

Lun-Maan Chang

List of Publications by Year in descending order

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42
papers

823
citations

516561

16
h-index

501076

28
g-index

42
all docs

42
docs citations

42
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated recognition of surface defects using digital color image processing. Automation in Construction, 2006, 15, 540-549.	4.8	87
2	Automated steel bridge coating rust defect recognition method based on color and texture feature. Automation in Construction, 2013, 31, 338-356.	4.8	77
3	Support-vector-machine-based method for automated steel bridge rust assessment. Automation in Construction, 2012, 23, 9-19.	4.8	76
4	Evaluation of Performance of Bridge Deck Expansion Joints. Journal of Performance of Constructed Facilities, 2002, 16, 3-9.	1.0	60
5	Enhanced xylene removal by photocatalytic oxidation using fiber-illuminated honeycomb reactor at ppb level. Journal of Hazardous Materials, 2013, 262, 717-725.	6.5	54
6	Prediction of Engineering Performance: A Neurofuzzy Approach. Journal of Construction Engineering and Management - ASCE, 2005, 131, 548-557.	2.0	50
7	A framework for an automated and integrated project scheduling and management system. Automation in Construction, 2013, 35, 89-110.	4.8	47
8	Simulation and analytical techniques for construction resource planning and scheduling. Automation in Construction, 2012, 21, 99-113.	4.8	42
9	BOT Financial Model: Taiwan High Speed Rail Case. Journal of Construction Engineering and Management - ASCE, 2001, 127, 214-222.	2.0	38
10	Life-Cycle Cost Analysis using Deterministic and Stochastic Methods: Conflicting Results. Journal of Performance of Constructed Facilities, 2002, 16, 63-74.	1.0	32
11	Automated bridge coating defect recognition using adaptive ellipse approach. Automation in Construction, 2009, 18, 632-643.	4.8	29
12	Critical success factors for PPP infrastructure: perspective from Taiwan. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2017, 40, 370-377.	0.6	25
13	Application of Multiresolution Pattern Classification to Steel Bridge Coating Assessment. Journal of Computing in Civil Engineering, 2002, 16, 244-251.	2.5	19
14	Dynamic Analysis of Construction Safety Risk and Visual Tracking of Key Factors based on Behavior-based Safety and Building Information Modeling. KSCE Journal of Civil Engineering, 2019, 23, 4155-4167.	0.9	18
15	To mitigate airborne molecular contamination through ultra-pure air system. Building and Environment, 2013, 59, 153-163.	3.0	17
16	Life-Cycle Cost Based Maintenance Plan for Steel Bridge Protection Systems. Journal of Performance of Constructed Facilities, 2002, 16, 55-62.	1.0	16
17	Box-and-Ellipse-Based ANFIS for Bridge Coating Assessment. Journal of Computing in Civil Engineering, 2010, 24, 389-398.	2.5	16
18	Intelligent Steel Bridge Coating Assessment Using Neuro-Fuzzy Recognition Approach. Computer-Aided Civil and Infrastructure Engineering, 2002, 17, 307-319.	6.3	15

#	ARTICLE	IF	CITATIONS
19	Human-visual-perception-like intensity recognition for color rust images based on artificial neural network. Automation in Construction, 2018, 90, 178-187.	4.8	15
20	Artificial intelligence application to bridge painting assessment. Automation in Construction, 2003, 12, 431-445.	4.8	14
21	Prediction of Air-Conditioning Energy Consumption in R&D Building Using Multiple Machine Learning Techniques. Energies, 2020, 13, 1847.	1.6	13
22	An adjusted behavior-based safety program with the observation by front-line workers for mitigating construction accident rate. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2020, 43, 37-46.	0.6	8
23	Design and Implementation of Integral Backstepping Sliding Mode Control for Quadrotor Trajectory Tracking. Processes, 2021, 9, 1951.	1.3	8
24	Intelligent Model for Constructed Facilities Surface Assessment. Journal of Construction Engineering and Management - ASCE, 2000, 126, 422-432.	2.0	7
25	Illumination adjustment for bridge coating images using BEMD-Morphology Approach (BMA). Automation in Construction, 2010, 19, 475-484.	4.8	6
26	A review of spectral analysis for low-frequency transient vibrations. Journal of Low Frequency Noise Vibration and Active Control, 2020, , 146134842094200.	1.3	5
27	A Sensor Fusion Based Nonholonomic Wheeled Mobile Robot for Tracking Control. Sensors, 2020, 20, 7055.	2.1	5
28	Physics-Based TCAD Simulation and Calibration of 600 V GaN/AlGaN/GaN Device Characteristics and Analysis of Interface Traps. Micromachines, 2021, 12, 751.	1.4	5
29	Extracting ground motion characteristics of distant earthquakes for mitigating displacement-sensitive equipment. Journal of Low Frequency Noise Vibration and Active Control, 2018, 37, 859-880.	1.3	3
30	Object-Based Learning Method in Engineering. , 2003, , 1.		2
31	Active field canceling system in next generation nano-Fab. , 2011, , .		2
32	Active magnetic field canceling system. , 2013, , .		2
33	Ultra-pure air (UPA) for AMC control in nano-processing environment. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2013, 36, 965-979.	0.6	2
34	A new method for sampling low-volume AMCs in a front opening unified pod. Microelectronic Engineering, 2016, 166, 26-30.	1.1	2
35	A rapid tool for emission outlet concentration simulation of scrubber and make-up air unit at different inlet concentrations. Building Services Engineering Research and Technology, 2017, 38, 461-474.	0.9	2
36	Control of EMI in High-Technology Nano Fab by Exploitation Power Transmission Method with Ideal Permutation. Applied Sciences (Switzerland), 2021, 11, 11984.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Criticality index delay analysis method based on float allocation. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2015, 38, 887-896.	0.6	1
38	Hexamethyldisilazane Removal with Mesoporous Materials Prepared from Calcium Fluoride Sludge. Journal of Nanoscience and Nanotechnology, 2018, 18, 3314-3319.	0.9	1
39	Closure to "Statewide Performance Function for Steel Bridge Protection Systems" by Tarek M. Zayed, Luh-Maan Chang, and Jon D. Fricker. Journal of Performance of Constructed Facilities, 2004, 18, 63-64.	1.0	0
40	A Simple and Rapid Method to Detect Low-Concentration Boron and Phosphorus Contaminants in Cleanrooms. IEEE Transactions on Semiconductor Manufacturing, 2017, 30, 114-118.	1.4	0
41	New model to predict activated carbon filter performance at different inlet concentrations employing filter accelerated test. Science and Technology for the Built Environment, 2018, 24, 83-89.	0.8	0
42	Preparation of iron mesoporous catalysis from hazardous waste for acetone treatment. , 2018, , .		0