

# Tiancheng Han

## List of Publications by Year in Descending Order

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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.

43  
papers

2,050  
citations

22  
h-index

45  
g-index

50  
ext. papers

2,498  
ext. citations

8.2  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
43	Monolayer thermal meta-device with switching functions. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 186, 122498	4.9	0
42	Transforming heat transfer with thermal metamaterials and devices. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 488-507	73.3	68
41	Experimental demonstration of an ultra-thin radar-infrared bi-stealth absorber. <i>Optics Express</i> , <b>2021</b> , 29, 8872-8879	3.3	6
40	Path-Dependent Thermal Metadevice beyond Janus Functionalities. <i>Advanced Materials</i> , <b>2021</b> , 33, e2003184	10.4	6
39	Experimental demonstration of irregular thermal carpet cloaks with natural bulk material. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 141, 487-490	4.9	21
38	Ultra-broadband infrared metasurface absorber: reply. <i>Optics Express</i> , <b>2019</b> , 27, 5351-5352	3.3	1
37	Light-programmable manipulation of DC field in Laplacian Meta-devices. <i>Scientific Reports</i> , <b>2018</b> , 8, 12208.9	4.9	4
36	Ultra-broadband wide-angle linear polarization converter based on H-shaped metasurface. <i>Optics Express</i> , <b>2018</b> , 26, 20913-20919	3.3	68
35	Ultra-broadband linear polarization converter based on anisotropic metasurface. <i>Optics Express</i> , <b>2018</b> , 26, 26235-26241	3.3	69
34	Full-Parameter Omnidirectional Thermal Metadevices of Anisotropic Geometry. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804019	24	61
33	ULTRA-BROADBAND ABSORPTION WITH GRADIENT PYRAMIDAL METAMATERIALS. <i>Progress in Electromagnetics Research C</i> , <b>2017</b> , 78, 217-224	0.9	4
32	Arbitrarily polygonal transient thermal cloaks with natural bulk materials in bilayer configurations. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 115, 1-5	4.9	31
31	Ultra-broadband infrared metasurface absorber. <i>Optics Express</i> , <b>2016</b> , 24, 20586-92	3.3	127
30	TRANSFORMATION-BASED FLEXIBLE THERMAL HOSE WITH HOMOGENEOUS CONDUCTORS IN BILAYER CONFIGURATIONS. <i>Progress in Electromagnetics Research Letters</i> , <b>2016</b> , 59, 137-143	0.5	5
29	Transformation Laplacian metamaterials: recent advances in manipulating thermal and dc fields. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 044003	1.7	36
28	Shaping 3D Path of Electromagnetic Waves Using Gradient-Refractive-Index Metamaterials. <i>Advanced Science</i> , <b>2016</b> , 3, 1600022	13.6	17
27	Manipulating Steady Heat Conduction by Sensu-shaped Thermal Metamaterials. <i>Scientific Reports</i> , <b>2015</b> , 5, 10242	4.9	50

26	Full control and manipulation of heat signatures: cloaking, camouflage and thermal metamaterials. <i>Advanced Materials</i> , <b>2014</b> , 26, 1731-4	24	262
25	Experimental demonstration of a bilayer thermal cloak. <i>Physical Review Letters</i> , <b>2014</b> , 112, 054302	7.4	362
24	Electromagnetic wave rotators with homogeneous, nonmagnetic, and isotropic materials. <i>Optics Letters</i> , <b>2014</b> , 39, 3698-701	3	16
23	Three-dimensional visible-light capsule enclosing perfect supersized darkness via antiresolution. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 743-749	8.3	15
22	Manipulating DC currents with bilayer bulk natural materials. <i>Advanced Materials</i> , <b>2014</b> , 26, 3478-83	24	53
21	Planar hyperlens with homogeneous parameters based on linear optical transformation. <i>Europhysics Letters</i> , <b>2014</b> , 107, 34002	1.6	
20	Creation of vectorial bottle-hollow beam using radially or azimuthally polarized light. <i>Optics Letters</i> , <b>2014</b> , 39, 630-3	3	36
19	Theoretical realization of an ultra-efficient thermal-energy harvesting cell made of natural materials. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3537	35.4	99
18	Creation of Ghost Illusions Using Wave Dynamics in Metamaterials. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4028-4034	15.6	89
17	THREE-DIMENSIONAL THERMAL CLOAK WITH HOMOGENEOUS AND NONSINGULAR CONDUCTIVE MATERIALS. <i>Progress in Electromagnetics Research</i> , <b>2013</b> , 143, 131-141	3.8	11
16	Phase-preserved optical elevator. <i>Optics Express</i> , <b>2013</b> , 21, 6650-7	3.3	4
15	Broadband all-dielectric magnifying lens for far-field high-resolution imaging. <i>Advanced Materials</i> , <b>2013</b> , 25, 6963-8	24	66
14	Homogeneous thermal cloak with constant conductivity and tunable heat localization. <i>Scientific Reports</i> , <b>2013</b> , 3, 1593	4.9	161
13	Photorealistic rendering of a graded negative-index metamaterial magnifier. <i>New Journal of Physics</i> , <b>2012</b> , 14, 033024	2.9	11
12	All-Dielectric Tapered Waveguide Bender with Homogeneous Loading, Arbitrary Bending and Simplified Geometry. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2012</b> , 26, 729-736	1.3	2
11	Gain-assisted transformation optics. <i>Optics Express</i> , <b>2011</b> , 19, 8610-5	3.3	5
10	Homogeneous and isotropic bends to tunnel waves through multiple different/equal waveguides along arbitrary directions. <i>Optics Express</i> , <b>2011</b> , 19, 13020-30	3.3	26
9	Adaptive waveguide bends with homogeneous, nonmagnetic, and isotropic materials. <i>Optics Letters</i> , <b>2011</b> , 36, 181-3	3	44

8	The general two-dimensional open-closed cloak with tunable inherent discontinuity and directional communication. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 124104	3-4	13
7	An arbitrarily shaped cloak with nonsingular and homogeneous parameters designed using a twofold transformation. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 095103	1-7	22
6	Isotropic nonmagnetic flat cloaks degenerated from homogeneous anisotropic trapeziform cloaks. <i>Optics Express</i> , <b>2010</b> , 18, 13038-43	3-3	23
5	Distributed external cloak without embedded antiobjects. <i>Optics Letters</i> , <b>2010</b> , 35, 2642-4	3	26
4	Open Cloaks Via Embedded Optical Transformation. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2010</b> , 20, 64-66	2-6	6
3	Creating Rigorous Open Cloaks. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2010</b> , 24, 1839-1847	1-3	13
2	The Petal-Shaped Cloak. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2009</b> , 23, 2055-2062	1-3	7
1	External cloak with homogeneous material. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 235403	3	23