

Huaxia Deng

List of Publications by Year in descending order

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papers

2,531
citations

257450

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214800

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all docs

98
docs citations

98
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Displacement-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.	5.0	4
2	Single-pixel panoramic inspection of objects with the assistance of planar mirrors. Optics and Lasers in Engineering, 2022, 150, 106839.	3.8	2
3	A single pixel tracking system for microfluidic device monitoring without image processing. Optics and Lasers in Engineering, 2022, 151, 106875.	3.8	4
4	Mechanical properties of magneto-sensitive shear thickening fluid absorber and application potential in a vehicle. Composites Part A: Applied Science and Manufacturing, 2022, 154, 106782.	7.6	16
5	Design and optical characterization of compound eye type solar concentrator. Results in Optics, 2022, 6, 100202.	2.0	1
6	Energy conversion mechanisms of a seesaw-type energy harvester. Journal Physics D: Applied Physics, 2022, 55, 255002.	2.8	1
7	A self-adaptive method for the assessment of dynamic measurement uncertainty. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111116.	5.0	4
8	Self-adapting model for variable stiffness magnetorheological dampers. Smart Materials and Structures, 2022, 31, 025006.	3.5	5
9	Performance enhancement of phase-demodulation $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e144" altimg="si104.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -OTDR using improved two-path DCM algorithm. Optics Communications, 2021, 482, 126616.	2.1	9
10	Single-pixel imaging in the presence of specular reflections. Applied Optics, 2021, 60, 2633.	1.8	8
11	Transmissive Single-Pixel Microscopic Imaging through Scattering Media. Sensors, 2021, 21, 2721.	3.8	10
12	Single-pixel imaging of high-temperature objects. Applied Optics, 2021, 60, 4095.	1.8	4
13	High-speed and high-accuracy fringe projection profilometry without phase unwrapping. Optics and Lasers in Engineering, 2021, 140, 106518.	3.8	16
14	Removing light interference to improve character recognition rate by using single-pixel imaging. Optics and Lasers in Engineering, 2021, 140, 106517.	3.8	15
15	A Liquid-Metal-Based Freestanding Triboelectric Generator for Low-Frequency and Multidirectional Vibration. Frontiers in Materials, 2021, 8, .	2.4	4
16	High-efficiency single-pixel imaging using discrete Hartley transform. AIP Advances, 2021, 11, .	1.3	4
17	Reflection removal detection enabled by single-pixel imaging through the semi-reflective medium. Applied Optics, 2021, 60, 8688.	1.8	1
18	Super-resolution and super-robust single-pixel superposition compound eye. Optics and Lasers in Engineering, 2021, 146, 106699.	3.8	20

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19	An annularly-distributed poly-stable array for broadband vibrational energy. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113106.	4.1	1
20	A Novel ϕ -OTDR System With a Phase Demodulation Module Based on Sagnac Balanced Interferometer. <i>Journal of Lightwave Technology</i> , 2021, 39, 7307-7314.	4.6	2
21	Self-sensing automotive magnetorheological dampers for low frequency vibration. <i>Smart Materials and Structures</i> , 2021, 30, 115015.	3.5	13
22	Tunable double nonlinear design in the energy harvester to enhance energy harvesting. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	1
23	A high-speed D-CART online fault diagnosis algorithm for rotor systems. <i>Applied Intelligence</i> , 2020, 50, 29-41.	5.3	23
24	Nuisance alarm rate reduction using pulse-width multiplexing $\hat{\rho}$ -OTDR with optimized positioning accuracy. <i>Optics Communications</i> , 2020, 456, 124571.	2.1	10
25	An in-situ self-calibration method for non-contact full-field strain measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 162, 107871.	5.0	6
26	A multidistance constraint method for three-dimensional reconstruction with coaxial fringe projection measurement system. <i>Optics and Lasers in Engineering</i> , 2020, 132, 106103.	3.8	10
27	Target orientation detection based on a neural network with a bionic bee-like compound eye. <i>Optics Express</i> , 2020, 28, 10794.	3.4	23
28	Modal learning displacement-strain transformation. <i>Review of Scientific Instruments</i> , 2019, 90, 075113.	1.3	10
29	Bistable broadband hybrid generator for ultralow-frequency rectilinear motion. <i>Nano Energy</i> , 2019, 65, 103973.	16.0	25
30	A Compact and Flexible Nonbeam-Type Vibrational Energy Harvesting Device With Bistable Characteristics. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 282-292.	5.8	11
31	Dynamic Visual Measurement of Driver Eye Movements. <i>Sensors</i> , 2019, 19, 2217.	3.8	8
32	Interface modeling of magnetorheological elastomers subjected to variable working strain. <i>Soft Matter</i> , 2019, 15, 5574-5584.	2.7	5
33	Fourier single-pixel imaging using fewer illumination patterns. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	37
34	Design and verification of a seat suspension with variable stiffness and damping. <i>Smart Materials and Structures</i> , 2019, 28, 065015.	3.5	26
35	Poly-stable energy harvesting based on synergetic multistable vibration. <i>Communications Physics</i> , 2019, 2, .	5.3	37
36	Self-updating inverse model for magnetorheological dampers. <i>Smart Materials and Structures</i> , 2019, 28, 115033.	3.5	6

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37	An Initial Dot Encoding Scheme with Significantly Improved Robustness and Numbers. Applied Sciences (Switzerland), 2019, 9, 4915.	2.5	3
38	A stereovision measurement for large deformation of light structures. Measurement: Journal of the International Measurement Confederation, 2019, 136, 387-394.	5.0	19
39	A Robust and Rapid Camera Calibration Method by One Captured Image. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4112-4121.	4.7	37
40	Multi-camera calibration method based on a multi-plane stereo target. Applied Optics, 2019, 58, 9353.	1.8	29
41	Development of a non-piston MR suspension rod for variable mass systems. Smart Materials and Structures, 2018, 27, 065014.	3.5	7
42	Pulse-Width Multiplexing \ddot{i} -OTDR for Nuisance-Alarm Rate Reduction. Sensors, 2018, 18, 3509.	3.8	4
43	A simple and practical jump error removal method for fringe projection profilometry based on self-alignment technique. Review of Scientific Instruments, 2018, 89, 123109.	1.3	12
44	Measurement of Unmanned Aerial Vehicle Attitude Angles Based on a Single Captured Image. Sensors, 2018, 18, 2655.	3.8	18
45	A multimodal and multidirectional vibrational energy harvester using a double-branched beam. Applied Physics Letters, 2018, 112, .	3.3	36
46	A seesaw-type approach for enhancing nonlinear energy harvesting. Applied Physics Letters, 2018, 112, .	3.3	20
47	Catadioptric planar compound eye with large field of view. Optics Express, 2018, 26, 12455.	3.4	15
48	Vision measurement error analysis for nonlinear light refraction at high temperature. Applied Optics, 2018, 57, 5556.	1.8	10
49	Three-Dimensional Identification for Unbalanced Mass of Rotor Systems in Operation. Applied Sciences (Switzerland), 2018, 8, 173.	2.5	12
50	A morphology phase unwrapping method with one code grating. Review of Scientific Instruments, 2018, 89, 073112.	1.3	15
51	Analysis of calibration accuracy of cameras with different target sizes for large field of view. , 2018, , .		0
52	10.1063/1.5035348.1., 2018, , .		0
53	3D information detection with novel five composite fringe patterns. Modern Physics Letters B, 2017, 31, 1740088.	1.9	5
54	Variable stiffness mechanisms of dual parameters changing magnetorheological fluid devices. Smart Materials and Structures, 2017, 26, 125014.	3.5	16

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55	Black-Box Phase Error Compensation for Digital Phase-Shifting Profilometry. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2755-2761.	4.7	26
56	Direction-determined phase unwrapping using geometric constraint of the structured light system: The establishment of minimum phase map. Optics Communications, 2017, 402, 14-19.	2.1	7
57	Design of a compound eye system with planar microlens array and curved folded mirrors. Proceedings of SPIE, 2016, , .	0.8	1
58	An innovative MRE absorber with double natural frequencies for wide frequency bandwidth vibration absorption. Smart Materials and Structures, 2016, 25, 055035.	3.5	19
59	High-accuracy three-dimensional reconstruction of vibration based on stereo vision. Optical Engineering, 2016, 55, 091410.	1.0	9
60	Studies of different error elimination algorithms under defocusing digital fringe projection. , 2016, , .		0
61	The precision study of mark position after binarization for dynamic tests. Proceedings of SPIE, 2016, , .	0.8	0
62	The design of an energy harvesting device for prolonging the working time of DC equipment. , 2016, , .		0
63	A calibration technology for multi-camera system with various focal lengths. , 2016, , .		1
64	Multi-cameras calibration from spherical targets. Proceedings of SPIE, 2016, , .	0.8	2
65	3D reconstruction for sinusoidal motion based on different feature detection algorithms. , 2015, , .		2
66	Vibration studies of simply supported beam based on binocular stereo vision. Proceedings of SPIE, 2015, , .	0.8	3
67	Thermal design and analysis of high power star sensors. Case Studies in Thermal Engineering, 2015, 6, 52-60.	5.7	3
68	The propagation of manufacture uncertainty to dynamic measurement. Proceedings of SPIE, 2015, , .	0.8	0
69	Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. International Journal of Vehicle Design, 2015, 68, 104.	0.3	51
70	Development of a novel variable stiffness and damping magnetorheological fluid damper. Smart Materials and Structures, 2015, 24, 085021.	3.5	53
71	An adaptive tuned vibration absorber based on multilayered MR elastomers. Smart Materials and Structures, 2015, 24, 045045.	3.5	64
72	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.	2.5	40

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73	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2621-2629.	5.8	77
74	Development of an MRE adaptive tuned vibration absorber with self-sensing capability. Smart Materials and Structures, 2015, 24, 095012.	3.5	23
75	Development of precision measurement network of experimental advanced superconducting tokamak. Optical Engineering, 2014, 53, 122406.	1.0	6
76	Characteristic verification and parameter optimization of airbags cushion system for airborne vehicle. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 50-57.	3.7	6
77	Modelling and identifying the parameters of a magneto-rheological damper with a force-lag phenomenon. Applied Mathematical Modelling, 2014, 38, 3763-3773.	4.2	48
78	A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. Smart Materials and Structures, 2014, 23, 105023.	3.5	88
79	The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. Smart Materials and Structures, 2014, 23, 075009.	3.5	64
80	Variable stiffness and damping suspension system for train. Proceedings of SPIE, 2014, , .	0.8	15
81	Magnetorheological Damper Working in Squeeze Mode. Advances in Mechanical Engineering, 2014, 6, 410158.	1.6	44
82	Three-dimensional reconstruction coordinate error induced by asynchronous cameras for moving objects. , 2013, , .		3
83	Variable stiffness and damping semi-active vibration control technology based on magnetorheological fluids. , 2013, , .		1
84	Experimental study and modeling of a novel magnetorheological elastomer isolator. Smart Materials and Structures, 2013, 22, 117001.	3.5	111
85	Improving the critical speeds of high-speed trains using magnetorheological technology. Smart Materials and Structures, 2013, 22, 115012.	3.5	35
86	A Novel MR Device with Variable Stiffness and Damping Capability. International Journal of Aerospace and Lightweight Structures (IJALS), 2013, 3, 325.	0.1	6
87	Investigation on the mechanism of damping behavior of magnetorheological elastomers. Smart Materials and Structures, 2012, 21, 125015.	3.5	54
88	Identification of Damaged Spot Welds in a Complicated Joined Structure. Journal of Physics: Conference Series, 2011, 305, 012057.	0.4	7
89	Vibration of spinning discs and powder formation in centrifugal atomization. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 361-380.	2.1	10
90	Vibration analysis of atomising discs. Journal of Physics: Conference Series, 2009, 181, 012036.	0.4	0

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91	Application of magnetorheological elastomer to vibration absorber. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1938-1947.	3.3	194
92	Adaptive Tuned Vibration Absorber based on Magnetorheological Elastomer. Journal of Intelligent Material Systems and Structures, 2007, 18, 1205-1210.	2.5	137
93	Morphology, Thermal and Mechanical Properties of Poly (Styrene-Acrylonitrile) (SAN)/Clay Nanocomposites from Organic-Modified Montmorillonite. Polymer-Plastics Technology and Engineering, 2007, 46, 541-548.	1.9	30
94	Investigation on magnetorheological elastomers based on natural rubber. Journal of Materials Science, 2007, 42, 5483-5489.	3.7	263
95	Preparation and characterization of poly (styrene-acrylonitrile) (SAN)/clay nanocomposites by melt intercalation. Journal of Materials Science, 2007, 42, 5524-5533.	3.7	10
96	Development of an adaptive tuned vibration absorber with magnetorheological elastomer. Smart Materials and Structures, 2006, 15, N111-N116.	3.5	326
97	Magnetorheological elastomers based on isobutylene-“isoprene rubber. Polymer Engineering and Science, 2006, 46, 264-268.	3.1	46
98	Application of Magnetorheological Elastomer to vibration control. , 2006, , .		6