

# Tomas Tyc

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

1,811

citations

20

h-index

42

g-index

89

ext. papers

2,214

ext. citations

5.7

avg. IF

5.21

L-index

#	Paper	IF	Citations
69	Wide-Angle Ceramic Retroreflective Luneburg Lens based on Quasi-Conformal Transformation Optics for mm-Wave Indoor Localization. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	2
68	Double-layer geodesic and gradient-index lenses.. <i>Nature Communications</i> , <b>2022</b> , 13, 2354	17.4	0
67	Lens stars and Platonic lenses. <i>Optics Express</i> , <b>2021</b> , 29, 42055	3.3	
66	Optical simulation of quantum mechanics on the Möbius strip, Klein bottle and other manifolds, and Talbot effect. <i>New Journal of Physics</i> , <b>2021</b> , 23, 033003	2.9	
65	Directivity enhancement of a cylindrical wire antenna by a graded index dielectric shell designed using strictly conformal transformation optics. <i>Scientific Reports</i> , <b>2021</b> , 11, 13035	4.9	2
64	Memory effect assisted imaging through multimode optical fibres. <i>Nature Communications</i> , <b>2021</b> , 12, 3751	17.4	16
63	H-plane horn antenna with enhanced directivity using conformal transformation optics. <i>Scientific Reports</i> , <b>2021</b> , 11, 14322	4.9	2
62	A solution to the complement of the generalized Luneburg lens problem. <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	3
61	Optical triangulations of curved spaces. <i>Optica</i> , <b>2020</b> , 7, 142	8.6	1
60	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> , <b>2020</b> , 37, 305-315 <sup>1.8</sup>		2
59	Conformal optical devices based on geodesic lenses. <i>Optics Express</i> , <b>2019</b> , 27, 28722-28733	3.3	9
58	Light rays and waves on geodesic lenses. <i>Photonics Research</i> , <b>2019</b> , 7, 1266	6	12
57	Ideal-lens cloaks and new cloaking strategies. <i>Optics Express</i> , <b>2019</b> , 27, 37327-37336	3.3	1
56	Waveguide tapering using Conformal transformation optics for ideal transmission <b>2019</b> ,		2
55	Controlling refractive index of transformation-optics devices via optical path rescaling. <i>Scientific Reports</i> , <b>2019</b> , 9, 18412	4.9	8
54	Talbot effect for gratings with diagonal symmetry. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 025604	1.7	6
53	Experimental demonstration of ray-rotation sheets. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2018</b> , 35, 1160-1164	1.8	1

52	Ray-optical transformation optics with ideal thin lenses makes omnidirectional lenses. <i>Optics Express</i> , <b>2018</b> , 26, 17872-17888	3.3	6
51	Robustness of Light-Transport Processes to Bending Deformations in Graded-Index Multimode Waveguides. <i>Physical Review Letters</i> , <b>2018</b> , 120, 233901	7.4	49
50	Photonic crystals composed of Eaton lenses and invisible lenses. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	4
49	Scattering of waves by the invisible lens. <i>Journal of Optics (United Kingdom)</i> , <b>2017</b> , 19, 015601	1.7	5
48	Absolute optical instruments, classical superintegrability, and separability of the Hamilton-Jacobi equation. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	10
47	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> , <b>2016</b> , 33, 1032-40	1.8	8
46	Perfect conformal invisible device with feasible refractive indexes. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	17
45	Visual defects when extending two-dimensional invisible lenses with circular symmetry into the third-dimension. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 044013	1.7	0
44	Ray optics of generalized lenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2016</b> , 33, 962-9	1.8	7
43	Seeing through chaos in multimode fibres. <i>Nature Photonics</i> , <b>2015</b> , 9, 529-535	33.9	237
42	A simple model explaining super-resolution in absolute optical instruments. <i>New Journal of Physics</i> , <b>2015</b> , 17, 053007	2.9	7
41	The Lissajous lens: a three-dimensional absolute optical instrument without spherical symmetry. <i>Optics Express</i> , <b>2015</b> , 23, 5716-22	3.3	10
40	Quantum marginal problems. <i>European Physical Journal D</i> , <b>2015</b> , 69, 1	1.3	4
39	Absolute optical instruments without spherical symmetry. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	7
38	Direct stigmatic imaging with curved surfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2015</b> , 32, 478-81	1.8	9
37	Dr TIM: Ray-tracer TIM, with additional specialist scientific capabilities. <i>Computer Physics Communications</i> , <b>2014</b> , 185, 1027-1037	4.2	10
36	Invisible lenses with positive isotropic refractive index. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	14
35	Resolution of Maxwell's fisheye with an optimal active drain. <i>New Journal of Physics</i> , <b>2014</b> , 16, 063001	2.9	11

34	Inequalities for quantum marginal problems with continuous variables. <i>Journal of Mathematical Physics</i> , <b>2014</b> , 55, 062201	1.2	8
33	Invisibility, Perfect Imaging and More [Where Optics Meets Magic <b>2014</b> , 17-22		
32	Playing the tricks of numbers of light sources. <i>New Journal of Physics</i> , <b>2013</b> , 15, 093034	2.9	21
31	Spectra of absolute instruments from the WKB approximation. <i>New Journal of Physics</i> , <b>2013</b> , 15, 065005	2.9	6
30	Multi-focal spherical media and geodesic lenses in geometrical optics. <i>Journal of Optics (United Kingdom)</i> , <b>2013</b> , 15, 125716	1.7	6
29	Spherical media and geodesic lenses in geometrical optics. <i>Journal of Optics (United Kingdom)</i> , <b>2012</b> , 14, 075705	1.7	75
28	Frequency spectra of absolute optical instruments. <i>New Journal of Physics</i> , <b>2012</b> , 14, 085023	2.9	4
27	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> , <b>2012</b> , 29, 1407-11	1.8	10
26	Gouy phase for full-aperture spherical and cylindrical waves. <i>Optics Letters</i> , <b>2012</b> , 37, 924-6	3	20
25	Controlling birefringence in dielectrics. <i>Nature Photonics</i> , <b>2011</b> , 5, 357-359	33.9	40
24	Forum Optics: Perfect lenses in focus. <i>Nature</i> , <b>2011</b> , 480, 42-3	50.4	36
23	Invisibility cloaking without superluminal propagation. <i>New Journal of Physics</i> , <b>2011</b> , 13, 083007	2.9	41
22	Magnifying absolute instruments for optically homogeneous regions. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	7
21	Conformal cloak for waves. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	35
20	Evidence for subwavelength imaging with positive refraction. <i>New Journal of Physics</i> , <b>2011</b> , 13, 033016	2.9	32
19	METATOYs and optical vortices. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 115704	1.7	4
18	Absolute instruments and perfect imaging in geometrical optics. <i>New Journal of Physics</i> , <b>2011</b> , 13, 115004	2.9	41
17	Non-Euclidean Cloaking for Light Waves. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 418-426	3.8	18

16	Influence of modal loss on quantum state generation via cross-Kerr nonlinearity. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	6
15	An omnidirectional retroreflector based on the transmutation of dielectric singularities. <i>Nature Materials</i> , <b>2009</b> , 8, 639-42	27	161
14	Broadband invisibility by non-Euclidean cloaking. <i>Science</i> , <b>2009</b> , 323, 110-2	33.3	369
13	Transmutation of singularities in optical instruments. <i>New Journal of Physics</i> , <b>2008</b> , 10, 115038	2.9	67
12	Highly non-Gaussian states created via cross-Kerr nonlinearity. <i>New Journal of Physics</i> , <b>2008</b> , 10, 023041	2.9	20
11	Superantenna made of transformation media. <i>New Journal of Physics</i> , <b>2008</b> , 10, 115026	2.9	17
10	Gaussian Quantum Marginal Problem. <i>Communications in Mathematical Physics</i> , <b>2008</b> , 280, 263-280	2	26
9	No Approximate Complex Fermion Coherent States. <i>Foundations of Physics</i> , <b>2007</b> , 37, 1519-1539	1.2	3
8	No Approximate Complex Fermion Coherent States. <i>Foundations of Physics</i> , <b>2007</b> , 37, 1027-1048	1.2	2
7	Quantum State Sharing with Continuous Variables <b>2007</b> , 285-303		0
6	Continuous-variable quantum-state sharing via quantum disentanglement. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	97
5	Continuous variable (2, 3) threshold quantum secret sharing schemes. <i>New Journal of Physics</i> , <b>2003</b> , 5, 4-4	2.9	38
4	Efficient sharing of a continuous-variable quantum secret. <i>Journal of Physics A</i> , <b>2003</b> , 36, 7625-7637		21
3	How to share a continuous-variable quantum secret by optical interferometry. <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	90
2	Correlation functions and spin. <i>Physical Review E</i> , <b>2000</b> , 62, 4221-4	2.4	1
1	Electronic-field correlation functions. <i>Physical Review A</i> , <b>1998</b> , 58, 4967-4971	2.6	6