Mengchao

List of Publications by Year
in descending order

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78	1,302	331259 21	414034 32
papers	citations	h-index	g-index

78	78	78	906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2621-2629.	3.7	77
2	An adaptive tuned vibration absorber based on multilayered MR elastomers. Smart Materials and Structures, 2015, 24, 045045.	1.8	64
3	Quantized phase coding and connected region labeling for absolute phase retrieval. Optics Express, 2016, 24, 28613.	1.7	56
4	Investigation on the mechanism of damping behavior of magnetorheological elastomers. Smart Materials and Structures, 2012, 21, 125015.	1.8	54
5	Development of a novel variable stiffness and damping magnetorheological fluid damper. Smart Materials and Structures, 2015, 24, 085021.	1.8	53
6	Magnetorheological Damper Working in Squeeze Mode. Advances in Mechanical Engineering, 2014, 6, 410158.	0.8	44
7	Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. Journal of Intelligent Material Systems and Structures, 2015, 26, 1757-1763.	1.4	40
8	An effective method for camera calibration in defocus scene with circular gratings. Optics and Lasers in Engineering, 2019, 114, 44-49.	2.0	40
9	Fourier single-pixel imaging using fewer illumination patterns. Applied Physics Letters, 2019, 114, .	1.5	37
10	Poly-stable energy harvesting based on synergetic multistable vibration. Communications Physics, 2019, 2, .	2.0	37
11	A Robust and Rapid Camera Calibration Method by One Captured Image. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4112-4121.	2.4	37
12	A multimodal and multidirectional vibrational energy harvester using a double-branched beam. Applied Physics Letters, 2018, 112, .	1.5	36
13	Development of an artificial compound eye system for three-dimensional object detection. Applied Optics, 2014, 53, 1166.	0.9	34
14	Accurate feature detection for out-of-focus camera calibration. Applied Optics, 2016, 55, 7964.	2.1	34
15	Multi-camera calibration method based on a multi-plane stereo target. Applied Optics, 2019, 58, 9353.	0.9	29
16	3D Printing Ultraflexible Magnetic Actuators via Screw Extrusion Method. Advanced Science, 2022, 9, e2200898.	5.6	27
17	Black-Box Phase Error Compensation for Digital Phase-Shifting Profilometry. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2755-2761.	2.4	26
18	Design and verification of a seat suspension with variable stiffness and damping. Smart Materials and Structures, 2019, 28, 065015.	1.8	26

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19	Bistable broadband hybrid generator for ultralow-frequency rectilinear motion. Nano Energy, 2019, 65, 103973.	8.2	25
20	Color-coding and phase-shift method for absolute phase measurement. Optics Communications, 2013, 298-299, 54-58.	1.0	23
21	A high-speed D-CART online fault diagnosis algorithm for rotor systems. Applied Intelligence, 2020, 50, 29-41.	3.3	23
22	Target orientation detection based on a neural network with a bionic bee-like compound eye. Optics Express, 2020, 28, 10794.	1.7	23
23	High-Performance Liquid Metal/Polyborosiloxane Elastomer toward Thermally Conductive Applications. ACS Applied Materials & Interfaces, 2022, 14, 21564-21576.	4.0	23
24	A seesaw-type approach for enhancing nonlinear energy harvesting. Applied Physics Letters, 2018, 112, .	1.5	20
25	Super-resolution and super-robust single-pixel superposition compound eye. Optics and Lasers in Engineering, 2021, 146, 106699.	2.0	20
26	Camera Calibration Robust to Defocus Using Phase-Shifting Patterns. Sensors, 2017, 17, 2361.	2.1	18
27	Measurement of Unmanned Aerial Vehicle Attitude Angles Based on a Single Captured Image. Sensors, 2018, 18, 2655.	2.1	18
28	Variable stiffness mechanisms of dual parameters changing magnetorheological fluid devices. Smart Materials and Structures, 2017, 26, 125014.	1.8	16
29	Modified Gray-Level Coding Method for Absolute Phase Retrieval. Sensors, 2017, 17, 2383.	2.1	16
30	High-speed and high-accuracy fringe projection profilometry without phase unwrapping. Optics and Lasers in Engineering, 2021, 140, 106518.	2.0	16
31	Variable stiffness and damping suspension system for train. Proceedings of SPIE, 2014, , .	0.8	15
32	Catadioptric planar compound eye with large field of view. Optics Express, 2018, 26, 12455.	1.7	15
33	A morphology phase unwrapping method with one code grating. Review of Scientific Instruments, 2018, 89, 073112.	0.6	15
34	Removing light interference to improve character recognition rate by using single-pixel imaging. Optics and Lasers in Engineering, 2021, 140, 106517.	2.0	15
35	Camera calibration by using fringe patterns and 2D phase-difference pulse detection. Optik, 2014, 125, 671-674.	1.4	14
36	Self-sensing automotive magnetorheological dampers for low frequency vibration. Smart Materials and Structures, 2021, 30, 115015.	1.8	13

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37	A simple and practical jump error removal method for fringe projection profilometry based on self-alignment technique. Review of Scientific Instruments, 2018, 89, 123109.	0.6	12
38	Three-Dimensional Identification for Unbalanced Mass of Rotor Systems in Operation. Applied Sciences (Switzerland), 2018, 8, 173.	1.3	12
39	A Compact and Flexible Nonbeam-Type Vibrational Energy Harvesting Device With Bistable Characteristics. IEEE/ASME Transactions on Mechatronics, 2019, 24, 282-292.	3.7	11
40	A method for correcting non-linear geometric distortion in ultra-wide-angle imaging system. Optik, 2013, 124, 7014-7021.	1.4	10
41	Vision measurement error analysis for nonlinear light refraction at high temperature. Applied Optics, 2018, 57, 5556.	0.9	10
42	Modal learning displacementâ€“strain transformation. Review of Scientific Instruments, 2019, 90, 075113.	0.6	10
43	Nuisance alarm rate reduction using pulse-width multiplexing<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e620" altimg="si8.svg"><mml:mi mathvariant="normal">Î¦</mml:mi></mml:math>-OTDR with optimized positioning accuracy. Optics Communications, 2020, 456, 124571.	1.0	10
44	Transmissive Single-Pixel Microscopic Imaging through Scattering Media. Sensors, 2021, 21, 2721.	2.1	10
45	High-accuracy three-dimensional reconstruction of vibration based on stereo vision. Optical Engineering, 2016, 55, 091410.	0.5	9
46	Performance enhancement of phase-demodulation <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e144" altimg="si104.svg"><mml:mi>Î•</mml:mi></mml:math>-OTDR using improved two-path DCM algorithm. Optics Communications, 2021, 482, 126616.	1.0	9
47	Dynamic Visual Measurement of Driver Eye Movements. Sensors, 2019, 19, 2217.	2.1	8
48	Single-pixel imaging in the presence of specular reflections. Applied Optics, 2021, 60, 2633.	0.9	8
49	Development of a non-piston MR suspension rod for variable mass systems. Smart Materials and Structures, 2018, 27, 065014.	1.8	7
50	Direction-determined phase unwrapping using geometric constraint of the structured light system: The establishment of minimum phase map. Optics Communications, 2017, 402, 14-19.	1.0	7
51	Development of precision measurement network of experimental advanced superconducting tokamak. Optical Engineering, 2014, 53, 122406.	0.5	6
52	Self-updating inverse model for magnetorheological dampers. Smart Materials and Structures, 2019, 28, 115033.	1.8	6
53	An in-situ self-calibration method for non-contact full-field strain measurement. Measurement: Journal of the International Measurement Confederation, 2020, 162, 107871.	2.5	6
54	A Novel MR Device with Variable Stiffness and Damping Capability. International Journal of Aerospace and Lightweight Structures (IJALS), 2013, 3, 325.	0.1	6

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55	3D information detection with novel five composite fringe patterns. Modern Physics Letters B, 2017, 31, 1740088.	1.0	5
56	Interface modeling of magnetorheological elastomers subjected to variable working strain. Soft Matter, 2019, 15, 5574-5584.	1.2	5
57	Magnetic Actuator with Programmable Force Distribution and Selfâ€Sensing for Bidirectional Deformation Control. Advanced Materials Technologies, 2022, 7, .	3.0	5
58	Self-adapting model for variable stiffness magnetorheological dampers. Smart Materials and Structures, 2022, 31, 025006.	1.8	5
59	Bio-Inspired Bianisotropic Magneto-Sensitive Elastomers with Excellent Multimodal Transformation. ACS Applied Materials & Interfaces, 2022, 14, 20101-20112.	4.0	5
60	Pulse-Width Multiplexing Ï•-OTDR for Nuisance-Alarm Rate Reduction. Sensors, 2018, 18, 3509.	2.1	4
61	Single-pixel imaging of high-temperature objects. Applied Optics, 2021, 60, 4095.	0.9	4
62	High-efficiency single-pixel imaging using discrete Hartley transform. AIP Advances, 2021, 11, .	0.6	4
63	Displacementâ€“strain transformation for a variable cross-section beam based on hypergeometric and Meijer-G functions. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110246.	2.5	4
64	A single pixel tracking system for microfluidic device monitoring without image processing. Optics and Lasers in Engineering, 2022, 151, 106875.	2.0	4
65	A self-adaptive method for the assessment of dynamic measurement uncertainty. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111116.	2.5	4
66	An Initial Dot Encoding Scheme with Significantly Improved Robustness and Numbers. Applied Sciences (Switzerland), 2019, 9, 4915.	1.3	3
67	Improvement on object detection accuracy by using two compound eye systems. , 2014, , .		2
68	3D reconstruction for sinusoidal motion based on different feature detection algorithms. , 2015, , .		2
69	A Novel phi-OTDR System With a Phase Demodulation Module Based on Sagnac Balanced Interferometer. Journal of Lightwave Technology, 2021, 39, 7307-7314.	2.7	2
70	Single-pixel panoramic inspection of objects with the assistance of planar mirrors. Optics and Lasers in Engineering, 2022, 150, 106839.	2.0	2
71	Design of a compound eye system with planar micolens array and curved folded mirrors. Proceedings of SPIE, 2016, , .	0.8	1
72	Reflection removal detection enabled by single-pixel imaging through the semi-reflective medium. Applied Optics, 2021, 60, 8688.	0.9	1

#	ARTICLE	IF	CITATIONS
73	An annularly-distributed poly-stable array for broadband vibrational energy. Sensors and Actuators A: Physical, 2021, 332, 113106.	2.0	1
74	Tunable double nonlinear design in the energy harvester to enhance energy harvesting. European Physical Journal Plus, 2021, 136, 1.	1.2	1
75	Design and optical characterization of compound eye type solar concentrator. Results in Optics, 2022, 6, 100202.	0.9	1
76	Energy conversion mechanisms of a seesaw-type energy harvester. Journal Physics D: Applied Physics, 2022, 55, 255002.	1.3	1
77	Progress of Instantaneity in Real-Time ROBOCUP Vision System. , 2009, , .		0
78	10.1063/1.5035348.1. , 2018, , .		0