

# Klaus Halterman

## List of Publications by Year in descending order

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70  
papers

2,365  
citations

172207

29  
h-index

205818

48  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable nonreciprocal optical response and handedness-switching in magnetized spin-orbit coupled graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	10
2	Supercurrent diode effect, spin torques, and robust zero-energy peak in planar half-metallic trilayers. <i>Physical Review B</i> , 2022, 105, .	1.1	35
3	Comparison of optical response from DFT random phase approximation and a low-energy effective model: Strained phosphorene. <i>Physical Review B</i> , 2021, 104, .	1.1	9
4	Strain-engineered widely tunable perfect absorption angle in black phosphorus from first principles. <i>Physical Review B</i> , 2020, 102, .	1.1	23
5	Supergap and subgap enhanced currents in asymmetric $S$ $1$ Josephson junctions. <i>Physical Review B</i> , 2020, 102, .	1.1	5
6	Evolution of pair correlation symmetries and supercurrent reversal in tilted Weyl semimetals. <i>Physical Review B</i> , 2020, 101, .	1.1	24
7	Waveguide modes in Weyl semimetals with tilted dirac cones. <i>Optics Express</i> , 2019, 27, 36164.	1.7	31
8	Half-metallic superconducting triplet spin multivalves. <i>Physical Review B</i> , 2018, 97, .	1.1	41
9	Induced energy gap in finite-sized superconductor/ferromagnet hybrids. <i>Physical Review B</i> , 2018, 98, .	1.1	20
10	Spin transport in half-metallic ferromagnet-superconductor junctions. <i>Physical Review B</i> , 2018, 98, .	1.1	15
11	Epsilon-near-zero response and tunable perfect absorption in Weyl semimetals. <i>Physical Review B</i> , 2018, 98, .	1.1	65
12	Pure odd-frequency superconductivity at the cores of proximity vortices. <i>Physical Review B</i> , 2017, 95, .	1.1	27
13	Dynamical tuning between nearly perfect reflection, absorption, and transmission of light via graphene/dielectric structures. <i>Scientific Reports</i> , 2016, 6, 38141.	1.6	12
14	Half-metallic superconducting triplet spin valve. <i>Physical Review B</i> , 2016, 94, .	1.1	57
15	Graphene-based extremely wide-angle tunable metamaterial absorber. <i>Scientific Reports</i> , 2016, 6, 31225.	1.6	44
16	Josephson currents and spin-transfer torques in ballistic SFSFS nanojunctions. <i>Superconductor Science and Technology</i> , 2016, 29, 055007.	1.8	38
17	Charge and spin currents in ferromagnetic Josephson junctions. <i>Physical Review B</i> , 2015, 92, .	1.1	37
18	Long-range spin-triplet correlations and edge spin currents in diffusive spin-orbit coupled SNS hybrids with a single spin-active interface. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 235301.	0.7	44

#	ARTICLE	IF	CITATIONS
19	Spontaneous edge accumulation of spin currents in finite-size two-dimensional diffusive spin-orbit coupled SFS heterostructures. <i>New Journal of Physics</i> , 2015, 17, 033001.	1.2	53
20	Proximity induced vortices and long-range triplet supercurrents in ferromagnetic Josephson junctions and spin valves. <i>Journal of Applied Physics</i> , 2015, 117, 123906.	1.1	39
21	Zero-energy peak and triplet correlations in nanoscale superconductor/ferromagnet/ferromagnet spin valves. <i>Physical Review B</i> , 2015, 92, .	1.1	58
22	Long-range triplet supercurrents induced by singlet supercurrents parallel to magnetic interfaces. <i>Applied Physics Letters</i> , 2014, 105, 202601.	1.5	6
23	Near-perfect absorption in epsilon-near-zero structures with hyperbolic dispersion. <i>Optics Express</i> , 2014, 22, 7337.	1.7	40
24	Meissner effect probing of odd-frequency triplet pairing in superconducting spin valves. <i>Physical Review B</i> , 2014, 89, .	1.1	41
25	Angular dependence of superconductivity in superconductor/spin-valve heterostructures. <i>Physical Review B</i> , 2014, 89, .	1.1	59
26	Broadband RF response of sine wave gratings. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1982-1984.	0.9	0
27	Tunneling conductance and spin transport in clean ferromagnet/ferromagnet/superconductor heterostructures. <i>Physical Review B</i> , 2014, 90, .	1.1	18
28	Superconducting spintronics with magnetic domain walls. <i>Physical Review B</i> , 2014, 90, .	1.1	29
29	Spin-controlled coexistence of 0 and $\pi$ states in $S/F/S$ junctions. <i>Physical Review B</i> , 2014, 89, .	1.1	33
30	Spin-Controlled Superconductivity and Tunable Triplet Correlations in Graphene Nanostructures. <i>Physical Review Letters</i> , 2013, 111, 046602.	2.9	46
31	Singlet-triplet superconducting quantum magnetometer. <i>Physical Review B</i> , 2013, 88, .	1.1	15
32	Reentrant Superconducting Phase in Conical-Ferromagnet Superconductor Nanostructures. <i>Physical Review Letters</i> , 2012, 108, 117005.	2.9	28
33	Proximity effects in conical-ferromagnet/superconductor bilayers. <i>Physical Review B</i> , 2012, 86, .	1.1	24
34	Coherent perfect absorption in epsilon-near-zero metamaterials. <i>Physical Review B</i> , 2012, 86, .	1.1	197
35	Proximity effects and triplet correlations in ferromagnet/ferromagnet/superconductor nanostructures. <i>Physical Review B</i> , 2012, 86, .	1.1	39
36	Controlled leaky wave radiation from anisotropic epsilon near zero metamaterials. <i>Physical Review B</i> , 2011, 84, .	1.1	27

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37	Characteristic energies, transition temperatures, and switching effects in clean S N S graphene nanostructures. <i>Physical Review B</i> , 2011, 84, .	1.1	9
38	Creating discrete cylindrical vector beams using coherently combined fiber arrays. , 2010, , .		0
39	Angular Dependence of the Superconducting Transition Temperature in Ferromagnet-Superconductor-Ferromagnet Trilayers. <i>Physical Review Letters</i> , 2010, 105, 207002.	2.9	75
40	Mode bifurcation and fold points of complex dispersion curves for the negative index metamaterial Goubau line. <i>Journal of Applied Physics</i> , 2010, 108, 124310.	1.1	4
41	Total Transmission and Total Reflection by Zero Index Metamaterials with Defects. <i>Physical Review Letters</i> , 2010, 105, 233908.	2.9	231
42	Emergence of triplet correlations in superconductor/half-metallic nanojunctions with spin-active interfaces. <i>Physical Review B</i> , 2009, 80, .	1.1	31
43	Discrete cylindrical vector beam generation from an array of optical fibers. <i>Optics Express</i> , 2009, 17, 13982.	1.7	43
44	Cyclic Sommerfeld Resonances in Nanorods at Grazing Incidences. <i>Optics Express</i> , 2009, 17, 19823.	1.7	6
45	Parametrically Shielding Electromagnetic Fields by Nonlinear Metamaterials. <i>Physical Review Letters</i> , 2008, 100, 063901.	2.9	36
46	Induced triplet pairing in clean $s$ -wave superconductor/ferromagnet layered structures. <i>Physical Review B</i> , 2008, 77, .	1.1	77
47	Resonant transmission of electromagnetic fields through subwavelength zero- $\mu$ slits. <i>Physical Review A</i> , 2008, 78, .	1.0	18
48	Thermodynamics and phase diagrams of layered superconductor/ferromagnet nanostructures. <i>Physical Review B</i> , 2007, 75, .	1.1	30
49	Odd Triplet Pairing in Clean Superconductor/Ferromagnet Heterostructures. <i>Physical Review Letters</i> , 2007, 99, 127002.	2.9	110
50	Guided modes of elliptical metamaterial waveguides. <i>Physical Review A</i> , 2007, 76, .	1.0	21
51	Quasi-Phase-Matching with Simultaneously Electronic and Magnetic Nonlinear Response in Metamaterials. , 2007, , .		0
52	Resonances of nanocylinders with gap defects. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2006, 4, 94-102.	1.0	0
53	An iterative method for the numerical solution of integral equations using the method of moments. <i>Microwave and Optical Technology Letters</i> , 2006, 48, 118-121.	0.9	0
54	Subwavelength fractional Talbot effect in layered heterostructures of composite metamaterials. <i>Physical Review E</i> , 2006, 74, 036612.	0.8	6

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55	First-order phase transitions in ferromagnet/superconductor layered structures. Physical Review B, 2006, 73, .	1.1	10
56	Local density of states and order parameter configurations in layered ferromagnet-superconductor structures. Physica C: Superconductivity and Its Applications, 2005, 420, 111-124.	0.6	6
57	Plasmonic resonances and electromagnetic forces between coupled silver nanowires. Physical Review B, 2005, 72, .	1.1	27
58	Nanoscale ferromagnet-superconductor-ferromagnet switches controlled by magnetization orientation. Physical Review B, 2005, 72, .	1.1	25
59	Stability of $\pi$ -junction configurations in ferromagnet-superconductor heterostructures. Physical Review B, 2004, 70, .	1.1	24
60	Layered ferromagnet-superconductor structures: The $s$ -state and proximity effects. Physical Review B, 2004, 69, .	1.1	57
61	Two-phase regime in the magnetic field-temperature phase diagram of a type-II superconductor. Physica C: Superconductivity and Its Applications, 2004, 400, 171-176.	0.6	2
62	Local density of states analysis of surface wave modes on truncated photonic crystal surfaces with nonlinear material. Optics Express, 2004, 12, 4855.	1.7	20
63	Energy gap of ferromagnet-superconductor bilayers. Physica C: Superconductivity and Its Applications, 2003, 397, 151-158.	0.6	9
64	Characteristics of bound modes in coupled dielectric waveguides containing negative index media. Optics Express, 2003, 11, 521.	1.7	24
65	The electronic structure of normal metal-superconductor bilayers. Journal of Physics Condensed Matter, 2003, 15, 5837-5844.	0.7	2
66	Proximity effects and characteristic lengths in ferromagnet-superconductor structures. Physical Review B, 2002, 66, .	1.1	61
67	Proximity effects at ferromagnet-superconductor interfaces. Physical Review B, 2001, 65, .	1.1	92
68	Reanalysis of the magnetic field dependence of the penetration depth: Observation of the nonlinear Meissner effect. Physical Review B, 2001, 63, .	1.1	13
69	Angular dependence of the penetration depth in unconventional superconductors. Physical Review B, 2000, 63, .	1.1	3
70	Nonlinear electrodynamics of $p$ -wave superconductors. Physical Review B, 2000, 62, 5904-5912.	1.1	4