

# Thomas G Brown

## List of Publications by Year in descending order

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101  
papers

5,249  
citations

172207

29  
h-index

106150

65  
g-index

101  
all docs

101  
docs citations

101  
times ranked

2946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplitude and phase sorting of orbital angular momentum states at low light levels. <i>Optica</i> , 2021, 8, 147.	4.8	7
2	Camera-based metrology of subwavelength scatterers in photonic integrated circuits. , 2021, , .		2
3	Birefringent Fourier filtering for single molecule coordinate and height super-resolution imaging with dithering and orientation. <i>Nature Communications</i> , 2020, 11, 5307.	5.8	49
4	Theoretical analysis of quantum random walks with stress-engineered optics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 135.	0.8	0
5	Single molecule Coordinate and Height super-resolution Imaging with Dithering and Orientation (CHIDO). , 2020, , .		0
6	Simultaneous Measurement of Multiple Parameters of a Subwavelength Structure Based on the Weak Value Formalism. <i>Physical Review Letters</i> , 2019, 122, 123603.	2.9	19
7	Polarization singularities in a stress-engineered optic. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 312.	0.8	10
8	Quadratic extension to retrace error calibration algorithm for non-null interferometric surface figure testing of nominally flat reflective surfaces. , 2019, , .		0
9	Measuring vector field correlations using diffraction. <i>Optics Express</i> , 2018, 26, 8301.	1.7	8
10	Oblique propagation of light through a thick, space-variant birefringent element. <i>Optics Express</i> , 2018, 26, 18832.	1.7	8
11	The first polarimeter in astronomy to use a stress-engineered optic (SEO). , 2018, , .		0
12	Phase-space approach to lensless measurements of optical field correlations. <i>Optics Express</i> , 2016, 24, 16099.	1.7	11
13	Star test image-sampling polarimeter. <i>Optics Express</i> , 2016, 24, 23154.	1.7	20
14	Single-shot polarimetry imaging of multicore fiber. <i>Optics Letters</i> , 2016, 41, 2105.	1.7	37
15	Lensless Measurements of Optical Field Correlations. , 2016, , .		0
16	Single-Shot Polarimetry Imaging of Multicore Fibers. , 2016, , .		0
17	Simultaneous Determination of 3D Orientation and 3D Localization in Single Emitter Microscopy Imaging. , 2016, , .		1
18	Phase effects in guided mode resonances III: parametric analysis and Fano resonances. <i>Journal of Modern Optics</i> , 2015, 62, 244-250.	0.6	9

#	ARTICLE	IF	CITATIONS
19	Measuring Spatial Coherence Without Lenses: A Phase-Space Approach. , 2015, , .		0
20	Measuring spatial coherence through the shadow of small obstacles. , 2014, , .		0
21	Using shadows to measure spatial coherence. Optics Letters, 2014, 39, 4927.	1.7	28
22	Focused beam scatterometry for deep subwavelength metrology. , 2014, , .		8
23	Measurement of spatial coherence through the shadow of small obscurations. Proceedings of SPIE, 2014, , .	0.8	0
24	Pinhole array implementation of star test polarimetry. , 2014, , .		7
25	Stress engineering and the applications of inhomogeneously polarized optical fields. Frontiers of Optoelectronics, 2013, 6, 89-96.	1.9	8
26	Imaging the polarization of a light field. Optics Express, 2013, 21, 4106.	1.7	53
27	Measurement of spatial coherence through diffraction from a transparent mask with a phase discontinuity. Optics Letters, 2012, 37, 2724.	1.7	29
28	Full Poincaré beams II: partial polarization. Optics Express, 2012, 20, 9357.	1.7	40
29	Star test polarimetry using stress-engineered optical elements. , 2012, , .		5
30	Simple methods for measuring spatial coherence and their relation to the Wigner function. , 2012, , .		0
31	Changes in the degree of polarization through a paraxial focus. , 2012, , .		0
32	Unconventional Polarization States. Progress in Optics, 2011, 56, 81-129.	0.4	47
33	Full Poincaré beams. , 2011, , .		0
34	Collapse and Revival of the Degree of Polarization. , 2011, , .		0
35	Imprinting aberrations in the Stokes parameters of a focal spot. , 2010, , .		0
36	Pupil polarimetry using stress-engineered optical elements. , 2010, , .		4

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37	Introduction: Unconventional Polarization States of Light Focus Issue. Optics Express, 2010, 18, 10775.	1.7	29
38	Full Poincaré beams. Optics Express, 2010, 18, 10777.	1.7	383
39	Diffraction Free Stokes Distributions in a Full Poincaré Beam. , 2010, , .		2
40	Imprinting Aberrations in the Stokes Parameters of a Focal Spot. , 2010, , .		0
41	Full Poincaré beams. , 2010, , .		0
42	Stress Birefringence for Extended Depth of Focus Imaging. , 2010, , .		0
43	Coherence measurements applied to critical and Köhler vortex illumination. , 2009, , .		3
44	Polarimetry using stress-engineered optical elements. , 2009, , .		0
45	Nonparaxial Polarization Vortex Illumination Described Using a 2 <sup>nd</sup> -2 <sup>nd</sup> Correlation Matrix. , 2009, , .		0
46	Spatial coherence properties of azimuthally polarized laser modes. Optics Communications, 2008, 281, 5287-5290.	1.0	14
47	Partially correlated azimuthal vortex illumination: Coherence and correlation measurements and effects in imaging. Optics Express, 2008, 16, 20418.	1.7	33
48	Polarization Vortex Illumination: Predicting and Measuring the Correlation Matrix. , 2008, , .		0
49	Mueller Matrix Measurement and Stress Engineering. , 2008, , .		0
50	Calibration of a reversed-wavefront interferometer for polarization coherence metrology. , 2007, , .		6
51	Focal splitting and optical vortex structure induced by stress birefringence. Proceedings of SPIE, 2007, , .	0.8	3
52	Stress-induced focal splitting. Optics Express, 2007, 15, 8411.	1.7	28
53	Stress birefringent, space-variant wave plates for vortex illumination. Applied Optics, 2007, 46, 61.	2.1	59
54	Radiation modes and tilted fiber gratings. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1544.	0.9	28

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55	Dispersive wave blue-shift in supercontinuum generation. Optics Express, 2006, 14, 11997.	1.7	85
56	Narrowband supercontinuum control using phase shaping. Optics Express, 2006, 14, 13142.	1.7	14
57	Dark-field imaging with cylindrical-vector beams. Applied Optics, 2006, 45, 470.	2.1	143
58	Modeling non-linear propagation of femtosecond pulses in fiber gratings. , 2006, , .		0
59	Grating induced spectral enhancement via four-wave mixing. , 2006, , .		1
60	Quantum Amplified Isomerization: A New Concept for Polymeric Optical Materials. Macromolecules, 2005, 38, 7684-7694.	2.2	15
61	Interaction of supercontinuum and Raman solitons with microstructure fiber gratings. Optics Express, 2005, 13, 998.	1.7	32
62	Polarization properties of supercontinuum spectra generated in birefringent photonic crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 249.	0.9	97
63	Primary aberrations in focused radially polarized vortex beams. Optics Express, 2004, 12, 384.	1.7	47
64	Effect of frequency chirping on supercontinuum generation in photonic crystal fibers. Optics Express, 2004, 12, 689.	1.7	61
65	Experimental studies of polarization properties of supercontinua generated in a birefringent photonic crystal fiber. Optics Express, 2004, 12, 791.	1.7	81
66	Cylindrical vector beam focusing through a dielectric interface: reply to comment. Optics Express, 2004, 12, 970.	1.7	5
67	Polarization-vortex-driven second-harmonic generation. Optics Letters, 2003, 28, 923.	1.7	135
68	Stress-induced birefringence in microstructured optical fibers. Optics Letters, 2003, 28, 2306.	1.7	79
69	Longitudinal field imaging. , 2003, , .		5
70	Inhomogeneous polarization in optical system design. , 2002, , .		1
71	Full-vectorial finite-difference analysis of microstructured optical fibers. Optics Express, 2002, 10, 853.	1.7	393
72	Coupling anomalies in Si <sub>m</sub> Ge <sub>n</sub> /Si/SiO <sub>2</sub> waveguide systems. Optics Express, 2002, 10, 1139.	1.7	1

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73	Multipole analysis of hole-assisted optical fibers. <i>Optics Communications</i> , 2002, 206, 333-339.	1.0	21
74	Longitudinal Field Modes Probed by Single Molecules. <i>Physical Review Letters</i> , 2001, 86, 5251-5254.	2.9	723
75	Analysis of the space filling modes of photonic crystal fibers. <i>Optics Express</i> , 2001, 8, 547.	1.7	59
76	Cylindrical vector beam focusing through a dielectric interface. <i>Optics Express</i> , 2001, 9, 490.	1.7	143
77	Point spread functions for particle imaging using inhomogeneous polarization in scanning optical microscopy. , 2001, 4261, 14.		5
78	<title>Inhomogenous polarization in scanning optical microscopy</title>. , 2000, 3919, 75.		51
79	Focusing of high numerical aperture cylindrical-vector beams. <i>Optics Express</i> , 2000, 7, 77.	1.7	1,494
80	Interference imaging for aspheric surface testing. <i>Applied Optics</i> , 2000, 39, 2122.	2.1	48
81	Measurement and calibration of interferometric imaging aberrations. <i>Applied Optics</i> , 2000, 39, 6421.	2.1	29
82	Introduction. <i>Optics Express</i> , 1998, 3, 384.	1.7	4
83	Bragg solitons and optical switching in nonlinear periodic structures: an historical perspective. <i>Optics Express</i> , 1998, 3, 385.	1.7	8
84	Semiconductor periodic structures for out-of-plane optical switching and Bragg-soliton excitation. <i>Optics Express</i> , 1998, 3, 433.	1.7	1
85	Integral coupler/resonator for silicon-based switching and modulation. <i>Applied Physics Letters</i> , 1997, 71, 861-863.	1.5	7
86	Nonlinear-optical interactions in metal-semiconductor-metal waveguide structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 34.	0.9	9
87	Optical switching in a metal-semiconductor-metal waveguide structure. <i>Applied Physics Letters</i> , 1995, 66, 3401-3403.	1.5	16
88	Optical switching in phase-shifted metal-semiconductor-metal Bragg reflectors. <i>Optics Letters</i> , 1995, 20, 2216.	1.7	7
89	Optical switching dynamics of the nonlinear Bragg reflector: Comparison of theory and experiment. <i>Journal of Applied Physics</i> , 1993, 73, 7111-7119.	1.1	19
90	All-optical switching in a nonlinear periodic waveguide structure. <i>Applied Physics Letters</i> , 1992, 60, 1427-1429.	1.5	148

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91	The influence of resonator structure on the linewidth enhancement factor of semiconductor lasers. IEEE Journal of Quantum Electronics, 1992, 28, 1450-1458.	1.0	24
92	Frequency dependence of the chirp factor in 1.55 $\mu\text{m}$ distributed feedback semiconductor lasers. IEEE Photonics Technology Letters, 1992, 4, 688-691.	1.3	14
93	Avalanche enhancement of optical nonlinearities in semiconductor junctions. Applied Physics Letters, 1990, 56, 2387-2389.	1.5	4
94	On the linewidth enhancement factor in semiconductor lasers. Applied Physics Letters, 1990, 57, 2773-2775.	1.5	21
95	Electroluminescence from sulfur impurities in a $\text{p-n}$ junction formed in epitaxial silicon. Applied Physics Letters, 1989, 55, 100-102.	1.5	38
96	Radiative decay of excitons bound to chalcogen-related isoelectronic impurity complexes in silicon. Physical Review B, 1988, 38, 3533-3536.	1.1	34
97	Influence of oxygen in the formation of isoelectronic complexes in implanted Si:In. Physical Review B, 1988, 37, 2699-2700.	1.1	3
98	Optical emission from impurities within an epitaxial-silicon optical waveguide. Optics Letters, 1987, 12, 753.	1.7	15
99	Concentration dependence of optical emission from sulfur-doped crystalline silicon. Applied Physics Letters, 1987, 51, 1585-1587.	1.5	28
100	Observation of electroluminescence from excitons bound to isoelectronic impurities in crystalline silicon. Journal of Applied Physics, 1986, 59, 1399-1401.	1.1	12
101	Optical emission at 1.32 $\mu\text{m}$ from sulfur-doped crystalline silicon. Applied Physics Letters, 1986, 49, 245-247.	1.5	71