

Qinghua Wang

List of Publications by Year in descending order

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70
papers

1,063
citations

361413

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454955

30
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72
docs citations

72
times ranked

1669
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of microscopic strain distributions of CFRP laminates with fiber discontinuities by sampling moiré method. <i>Advanced Composite Materials</i> , 2022, 31, 273-288.	1.9	5
2	Dynamic deformation measurement of dual-wavelength random phase-shifting digital holography with automatic phase-shift detection. <i>Applied Optics</i> , 2022, 61, B103-B110.	1.8	1
3	Multiplication sampling moiré method for full-field deformation measurement of composite materials. <i>Optics Letters</i> , 2022, 47, 70.	3.3	8
4	Sampling Moiré method for full-field deformation measurement: A brief review. <i>Theoretical and Applied Mechanics Letters</i> , 2022, 12, 100327.	2.8	16
5	Stereo sampling moiré method for three-dimensional deformation mapping with a stereomicroscope. <i>Optics Express</i> , 2022, 30, 29310.	3.4	2
6	Wide-view and accurate deformation measurement at microscales by phase extraction of scanning moiré pattern with a spatial phase-shifting technique. <i>Applied Optics</i> , 2021, 60, 1637.	1.8	3
7	STEM multiplication nano-moiré method with large field of view and high sensitivity. <i>Nanotechnology</i> , 2021, 32, 475705.	2.6	5
8	Point defect detection and strain mapping in Si single crystal by two-dimensional multiplication moiré method. <i>Nanoscale</i> , 2021, 13, 16900-16908.	5.6	5
9	Displacement measurement of concrete bridges by the sampling Moiré method based on phase analysis of repeated pattern. <i>Strain</i> , 2020, 56, e12351.	2.4	19
10	Automatic detection of defect positions including interface dislocations and strain measurement in Ge/Si heterostructure from moiré phase processing of TEM image. <i>Optics and Lasers in Engineering</i> , 2020, 129, 106077.	3.8	9
11	Direct Detection Constraints on Dark Photons with the CDEX-10 Experiment at the China Jinping Underground Laboratory. <i>Physical Review Letters</i> , 2020, 124, 111301.	7.8	27
12	Residual Thermal Strain Distribution Measurement of Underfills in Flip Chip Electronic Packages by an Inverse Approach Based on the Sampling Moiré Method. <i>Experimental Mechanics</i> , 2020, 60, 611-626.	2.0	13
13	Accurate phase analysis of interferometric fringes by the spatiotemporal phase-shifting method. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 105703.	2.2	10
14	Second-order moiré method for accurate deformation measurement with a large field of view. <i>Optics Express</i> , 2020, 28, 7498.	3.4	13
15	Random phase-shifting digital holography based on a self-calibrated system. <i>Optics Express</i> , 2020, 28, 19988.	3.4	5
16	Data of dynamic microscale strain distributions of Ti-6Al-4V alloys in dwell fatigue tests. <i>Data in Brief</i> , 2019, 25, 104338.	1.0	3
17	Calibrated phase-shifting digital holography based on space-division multiplexing. <i>Optics and Lasers in Engineering</i> , 2019, 123, 8-13.	3.8	7
18	Crystallographic selection rule for the propagation mode of microstructurally small fatigue crack in a laminated Ti-6Al-4V alloy: Roles of basal and pyramidal slips. <i>International Journal of Fatigue</i> , 2019, 128, 105200.	5.7	25

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19	Constraints on Spin-Independent Nucleus Scattering with sub-GeV Weakly Interacting Massive Particle Dark Matter from the CDEX-1B Experiment at the China Jinping Underground Laboratory. <i>Physical Review Letters</i> , 2019, 123, 161301.	7.8	104
20	Spatiotemporal phase-shifting method for accurate phase analysis of fringe pattern. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 095702.	2.2	23
21	1-second-resolved strain mapping in Ti-6Al-4V alloys during dwell fatigue in SEM by video sampling moiré. <i>Mechanics of Materials</i> , 2019, 133, 63-70.	3.2	9
22	Search for Light Weakly-Interacting-Massive-Particle Dark Matter by Annual Modulation Analysis with a Point-Contact Germanium Detector at the China Jinping Underground Laboratory. <i>Physical Review Letters</i> , 2019, 123, 221301.	7.8	37
23	Characterization technique for detection of atom-size crystalline defects and strains using two-dimensional fast-Fourier-transform sampling Moiré method. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FC04.	1.5	12
24	Interlaminar Shear Behavior of Laminated Carbon Fiber Reinforced Plastic from Microscale Strain Distributions Measured by Sampling Moiré Technique. <i>Materials</i> , 2018, 11, 1684.	2.9	8
25	Optical full-field strain measurement method from wrapped sampling Moiré phase to minimize the influence of defects and its applications. <i>Optics and Lasers in Engineering</i> , 2018, 110, 155-162.	3.8	27
26	Nanometer-order thermal deformation measurement by a calibrated phase-shifting digital holography system. <i>Optics Express</i> , 2018, 26, 12594.	3.4	24
27	Calibrated Phase-Shifting Digital Holographic Microscope Using a Sampling Moiré Technique. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 706.	2.5	3
28	Limits on Light Weakly Interacting Massive Particles from the First $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 102.8 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{\epsilon} \% \langle \text{mml:mtext} \rangle \langle \text{mml:mtext} \rangle \text{kg} \langle \text{mml:mtext} \rangle \langle \text{mml:mo} \rangle \hat{\sim}$ Data of the CDEX-10 Experiment. <i>Physical Review Letters</i> , 2018, 120, 241301.	7.8	106
29	Sampling moiré as a special windowed Fourier ridges algorithm in demodulation of carrier fringe patterns. <i>Optical Engineering</i> , 2018, 57, 1.	1.0	5
30	Comparative study of sampling moiré and windowed Fourier transform techniques for demodulation of a single-fringe pattern. <i>Applied Optics</i> , 2018, 57, 10402.	1.8	26
31	Multiscale in situ deformation experiments: A sequential process from strain localization to failure in a laminated Ti-6Al-4V alloy. <i>Materials Characterization</i> , 2017, 128, 217-225.	4.4	14
32	Micro/Nano-scale Strain Distribution Measurement from Sampling Moiré Fringes. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	2
33	Calibrated phase-shifting digital holography based on a dual-camera system. <i>Optics Letters</i> , 2017, 42, 4954.	3.3	17
34	Two-dimensional Moiré phase analysis for accurate strain distribution measurement and application in crack prediction. <i>Optics Express</i> , 2017, 25, 13465.	3.4	38
35	Accurate Strain Distribution Measurement Based on the Sampling Moiré Method. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 243-249.	0.5	2
36	Full-Field Measurements of Principal Strains and Orientations Using Moiré Fringes. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 251-259.	0.5	0

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37	Influence of working distance on microscale strain measurement under laser scanning microscope from moiré fringes. , 2017, , .		0
38	The Residual Strain Measurement of Thin Conductive Metal Wire after Electrical Failure with SEM Moiré. Acta Mechanica Solida Sinica, 2016, 29, 371-378.	1.9	3
39	Digital sampling Moiré as a substitute for microscope scanning Moiré for high-sensitivity and full-field deformation measurement at micron/nano scales. Applied Optics, 2016, 55, 6858.	2.1	31
40	Developments and Applications of Moire Techniques for Deformation Measurement, Structure Characterization and Shape Analysis. Recent Patents on Materials Science, 2015, 8, 188-207.	0.5	6
41	Deformation measurement of carbon fiber reinforced plastics using phase-shifting scanning electron microscope Moiré method after Fourier transform. Proceedings of SPIE, 2015, , .	0.8	1
42	Deformation Measurement Method Using Moiré Fringes at High Scanning Speed Under a Laser Scanning Microscope. Optics, 2015, 4, 43.	0.2	6
43	Moiré Techniques Based on Memory Function of Laser Scanning Microscope for Deformation Measurement at Micron/Submicron Scales. International Journal of Automation Technology, 2015, 9, 494-501.	1.0	3
44	Formation of Three-Way Scanning Electron Microscope Moiré on Micro/Nanostructures. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	1
45	Compressive mechanical properties of closed-cell aluminum foam-polymer composites. Composites Part B: Engineering, 2014, 64, 43-49.	12.0	34
46	Spot Moiré Fringes: Determination of Domain Boundaries and Structural Parameters in Ordered Nanoporous Structures. Chemistry - A European Journal, 2014, 20, 2179-2183.	3.3	10
47	Micro/submicro grating fabrication on metals for deformation measurement based on ultraviolet nanoimprint lithography. Optics and Lasers in Engineering, 2013, 51, 944-948.	3.8	12
48	In situ high temperature creep deformation of micro-structure with metal film wire on flexible membrane using geometric phase analysis. Microelectronics Reliability, 2013, 53, 652-657.	1.7	11
49	Formation of secondary Moiré patterns for characterization of nanoporous alumina structures in multiple domains with different orientations. Nanoscale, 2013, 5, 2285.	5.6	30
50	701 Fabrication of an Anisotropic Porous Metal Including Polymer by the Tool for Realizing Hybridized New Functions. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _701-1_-_701-3_.	0.0	0
51	707 Measurement of Mechanical Property of the Porous Materials with Anisotropic Cell. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _707-1_-_707-4_.	0.0	0
52	620 Fabrication of Glass Substrate by Pulse Electric Current Sintering. The Proceedings of the Materials and Processing Conference, 2013, 2013.21, _620-1_-_620-3_.	0.0	0
53	J112014 Generation of overlap-scanning laser microscope moire fringes using micro grids for in-situ deformation measurement. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _J112014-1-_J1120144.	0.0	0
54	Three-directional structural characterization of hexagonal packed nanoparticles by hexagonal digital moiré method. Optics Letters, 2012, 37, 548.	3.3	24

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55	Characterization of the arrangement feature of copper interconnects by Moiré inversion method. Theoretical and Applied Mechanics Letters, 2012, 2, 021008.	2.8	2
56	Simultaneous analysis of residual stress and stress intensity factor in a resist after UV-nanoimprint lithography based on electron moiré fringes. Journal of Micromechanics and Microengineering, 2012, 22, 105021.	2.6	19
57	Buckling modes of polymer membranes restricted by metal wires. Soft Matter, 2011, 7, 2888.	2.7	29
58	Measurement of interfacial toughness of metal film wire and polymer membrane through electricity induced buckling method. Journal of Colloid and Interface Science, 2011, 358, 491-496.	9.4	15
59	OS010-1-2 Characterization of the Planar Arrangement Feature of Copper Interconnects by Moire Inversion Method. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS010-1-2.	0.0	0
60	Dry Reforming of Methane with Carbon Dioxide Using Pulsed DC Arc Plasma at Atmospheric Pressure. Plasma Chemistry and Plasma Processing, 2010, 30, 257-266.	2.4	40
61	Residual stress assessment of interconnects by slot milling with FIB and geometric phase analysis. Optics and Lasers in Engineering, 2010, 48, 1113-1118.	3.8	25
62	A new method for the reconstruction of micro- and nanoscale planar periodic structures. Ultramicroscopy, 2010, 110, 1223-1230.	1.9	21
63	Phase-shifting laser scanning confocal microscopy moiré method and its applications. Measurement Science and Technology, 2010, 21, 055110.	2.6	13
64	Impact of system factors on the water saving efficiency of household grey water recycling. Desalination and Water Treatment, 2010, 24, 226-235.	1.0	3
65	A study on the mechanical properties of beagle femoral head using the digital speckle correlation method. Medical Engineering and Physics, 2009, 31, 1228-1234.	1.7	8
66	Instability and failure analysis of film-substrate structure under electrical loading. , 2009, , .		2
67	A new mark shearing technique for strain measurement using digital image correlation method. Review of Scientific Instruments, 2008, 79, 105101.	1.3	12
68	Study of the surface structure of butterfly wings using the scanning electron microscopic moiré method. Applied Optics, 2007, 46, 7026.	2.1	29
69	Characterization of planar periodic structure using inverse laser scanning confocal microscopy moiré method and its application in the structure of butterfly wing. Journal of Applied Physics, 2007, 101, 103511.	2.5	40
70	OS1-2-3 Experimental Study on the Laser Scanning Confocal Microscopy Moire Method. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2007, 2007.6, _OS1-2-3-1-_OS1-2-3-4.	0.0	0