

# 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	Spatial Kramers-Kronig relations and the reflection of waves. <i>Nature Photonics</i> , 2015, 9, 436-439.	31.4	176
2	Optical Nonreciprocity of Cold Atom Bragg Mirrors in Motion. <i>Physical Review Letters</i> , 2013, 110, 223602.	7.8	84
3	All-optical switching of an epsilon-near-zero plasmon resonance in indium tin oxide. <i>Nature Communications</i> , 2021, 12, 1017.	12.8	66
4	Memory effect assisted imaging through multimode optical fibres. <i>Nature Communications</i> , 2021, 12, 3751.	12.8	58
5	Topology and the optical Dirac equation. <i>Physical Review A</i> , 2018, 98, .	2.5	55
6	Lenses on curved surfaces. <i>Optics Letters</i> , 2014, 39, 3551.	3.3	49
7	Classical antennas, quantum emitters, and densities of optical states. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044016.	2.2	38
8	A Luneburg lens for spin waves. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	40
9	Removing singular refractive indices with sculpted surfaces. <i>Scientific Reports</i> , 2014, 4, 4876.	3.3	38
10	Wave propagation in complex coordinates. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044016.	2.2	38
11	Nanoscale Design of the Local Density of Optical States. <i>Nano Letters</i> , 2019, 19, 1613-1617.	9.1	38
12	Theory of linear spin wave emission from a Bloch domain wall. <i>Physical Review B</i> , 2017, 96, .	3.2	37
13	Reversal of orbital angular momentum arising from an extreme Doppler shift. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3800-3803.	7.1	35
14	Zero-refractive-index materials and topological photonics. <i>Nature Physics</i> , 2021, 17, 348-355.	16.7	31
15	Divergence of Casimir stress in inhomogeneous media. <i>Physical Review A</i> , 2013, 87, .	2.5	24
16	Double-layer geodesic and gradient-index lenses. <i>Nature Communications</i> , 2022, 13, 2354.	12.8	24
17	Direct observation of negative-index microwave surface waves. <i>Scientific Reports</i> , 2016, 6, 22018.	3.3	22
18	Photonic Hall effect and helical Zitterbewegung in a synthetic Weyl system. <i>Light: Science and Applications</i> , 2019, 8, 49.	16.6	21

#	ARTICLE	IF	CITATIONS
19	Tunable pseudo-magnetic fields for polaritons in strained metasurfaces. <i>Nature Photonics</i> , 2020, 14, 669-674.	31.4	20
20	Indifferent electromagnetic modes: Bound states and topology. <i>Physical Review A</i> , 2019, 100, .	2.5	19
21	Perfect Transmission through Disordered Media. <i>Physical Review Letters</i> , 2017, 118, 163201.	7.8	16
22	A class of invisible inhomogeneous media and the control of electromagnetic waves. <i>Physical Review B</i> , 2016, 94, .	3.2	15
23	Spatiotemporal refraction of light in an epsilon-near-zero indium tin oxide layer: frequency shifting effects arising from interfaces. <i>Optica</i> , 2021, 8, 1532.	9.3	14
24	Designing the collective non-local responses of metasurfaces. <i>Communications Physics</i> , 2021, 4, .	5.3	12
25	Illusions and Cloaks for Surface Waves. <i>Scientific Reports</i> , 2015, 4, 5977.	3.3	11
26	Reflection of waves from slowly decaying complex permittivity profiles. <i>Physical Review A</i> , 2016, 94, .	2.5	11
27	Cutoff dependence of the Casimir force within an inhomogeneous medium. <i>Physical Review A</i> , 2013, 88, .	2.5	8
28	Invisibility cloaking using pseudomagnetic field for photon. <i>Physical Review B</i> , 2017, 95, .	3.2	8
29	Origins of All-Optical Generation of Plasmons in Graphene. <i>Scientific Reports</i> , 2019, 9, 3267.	3.3	7
30	Unidirectional wave propagation in media with complex principal axes. <i>Physical Review A</i> , 2018, 97, .	2.5	6
31	Scattering of accelerated wave packets. <i>Physical Review A</i> , 2018, 97, .	2.5	6
32	Coupling and confinement of current in thermoacoustic phased arrays. <i>Science Advances</i> , 2020, 6, eabb2752.	10.3	5
33	Fluid mobility over corrugated surfaces in the Stokes regime. <i>Physics of Fluids</i> , 2016, 28, 083101.	4.0	3
34	Non-locality prevents reflection. <i>Nature Photonics</i> , 2018, 12, 127-128.	31.4	2
35	Quantum mechanics and Talbot revivals on a tetrahedron. <i>Physical Review A</i> , 2019, 100, .	2.5	2
36	Radiation pressure in stratified moving media. <i>Physical Review A</i> , 2012, 86, .	2.5	1

#	ARTICLE	IF	CITATIONS
37	Conformal surface lenses from a bed of nails. , 2014, , .		1
38	Scattering free graded index profiles and the control of electromagnetic fields. , 2017, , .		1
39	Controlling electromagnetic waves in a class of invisible materials. , 2017, , .		1
40	The anti-fish eye cloak for surface wave antennas. , 2014, , .		0
41	Transformation optics with pseudomagnetic field. , 2016, , .		0
42	From transformation optics to topology: local and global methods for material design. , 2019, , .		0
43	Zero index materials and topological states of light. , 2021, , .		0