

Joseph N Mait

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

1,602
citations

361296

20
h-index

302012

39
g-index

102
all docs

102
docs citations

102
times ranked

879
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting Metamaterial Characteristics for Computational Imaging. , 2021, , .		0
2	Potential Applications of Metamaterials to Computational Imaging. , 2020, , .		3
3	Material selection for GRIN-based achromatic doublets. Optics Express, 2019, 27, 17771.	1.7	5
4	Computational imaging. Advances in Optics and Photonics, 2018, 10, 409.	12.1	156
5	Current research topics pioneered by Adolf Lohmann: introduction. Applied Optics, 2017, 56, IO1.	2.1	0
6	Minimum bias image processing with a distributed-aperture millimeter-wave imager. Applied Optics, 2017, 56, A52.	2.1	1
7	Two Decades of Computational Imaging: Still serving old wine in new bottles?. , 2017, , .		1
8	RF k-space Tomography. , 2017, , .		0
9	Dispersion design in gradient index elements using ternary blends. Optics Express, 2016, 24, 29295.	1.7	18
10	Computational Millimeter Wave Imaging: Problems, progress, and prospects. IEEE Signal Processing Magazine, 2016, 33, 109-118.	4.6	25
11	Achromatic Design of Gradient Index Lenses using Ternary Blends. , 2016, , .		0
12	Compressive Sensing Focus Issue: introduction. Applied Optics, 2015, 54, CS1.	0.9	4
13	Chromatic analysis and design of a first-order radial GRIN lens. Optics Express, 2015, 23, 22069.	1.7	22
14	Minimizing Bias in a Millimeter Wave Imager. , 2015, , .		0
15	Applied Optics Golden Anniversary Commemorative Reviews: introduction. Applied Optics, 2013, 52, CR1.	0.9	0
16	In Praise of Reviewers. Applied Optics, 2013, 52, ED5.	0.9	0
17	The Tenor of Applied Optics. Applied Optics, 2013, 52, ED7.	0.9	1
18	OSA's Review of Applied Optics. Applied Optics, 2013, 52, ED3.	0.9	1

#	ARTICLE	IF	CITATIONS
19	An Editor's Role and Responsibility. Applied Optics, 2013, 52, ED8.	0.9	0
20	Minimum bias design for a distributed aperture millimeter wave imager. , 2013, , .		1
21	Millimeter wave imaging with engineered point spread functions. Optical Engineering, 2012, 51, 091606.	0.5	13
22	Midlife and transitioning through it. Applied Optics, 2012, 51, ED13.	0.9	0
23	Imaging systems and applications. Applied Optics, 2012, 51, ISA1.	0.9	0
24	Space-bandwidth scaling for wide field-of-view imaging. Applied Optics, 2012, 51, A36.	0.9	13
25	Passive millimeter-wave imaging with extended depth of field and sparse data. , 2012, , .		15
26	Applied Optics Golden Anniversary. Applied Optics, 2012, 51, ED1.	0.9	0
27	Millimeter wave image processing through point spread function engineering. , 2011, , .		2
28	Toward a mathematical framework for computational imaging. , 2011, , .		0
29	Sparse sampling and enhanced axial resolution in millimeter-wave holographic imaging. , 2010, , .		0
30	Iterative design of moth-eye antireflective surfaces at millimeter wave frequencies. Microwave and Optical Technology Letters, 2010, 52, 561-568.	0.9	5
31	Sparse Fourier Sampling in Millimeter-Wave Compressive Holography. , 2010, , .		4
32	Point spread function engineering as a framework for designing and analyzing computational imaging systems. Proceedings of SPIE, 2010, , .	0.8	0
33	Millimeter-wave compressive holography. Applied Optics, 2010, 49, E67.	2.1	102
34	The Future of Biomedical Content in Applied Optics. Applied Optics, 2010, 49, J1.	2.1	0
35	Identity Crisis: A Message from the Applied Optics Editor. Applied Optics, 2010, 49, BO1.	2.1	1
36	Broadband Antireflective Properties of Inverse Motheye Surfaces. IEEE Transactions on Antennas and Propagation, 2010, 58, 2969-2980.	3.1	42

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37	New Technologies to Enable Millimeter-Wave Imaging. , 2010, , .		0
38	Computational imaging. Proceedings of SPIE, 2009, , .	0.8	0
39	94-GHz Imager With Extended Depth of Field. IEEE Transactions on Antennas and Propagation, 2009, 57, 1713-1719.	3.1	17
40	The Army Research Laboratory's program on micro-autonomous systems and technology. Proceedings of SPIE, 2009, , .	0.8	1
41	Micro Autonomous Systems and Technology at the Army Research Laboratory. , 2008, , .		5
42	Scaling analysis of computational imaging systems. , 2008, , .		0
43	Extended depth of field imaging at 94 GHz. , 2008, , .		0
44	A study of loop antenna miniaturization using split ring resonators. , 2007, , .		5
45	Range information from rotating beam patterns: Beam synthesis and range detection. , 2007, , .		1
46	Synthesis and implementation of 3-D wavefields for ranging applications. , 2007, , .		1
47	A History of Imaging: Revisiting the Past to Chart the Future. Optics and Photonics News, 2006, 17, 22.	0.4	9
48	Computation Imaging: Old Wine in New Bottles?. , 2006, , FWH2.		1
49	<title>A new vision of imaging from a historical perspective</title>. , 2006, 6254, 306.		0
50	Imaging with singular electromagnetic beam. , 2006, , .		0
51	Range detection through the atmosphere using Laguerre-Gaussian beams. , 2006, , .		2
52	Diffractive Generation of Non-Redundant Images for a Multi-Aperture, Thin, High-Resolution Camera. , 2005, , .		2
53	Design of two-dimensional polarization-selective diffractive optical elements with form-birefringent microstructures. Applied Optics, 2004, 43, 5947.	2.1	15
54	Evolutionary paths in imaging and recent trends. Optics Express, 2003, 11, 2093.	1.7	52

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55	Subwavelength Diffractive Optical Elements. , 2002, , 79-99.		3
56	<title>Design of a diffractive anti-aliasing filter using information density</title>. , 2002, 4736, 107.		1
57	Design of Two-Dimensional Polarization Selective Computer Generated Holograms using Form-Birefringence. , 2002, , DThA4.		0
58	<title>From ink bottles to e-beams: a historical perspective on diffractive optic technology</title>. , 2001, 4392, 75.		1
59	An opto-electronic multi-chip module for chip-level optical interconnects. , 2001, , .		0
60	Three-dimensional analysis of subwavelength diffractive optical elements with the finite-difference time-domain method. Applied Optics, 2000, 39, 2871.	2.1	33
61	Diffractive lens fabricated with binary features less than 60 nm. Optics Letters, 2000, 25, 381.	1.7	55
62	Subwavelength Diffractive Design. , 2000, , .		4
63	Design of binary subwavelength diffractive lenses by use of zeroth-order effective-medium theory. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1157.	0.8	42
64	Diffractive optics and micro-optics: introduction to the feature issue. Applied Optics, 1999, 38, 2977.	2.1	3
65	Design and analysis of a diffractive optical filter for use in an optoelectronic error-diffusion neural network. Applied Optics, 1999, 38, 3077.	2.1	4
66	Binary subwavelength diffractive-lens design. Optics Letters, 1998, 23, 1343.	1.7	30
67	DIFFRACTIVE BEAUTY. Optics and Photonics News, 1998, 9, 21.	0.4	6
68	Vector-based synthesis of finite aperiodic subwavelength diffractive optical elements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 1599.	0.8	56
69	Experimental study of surface-plasmon scattering by individual surface defects. Physical Review B, 1997, 56, 1601-1611.	1.1	97
70	Boundary integral methods applied to the analysis of diffractive optical elements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 34.	0.8	126
71	A hybrid finite element-boundary element method for the analysis of diffractive elements. Journal of Modern Optics, 1996, 43, 1309-1321.	0.6	33
72	A hybrid finite element-boundary element method for the analysis of diffractive elements. Journal of Modern Optics, 1996, 43, 1309-1321.	0.6	1

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73	Understanding diffractive optic design in the scalar domain. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 2145.	0.8	108
74	Incoherent optical image processing with acousto-optic pupil-plane filtering. Applied Optics, 1995, 34, 276.	2.1	12
75	Kinoform-based Nipkow disk for a confocal microscope. Applied Optics, 1995, 34, 5695.	2.1	14
76	Design and rigorous analysis of high-efficiency array generators. Applied Optics, 1993, 32, 2599.	2.1	30
77	Performance analysis of optical shadow-casting correlators. Applied Optics, 1993, 32, 3108.	2.1	11
78	Thermal properties of diffractive optical elements and design of hybrid athermalized lenses. Proceedings of SPIE, 1993, , .	0.8	0
79	Upper bound on the diffraction efficiency of phase-only fanout elements. Applied Optics, 1992, 31, 27.	2.1	67
80	Acousto-optic processing with electronic image feedback for morphological filtering. Applied Optics, 1992, 31, 5688.	2.1	16
81	Crossed Bragg cell implementation of a Fourier-plane filter for optical image correlators. Applied Optics, 1992, 31, 6820.	2.1	5
82	Incoherent pattern recognition with phase-only filters. Optics Letters, 1992, 17, 1703.	1.7	12
83	Optical morphological image processing with acoustooptic devices. Optics Communications, 1992, 87, 99-104.	1.0	11
84	Acousto-optic generation of two-dimensional spot arrays. Optics Letters, 1991, 16, 1720.	1.7	11
85	Designs for two-dimensional nonseparable array generators. , 1991, , .		5
86	Computer-Generated Hologram Design For A Magneto-Optic Spatial Light Modulator. Proceedings of SPIE, 1990, , .	0.8	0
87	Review of multiphase Fourier grating design for array generation. , 1990, , .		2
88	Design of binary-phase and multiphase Fourier gratings for array generation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 1514.	0.8	84
89	Pupil function design algorithm for bipolar incoherent spatial filtering. Applied Optics, 1989, 28, 1474.	2.1	10
90	Computer-generated holograms by means of a magneto-optic spatial light modulator. Applied Optics, 1989, 28, 4879.	2.1	13

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91	Modulation transfer function technique for real time radiosopic system characterization. Applied Optics, 1989, 28, 5002.	2.1	5
92	Design of Dammann gratings for two-dimensional, nonseparable, noncentrosymmetric responses. Optics Letters, 1989, 14, 196.	1.7	43
93	Necessary and sufficient conditions for bipolar incoherent spatial filtering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 147.	0.8	3
94	Extensions To Dammann's Method Of Binary-Phase Grating Design. Proceedings of SPIE, 1989, 1052, 41.	0.8	1
95	Design Of Dammann Gratings For Optical Symbolic Substitution. Proceedings of SPIE, 1989, 0963, 646.	0.8	0
96	Optical symbolic substitution: system design using phase-only holograms. Applied Optics, 1988, 27, 1692.	2.1	46
97	Pupil-function design for complex incoherent spatial filtering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 1185.	0.8	12
98	Dual-phase holograms: improved design. Applied Optics, 1987, 26, 4883.	2.1	7
99	Existence conditions for two-pupil synthesis of bipolar incoherent point-spread functions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 437.	0.8	7
100	Pupil-function design for bipolar incoherent spatial filtering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 1826.	0.8	13
101	Two-pupil synthesis of optical transfer functions: 2: Pupil function relationships. Applied Optics, 1986, 25, 2003.	2.1	12
102	<title>Iterative Design Of Pupil Functions For Bipolar Incoherent Spatial Filtering</title>. , 1981, 0292, 66.		1