

Martin W McCall

List of Publications by Year in descending order

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papers

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623734

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34
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34
docs citations

34
times ranked

423
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporary Singularities and Axions: An Analytic Solution that Challenges Charge Conservation. Annalen Der Physik, 2021, 533, 2000565.	2.4	3
2	Electromagnetism, axions, and topology: A first-order operator approach to constitutive responses provides greater freedom. Physical Review A, 2020, 101, .	2.5	6
3	Evaporating Black-Holes, Wormholes, and Vacuum Polarisation: Must they Always Conserve Charge?. Foundations of Physics, 2019, 49, 330-350.	1.3	8
4	Maxwell's ($\langle \mathbf{D}, \mathbf{H} \rangle$) excitation fields: lessons from permanent magnets. European Journal of Physics, 2019, 40, 025203.	0.6	7
5	Generalized transformation design: Metrics, speeds, and diffusion. Wave Motion, 2018, 77, 91-106.	2.0	5
6	Roadmap on transformation optics. Journal of Optics (United Kingdom), 2018, 20, 063001.	2.2	64
7	On spacetime transformation optics: temporal and spatial dispersion. New Journal of Physics, 2016, 18, 123010.	2.9	14
8	Dispersion in space-time transformation optics. , 2016, , .		1
9	The futures of transformations and metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 10-23.	2.0	21
10	Cloaks, editors, and bubbles: applications of spacetime transformation theory. Annalen Der Physik, 2014, 526, 51-62.	2.4	25
11	Transformation devices: Event carpets in space and space-time. Physical Review A, 2014, 89, .	2.5	15
12	Transformation optics and cloaking. Contemporary Physics, 2013, 54, 273-286.	1.8	34
13	A spacetime cloak, or a history editor. Journal of Optics (United Kingdom), 2011, 13, 024003.	2.2	124
14	Comment on "What is negative refraction?". Journal of Modern Optics, 2010, 57, 2103-2108.	1.3	1
15	Simplified theory of axial propagation through structurally chiral media. Journal of Optics, 2009, 11, 074006.	1.5	12
16	Four Poynting theorems. European Journal of Physics, 2009, 30, 983-993.	0.6	43
17	A covariant theory of negative phase velocity propagation. Metamaterials, 2008, 2, 92-100.	2.2	18
18	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

#	ARTICLE	IF	CITATIONS
19	Author's reply to "Response to "On negative refraction in classical vacuum". Journal of Modern Optics, 2008, 55, 329-332.	1.3	3
20	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
21	On negative refraction in classical vacuum. Journal of Modern Optics, 2007, 54, 119-128.	1.3	14
22	Classical Gravity Does Not Refract Negatively. Physical Review Letters, 2007, 98, 091102.	7.8	19
23	Relativity and mathematical tools: Waves in moving media. American Journal of Physics, 2007, 75, 1134-1140.	0.7	14
24	Gravitational orbits in one dimension. American Journal of Physics, 2006, 74, 1115-1119.	0.7	4
25	Strong coupling of a surface-relief dielectric grating to a structurally chiral volume grating. Optik, 2005, 116, 311-324.	2.9	2
26	Explicit expressions for spectral remittances of axially excited chiral sculptured thin films. Journal of Modern Optics, 2004, 51, 111-127.	1.3	15
27	Explicit expressions for spectral remittances of axially excited chiral sculptured thin films. Journal of Modern Optics, 2004, 51, 111-127.	1.3	1
28	Response of Chiral Sculptured Thin Films to Dipolar Sources. AEU - International Journal of Electronics and Communications, 2003, 57, 23-32.	2.9	3
29	Coupling of a Surface Grating to a Structurally Chiral Volume Grating. Electromagnetics, 2003, 23, 1-26.	0.7	5
30	Simple expressions for Bragg reflection from axially excited chiral sculptured thin films. Journal of Modern Optics, 2002, 49, 1525-1535.	1.3	18
31	Integrated optical polarization filtration via sculptured-thin-film technology. Journal of Modern Optics, 2001, 48, 2179-2184.	1.3	9
32	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
33	Polarization-dependent narrowband spectral filtering by chiral sculptured thin films. Journal of Modern Optics, 2000, 47, 743-755.	1.3	7
34	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