

# Tiancheng Han

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,822  
citations

236612

25  
h-index

243296

44  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Demonstration of a Bilayer Thermal Cloak. <i>Physical Review Letters</i> , 2014, 112, 054302.	2.9	456
2	Full Control and Manipulation of Heat Signatures: Cloaking, Camouflage and Thermal Metamaterials. <i>Advanced Materials</i> , 2014, 26, 1731-1734.	11.1	362
3	Transforming heat transfer with thermal metamaterials and devices. <i>Nature Reviews Materials</i> , 2021, 6, 488-507.	23.3	270
4	Homogeneous Thermal Cloak with Constant Conductivity and Tunable Heat Localization. <i>Scientific Reports</i> , 2013, 3, 1593.	1.6	190
5	Ultra-broadband infrared metasurface absorber. <i>Optics Express</i> , 2016, 24, 20586.	1.7	169
6	Ultra-broadband wide-angle linear polarization converter based on H-shaped metasurface. <i>Optics Express</i> , 2018, 26, 20913.	1.7	122
7	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. <i>Energy and Environmental Science</i> , 2013, 6, 3537.	15.6	121
8	Ultra-broadband linear polarization converter based on anisotropic metasurface. <i>Optics Express</i> , 2018, 26, 26235.	1.7	110
9	Creation of Ghost Illusions Using Wave Dynamics in Metamaterials. <i>Advanced Functional Materials</i> , 2013, 23, 4028-4034.	7.8	106
10	Full-Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. <i>Advanced Materials</i> , 2018, 30, e1804019.	11.1	87
11	Broadband All-Dielectric Magnifying Lens for Far-Field High-Resolution Imaging. <i>Advanced Materials</i> , 2013, 25, 6963-6968.	11.1	85
12	Manipulating DC Currents with Bilayer Bulk Natural Materials. <i>Advanced Materials</i> , 2014, 26, 3478-3483.	11.1	68
13	Manipulating Steady Heat Conduction by Sensu-shaped Thermal Metamaterials. <i>Scientific Reports</i> , 2015, 5, 10242.	1.6	65
14	Transformation Laplacian metamaterials: recent advances in manipulating thermal and dc fields. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044003.	1.0	51
15	Adaptive waveguide bends with homogeneous, nonmagnetic, and isotropic materials. <i>Optics Letters</i> , 2011, 36, 181.	1.7	46
16	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. <i>Optics Letters</i> , 2014, 39, 630.	1.7	41
17	Arbitrarily polygonal transient thermal cloaks with natural bulk materials in bilayer configurations. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1-5.	2.5	40
18	Experimental demonstration of irregular thermal carpet cloaks with natural bulk material. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 487-490.	2.5	35

#	ARTICLE	IF	CITATIONS
19	AN ULTRA-THIN WIDEBAND REFLECTION REDUCTION METASURFACE BASED ON POLARIZATION CONVERSION. Progress in Electromagnetics Research, 2022, 173, 1-8.	1.6	32
20	Isotropic nonmagnetic flat cloaks degenerated from homogeneous anisotropic trapeziform cloaks. Optics Express, 2010, 18, 13038.	1.7	31
21	Distributed external cloak without embedded antiobjects. Optics Letters, 2010, 35, 2642.	1.7	29
22	External cloak with homogeneous material. Journal Physics D: Applied Physics, 2009, 42, 235403.	1.3	27
23	An arbitrarily shaped cloak with nonsingular and homogeneous parameters designed using a twofold transformation. Journal of Optics (United Kingdom), 2010, 12, 095103.	1.0	27
24	Homogeneous and isotropic bends to tunnel waves through multiple different/equal waveguides along arbitrary directions. Optics Express, 2011, 19, 13020.	1.7	26
25	Shaping 3D Path of Electromagnetic Waves Using Gradientâ€Refractiveâ€Index Metamaterials. Advanced Science, 2016, 3, 1600022.	5.6	26
26	Pathâ€Dependent Thermal Metadevice beyond Janus Functionalities. Advanced Materials, 2021, 33, e2003084.	11.1	26
27	Experimental demonstration of an ultra-thin radar-infrared bi-stealth rasorber. Optics Express, 2021, 29, 8872.	1.7	21
28	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. Laser and Photonics Reviews, 2014, 8, 743-749.	4.4	19
29	Electromagnetic wave rotators with homogeneous, nonmagnetic, and isotropic materials. Optics Letters, 2014, 39, 3698.	1.7	17
30	Creating Rigorous Open Cloaks. Journal of Electromagnetic Waves and Applications, 2010, 24, 1839-1847.	1.0	16
31	The general two-dimensional open-closed cloak with tunable inherent discontinuity and directional communication. Applied Physics Letters, 2010, 97, 124104.	1.5	13
32	THREE-DIMENSIONAL THERMAL CLOAK WITH HOMOGENEOUS AND NONSINGULAR CONDUCTIVE MATERIALS. Progress in Electromagnetics Research, 2013, 143, 131-141.	1.6	13
33	Photorealistic rendering of a graded negative-index metamaterial magnifier. New Journal of Physics, 2012, 14, 033024.	1.2	12
34	The Petal-Shaped Cloak. Journal of Electromagnetic Waves and Applications, 2009, 23, 2055-2062.	1.0	11
35	Monolayer thermal meta-device with switching functions. International Journal of Heat and Mass Transfer, 2022, 186, 122498.	2.5	9
36	Open Cloaks Via Embedded Optical Transformation. IEEE Microwave and Wireless Components Letters, 2010, 20, 64-66.	2.0	8

#	ARTICLE	IF	CITATIONS
37	ULTRA-BROADBAND ABSORPTION WITH GRADIENT PYRAMIDAL METAMATERIALS. Progress in Electromagnetics Research C, 2017, 78, 217-224.	0.6	6
38	Gain-assisted transformation optics. Optics Express, 2011, 19, 8610.	1.7	5
39	TRANSFORMATION-BASED FLEXIBLE THERMAL HOSE WITH HOMOGENEOUS CONDUCTORS IN BILAYER CONFIGURATIONS. Progress in Electromagnetics Research Letters, 2016, 59, 137-143.	0.4	5
40	Thermal Cloak: Theory, Experiment and Application. Materials, 2021, 14, 7835.	1.3	5
41	Phase-preserved optical elevator. Optics Express, 2013, 21, 6650.	1.7	4
42	Light-programmable manipulation of DC field in Laplacian Meta-devices. Scientific Reports, 2018, 8, 12208.	1.6	4
43	Ellipsoidal cloak for inhomogeneous medium. , 2010, , .		2
44	All-Dielectric Tapered Waveguide Bender with Homogeneous Loading, Arbitrary Bending and Simplified Geometry. Journal of Electromagnetic Waves and Applications, 2012, 26, 729-736.	1.0	2
45	Ultra-broadband infrared metasurface absorber: reply. Optics Express, 2019, 27, 5351.	1.7	2
46	A novel transformation for exploring open cloaks. , 2010, , .		0
47	Gradient magnifier lens with homogeneous isotropic dielectrics for subwavelength super-imaging. , 2012, , .		0
48	Planar hyperlens with homogeneous parameters based on linear optical transformation. Europhysics Letters, 2014, 107, 34002.	0.7	0
49	Simplified superscatterers with homogeneous and isotropic anti-vacuum materials. , 2015, , .		0