

Thomas G Brown

List of Publications by Year in descending order

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101
papers

5,249
citations

172457

29
h-index

106344

65
g-index

101
all docs

101
docs citations

101
times ranked

2946
citing authors

#	ARTICLE	IF	CITATIONS
1	Focusing of high numerical aperture cylindrical-vector beams. Optics Express, 2000, 7, 77.	3.4	1,494
2	Longitudinal Field Modes Probed by Single Molecules. Physical Review Letters, 2001, 86, 5251-5254.	7.8	723
3	Full-vectorial finite-difference analysis of microstructured optical fibers. Optics Express, 2002, 10, 853.	3.4	393
4	Full Poincaré beams. Optics Express, 2010, 18, 10777.	3.4	383
5	All-optical switching in a nonlinear periodic waveguide structure. Applied Physics Letters, 1992, 60, 1427-1429.	3.3	148
6	Cylindrical vector beam focusing through a dielectric interface. Optics Express, 2001, 9, 490.	3.4	143
7	Dark-field imaging with cylindrical-vector beams. Applied Optics, 2006, 45, 470.	2.1	143
8	Polarization-vortex-driven second-harmonic generation. Optics Letters, 2003, 28, 923.	3.3	135
9	Polarization properties of supercontinuum spectra generated in birefringent photonic crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 249.	2.1	97
10	Dispersive wave blue-shift in supercontinuum generation. Optics Express, 2006, 14, 11997.	3.4	85
11	Experimental studies of polarization properties of supercontinua generated in a birefringent photonic crystal fiber. Optics Express, 2004, 12, 791.	3.4	81
12	Stress-induced birefringence in microstructured optical fibers. Optics Letters, 2003, 28, 2306.	3.3	79
13	Optical emission at 1.32 μ m from sulfur-doped crystalline silicon. Applied Physics Letters, 1986, 49, 245-247.	3.3	71
14	Effect of frequency chirping on supercontinuum generation in photonic crystal fibers. Optics Express, 2004, 12, 689.	3.4	61
15	Analysis of the space filling modes of photonic crystal fibers. Optics Express, 2001, 8, 547.	3.4	59
16	Stress birefringent, space-variant wave plates for vortex illumination. Applied Optics, 2007, 46, 61.	2.1	59
17	Imaging the polarization of a light field. Optics Express, 2013, 21, 4106.	3.4	53
18	Inhomogeneous polarization in scanning optical microscopy. , 2000, 3919, 75.		51

#	ARTICLE	IF	CITATIONS
19	Birefringent Fourier filtering for single molecule coordinate and height super-resolution imaging with dithering and orientation. <i>Nature Communications</i> , 2020, 11, 5307.	12.8	49
20	Interference imaging for aspheric surface testing. <i>Applied Optics</i> , 2000, 39, 2122.	2.1	48
21	Primary aberrations in focused radially polarized vortex beams. <i>Optics Express</i> , 2004, 12, 384.	3.4	47
22	Unconventional Polarization States. <i>Progress in Optics</i> , 2011, 56, 81-129.	0.6	47
23	Full Poincaré beams II: partial polarization. <i>Optics Express</i> , 2012, 20, 9357.	3.4	40
24	Electroluminescence from sulfur impurities in a p-n junction formed in epitaxial silicon. <i>Applied Physics Letters</i> , 1989, 55, 100-102.	3.3	38
25	Single-shot polarimetry imaging of multicore fiber. <i>Optics Letters</i> , 2016, 41, 2105.	3.3	37
26	Radiative decay of excitons bound to chalcogen-related isoelectronic impurity complexes in silicon. <i>Physical Review B</i> , 1988, 38, 3533-3536.	3.2	34
27	Partially correlated azimuthal vortex illumination: Coherence and correlation measurements and effects in imaging. <i>Optics Express</i> , 2008, 16, 20418.	3.4	33
28	Interaction of supercontinuum and Raman solitons with microstructure fiber gratings. <i>Optics Express</i> , 2005, 13, 998.	3.4	32
29	Measurement and calibration of interferometric imaging aberrations. <i>Applied Optics</i> , 2000, 39, 6421.	2.1	29
30	Introduction: Unconventional Polarization States of Light Focus Issue. <i>Optics Express</i> , 2010, 18, 10775.	3.4	29
31	Measurement of spatial coherence through diffraction from a transparent mask with a phase discontinuity. <i>Optics Letters</i> , 2012, 37, 2724.	3.3	29
32	Concentration dependence of optical emission from sulfur-doped crystalline silicon. <i>Applied Physics Letters</i> , 1987, 51, 1585-1587.	3.3	28
33	Radiation modes and tilted fiber gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1544.	2.1	28
34	Stress-induced focal splitting. <i>Optics Express</i> , 2007, 15, 8411.	3.4	28
35	Using shadows to measure spatial coherence. <i>Optics Letters</i> , 2014, 39, 4927.	3.3	28
36	The influence of resonator structure on the linewidth enhancement factor of semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 1992, 28, 1450-1458.	1.9	24

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37	On the linewidth enhancement factor in semiconductor lasers. <i>Applied Physics Letters</i> , 1990, 57, 2773-2775.	3.3	21
38	Multipole analysis of hole-assisted optical fibers. <i>Optics Communications</i> , 2002, 206, 333-339.	2.1	21
39	Star test image-sampling polarimeter. <i>Optics Express</i> , 2016, 24, 23154.	3.4	20
40	Optical switching dynamics of the nonlinear Bragg reflector: Comparison of theory and experiment. <i>Journal of Applied Physics</i> , 1993, 73, 7111-7119.	2.5	19
41	Simultaneous Measurement of Multiple Parameters of a Subwavelength Structure Based on the Weak Value Formalism. <i>Physical Review Letters</i> , 2019, 122, 123603.	7.8	19
42	Optical switching in a metal-semiconductor-metal waveguide structure. <i>Applied Physics Letters</i> , 1995, 66, 3401-3403.	3.3	16
43	Optical emission from impurities within an epitaxial-silicon optical waveguide. <i>Optics Letters</i> , 1987, 12, 753.	3.3	15
44	Quantum Amplified Isomerization: A New Concept for Polymeric Optical Materials. <i>Macromolecules</i> , 2005, 38, 7684-7694.	4.8	15
45	Frequency dependence of the chirp factor in 1.55 μm distributed feedback semiconductor lasers. <i>IEEE Photonics Technology Letters</i> , 1992, 4, 688-691.	2.5	14
46	Narrowband supercontinuum control using phase shaping. <i>Optics Express</i> , 2006, 14, 13142.	3.4	14
47	Spatial coherence properties of azimuthally polarized laser modes. <i>Optics Communications</i> , 2008, 281, 5287-5290.	2.1	14
48	Observation of electroluminescence from excitons bound to isoelectronic impurities in crystalline silicon. <i>Journal of Applied Physics</i> , 1986, 59, 1399-1401.	2.5	12
49	Phase-space approach to lensless measurements of optical field correlations. <i>Optics Express</i> , 2016, 24, 16099.	3.4	11
50	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.	1.5	10
51	Nonlinear-optical interactions in metal-semiconductor-metal waveguide structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 34.	2.1	9
52	Phase effects in guided mode resonances III: parametric analysis and Fano resonances. <i>Journal of Modern Optics</i> , 2015, 62, 244-250.	1.3	9
53	Bragg solitons and optical switching in nonlinear periodic structures: an historical perspective. <i>Optics Express</i> , 1998, 3, 385.	3.4	8
54	Stress engineering and the applications of inhomogeneously polarized optical fields. <i>Frontiers of Optoelectronics</i> , 2013, 6, 89-96.	3.7	8

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55	Focused beam scatterometry for deep subwavelength metrology. , 2014, , .		8
56	Measuring vector field correlations using diffraction. Optics Express, 2018, 26, 8301.	3.4	8
57	Oblique propagation of light through a thick, space-variant birefringent element. Optics Express, 2018, 26, 18832.	3.4	8
58	Optical switching in phase-shifted metalâ€“semiconductorâ€“metal Bragg reflectors. Optics Letters, 1995, 20, 2216.	3.3	7
59	Integral coupler/resonator for silicon-based switching and modulation. Applied Physics Letters, 1997, 71, 861-863.	3.3	7
60	Pinhole array implementation of star test polarimetry. , 2014, , .		7
61	Amplitude and phase sorting of orbital angular momentum states at low light levels. Optica, 2021, 8, 147.	9.3	7
62	Calibration of a reversed-wavefront interferometer for polarization coherence metrology. , 2007, , .		6
63	Point spread functions for particle imaging using inhomogeneous polarization in scanning optical microscopy. , 2001, 4261, 14.		5
64	Longitudinal field imaging. , 2003, , .		5
65	Cylindrical vector beam focusing through a dielectric interface: reply to comment. Optics Express, 2004, 12, 970.	3.4	5
66	Star test polarimetry using stress-engineered optical elements. , 2012, , .		5
67	Avalanche enhancement of optical nonlinearities in semiconductor junctions. Applied Physics Letters, 1990, 56, 2387-2389.	3.3	4
68	Introduction. Optics Express, 1998, 3, 384.	3.4	4
69	Pupil polarimetry using stress-engineered optical elements. , 2010, , .		4
70	Influence of oxygen in the formation of isoelectronic complexes in implanted Si:In. Physical Review B, 1988, 37, 2699-2700.	3.2	3
71	Focal splitting and optical vortex structure induced by stress birefringence. Proceedings of SPIE, 2007, , .	0.8	3
72	Coherence measurements applied to critical and KÃ¶hler vortex illumination. , 2009, , .		3

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73	Diffraction Free Stokes Distributions in a Full Poincaré Beam. , 2010, , .		2
74	Camera-based metrology of subwavelength scatterers in photonic integrated circuits. , 2021, , .		2
75	Semiconductor periodic structures for out-of-plane optical switching and Bragg-soliton excitation. Optics Express, 1998, 3, 433.	3.4	1
76	Inhomogeneous polarization in optical system design. , 2002, , .		1
77	Coupling anomalies in Si _m Ge _n /Si/SiO ₂ waveguide systems. Optics Express, 2002, 10, 1139.	3.4	1
78	Grating induced spectral enhancement via four-wave mixing. , 2006, , .		1
79	Simultaneous Determination of 3D Orientation and 3D Localization in Single Emitter Microscopy Imaging. , 2016, , .		1
80	Modeling non-linear propagation of femtosecond pulses in fiber gratings. , 2006, , .		0
81	Imprinting aberrations in the Stokes parameters of a focal spot. , 2010, , .		0
82	Full Poincaré beams. , 2011, , .		0
83	Simple methods for measuring spatial coherence and their relation to the Wigner function. , 2012, , .		0
84	Measuring spatial coherence through the shadow of small obstacles. , 2014, , .		0
85	Measurement of spatial coherence through the shadow of small obscurations. Proceedings of SPIE, 2014, , .	0.8	0
86	Polarization Vortex Illumination: Predicting and Measuring the Correlation Matrix. , 2008, , .		0
87	Mueller Matrix Measurement and Stress Engineering. , 2008, , .		0
88	Polarimetry using stress-engineered optical elements. , 2009, , .		0
89	Nonparaxial Polarization Vortex Illumination Described Using a 2 nd -Order Correlation Matrix. , 2009, , .		0
90	Imprinting Aberrations in the Stokes Parameters of a Focal Spot. , 2010, , .		0

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91	Full Poincaré beams. , 2010, , .		0
92	Stress Birefringence for Extended Depth of Focus Imaging. , 2010, , .		0
93	Collapse and Revival of the Degree of Polarization. , 2011, , .		0
94	Changes in the degree of polarization through a paraxial focus. , 2012, , .		0
95	Measuring Spatial Coherence Without Lenses: A Phase-Space Approach. , 2015, , .		0
96	Lensless Measurements of Optical Field Correlations. , 2016, , .		0
97	Single-Shot Polarimetry Imaging of Multicore Fibers. , 2016, , .		0
98	The first polarimeter in astronomy to use a stress-engineered optic (SEO). , 2018, , .		0
99	Quadratic extension to retrace error calibration algorithm for non-null interferometric surface figure testing of nominally flat reflective surfaces. , 2019, , .		0
100	Theoretical analysis of quantum random walks with stress-engineered optics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 135.	1.5	0
101	Single molecule Coordinate and Height super-resolution Imaging with Dithering and Orientation (CHIDO). , 2020, , .		0