

# Feng Gao

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

1,471  
citations

304368

22  
h-index

329751

37  
g-index

66  
all docs

66  
docs citations

66  
times ranked

761  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Surface measurement errors using commercial scanning white light interferometers. <i>Measurement Science and Technology</i> , 2008, 19, 015303.   | 1.4 | 143       |
| 2  | State-of-the-art active optical techniques for three-dimensional surface metrology: a review [Invited]. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, B60. | 0.8 | 125       |
| 3  | A simple, flexible and automatic 3D calibration method for a phase calculation-based fringe projection imaging system. <i>Optics Express</i> , 2013, 21, 12218.   | 1.7 | 96        |
| 4  | Fast surface measurement using wavelength scanning interferometry with compensation of environmental noise. <i>Applied Optics</i> , 2010, 49, 2903.   | 2.1 | 84        |
| 5  | Three-Dimensional Shape Measurements of Specular Objects Using Phase-Measuring Deflectometry. <i>Sensors</i> , 2017, 17, 2835.  | 2.1 | 67        |
| 6  | Surface and thickness measurement of a transparent film using wavelength scanning interferometry. <i>Optics Express</i> , 2012, 20, 21450.  | 1.7 | 58        |
| 7  | Iterative optimization calibration method for stereo deflectometry. <i>Optics Express</i> , 2015, 23, 22060.  | 1.7 | 58        |
| 8  | Full-field 3D shape measurement of discontinuous specular objects by direct phase measuring deflectometry. <i>Scientific Reports</i> , 2017, 7, 10293.  | 1.6 | 51        |
| 9  | Performance analysis and evaluation of direct phase measuring deflectometry. <i>Optics and Lasers in Engineering</i> , 2018, 103, 24-33.  | 2.0 | 48        |
| 10 | A brief review of the technological advancements of phase measuring deflectometry. <i>Photonix</i> , 2020, 1, .   | 5.5 | 41        |
| 11 | Single-shot 3D shape measurement of discontinuous objects based on a coaxial fringe projection system. <i>Applied Optics</i> , 2019, 58, A169.  | 0.9 | 40        |
| 12 | Least-squares method for data reconstruction from gradient data in deflectometry. <i>Applied Optics</i> , 2016, 55, 6052.   | 2.1 | 37        |
| 13 | Calibration of an interferometric on-machine probing system on an ultra-precision turning machine. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 118, 96-104.                | 2.5 | 37        |
| 14 | Generic exponential fringe model for alleviating phase error in phase measuring profilometry. <i>Optics and Lasers in Engineering</i> , 2018, 110, 179-185.   | 2.0 | 37        |
| 15 | A method for inspecting near-right-angle V-groove surfaces based on dual-probe wavelength scanning interferometry. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 1-7.            | 1.5 | 37        |
| 16 | Improvement of high-order least-squares integration method for stereo deflectometry. <i>Applied Optics</i> , 2015, 54, 10249.   | 2.1 | 34        |
| 17 | 3D shape measurement of discontinuous specular objects based on advanced PMD with bi-telecentric lens. <i>Optics Express</i> , 2018, 26, 1615.  | 1.7 | 33        |
| 18 | Accurate projector calibration method by using an optical coaxial camera. <i>Applied Optics</i> , 2015, 54, 789.  | 0.9 | 31        |

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|----|--|-----|-----------|
| 19 | A holistic calibration method with iterative distortion compensation for stereo deflectometry. <i>Optics and Lasers in Engineering</i> , 2018, 106, 111-118.   | 2.0 | 28        |
| 20 | In-situ areal inspection of powder bed for electron beam fusion system based on fringe projection profilometry. <i>Additive Manufacturing</i> , 2020, 31, 100940.                                    | 1.7 | 27        |
| 21 | An Iterative Distortion Compensation Algorithm for Camera Calibration Based on Phase Target. <i>Sensors</i> , 2017, 17, 1188.  | 2.1 | 26        |
| 22 | A novel multi-function tribological probe microscope for mapping surface properties. <i>Measurement Science and Technology</i> , 2004, 15, 91-102.   | 1.4 | 23        |
| 23 | Comparison study of algorithms and accuracy in the wavelength scanning interferometry. <i>Applied Optics</i> , 2012, 51, 8854.   | 0.9 | 22        |
| 24 | Performance Analysis and Evaluation of Geometric Parameters in Stereo Deflectometry. <i>Engineering</i> , 2018, 4, 806-815.  | 3.2 | 21        |
| 25 | Enhancement of measurement accuracy of optical stereo deflectometry based on imaging model analysis. <i>Optics and Lasers in Engineering</i> , 2018, 111, 1-7.                                       | 2.0 | 21        |
| 26 | On-line surface inspection using cylindrical lens-based spectral domain low-coherence interferometry. <i>Applied Optics</i> , 2014, 53, 5510.  | 0.9 | 20        |
| 27 | Accelerated Surface Measurement Using Wavelength Scanning Interferometer with Compensation of Environmental Noise. <i>Procedia CIRP</i> , 2013, 10, 70-76.   | 1.0 | 16        |
| 28 | Surface topography acquisition method for double-sided near-right-angle structured surfaces based on dual-probe wavelength scanning interferometry. <i>Optics Express</i> , 2017, 25, 24148.         | 1.7 | 16        |
| 29 | Application of Clustering Filter for Noise and Outlier Suppression in Optical Measurement of Structured Surfaces. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6509-6517. | 2.4 | 16        |
| 30 | Implementation of in Process Surface Metrology for R2R Flexible PV Barrier Films. <i>International Journal of Automation Technology</i> , 2015, 9, 312-321.  | 0.5 | 15        |
| 31 | A calibration method for non-overlapping cameras based on mirrored absolute phase target. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 9-15.                       | 1.5 | 14        |
| 32 | High-accuracy simultaneous measurement of surface profile and film thickness using line-field white-light dispersive interferometer. <i>Optics and Lasers in Engineering</i> , 2021, 137, 106388.    | 2.0 | 13        |
| 33 | 3D Reconstruction of High Reflective Welding Surface Based on Binocular Structured Light Stereo Vision. <i>Machines</i> , 2022, 10, 159.   | 1.2 | 12        |
| 34 | Robust incident angle calibration of angle-resolved ellipsometry for thin film measurement. <i>Applied Optics</i> , 2021, 60, 3971.  | 0.9 | 11        |
| 35 | 3D Measurement of Structured Specular Surfaces Using Stereo Direct Phase Measurement Deflectometry. <i>Machines</i> , 2021, 9, 170.  | 1.2 | 10        |
| 36 | Full-Field Calibration of Color Camera Chromatic Aberration using Absolute Phase Maps. <i>Sensors</i> , 2017, 17, 1048.  | 2.1 | 9         |

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|----|---|-----|-----------|
| 37 | Improvement of the fringe analysis algorithm for wavelength scanning interferometry based on filter parameter optimization. <i>Applied Optics</i> , 2018, 57, 2227.                                     | 0.9 | 9         |
| 38 | Distance Calibration between Reference Plane and Screen in Direct Phase Measuring Deflectometry. <i>Sensors</i> , 2018, 18, 144.  | 2.1 | 9         |
| 39 | Enhancement of measurement accuracy of discontinuous specular objects with stereo vision deflectometer. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 188, 110570. | 2.5 | 8         |
| 40 | Segmentation phase measuring deflectometry for measuring structured specular surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 2271-2283.                        | 1.5 | 8         |
| 41 | Multi-scale measurement of high-reflective surfaces by integrating near-field photometric stereo with touch trigger probe. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 489-492.           | 1.7 | 7         |
| 42 | High-dynamic-range 3D measurement for E-beam fusion additive manufacturing based on SVM intelligent fringe projection system. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 034002.    | 0.9 | 7         |
| 43 | Full-field 3D shape measurement of specular surfaces by direct phase to depth relationship. <i>Proceedings of SPIE</i> , 2016, , .  | 0.8 | 6         |
| 44 | Comparison of fast Fourier transform and convolution in wavelength scanning interferometry. <i>Proceedings of SPIE</i> , 2011, , .  | 0.8 | 5         |
| 45 | Near optical coaxial phase measuring deflectometry for measuring structured specular surfaces. <i>Optics Express</i> , 2022, 30, 17554.   | 1.7 | 5         |
| 46 | B-spline surface based 3D reconstruction method for deflectometry. <i>Optics Express</i> , 2022, 30, 28207.   | 1.7 | 5         |
| 47 | Interferometry for Online/In-Process Surface Inspection. , 0, , .   |     | 4         |
| 48 | A Simple Calibration Method for a Fringe Projection System Embedded within an Additive Manufacturing Machine. <i>Machines</i> , 2021, 9, 200.   | 1.2 | 4         |
| 49 | Rapid measurement of large step heights using a microscopic white-light spectral interferometer. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 025024.                                 | 0.9 | 3         |
| 50 | Analysis of the synchronous phase-shifting method in a white-light spectral interferometer. <i>Applied Optics</i> , 2020, 59, 2983.   | 0.9 | 3         |
| 51 | Full-field 3D shape measurement of specular object having discontinuous surfaces. , 2017, , .   |     | 2         |
| 52 | Accuracy improvement of a white-light spectral interferometer using a line-by-line spectral calibration method. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 025028.                  | 0.9 | 2         |
| 53 | On-Machine Calibration Method for <i>In Situ</i> Stereo Deflectometry System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.  | 2.4 | 2         |
| 54 | Single-shot RGB polarising interferometer. , 2018, , .  |     | 2         |

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|----|--|-----|-----------|
| 55 | The research of 3D small-field imaging system based on fringe projection technique. , 2014, , .  |     | 1         |
| 56 | Phase retrieval algorithm for line-scan dispersive interferometry. , 2018, , .   |     | 1         |
| 57 | Improved description of the signal formation in grating generated-optical coherence tomography. Optics Express, 2019, 27, 33999.       | 1.7 | 1         |
| 58 | Calibration of transfer standards for SPM. Microelectronic Engineering, 1998, 41-42, 615-618.  | 1.1 | 0         |
| 59 | In-Process Fast Surface Measurement Using Wavelength Scanning Interferometry. Advanced Materials Research, 0, 622-623, 357-360.        | 0.3 | 0         |
| 60 | Absolute height measurement of specular surfaces with modified active fringe reflection photogrammetry. Proceedings of SPIE, 2014, , . | 0.8 | 0         |
| 61 | Projector calibration method based on optical coaxial camera. , 2014, , .  |     | 0         |
| 62 | In-situ defect detection systems for R2R flexible PV barrier films. Proceedings of SPIE, 2015, , .                                     | 0.8 | 0         |
| 63 | Effect of Ag Thin Films on the Photoluminescence of ZnO Films. Journal of Nanoscience and Nanotechnology, 2015, 15, 3796-3801.         | 0.9 | 0         |
| 64 | Full-field calibration and compensation of lateral chromatic aberration based on unwrapped phase. , 2016, , .                          |     | 0         |
| 65 | Calibration of Double Priority Camera Based on Circle Planar Target. International Journal of Automation Technology, 2015, 9, 322-329. | 0.5 | 0         |
| 66 | Robustness improvement for the calibration of stereo deflectometry based on a search algorithm. , 2020, , .                            |     | 0         |