore Surveys Through Autonomous Vehicles. Polish Maritime Research, 2021, 28, 175-189.	0.6	13
40	Detection and quantification of rail contact fatigue cracks in rails using ACFM technology. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 364-368.	0.3	11
41	Arbitrary Crack Depth Profiling Through ACFM Data Using Type-2 Fuzzy Logic and PSO Algorithm. IEEE Transactions on Magnetics, 2019, 55, 1-10.	1.2	10
42	Utilisation of Ensemble Empirical Mode Decomposition in Conjunction with Cyclostationary Technique for Wind Turbine Gearbox Fault Detection. Applied Sciences (Switzerland), 2020, 10, 3334.	1.3	10
43	Ultrasonic detection of surface-breaking railhead defects. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 369-373.	0.3	9
44	ULTRASONIC DETECTION OF SURFACE-BREAKING RAILHEAD DEFECTS. AIP Conference Proceedings, 2008, , .	0.3	9
45	Development of autonomous ACFM rail inspection techniques. Insight: Non-Destructive Testing and Condition Monitoring, 2011, 53, 85-89.	0.3	9
46	Further developments in high-speed detection of rail rolling contact fatigue using ACFM techniques. Insight: Non-Destructive Testing and Condition Monitoring, 2010, 52, 358-360.	0.3	8
47	Techno-Economical Advances for Maintenance Management of Concentrated Solar Power Plants. Advances in Intelligent Systems and Computing, 2017, , 967-979.	0.5	8
48	Design by analysis of deep-sea type III pressure vessel. International Journal of Hydrogen Energy, 2021, 46, 10468-10477.	3.8	8
49	A damage mechanics approach for lifetime estimation of wind turbine gearbox materials. International Journal of Fatigue, 2020, 137, 105671.	2.8	8
50	Crossing Phenomena in Overhead Line Equipment (OHLE) Structure in 3D Space Considering Soil-Structure Interaction. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032047.	0.3	7
51	Evaluation of damage mechanics of industrial wind turbine gearboxes. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 410-414.	0.3	7
52	Optimal Management of Marine Inspection with Autonomous Underwater Vehicles. Advances in Intelligent Systems and Computing, 2020, , 760-771.	0.5	6
53	Numerical evaluation of type I pressure vessels for ultra-deep ocean trench exploration. Results in Engineering, 2021, 11, 100267.	2.2	5
54	Life Cycle Assessment in Autonomous Marine Vehicles. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 222-233.	0.5	5

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55	Evaluation of the effect of speed and defect size on high-frequency acoustic emission and vibration condition monitoring of railway axle bearings. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 184-188.	0.3	5
56	Improving the reliability of industrial multi-MW wind turbines. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 189-195.	0.3	5
57	Advances in Machine Condition Monitoring and Fault Diagnosis. Electronics (Switzerland), 2022, 11, 1563.	1.8	5
58	Concentrated Solar Power: Present and Future. , 2018, , 51-61.		4
59	Parameters and Boundary Conditions in Modelling the Track Deterioration in a Railway System. IOP Conference Series: Materials Science and Engineering, 2019, 603, 032084.	0.3	4
60	Artificial Intelligence in Marine Science and Engineering. Journal of Marine Science and Engineering, 2022, 10, 711.	1.2	4
61	A B-spline approach to alternating current field measurement for railroad inspection. , 2008, , .		3
62	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.	0.3	3
63	Wind turbine gearboxes: Failures, surface treatments and condition monitoring. , 2020, , 69-90.		3
64	Train-track interactions over vulnerable railway turnout systems exposed to flooding conditions. Engineering Failure Analysis, 2021, 127, 105459.	1.8	3
65	Modelling of the effect of microstructural variation on inductive sensor measurements of phase transformation in steel. Journal of Physics: Conference Series, 2005, 15, 131-136.	0.3	2
66	Methods and Tools for the Operational Reliability Optimisation of Large-Scale Industrial Wind Turbines. Advances in Intelligent Systems and Computing, 2015, , 1175-1188.	0.5	2
67	A Life-Cycle Cost Analysis of Railway Turnouts Exposed to Climate Uncertainties. IOP Conference Series: Materials Science and Engineering, 2019, 471, 062026.	0.3	2
68	Contact Conditions over Turnout Crossing Noses. IOP Conference Series: Materials Science and Engineering, 2019, 471, 062027.	0.3	2
69	Remotely operated vehicle applications. , 2020, , 119-132.		2
70	Life Cycle Assessment of an Autonomous Underwater Vehicle. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 577-587.	0.5	2
71	Acoustic Emission Monitoring of Brittle Fatigue Crack Growth in Railway Steel. Springer Proceedings in Physics, 2017, , 371-382.	0.1	2
72	Vulnerability of Railway Switches and Crossings Exposed to Flooding Conditions. Lecture Notes in Civil Engineering, 2022, , 337-348.	0.3	2

#	ARTICLE	IF	CITATIONS
73	Introductory Chapter: An Overview to Maintenance Management. , 0, , .		1
74	Damage monitoring of surface treated steel under severe rolling contact loading conditions. Tribology International, 2020, 146, 106257.	3.0	1
75	Condition monitoring of hydraulic power units in industrial wind turbines. International Journal of Condition Monitoring, 2013, 3, 47-52.	0.1	0
76	Introductory Chapter: Introduction to Dependability Engineering. , 0, , .		0
77	Addressing Future Rail Network Performance Challenges Through Effective Structural Health Monitoring. , 2018, , .		0
78	An overview of wind turbine maintenance management. , 2020, , 31-47.		0
79	Optimisation of operational reliability of large-scale industrial wind turbines. , 2015, , 931-935.		0