Yuan-Sen Yang

List of Publications by Year in Descending Order

24 papers	373 citations	11 h-index	19 g-index
27 ext. papers	427 ext. citations	4.4 avg, IF	3.5 L-index

#	Paper	IF	Citations
24	Automated Crack Detection and Damage Index Calculation for RC Structures Using Image Analysis and Fractal Dimension. *Journal of Structural Engineering*, **2021**, 147, 04021019	3	5
23	Image Analysis Applications for Building Inter-Story Drift Monitoring. *Applied Sciences (Switzerland)*, **2020**, 10, 7304	2.6	1
22	Measurement of Dynamic Responses from Large Structural Tests by Analyzing Non-Synchronized Videos. *Sensors*, **2019**, 19,	3.8	3
21	Damage Indexing Method for Shear Critical Tubular Reinforced Concrete Structures based on Crack Image Analysis. *Sensors*, **2019**, 19,	3.8	4
20	Image analysis method for crack distribution and width estimation for reinforced concrete structures. *Automation in Construction*, **2018**, 91, 120-132	9.6	32
19	Vibration-based system identification of wind turbine system. *Structural Control and Health Monitoring*, **2017**, 24, e1876	4.5	16
18	Carbon nanotube thin film strain sensor models assembled using nano- and micro-scale imaging. *Computational Mechanics*, **2017**, 60, 39-49	4	10
17	Direct-Iterative Hybrid Solution in Nonlinear Dynamic Structural Analysis. *Computer-Aided Civil and Infrastructure Engineering*, **2017**, 32, 397-411	8.4	5
16	Thin crack observation in a reinforced concrete bridge pier test using image processing and analysis. *Advances in Engineering Software*, **2015**, 83, 99-108	3.6	34
15	Vibration-based identification of rotating blades using Rodriguesdrotation formula from a 3-D measurement. *Wind and Structures, an International Journal*, **2015**, 21, 677-691		1
14	GPU parallelization of an object-oriented nonlinear dynamic structural analysis platform. *Simulation Modelling Practice and Theory*, **2014**, 40, 112-121	3.9	10
13	Feature extraction using bionic particle swarm tracing for transfer function design in direct volume rendering. *Visual Computer*, **2014**, 30, 33-44	2.3	2
12	A simple image-based strain measurement method for measuring the strain fields in an RC-wall experiment. *Earthquake Engineering and Structural Dynamics*, **2012**, 41, 1-17	4	21
11	An online optimization method for bridge dynamic hybrid simulations. *Simulation Modelling Practice and Theory*, **2012**, 28, 42-54	3.9	27
10	Visualizing the Seismic Spectral Response of the 1999 Chi-Chi Earthquake Using Volume Rendering Technique. *Journal of Computing in Civil Engineering*, **2012**, 26, 225-235	5	5
9	Improving Parallel Substructuring Efficiency by Using a Multilevel Approach. *Journal of Computing in Civil Engineering*, **2012**, 26, 457-464	5	11
8	A family of explicit algorithms for general pseudodynamic testing. *Earthquake Engineering and Engineering Vibration*, **2011**, 10, 51-64	2	20

7	Out-of-plane shaking table tests on unreinforced masonry panels in RC frames. *Engineering Structures*, **2010**, 32, 3925-3935	4.7	60
6	Collapse of a nonductile concrete frame: Shaking table tests. *Earthquake Engineering and Structural Dynamics*, **2009**, 38, 205-224	4	30
5	Real-time structural damage detection using wireless sensing and monitoring system. *Smart Structures and Systems*, **2008**, 4, 759-777		30
4	ISEE: Internet-based Simulation for Earthquake Engineering–Part II: The application protocol approach. *Earthquake Engineering and Structural Dynamics*, **2007**, 36, 2307-2323	4	18
3	ISEE: Internet-based Simulation for Earthquake Engineering–Part I: Database approach. *Earthquake Engineering and Structural Dynamics*, **2007**, 36, 2291-2306	4	19
2	Integration of General Sparse Matrix and Parallel Computing Technologies for Large-Scale Structural Analysis. *Computer-Aided Civil and Infrastructure Engineering*, **2002**, 17, 423-438	8.4	6
1	Iterative mesh partitioning strategy for improving the efficiency of parallel substructure finite element computations. *Structural Engineering and Mechanics*, **2002**, 14, 57-70		2