

Tomas Tyc

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,501
citations

304368

22
h-index

197535

49
g-index

89
all docs

89
docs citations

89
times ranked

1770
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Invisibility by Non-Euclidean Cloaking. <i>Science</i> , 2009, 323, 110-112.	6.0	463
2	Seeing through chaos in multimode fibres. <i>Nature Photonics</i> , 2015, 9, 529-535.	15.6	406
3	An omnidirectional retroreflector based on the transmutation of dielectric singularities. <i>Nature Materials</i> , 2009, 8, 639-642.	13.3	180
4	Continuous-variable quantum-state sharing via quantum disentanglement. <i>Physical Review A</i> , 2005, 71, .	1.0	102
5	How to share a continuous-variable quantum secret by optical interferometry. <i>Physical Review A</i> , 2002, 65, .	1.0	101
6	Spherical media and geodesic lenses in geometrical optics. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 075705.	1.0	101
7	Robustness of Light-Transport Processes to Bending Deformations in Graded-Index Multimode Waveguides. <i>Physical Review Letters</i> , 2018, 120, 233901.	2.9	86
8	Transmutation of singularities in optical instruments. <i>New Journal of Physics</i> , 2008, 10, 115038.	1.2	76
9	Memory effect assisted imaging through multimode optical fibres. <i>Nature Communications</i> , 2021, 12, 3751.	5.8	58
10	Absolute instruments and perfect imaging in geometrical optics. <i>New Journal of Physics</i> , 2011, 13, 115004.	1.2	55
11	Controlling birefringence in dielectrics. <i>Nature Photonics</i> , 2011, 5, 357-359.	15.6	52
12	Continuous variable (2, 3) threshold quantum secret sharing schemes. <i>New Journal of Physics</i> , 2003, 5, 4-4.	1.2	46
13	Invisibility cloaking without superluminal propagation. <i>New Journal of Physics</i> , 2011, 13, 083007.	1.2	46
14	Perfect lenses in focus. <i>Nature</i> , 2011, 480, 42-43.	13.7	46
15	Evidence for subwavelength imaging with positive refraction. <i>New Journal of Physics</i> , 2011, 13, 033016.	1.2	43
16	Conformal cloak for waves. <i>Physical Review A</i> , 2011, 83, .	1.0	42
17	Gaussian Quantum Marginal Problem. <i>Communications in Mathematical Physics</i> , 2008, 280, 263-280.	1.0	32
18	Dr TIM: Ray-tracer TIM, with additional specialist scientific capabilities. <i>Computer Physics Communications</i> , 2014, 185, 1027-1037.	3.0	27

#	ARTICLE	IF	CITATIONS
19	Playing the tricks of numbers of light sources. <i>New Journal of Physics</i> , 2013, 15, 093034.	1.2	26
20	Efficient sharing of a continuous-variable quantum secret. <i>Journal of Physics A</i> , 2003, 36, 7625-7637.	1.6	24
21	Double-layer geodesic and gradient-index lenses. <i>Nature Communications</i> , 2022, 13, 2354.	5.8	24
22	Gouy phase for full-aperture spherical and cylindrical waves. <i>Optics Letters</i> , 2012, 37, 924.	1.7	23
23	Wide-Angle Ceramic Retroreflective Luneburg Lens Based on Quasi-Conformal Transformation Optics for Mm-Wave Indoor Localization. <i>IEEE Access</i> , 2022, 10, 41097-41111.	2.6	23
24	Highly non-Gaussian states created via cross-Kerr nonlinearity. <i>New Journal of Physics</i> , 2008, 10, 023041.	1.2	22
25	Light rays and waves on geodesic lenses. <i>Photonics Research</i> , 2019, 7, 1266.	3.4	21
26	Perfect conformal invisible device with feasible refractive indexes. <i>Physical Review B</i> , 2016, 93, .	1.1	20
27	Controlling refractive index of transformation-optics devices via optical path rescaling. <i>Scientific Reports</i> , 2019, 9, 18412.	1.6	20
28	Non-Euclidean Cloaking for Light Waves. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 418-426.	1.9	19
29	Superantenna made of transformation media. <i>New Journal of Physics</i> , 2008, 10, 115026.	1.2	18
30	Invisible lenses with positive isotropic refractive index. <i>Physical Review A</i> , 2014, 90, .	1.0	16
31	Generalized laws of refraction that can lead to wave-optically forbidden light-ray fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 1407.	0.8	15
32	Omnidirectional transformation-optics cloak made from lenses and glenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1032.	0.8	15
33	Resolution of Maxwell's fisheye with an optimal active drain. <i>New Journal of Physics</i> , 2014, 16, 063001.	1.2	14
34	Ray-optical transformation optics with ideal thin lenses makes omnidirectional lenses. <i>Optics Express</i> , 2018, 26, 17872.	1.7	14
35	H-plane horn antenna with enhanced directivity using conformal transformation optics. <i>Scientific Reports</i> , 2021, 11, 14322.	1.6	14
36	Conformal optical devices based on geodesic lenses. <i>Optics Express</i> , 2019, 27, 28722.	1.7	14

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37	The Lissajous lens: a three-dimensional absolute optical instrument without spherical symmetry. <i>Optics Express</i> , 2015, 23, 5716.	1.7	13
38	Direct stigmatic imaging with curved surfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 478.	0.8	12
39	Ray optics of generalized lenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 962.	0.8	12
40	Absolute optical instruments, classical superintegrability, and separability of the Hamilton-Jacobi equation. <i>Physical Review A</i> , 2017, 96, .	1.0	12
41	Inequalities for quantum marginal problems with continuous variables. <i>Journal of Mathematical Physics</i> , 2014, 55, .	0.5	11
42	A simple model explaining super-resolution in absolute optical instruments. <i>New Journal of Physics</i> , 2015, 17, 053007.	1.2	9
43	Influence of modal loss on quantum state generation via cross-Kerr nonlinearity. <i>Physical Review A</i> , 2009, 79, .	1.0	8
44	Magnifying absolute instruments for optically homogeneous regions. <i>Physical Review A</i> , 2011, 84, .	1.0	8
45	Absolute optical instruments without spherical symmetry. <i>Physical Review A</i> , 2015, 92, .	1.0	8
46	Directivity enhancement of a cylindrical wire antenna by a graded index dielectric shell designed using strictly conformal transformation optics. <i>Scientific Reports</i> , 2021, 11, 13035.	1.6	8
47	Ideal-lens cloaks and new cloaking strategies. <i>Optics Express</i> , 2019, 27, 37327.	1.7	8
48	A solution to the complement of the generalized Luneburg lens problem. <i>Communications Physics</i> , 2021, 4, .	2.0	8
49	Electronic-field correlation functions. <i>Physical Review A</i> , 1998, 58, 4967-4971.	1.0	7
50	Quantum marginal problems. <i>European Physical Journal D</i> , 2015, 69, 1.	0.6	7
51	Talbot effect for gratings with diagonal symmetry. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 025604.	1.0	7
52	Frequency spectra of absolute optical instruments. <i>New Journal of Physics</i> , 2012, 14, 085023.	1.2	6
53	Spectra of absolute instruments from the WKB approximation. <i>New Journal of Physics</i> , 2013, 15, 065005.	1.2	6
54	Multi-focal spherical media and geodesic lenses in geometrical optics. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 025604.	1.0	6

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55	Scattering of waves by the invisible lens. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 015601.	1.0	6
56	Optical triangulations of curved spaces. <i>Optica</i> , 2020, 7, 142.	4.8	6
57	METATOYS and optical vortices. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 115704.	1.0	5
58	Photonic crystals composed of Eaton lenses and invisible lenses. <i>Physical Review A</i> , 2017, 95, .	1.0	5
59	Combinations of generalized lenses that satisfy the edge-imaging condition of transformation optics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 305.	0.8	5
60	No Approximate Complex Fermion Coherent States. <i>Foundations of Physics</i> , 2007, 37, 1519-1539.	0.6	3
61	No Approximate Complex Fermion Coherent States. <i>Foundations of Physics</i> , 2007, 37, 1027-1048.	0.6	2
62	Waveguide tapering using Conformal transformation optics for ideal transmission. , 2019, , .		2
63	Correlation functions and spin. <i>Physical Review E</i> , 2000, 62, 4221-4224.	0.8	1
64	Super-antenna. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
65	Visual defects when extending two-dimensional invisible lenses with circular symmetry into the third-dimension. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044013.	1.0	1
66	Experimental demonstration of ray-rotation sheets. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 1160.	0.8	1
67	Design of an Impedance-Matched Horn Antenna with Enhanced Directivity Using Conformal Transformation Optics. , 2020, , .		1
68	Quantum State Sharing with Continuous Variables. , 2007, , 285-303.		1
69	Towards focusing broad band light through a multimode fiber endoscope. , 2019, , .		1
70	Inequalities for electron-field correlation functions. <i>Physical Review A</i> , 2000, 62, .	1.0	0
71	Perfect imaging with positive refraction. , 2010, , .		0
72	Frequency spectra of absolute optical instruments. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
73	About tests of collapse models and Bell inequalities at accelerator facilities. , 2012, , .		0
74	What do forbidden light-ray fields look like. Proceedings of SPIE, 2014, , .	0.8	0
75	Multimode fibres: a pathway towards deep-tissue fluorescence microscopy. Proceedings of SPIE, 2015, , .	0.8	0
76	Untangled modes in multimode fibres for flexible microendoscopy. , 2015, , .		0
77	Progress towards omnidirectional transformation optics with lenses. Proceedings of SPIE, 2016, , .	0.8	0
78	Untangled modes in multimode waveguides. , 2016, , .		0
79	Optical simulation of quantum mechanics on the Möbius strip, Kleinâ€™s bottle and other manifolds, and Talbot effect. New Journal of Physics, 2021, 23, 033003.	1.2	0
80	Transformation optics with lenses. , 2016, , .		0
81	Description of pairs of skew lenses as a single lens. , 2017, , .		0
82	Ideal-lens cloak and omnidirectional lens. , 2017, , .		0
83	Ideal-lens stars. , 2017, , .		0
84	Imaging with pairs of skew lenses. , 2017, , .		0
85	Optical simulation of curved 2D and 3D spaces. , 2018, , .		0
86	Perfect invisibility with ideal lenses. , 2019, , .		0
87	Lens Stars and Platonic Lenses: Connecting Transformation Optics and Kepler Problem. , 2021, , .		0
88	Lens stars and Platonic lenses. Optics Express, 2021, 29, 42055.	1.7	0