

Yee Yan Lim

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,693
citations

257450

24
h-index

289244

40
g-index

52
all docs

52
docs citations

52
times ranked

1102
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing orientation of piezoelectric cantilever beam for harvesting energy from human walking. <i>Energy Conversion and Management</i> , 2018, 161, 66-73.	9.2	129
2	Structural identification and damage diagnosis using self-sensing piezo-impedance transducers. <i>Smart Materials and Structures</i> , 2006, 15, 987-995.	3.5	115
3	Improving efficiency of piezoelectric based energy harvesting from human motions using double pendulum system. <i>Energy Conversion and Management</i> , 2019, 184, 559-570.	9.2	103
4	Practical issues related to the application of the electromechanical impedance technique in the structural health monitoring of civil structures: I. Experiment. <i>Smart Materials and Structures</i> , 2008, 17, 035008.	3.5	98
5	Effect of varying axial load under fixed boundary condition on admittance signatures of electromechanical impedance technique. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 815-826.	2.5	79
6	Non-destructive concrete strength evaluation using smart piezoelectric transducer—a comparative study. <i>Smart Materials and Structures</i> , 2016, 25, 085021.	3.5	75
7	Fatigue life estimation of a 1D aluminum beam under mode-I loading using the electromechanical impedance technique. <i>Smart Materials and Structures</i> , 2011, 20, 125001.	3.5	56
8	A novel electromechanical impedance-based model for strength development monitoring of cementitious materials. <i>Structural Health Monitoring</i> , 2018, 17, 902-918.	7.5	54
9	Electro-Mechanical Impedance (EMI)-Based Incipient Crack Monitoring and Critical Crack Identification of Beam Structures. <i>Research in Nondestructive Evaluation</i> , 2014, 25, 82-98.	1.1	51
10	Practical issues related to the application of the electromechanical impedance technique in the structural health monitoring of civil structures: II. Numerical verification. <i>Smart Materials and Structures</i> , 2008, 17, 035009.	3.5	45
11	Monitoring of concrete curing using the electromechanical impedance technique: review and path forward. <i>Structural Health Monitoring</i> , 2021, 20, 604-636.	7.5	45
12	Towards more accurate numerical modeling of impedance based high frequency harmonic vibration. <i>Smart Materials and Structures</i> , 2014, 23, 035017.	3.5	43
13	Modelling autonomous hybrid photovoltaic-wind energy systems under a new reliability approach. <i>Energy Conversion and Management</i> , 2018, 172, 357-369.	9.2	42
14	Influence of Portland cement on performance of fine rice husk ash geopolymer concrete: Strength and permeability properties. <i>Construction and Building Materials</i> , 2021, 300, 124321.	7.2	41
15	Frictional and Wear Behaviour of AlCrN, TiN, TiAlN Single-layer Coatings, and TiAlN/AlCrN, AlN/TiN Nano-multilayer Coatings in Dry Sliding. <i>Procedia Engineering</i> , 2013, 68, 512-517.	1.2	40
16	Performance of rice husk Ash-Based sustainable geopolymer concrete with Ultra-Fine slag and Corn cob ash. <i>Construction and Building Materials</i> , 2021, 279, 122526.	7.2	40
17	Piezoelectric-based monitoring of the curing of structural adhesives: a novel experimental study. <i>Smart Materials and Structures</i> , 2019, 28, 015016.	3.5	39
18	Investigating the performance of “Smart Probe”-based indirect EMI technique for strength development monitoring of cementitious materials “ Modelling and parametric study. <i>Construction and Building Materials</i> , 2018, 172, 134-152.	7.2	36

#	ARTICLE	IF	CITATIONS
19	Practical issues related to the application of piezoelectric based wave propagation technique in monitoring of concrete curing. <i>Construction and Building Materials</i> , 2017, 152, 506-519.	7.2	32
20	Optimization of rectifier circuits for a vibration energy harvesting system using a macro-fiber composite piezoelectric element. <i>Microelectronics Journal</i> , 2016, 54, 109-115.	2.0	31
21	Parametric study and modeling of PZT based wave propagation technique related to practical issues in monitoring of concrete curing. <i>Construction and Building Materials</i> , 2018, 176, 519-530.	7.2	29
22	Performance Enhancement of a Multiresonant Piezoelectric Energy Harvester for Low Frequency Vibrations. <i>Energies</i> , 2019, 12, 2770.	3.1	25
23	Numerical simulation of FRP-strengthened RC slabs anchored with FRP anchors. <i>Construction and Building Materials</i> , 2018, 172, 735-750.	7.2	24
24	Development of analytical and numerical models for predicting the mechanical properties of structural adhesives under curing using the PZT-based wave propagation technique. <i>Mechanical Systems and Signal Processing</i> , 2019, 128, 172-190.	8.0	24
25	An Improved Self-Powered H-Bridge Circuit for Voltage Rectification of Piezoelectric Energy Harvesting System. <i>IEEE Journal of the Electron Devices Society</i> , 2020, 8, 1050-1062.	2.1	24
26	Damage detection and characterization using EMI technique under varying axial load. <i>Smart Structures and Systems</i> , 2013, 11, 349-364.	1.9	24
27	Design of high-temperature atmospheric and pressurised gas-phase solar receivers: A comprehensive review on numerical modelling and performance parameters. <i>Solar Energy</i> , 2020, 201, 701-723.	6.1	23
28	Thermal and Exergetic Analysis of the Goswami Cycle Integrated with Mid-Grade Heat Sources. <i>Entropy</i> , 2017, 19, 416.	2.2	21
29	Strength development monitoring and dynamic modulus assessment of cementitious materials using EMI-Miniature Prism based technique. <i>Structural Health Monitoring</i> , 2020, 19, 373-389.	7.5	21
30	Sustainable alkali activated concrete with fly ash and waste marble aggregates: Strength and Durability studies. <i>Construction and Building Materials</i> , 2021, 283, 122795.	7.2	21
31	A self-tunable wind energy harvester utilising a piezoelectric cantilever beam with bluff body under transverse galloping for field deployment. <i>Energy Conversion and Management</i> , 2021, 245, 114559.	9.2	21
32	Effect of pre-treatment methods of crumb rubber on strength, permeability and acid attack resistance of rubberised geopolymer concrete. <i>Journal of Building Engineering</i> , 2021, 41, 102448.	3.4	20
33	Effect of short cloud shading on the performance of parabolic trough solar power plants: motorized vs manual valves. <i>Renewable Energy</i> , 2019, 142, 330-344.	8.9	15
34	A Single-Stage Rectifier-Less Boost Converter Circuit for Piezoelectric Energy Harvesting Systems. <i>IEEE Transactions on Energy Conversion</i> , 2022, 37, 505-514.	5.2	15
35	Monitoring the curing process of in-situ concrete with piezoelectric-based techniques – A practical application. <i>Structural Health Monitoring</i> , 2023, 22, 518-539.	7.5	14
36	Detection and Characterization of Fatigue Induced Damage Using Electromechanical Impedance Technique. <i>Advanced Materials Research</i> , 2009, 79-82, 2031-2034.	0.3	13

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37	Modelling of the electromechanical impedance technique for prediction of elastic modulus of structural adhesives. <i>Structural Health Monitoring</i> , 2021, 20, 2245-2260.	7.5	13
38	A Parametric Study on Admittance Signatures of a PZT Transducer Under Free Vibration. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 877-884.	2.6	12
39	An Improved Rectifier Circuit for Piezoelectric Energy Harvesting from Human Motion. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2008.	2.5	12
40	Effective utilisation of ultrafine slag to improve mechanical and durability properties of recycled aggregates geopolymers concrete. <i>Cleaner Engineering and Technology</i> , 2021, 5, 100330.	4.0	12
41	Estimation of fatigue life using electromechanical impedance technique. , 2010, , .		11
42	Design and Application of a Self-Powered Dual-Stage Circuit for Piezoelectric Energy Harvesting Systems. <i>IEEE Access</i> , 2021, 9, 86954-86965.	4.2	11
43	Fatigue damage diagnosis and prognosis using electromechanical impedance technique. , 2016, , 429-446.		8
44	A Novel Discontinuous Mode Piezoelectric Energy Harvesting Circuit for Low-Voltage Applications. , 2021, , .		8
45	Effects of crumb rubber inclusion on strength, permeability, and acid attack resistance of alkali-activated concrete incorporating different industrial wastes. <i>Structural Concrete</i> , 2022, 23, 3616-3630.	3.1	8
46	Non-Destructive Concrete Strength Evaluation Using PZT Based Surface Wave Propagation Technique – A Comparative Study. <i>MATEC Web of Conferences</i> , 2016, 47, 02014.	0.2	4
47	Non-Linear Switching Circuit for Active Voltage Rectification and Ripples Reduction of Piezoelectric Energy Harvesters. <i>Energies</i> , 2022, 15, 709.	3.1	4
48	Performance enhancement of rubberised-alkali-activated-concrete utilising ultra-fine slag and fly ash. <i>Cleaner Materials</i> , 2022, 4, 100080.	5.1	4
49	Optimization of surface-mount-device light-emitting diode packaging: investigation of effects of component optical properties on light extraction efficiency. <i>Optical Engineering</i> , 2016, 55, 025101.	1.0	3
50	Sliding wear of electro-carburized mild steel with different microstructures. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2021, 15, 213-228.	1.4	3