Yunchao Tang

List of Publications by Year
in descending order

47 papers	2,589 citations	172457 29 h-index	265206 42 g-index
47 all docs	47 docs citations	47 times ranked	1277 citing authors

#	Article	IF	Citations
1	Study on crack width and crack resistance of eccentrically tensioned steel-reinforced concrete members prestressed by CFRP tendons. Engineering Structures, 2022, 252, 113651.	5.3	11
2	Prediction of thermo-mechanical properties of rubber-modified recycled aggregate concrete. Construction and Building Materials, 2022, 318, 125970.	7.2	77
3	Partially fly ash and nano-silica incorporated recycled coarse aggregate based concrete: Constitutive model and enhancement mechanism. Journal of Materials Research and Technology, 2022, 17, 192-210.	5.8	24
4	Mode â... dynamic fracture toughness of rubberised concrete using a drop hammer device and split Hopkinson pressure bar. Journal of Building Engineering, 2022, 48, 103995.	3.4	14
5	Seismic performance evaluation of recycled aggregate concrete-filled steel tubular columns with field strain detected via a novel mark-free vision method. Structures, 2022, 37, 426-441.	3.6	78
6	A multi-objective optimisation approach for activity excitation of waste glass mortar. Journal of Materials Research and Technology, 2022, 17, 2280-2304.	5.8	29
7	Study of Shrinkage Compensation and Feasibility of Engineering Applications of Geopolymer Concrete. Journal of Materials in Civil Engineering, 2022, 34, .	2.9	4
8	Structural effects and real strain-rate effects on compressive strength of sustainable concrete with crumb rubber in split Hopkinson pressure bar tests. Archives of Civil and Mechanical Engineering, 2022, 22, .	3.8	13
9	A Study on Long-Close Distance Coordination Control Strategy for Litchi Picking. Agronomy, 2022, 12, 1520.	3.0	34
10	Compressive properties of rubber-modified recycled aggregate concrete subjected to elevated temperatures. Construction and Building Materials, 2021, 268, 121181.	7.2	53
11	Combined effects of nano-silica and silica fume on the mechanical behavior of recycled aggregate concrete. Nanotechnology Reviews, 2021, 10, 819-838.	5.8	66
12	YOLOv3-Litchi Detection Method of Densely Distributed Litchi in Large Vision Scenes. Mathematical Problems in Engineering, 2021, 2021, 1-11.	1.1	23
13	Experimental and Theoretical Investigation on the Thermo-Mechanical Properties of Recycled Aggregate Concrete Containing Recycled Rubber. Frontiers in Materials, 2021, 8, .	2.4	9
14	Three-dimensional reconstruction of guava fruits and branches using instance segmentation and geometry analysis. Computers and Electronics in Agriculture, 2021, 184, 106107.	7.7	46
15	3D global mapping of large-scale unstructured orchard integrating eye-in-hand stereo vision and SLAM. Computers and Electronics in Agriculture, 2021, 187, 106237.	7.7	91
16	Shrinkage compensation design and mechanism of geopolymer pastes. Construction and Building Materials, 2021, 299, 123916.	7.2	12
17	Collision-free path planning for a guava-harvesting robot based on recurrent deep reinforcement learning. Computers and Electronics in Agriculture, 2021, 188, 106350.	7.7	74
18	Fracture behavior of a sustainable material: Recycled concrete with waste crumb rubber subjected to elevated temperatures. Journal of Cleaner Production, 2021, 318, 128553.	9.3	84

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19	Grape Berry Detection and Size Measurement Based on Edge Image Processing and Geometric Morphology. Machines, 2021, 9, 233.	2.2	24
20	A Comprehensive Flexural Analysis for Sustainable Concrete Structure Reinforced by Embedded Parts. Advances in Civil Engineering, 2021, 2021, 1-10.	0.7	1
21	Color-, depth-, and shape-based 3D fruit detection. Precision Agriculture, 2020, 21, 1-17.	6.0	99
22	Fruit detection in natural environment using partial shape matching and probabilistic Hough transform. Precision Agriculture, 2020, 21, 160-177.	6.0	92
23	Vision-Based Three-Dimensional Reconstruction and Monitoring of Large-Scale Steel Tubular Structures. Advances in Civil Engineering, 2020, 2020, 1-17.	0.7	29
24	Three-dimensional perception of orchard banana central stock enhanced by adaptive multi-vision technology. Computers and Electronics in Agriculture, 2020, 174, 105508.	7.7	77
25	Detection of Fruit-Bearing Branches and Localization of Litchi Clusters for Vision-Based Harvesting Robots. IEEE Access, 2020, 8, 117746-117758.	4.2	89
26	Axial compression behavior of recycled-aggregate-concrete-filled GFRP–steel composite tube columns. Engineering Structures, 2020, 216, 110676.	5.3	73
27	Recognition and Localization Methods for Vision-Based Fruit Picking Robots: A Review. Frontiers in Plant Science, 2020, 11, 510.	3.6	294
28	Real-time detection of asymmetric surface deformation and field stress in concrete-filled circular steel tubes via multi-vision method. Lecture Notes in Civil Engineering, 2020, , 1173-1178.	0.4	0
29	Three-Dimensional Reconstruction and Monitoring of Large-Scale Structures via Real-Time Multi-vision System. Communications in Computer and Information Science, 2020, , 442-457.	0.5	1
30	In-field citrus detection and localisation based on RGB-D image analysis. Biosystems Engineering, 2019, 186, 34-44.	4.3	61
31	Window Zooming–Based Localization Algorithm of Fruit and Vegetable for Harvesting Robot. IEEE Access, 2019, 7, 103639-103649.	4.2	29
32	Guava Detection and Pose Estimation Using a Low-Cost RGB-D Sensor in the Field. Sensors, 2019, 19, 428.	3.8	98
33	High-accuracy multi-camera reconstruction enhanced by adaptive point cloud correction algorithm. Optics and Lasers in Engineering, 2019, 122, 170-183.	3.8	111
34	Real-time detection of surface deformation and strain in recycled aggregate concrete-filled steel tubular columns via four-ocular vision. Robotics and Computer-Integrated Manufacturing, 2019, 59, 36-46.	9.9	135
35	Poisson Surface Reconstruction Algorithm Based on Improved Normal Orientation. Laser and Optoelectronics Progress, 2019, 56, 141005.	0.6	0
36	A vision methodology for harvesting robot to detect cutting points on peduncles of double overlapping grape clusters in a vineyard. Computers in Industry, 2018, 99, 130-139.	9.9	93

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37	Study of seismic behavior of recycled aggregate concrete-filled steel tubular columns. Journal of Constructional Steel Research, 2018, 148, 1-15.	3.9	57
38	Binocular vision measurement and its application in full-field convex deformation of concrete-filled steel tubular columns. Measurement: Journal of the International Measurement Confederation, 2018, 130, 372-383.	5.0	54
39	Multi-Shaped Targets Recognition and Point Clouds Acquisition Algorithm in Complex Environment. Laser and Optoelectronics Progress, 2018, 55, 111505.	0.6	0
40	Point Cloud Registration Algorithm Combined Gaussian Mixture Model and Point-to-Plane Metric. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2018, 30, 642.	0.2	2
41	Seismic performance of recycled aggregate concrete–filled steel tube columns. Journal of Constructional Steel Research, 2017, 133, 112-124.	3.9	69
42	A robust fruit image segmentation algorithm against varying illumination for vision system of fruit harvesting robot. Optik, 2017, 131, 626-631.	2.9	66
43	Recognition and Matching of Clustered Mature Litchi Fruits Using Binocular Charge-Coupled Device (CCD) Color Cameras. Sensors, 2017, 17, 2564.	3.8	40
44	Robust Grape Cluster Detection in a Vineyard by Combining the AdaBoost Framework and Multiple Color Components. Sensors, 2016, 16, 2098.	3.8	70
45	Localisation of litchi in an unstructured environment using binocular stereo vision. Biosystems Engineering, 2016, 145, 39-51.	4.3	91
46	Vision-based extraction of spatial information in grape clusters for harvesting robots. Biosystems Engineering, 2016, 151, 90-104.	4.3	85
47	Grand Challenges of Machine-Vision Technology in Civil Structural Health Monitoring. Artificial Intelligence Evolution, 0, , 8-16.	0.0	7