Martin W Mccall

List of Publications by Year
in descending order

34	558	623734	642732
papers	citations	14 h-index	23 g-index

34	34	34	423
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A spacetime cloak, or a history editor. Journal of Optics (United Kingdom), 2011, 13, 024003.	2.2	124
2	Roadmap on transformation optics. Journal of Optics (United Kingdom), 2018, 20, 063001.	2.2	64
3	Four Poynting theorems. European Journal of Physics, 2009, 30, 983-993.	0.6	43
4	Transformation optics and cloaking. Contemporary Physics, 2013, 54, 273-286.	1.8	34
5	Development and assessment of coupled wave theory of axial propagation in thin-film helicoidal bianisotropic media. Part 1: Reflectances and transmittances. Journal of Modern Optics, 2000, 47, 973-991.	1.3	28
6	Cloaks, editors, and bubbles: applications of spacetime transformation theory. Annalen Der Physik, 2014, 526, 51-62.	2.4	25
7	The futures of transformations and metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 10-23.	2.0	21
8	Classical Gravity Does Not Refract Negatively. Physical Review Letters, 2007, 98, 091102.	7.8	19
9	Simple expressions for Bragg reflection from axially excited chiral sculptured thin films. Journal of Modern Optics, 2002, 49, 1525-1535.	1.3	18
10	A covariant theory of negative phase velocity propagation. Metamaterials, 2008, 2, 92-100.	2.2	18
11	Explicit expressions for spectral remittances of axially excited chiral sculptured thin films. Journal of Modern Optics, 2004, 51, 111-127.	1.3	15
12	Transformation devices: Event carpets in space and space-time. Physical Review A, 2014, 89, .	2.5	15
13	On negative refraction in classical vacuum. Journal of Modern Optics, 2007, 54, 119-128.	1.3	14
14	Relativity and mathematical tools: Waves in moving media. American Journal of Physics, 2007, 75, 1134-1140.	0.7	14
15	On spacetime transformation optics: temporal and spatial dispersion. New Journal of Physics, 2016, 18, 123010.	2.9	14
16	Simplified theory of axial propagation through structurally chiral media. Journal of Optics, 2009, 11, 074006.	1.5	12
17	Development and assessment of coupled wave theory of axial propagation in thin-film helicoidal bi-anisotropic media. Part 2: Dichroisms, ellipticity transformation and optical rotation. Journal of Modern Optics, 2001, 48, 143-158.	1.3	10
18	Integrated optical polarization filtrationviasculptured-thin-film technology. Journal of Modern Optics, 2001, 48, 2179-2184.	1.3	9

#	Article	IF	Citations
19	Evaporating Black-Holes, Wormholes, and Vacuum Polarisation: Must they Always Conserve Charge?. Foundations of Physics, 2019, 49, 330-350.	1.3	8
20	Polarization-dependent narrowband spectral filtering by chiral sculptured thin films. Journal of Modern Optics, 2000, 47, 743-755.	1.3	7
21	Maxwellâ€™s (D, H) excitation fields: lessons from permanent magnets. European Journal of Physics, 2019, 40, 025203.	0.6	7
22	Electromagnetism, axions, and topology: A first-order operator approach to constitutive responses provides greater freedom. Physical Review A, 2020, 101, .	2.5	6
23	Coupling of a Surface Grating to a Structurally Chiral Volume Grating. Electromagnetics, 2003, 23, 1-26.	0.7	5
24	On vacuum negative refraction, the effective medium and Sylvester's Inertia Theorem: the resolution of a paradox. Journal of Modern Optics, 2008, 55, 333-340.	1.3	5
25	Generalized transformation design: Metrics, speeds, and diffusion. Wave Motion, 2018, 77, 91-106.	2.0	5
26	Gravitational orbits in one dimension. American Journal of Physics, 2006, 74, 1115-1119.	0.7	4
27	Response of Chiral Sculptured Thin Films to Dipolar Sources. AEU - International Journal of Electronics and Communications, 2003, 57, 23-32.	2.9	3
28	Author's reply to â€˜Response to â€œOn negative refraction in classical vacuumâ€•â€™. Journal of Modern Optics, 2008, 55, 329-332.	1.3	3
29	Temporary Singularities and Axions: An Analytic Solution that Challenges Charge Conservation. Annalen Der Physik, 2021, 533, 2000565.	2.4	3
30	Strong coupling of a surface-relief dielectric grating to a structurally chiral volume grating. Optik, 2005, 116, 311-324.	2.9	2
31	Comment on â€˜What is negative refraction?â€™. Journal of Modern Optics, 2010, 57, 2103-2108.	1.3	1
32	Dispersion in space-time transformation optics. , 2016, , .		1
33	Explicit expressions for spectral remittances of axially excited chiral sculptured thin films. Journal of Modern Optics, 2004, 51, 111-127.	1.3	1
34	On vacuum negative refraction, the effective medium and Sylvester's Inertia Theorem: the resolution of a paradox. Journal of Modern Optics, 2008, 55, 1023-1023.	1.3	0