



Hongsheng Chen

Professor of Electromagnetics Academy,
Zhejiang University

metamaterials

cloak

transformation optics

graphene

GET MY OWN PROFILE

	All	Since 2013
Citations	7511	4099
h-index	45	35
i10-index	132	105

TITLE	CITED BY	YEAR
Electromagnetic wave interactions with a metamaterial cloak H Chen, BI Wu, B Zhang, JA Kong Physical Review Letters 99 (6), 063903	523	2007
Left-handed materials composed of only S-shaped resonators H Chen, L Ran, J Huangfu, X Zhang, K Chen, TM Grzegorzczuk, JA Kong Physical Review E 70 (5), 057605	492	2004
Experimental observation of left-handed behavior in an array of standard dielectric resonators L Peng, L Ran, H Chen, H Zhang, JA Kong, TM Grzegorzczuk Physical review letters 98 (15), 157403	311	2007
Experimental confirmation of negative refractive index of a metamaterial composed of Ω-like metallic patterns J Huangfu, L Ran, H Chen, X Zhang, K Chen, TM Grzegorzczuk, JA Kong Applied Physics Letters 84 (9), 1537-1539	288	2004
Multi-band and polarization insensitive metamaterial absorber L Huang, H Chen Progress In Electromagnetics Research 113, 103-110	168	2011
Metamaterial exhibiting left-handed properties over multiple frequency bands H Chen, L Ran, J Huangfu, X Zhang, K Chen, TM Grzegorzczuk, JA Kong Journal of Applied Physics 96 (9), 5338-5340	142	2004
Response of a cylindrical invisibility cloak to electromagnetic waves B Zhang, H Chen, BI Wu, Y Luo, L Ran, JA Kong Physical Review B 76 (12), 121101	138	2007
Experimental verification of reversed Cherenkov radiation in left-handed metamaterial S Xi, H Chen, T Jiang, L Ran, J Huangfu, BI Wu, JA Kong, M Chen Physical review letters 103 (19), 194801	137	2009
Design and analytical full-wave validation of the invisibility cloaks, concentrators, and field rotators created with a general class of transformations Y Luo, H Chen, J Zhang, L Ran, JA Kong Physical Review B 77 (12), 125127	137	2008
Planar focusing antenna design by using coordinate transformation technology F Kong, BI Wu, JA Kong, J Huangfu, S Xi, H Chen Applied Physics Letters 91 (25), 253509	135	2007

TITLE	CITED BY	YEAR
Extraordinary surface voltage effect in the invisibility cloak with an active device inside B Zhang, H Chen, BI Wu, JA Kong Physical review letters 100 (6), 063904	131	2008
Experimental retrieval of the effective parameters of metamaterials based on a waveguide method H Chen, J Zhang, Y Bai, Y Luo, L Ran, Q Jiang, JA Kong Optics Express 14 (26), 12944-12949	123	2006
Negative refraction of a combined double S-shaped metamaterial H Chen, L Ran, J Huangfu, X Zhang, K Chen, TM Grzegorzczuk, JA Kong Applied Physics Letters 86 (15), 151909	120	2005
Experimental study on several left-handed matamaterials LX Ran, JT Huang-Fu, H Chen, XM Zhang, KS Chen, TM Grzegorzczuk, ... Progress In Electromagnetics Research 51, 249-279	116	2005
Ray-optics cloaking devices for large objects in incoherent natural light H Chen, B Zheng, L Shen, H Wang, X Zhang, NI Zheludev, B Zhang Nature communications 4, 2652	108	2013
Controllable left-handed metamaterial and its application to a steerable antenna H Chen, BI Wu, L Ran, TM Grzegorzczuk, JA Kong Applied physics letters 89 (5), 053509	106	2006
Microwave solid-state left-handed material with a broad bandwidth and an ultralow loss L Ran, J Huangfu, H Chen, Y Li, X Zhang, K Chen, JA Kong Physical Review B 70 (7), 073102	100	2004
Review of electromagnetic theory in left-handed materials H Chen, BI Wu, JA Kong Journal of Electromagnetic Waves and Applications 20 (15), 2137-2151	95	2006
Research progress in reversed Cherenkov radiation in double-negative metamaterials Z Duan, BI Wu, S Xi, H Chen, M Chen Progress in electromagnetics research 90, 75-87	93	2009
One-directional perfect cloak created with homogeneous material S Xi, H Chen, BI Wu, JA Kong IEEE Microwave and Wireless Components Letters 19 (3), 131-133	90	2009