

Chee-Kiong Soh

List of Publications by Year in descending order

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75
papers

3,206
citations

147726

31
h-index

155592

55
g-index

79
all docs

79
docs citations

79
times ranked

1715
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring the curing process of in-situ concrete with piezoelectric-based techniques – A practical application. <i>Structural Health Monitoring</i> , 2023, 22, 518-539.	4.3	14
2	Monitoring of concrete curing using the electromechanical impedance technique: review and path forward. <i>Structural Health Monitoring</i> , 2021, 20, 604-636.	4.3	45
3	Enhancing underground development users' health through facilities management: a study of the underground metro system in Hong Kong. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 703, 012043.	0.2	1
4	The importance of air quality for underground spaces: An international survey of public attitudes. <i>Indoor Air</i> , 2021, 31, 2239-2251.	2.0	6
5	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.	4.3	21
6	Prevalence of and factors associated with poor sleep quality and short sleep in a working population in Singapore. <i>Sleep Health</i> , 2020, 6, 277-287.	1.3	26
7	Prevalence of Vitamin D Deficiency and Its Associated Work-Related Factors among Indoor Workers in a Multi-Ethnic Southeast Asian Country. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 164.	1.2	13
8	White- and Blue- collar workers responses towards underground workspaces. <i>Tunnelling and Underground Space Technology</i> , 2020, 105, 103526.	3.0	6
9	Associations of perceived indoor environmental quality with stress in the workplace. <i>Indoor Air</i> , 2020, 30, 1166-1177.	2.0	20
10	Employee experiences in underground workplaces: a qualitative investigation. <i>Ergonomics</i> , 2020, 63, 1337-1349.	1.1	3
11	Association between shift work and poor sleep quality in an Asian multi-ethnic working population: A cross-sectional study. <i>PLoS ONE</i> , 2020, 15, e0229693.	1.1	18
12	Prevalence of psychological distress and its association with perceived indoor environmental quality and workplace factors in under and aboveground workplaces. <i>Building and Environment</i> , 2020, 175, 106799.	3.0	18
13	Transitional areas affect perception of workspaces and employee well-being: A study of underground and above-ground workspaces. <i>Building and Environment</i> , 2020, 179, 106840.	3.0	10
14	Activity Tracker-Based Metrics as Digital Markers of Cardiometabolic Health: Cross-Sectional Study. <i>JMIR MHealth and UHealth</i> , 2020, 8, e16409.	1.8	16
15	Prevalence of sick building syndrome and its association with perceived indoor environmental quality in an Asian multi-ethnic working population. <i>Building and Environment</i> , 2019, 166, 106420.	3.0	34
16	A Multifactorial Approach to Sleep and Its Association with Health-Related Quality of Life in a Multiethnic Asian Working Population: A Cross-Sectional Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4147.	1.2	6
17	Novel non-fiber optical metamaterial waveguide for monitoring canal and pipeline structures. <i>Journal of Civil Structural Health Monitoring</i> , 2019, 9, 369-383.	2.0	0
18	The underground workspaces questionnaire (UWSQ): Investigating public attitudes toward working in underground spaces. <i>Building and Environment</i> , 2019, 153, 28-34.	3.0	16

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19	A Perspective of Non-Fiber-Optical Metamaterial and Piezoelectric Material Sensing in Automated Structural Health Monitoring. <i>Sensors</i> , 2019, 19, 1490.	2.1	5
20	The cubicle deconstructed: Simple visual enclosure improves perseverance. <i>Journal of Environmental Psychology</i> , 2019, 63, 60-73.	2.3	6
21	Risk Factors for Non-Communicable Diseases at Baseline and Their Short-Term Changes in a Workplace Cohort in Singapore. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4551.	1.2	2
22	Examining the Factor Structure of the Pittsburgh Sleep Quality Index in a Multi-Ethnic Working Population in Singapore. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4590.	1.2	10
23	Review of the potential health effects of light and environmental exposures in underground workplaces. <i>Tunnelling and Underground Space Technology</i> , 2019, 84, 201-209.	3.0	36
24	Digging Deep: The Effect of Design on the Social Behavior and Attitudes of People Working in Underground Workplaces in Europe. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 791-802.	0.5	1
25	Assessing the suitability of virtual reality for psychological testing. <i>Psychological Assessment</i> , 2019, 31, 318-328.	1.2	25
26	Health Effects of Underground Workspaces cohort: study design and baseline characteristics. <i>Epidemiology and Health</i> , 2019, 41, e2019025.	0.8	16
27	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.	3.2	36
28	Melatonin and health: an umbrella review of health outcomes and biological mechanisms of action. <i>BMC Medicine</i> , 2018, 16, 18.	2.3	65
29	Application of Metamaterial Surface Plasmon and Waveguide for Robotic-Arm Based Structural Health Monitoring. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	7
30	Working in underground spaces: Architectural parameters, perceptions and thermal comfort measurements. <i>Tunnelling and Underground Space Technology</i> , 2018, 71, 428-439.	3.0	49
31	A novel electromechanical impedance-based model for strength development monitoring of cementitious materials. <i>Structural Health Monitoring</i> , 2018, 17, 902-918.	4.3	54
32	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.	3.2	29
33	Applications of structural health monitoring technology in Asia. <i>Structural Health Monitoring</i> , 2017, 16, 324-346.	4.3	90
34	Load monitoring using a calibrated piezo diaphragm based impedance strain sensor and wireless sensor network in real time. <i>Smart Materials and Structures</i> , 2017, 26, 045036.	1.8	25
35	Evaluation of peak-free electromechanical piezo-impedance and electromagnetic contact sensing using metamaterial surface plasmons for load monitoring. <i>Smart Materials and Structures</i> , 2017, 26, 015003.	1.8	14
36	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.	3.2	32

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37	A Psychosocial Approach to Understanding Underground Spaces. <i>Frontiers in Psychology</i> , 2017, 8, 452.	1.1	27
38	Human-centered Development of Underground work Spaces. <i>Procedia Engineering</i> , 2016, 165, 242-250.	1.2	23
39	Contactless load monitoring in near-field with surface localized spoof plasmons—a new breed of metamaterials for health of engineering structures. <i>Sensors and Actuators A: Physical</i> , 2016, 244, 156-165.	2.0	17
40	Non-destructive concrete strength evaluation using smart piezoelectric transducer—a comparative study. <i>Smart Materials and Structures</i> , 2016, 25, 085021.	1.8	75
41	Social aspects of working in underground spaces. <i>Tunnelling and Underground Space Technology</i> , 2016, 55, 135-145.	3.0	35
42	Psycho-biological factors associated with underground spaces: What can the new era of cognitive neuroscience offer to their study?. <i>Tunnelling and Underground Space Technology</i> , 2016, 55, 118-134.	3.0	58
43	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.	1.5	12
44	Towards more accurate numerical modeling of impedance based high frequency harmonic vibration. <i>Smart Materials and Structures</i> , 2014, 23, 035017.	1.8	43
45	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.	0.5	51
46	Development of a broadband nonlinear two-degree-of-freedom piezoelectric energy harvester. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1875-1889.	1.4	138
47	Monitoring of Fatigue in Welded Beams Using Piezoelectric Wafer Based Impedance Technique. <i>Journal of Nondestructive Evaluation</i> , 2013, 33, 124.	1.1	7
48	Damage detection and characterization using EMI technique under varying axial load. <i>Smart Structures and Systems</i> , 2013, 11, 349-364.	1.9	24
49	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.	1.4	79
50	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.	1.8	56
51	Application of Electromechanical Impedance Technique for Engineering Structures: Review and Future Issues. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 41-59.	1.4	170
52	A Reusable PZT Transducer for Monitoring Initial Hydration and Structural Health of Concrete. <i>Sensors</i> , 2010, 10, 5193-5208.	2.1	97
53	Monitoring damage propagation using PZT impedance transducers. <i>Smart Materials and Structures</i> , 2009, 18, 045003.	1.8	51
54	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.	1.8	98

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55	Three-Dimensional Electromechanical Impedance Model for Multiple Piezoceramic Transducersâ€”Structure Interaction. Journal of Aerospace Engineering, 2008, 21, 35-44.	0.8	49
56	Three-Dimensional Damage Model for Concrete. I: Theory. Journal of Engineering Mechanics - ASCE, 2008, 134, 72-81.	1.6	7
57	Three-Dimensional Damage Model for Concrete. II: Verification. Journal of Engineering Mechanics - ASCE, 2008, 134, 82-89.	1.6	2
58	Three-Dimensional Electromechanical Impedance Model. I: Formulation of Directional Sum Impedance. Journal of Aerospace Engineering, 2007, 20, 53-62.	0.8	70
59	Hybrid Genetic Programming with Local Search Operators for Dynamic Force Identification. Journal of Computing in Civil Engineering, 2007, 21, 311-320.	2.5	3
60	Integrating Evolutionary Programming and Electro-Mechanical Impedance Method for Damage Identification. , 2007, , 756.		0
61	Influence of loading on the electromechanical admittance of piezoceramic transducers. Smart Materials and Structures, 2007, 16, 1888-1897.	1.8	81
62	Shear correction for Mindlin type plate and shell elements. International Journal for Numerical Methods in Engineering, 2007, 69, 2789-2806.	1.5	12
63	An evolutionary programming algorithm for continuous global optimization. European Journal of Operational Research, 2006, 168, 354-369.	3.5	18
64	Integrated Optimization of Control System for Smart Cylindrical Shells Using Modified GA. Journal of Aerospace Engineering, 2006, 19, 68-79.	0.8	13
65	Structural identification and damage diagnosis using self-sensing piezo-impedance transducers. Smart Materials and Structures, 2006, 15, 987-995.	1.8	115
66	Closure to â€œA Displacement Equivalence-Based Damage Model for Brittle Materials, Part I: Theory; Part II: Verificationâ€”(2005, ASME J. Appl. Mech., 72, pp. 306â€”307). Journal of Applied Mechanics, Transactions ASME, 2005, 72, 308-308.	1.1	0
67	Generic Impedance-Based Model for Structure-Piezoceramic Interacting System. Journal of Aerospace Engineering, 2005, 18, 93-101.	0.8	67
68	Calibration of piezo-impedance transducers for strength prediction and damage assessment of concrete. Smart Materials and Structures, 2005, 14, 671-684.	1.8	155
69	Identification Of Dynamic Rock Properties Using A Genetic Algorithm. International Journal of Rock Mechanics and Minings Sciences, 2004, 41, 490-495.	2.6	3
70	Structural Health Monitoring by Piezo-Impedance Transducers. I: Modeling. Journal of Aerospace Engineering, 2004, 17, 154-165.	0.8	273
71	Structural Health Monitoring by Piezoâ€”Impedance Transducers. II: Applications. Journal of Aerospace Engineering, 2004, 17, 166-175.	0.8	130
72	Structural impedance based damage diagnosis by piezo-transducers. Earthquake Engineering and Structural Dynamics, 2003, 32, 1897-1916.	2.5	175

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73	Damage Model Based Reinforced-Concrete Element. Journal of Materials in Civil Engineering, 2003, 15, 371-380.	1.3	17
74	Evolutionary Programming for Inverse Problems in Civil Engineering. Journal of Computing in Civil Engineering, 2001, 15, 144-150.	2.5	10
75	Fuzzy Controlled Genetic Algorithm Search for Shape Optimization. Journal of Computing in Civil Engineering, 1996, 10, 143-150.	2.5	118