

# Simon A R Horsley

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1073331/publications.pdf>

Version: 2024-02-01

43  
papers

1,052  
citations

394421

19  
h-index

414414

32  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-layer geodesic and gradient-index lenses. Nature Communications, 2022, 13, 2354.	12.8	24
2	Zero-refractive-index materials and topological photonics. Nature Physics, 2021, 17, 348-355.	16.7	31
3	All-optical switching of an epsilon-near-zero plasmon resonance in indium tin oxide. Nature Communications, 2021, 12, 1017.	12.8	66
4	Memory effect assisted imaging through multimode optical fibres. Nature Communications, 2021, 12, 3751.	12.8	58
5	Designing the collective non-local responses of metasurfaces. Communications Physics, 2021, 4, .	5.3	12
6	Zero index materials and topological states of light. , 2021, , .		0
7	Spatiotemporal refraction of light in an epsilon-near-zero indium tin oxide layer: frequency shifting effects arising from interfaces. Optica, 2021, 8, 1532.	9.3	14
8	Tunable pseudo-magnetic fields for polaritons in strained metasurfaces. Nature Photonics, 2020, 14, 669-674.	31.4	20
9	Classical antennas, quantum emitters, and densities of optical states. Journal of Optics (United Tj ETQq1 1 0.784314 rgBT / Overlock 10	2.2	44
10	Coupling and confinement of current in thermoacoustic phased arrays. Science Advances, 2020, 6, eabb2752.	10.3	5
11	Indifferent electromagnetic modes: Bound states and topology. Physical Review A, 2019, 100, .	2.5	19
12	Quantum mechanics and Talbot revivals on a tetrahedron. Physical Review A, 2019, 100, .	2.5	2
13	Photonic Hall effect and helical Zitterbewegung in a synthetic Weyl system. Light: Science and Applications, 2019, 8, 49.	16.6	21
14	Origins of All-Optical Generation of Plasmons in Graphene. Scientific Reports, 2019, 9, 3267.	3.3	7
15	Nanoscale Design of the Local Density of Optical States. Nano Letters, 2019, 19, 1613-1617.	9.1	38
16	From transformation optics to topology: local and global methods for material design. , 2019, , .		0
17	Unidirectional wave propagation in media with complex principal axes. Physical Review A, 2018, 97, .	2.5	6
18	Non-locality prevents reflection. Nature Photonics, 2018, 12, 127-128.	31.4	2

#	ARTICLE	IF	CITATIONS
19	Reversal of orbital angular momentum arising from an extreme Doppler shift. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3800-3803.	7.1	35
20	Scattering of accelerated wave packets. Physical Review A, 2018, 97, .	2.5	6
21	A Luneburg lens for spin waves. Applied Physics Letters, 2018, 113, .	3.3	40
22	Topology and the optical Dirac equation. Physical Review A, 2018, 98, .	2.5	55
23	Invisibility cloaking using pseudomagnetic field for photon. Physical Review B, 2017, 95, .	3.2	8
24	Scattering free graded index profiles and the control of electromagnetic fields. , 2017, , .		1
25	Theory of linear spin wave emission from a Bloch domain wall. Physical Review B, 2017, 96, .	3.2	37
26	Perfect Transmission through Disordered Media. Physical Review Letters, 2017, 118, 163201.	7.8	16
27	Controlling electromagnetic waves in a class of invisible materials. , 2017, , .		1
28	Wave propagation in complex coordinates. Journal of Optics (United Kingdom), 2016, 18, 044016.	2.2	38
29	Direct observation of negative-index microwave surface waves. Scientific Reports, 2016, 6, 22018.	3.3	22
30	Fluid mobility over corrugated surfaces in the Stokes regime. Physics of Fluids, 2016, 28, 083101.	4.0	3
31	A class of invisible inhomogeneous media and the control of electromagnetic waves. Physical Review B, 2016, 94, .	3.2	15
32	Reflection of waves from slowly decaying complex permittivity profiles. Physical Review A, 2016, 94, .	2.5	11
33	Transformation optics with pseudomagnetic field. , 2016, , .		0
34	Spatial Kramersâ€“Kronig relations and the reflection of waves. Nature Photonics, 2015, 9, 436-439.	31.4	176
35	Illusions and Cloaks for Surface Waves. Scientific Reports, 2015, 4, 5977.	3.3	11
36	Conformal surface lenses from a bed of nails. , 2014, , .		1

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37	Lenses on curved surfaces. Optics Letters, 2014, 39, 3551.	3.3	49
38	The anti-fish eye cloak for surface wave antennas. , 2014, , .		0
39	Removing singular refractive indices with sculpted surfaces. Scientific Reports, 2014, 4, 4876.	3.3	38
40	Divergence of Casimir stress in inhomogeneous media. Physical Review A, 2013, 87, .	2.5	24
41	Optical Nonreciprocity of Cold Atom Bragg Mirrors in Motion. Physical Review Letters, 2013, 110, 223602.	7.8	84
42	Cutoff dependence of the Casimir force within an inhomogeneous medium. Physical Review A, 2013, 88, .	2.5	8
43	Radiation pressure in stratified moving media. Physical Review A, 2012, 86, .	2.5	1