

Huaxia Deng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5520480/publications.pdf>

Version: 2024-02-01

98
papers

2,531
citations

257450

24
h-index

214800

47
g-index

98
all docs

98
docs citations

98
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an adaptive tuned vibration absorber with magnetorheological elastomer. <i>Smart Materials and Structures</i> , 2006, 15, N111-N116.	3.5	326
2	Investigation on magnetorheological elastomers based on natural rubber. <i>Journal of Materials Science</i> , 2007, 42, 5483-5489.	3.7	263
3	Application of magnetorheological elastomer to vibration absorber. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 1938-1947.	3.3	194
4	Adaptive Tuned Vibration Absorber based on Magnetorheological Elastomer. <i>Journal of Intelligent Material Systems and Structures</i> , 2007, 18, 1205-1210.	2.5	137
5	Experimental study and modeling of a novel magnetorheological elastomer isolator. <i>Smart Materials and Structures</i> , 2013, 22, 117001.	3.5	111
6	A novel magnetorheological elastomer isolator with negative changing stiffness for vibration reduction. <i>Smart Materials and Structures</i> , 2014, 23, 105023.	3.5	88
7	A Compact Variable Stiffness and Damping Shock Absorber for Vehicle Suspension. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2621-2629.	5.8	77
8	The development of an adaptive tuned magnetorheological elastomer absorber working in squeeze mode. <i>Smart Materials and Structures</i> , 2014, 23, 075009.	3.5	64
9	An adaptive tuned vibration absorber based on multilayered MR elastomers. <i>Smart Materials and Structures</i> , 2015, 24, 045045.	3.5	64
10	Investigation on the mechanism of damping behavior of magnetorheological elastomers. <i>Smart Materials and Structures</i> , 2012, 21, 125015.	3.5	54
11	Development of a novel variable stiffness and damping magnetorheological fluid damper. <i>Smart Materials and Structures</i> , 2015, 24, 085021.	3.5	53
12	Horizontal vibration reduction of a seat suspension using negative changing stiffness magnetorheological elastomer isolators. <i>International Journal of Vehicle Design</i> , 2015, 68, 104.	0.3	51
13	Modelling and identifying the parameters of a magneto-rheological damper with a force-lag phenomenon. <i>Applied Mathematical Modelling</i> , 2014, 38, 3763-3773.	4.2	48
14	Magnetorheological elastomers based on isobutylene- <i>isoprene</i> rubber. <i>Polymer Engineering and Science</i> , 2006, 46, 264-268.	3.1	46
15	Magnetorheological Damper Working in Squeeze Mode. <i>Advances in Mechanical Engineering</i> , 2014, 6, 410158.	1.6	44
16	Performance evaluation and comparison of magnetorheological elastomer absorbers working in shear and squeeze modes. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1757-1763.	2.5	40
17	Fourier single-pixel imaging using fewer illumination patterns. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	37
18	Poly-stable energy harvesting based on synergetic multistable vibration. <i>Communications Physics</i> , 2019, 2, .	5.3	37

#	ARTICLE	IF	CITATIONS
19	A Robust and Rapid Camera Calibration Method by One Captured Image. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4112-4121.	4.7	37
20	A multimodal and multidirectional vibrational energy harvester using a double-branched beam. Applied Physics Letters, 2018, 112, .	3.3	36
21	Improving the critical speeds of high-speed trains using magnetorheological technology. Smart Materials and Structures, 2013, 22, 115012.	3.5	35
22	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
23	Multi-camera calibration method based on a multi-plane stereo target. Applied Optics, 2019, 58, 9353.	1.8	29
24	Black-Box Phase Error Compensation for Digital Phase-Shifting Profilometry. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2755-2761.	4.7	26
25	Design and verification of a seat suspension with variable stiffness and damping. Smart Materials and Structures, 2019, 28, 065015.	3.5	26
26	Bistable broadband hybrid generator for ultralow-frequency rectilinear motion. Nano Energy, 2019, 65, 103973.	16.0	25
27	Development of an MRE adaptive tuned vibration absorber with self-sensing capability. Smart Materials and Structures, 2015, 24, 095012.	3.5	23
28	A high-speed D-CART online fault diagnosis algorithm for rotor systems. Applied Intelligence, 2020, 50, 29-41.	5.3	23
29	Target orientation detection based on a neural network with a bionic bee-like compound eye. Optics Express, 2020, 28, 10794.	3.4	23
30	A seesaw-type approach for enhancing nonlinear energy harvesting. Applied Physics Letters, 2018, 112, .	3.3	20
31	Super-resolution and super-robust single-pixel superposition compound eye. Optics and Lasers in Engineering, 2021, 146, 106699.	3.8	20
32	An innovative MRE absorber with double natural frequencies for wide frequency bandwidth vibration absorption. Smart Materials and Structures, 2016, 25, 055035.	3.5	19
33	A stereovision measurement for large deformation of light structures. Measurement: Journal of the International Measurement Confederation, 2019, 136, 387-394.	5.0	19
34	Measurement of Unmanned Aerial Vehicle Attitude Angles Based on a Single Captured Image. Sensors, 2018, 18, 2655.	3.8	18
35	Variable stiffness mechanisms of dual parameters changing magnetorheological fluid devices. Smart Materials and Structures, 2017, 26, 125014.	3.5	16
36	High-speed and high-accuracy fringe projection profilometry without phase unwrapping. Optics and Lasers in Engineering, 2021, 140, 106518.	3.8	16

#	ARTICLE	IF	CITATIONS
37	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
38	Variable stiffness and damping suspension system for train. Proceedings of SPIE, 2014, , .	0.8	15
39	Catadioptric planar compound eye with large field of view. Optics Express, 2018, 26, 12455.	3.4	15
40	A morphology phase unwrapping method with one code grating. Review of Scientific Instruments, 2018, 89, 073112.	1.3	15
41	Removing light interference to improve character recognition rate by using single-pixel imaging. Optics and Lasers in Engineering, 2021, 140, 106517.	3.8	15
42	Self-sensing automotive magnetorheological dampers for low frequency vibration. Smart Materials and Structures, 2021, 30, 115015.	3.5	13
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	Three-Dimensional Identification for Unbalanced Mass of Rotor Systems in Operation. Applied Sciences (Switzerland), 2018, 8, 173.	2.5	12
45	A Compact and Flexible Nonbeam-Type Vibrational Energy Harvesting Device With Bistable Characteristics. IEEE/ASME Transactions on Mechatronics, 2019, 24, 282-292.	5.8	11
46	Preparation and characterization of poly (styrene-acrylonitrile) (SAN)/clay nanocomposites by melt intercalation. Journal of Materials Science, 2007, 42, 5524-5533.	3.7	10
47	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
48	Vision measurement error analysis for nonlinear light refraction at high temperature. Applied Optics, 2018, 57, 5556.	1.8	10
49	Modal learning displacement-strain transformation. Review of Scientific Instruments, 2019, 90, 075113.	1.3	10
50	Nuisance alarm rate reduction using pulse-width multiplexing $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e620" altimg="si8.svg" \rangle \langle \text{mml:mi mathvariant="normal" \rangle \hat{I} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -OTDR with optimized positioning accuracy. Optics Communications, 2020, 456, 124571.	2.1	10
51	A multidistance constraint method for three-dimensional reconstruction with coaxial fringe projection measurement system. Optics and Lasers in Engineering, 2020, 132, 106103.	3.8	10
52	Transmissive Single-Pixel Microscopic Imaging through Scattering Media. Sensors, 2021, 21, 2721.	3.8	10
53	High-accuracy three-dimensional reconstruction of vibration based on stereo vision. Optical Engineering, 2016, 55, 091410.	1.0	9
54	Performance enhancement of phase-demodulation $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e144" altimg="si104.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -OTDR using improved two-path DCM algorithm. Optics Communications, 2021, 482, 126616.	2.1	9

#	ARTICLE	IF	CITATIONS
55	Dynamic Visual Measurement of Driver Eye Movements. <i>Sensors</i> , 2019, 19, 2217.	3.8	8
56	Single-pixel imaging in the presence of specular reflections. <i>Applied Optics</i> , 2021, 60, 2633.	1.8	8
57	Identification of Damaged Spot Welds in a Complicated Joined Structure. <i>Journal of Physics: Conference Series</i> , 2011, 305, 012057.	0.4	7
58	Development of a non-piston MR suspension rod for variable mass systems. <i>Smart Materials and Structures</i> , 2018, 27, 065014.	3.5	7
59	Direction-determined phase unwrapping using geometric constraint of the structured light system: The establishment of minimum phase map. <i>Optics Communications</i> , 2017, 402, 14-19.	2.1	7
60	Application of Magnetorheological Elastomer to vibration control. , 2006, , .		6
61	Development of precision measurement network of experimental advanced superconducting tokamak. <i>Optical Engineering</i> , 2014, 53, 122406.	1.0	6
62	Characteristic verification and parameter optimization of airbags cushion system for airborne vehicle. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2014, 27, 50-57.	3.7	6
63	Self-updating inverse model for magnetorheological dampers. <i>Smart Materials and Structures</i> , 2019, 28, 115033.	3.5	6
64	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
65	A Novel MR Device with Variable Stiffness and Damping Capability. <i>International Journal of Aerospace and Lightweight Structures (IJALS)</i> , 2013, 3, 325.	0.1	6
66	3D information detection with novel five composite fringe patterns. <i>Modern Physics Letters B</i> , 2017, 31, 1740088.	1.9	5
67	Interface modeling of magnetorheological elastomers subjected to variable working strain. <i>Soft Matter</i> , 2019, 15, 5574-5584.	2.7	5
68	Self-adapting model for variable stiffness magnetorheological dampers. <i>Smart Materials and Structures</i> , 2022, 31, 025006.	3.5	5
69	Pulse-Width Multiplexing Ĩ-OTDR for Nuisance-Alarm Rate Reduction. <i>Sensors</i> , 2018, 18, 3509.	3.8	4
70	Single-pixel imaging of high-temperature objects. <i>Applied Optics</i> , 2021, 60, 4095.	1.8	4
71	A Liquid-Metal-Based Freestanding Triboelectric Generator for Low-Frequency and Multidirectional Vibration. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	4
72	High-efficiency single-pixel imaging using discrete Hartley transform. <i>AIP Advances</i> , 2021, 11, .	1.3	4

#	ARTICLE	IF	CITATIONS
73	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.	5.0	4
74	A single pixel tracking system for microfluidic device monitoring without image processing. Optics and Lasers in Engineering, 2022, 151, 106875.	3.8	4
75	A self-adaptive method for the assessment of dynamic measurement uncertainty. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111116.	5.0	4
76	Three-dimensional reconstruction coordinate error induced by asynchronous cameras for moving objects. , 2013, , .		3
77	Vibration studies of simply supported beam based on binocular stereo vision. Proceedings of SPIE, 2015, , .	0.8	3
78	Thermal design and analysis of high power star sensors. Case Studies in Thermal Engineering, 2015, 6, 52-60.	5.7	3
79	An Initial Dot Encoding Scheme with Significantly Improved Robustness and Numbers. Applied Sciences (Switzerland), 2019, 9, 4915.	2.5	3
80	3D reconstruction for sinusoidal motion based on different feature detection algorithms. , 2015, , .		2
81	Multi-cameras calibration from spherical targets. Proceedings of SPIE, 2016, , .	0.8	2
82	A Novel ϕ -OTDR System With a Phase Demodulation Module Based on Sagnac Balanced Interferometer. Journal of Lightwave Technology, 2021, 39, 7307-7314.	4.6	2
83	Single-pixel panoramic inspection of objects with the assistance of planar mirrors. Optics and Lasers in Engineering, 2022, 150, 106839.	3.8	2
84	Variable stiffness and damping semi-active vibration control technology based on magnetorheological fluids. , 2013, , .		1
85	Design of a compound eye system with planar microlens array and curved folded mirrors. Proceedings of SPIE, 2016, , .	0.8	1
86	A calibration technology for multi-camera system with various focal lengths. , 2016, , .		1
87	Reflection removal detection enabled by single-pixel imaging through the semi-reflective medium. Applied Optics, 2021, 60, 8688.	1.8	1
88	An annularly-distributed poly-stable array for broadband vibrational energy. Sensors and Actuators A: Physical, 2021, 332, 113106.	4.1	1
89	Tunable double nonlinear design in the energy harvester to enhance energy harvesting. European Physical Journal Plus, 2021, 136, 1.	2.6	1
90	Design and optical characterization of compound eye type solar concentrator. Results in Optics, 2022, 6, 100202.	2.0	1

#	ARTICLE	IF	CITATIONS
91	Energy conversion mechanisms of a seesaw-type energy harvester. Journal Physics D: Applied Physics, 2022, 55, 255002.	2.8	1
92	Vibration analysis of atomising discs. Journal of Physics: Conference Series, 2009, 181, 012036.	0.4	0
93	The propagation of manufacture uncertainty to dynamic measurement. Proceedings of SPIE, 2015, , .	0.8	0
94	Studies of different error elimination algorithms under defocusing digital fringe projection. , 2016, , .		0
95	The precision study of mark position after binarization for dynamic tests. Proceedings of SPIE, 2016, , .	0.8	0
96	The design of an energy harvesting device for prolonging the working time of DC equipment. , 2016, , .		0
97	Analysis of calibration accuracy of cameras with different target sizes for large field of view. , 2018, , .		0
98	10.1063/1.5035348.1. , 2018, , .		0