

Klaus Halterman

List of Publications by Year in descending order

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Version: 2024-02-01

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	Total Transmission and Total Reflection by Zero Index Metamaterials with Defects. Physical Review Letters, 2010, 105, 233908.	2.9	231
2	Coherent perfect absorption in epsilon-near-zero metamaterials. Physical Review B, 2012, 86, .	1.1	197
3	Odd Triplet Pairing in Clean Superconductor/Ferromagnet Heterostructures. Physical Review Letters, 2007, 99, 127002.	2.9	110
4	Proximity effects at ferromagnet-superconductor interfaces. Physical Review B, 2001, 65, .	1.1	92
5	Induced triplet pairing in clean s -wave superconductor/ferromagnet layered structures. Physical Review B, 2008, 77, .	1.1	77
6	Angular Dependence of the Superconducting Transition Temperature in Ferromagnet-Superconductor-Ferromagnet Trilayers. Physical Review Letters, 2010, 105, 207002.	2.9	75
7	Epsilon-near-zero response and tunable perfect absorption in Weyl semimetals. Physical Review B, 2018, 98, .	1.1	65
8	Proximity effects and characteristic lengths in ferromagnet-superconductor structures. Physical Review B, 2002, 66, .	1.1	61
9	Angular dependence of superconductivity in superconductor/spin-valve heterostructures. Physical Review B, 2014, 89, .	1.1	59
10	Zero-energy peak and triplet correlations in nanoscale superconductor/ferromagnet/ferromagnet spin valves. Physical Review B, 2015, 92, .	1.1	58
11	Layered ferromagnet-superconductor structures: The d -state and proximity effects. Physical Review B, 2004, 69, .	1.1	57
12	Half-metallic superconducting triplet spin valve. Physical Review B, 2016, 94, .	1.1	57
13	Spontaneous edge accumulation of spin currents in finite-size two-dimensional diffusive spin-orbit coupled SFS heterostructures. New Journal of Physics, 2015, 17, 033001.	1.2	53
14	Spin-Controlled Superconductivity and Tunable Triplet Correlations in Graphene Nanostructures. Physical Review Letters, 2013, 111, 046602.	2.9	46
15	Long-range spin-triplet correlations and edge spin currents in diffusive spin-orbit coupled SNS hybrids with a single spin-active interface. Journal of Physics Condensed Matter, 2015, 27, 235301.	0.7	44
16	Graphene-based extremely wide-angle tunable metamaterial absorber. Scientific Reports, 2016, 6, 31225.	1.6	44
17	Discrete cylindrical vector beam generation from an array of optical fibers. Optics Express, 2009, 17, 13982.	1.7	43
18	Meissner effect probing of odd-frequency triplet pairing in superconducting spin valves. Physical Review B, 2014, 89, .	1.1	41

#	ARTICLE	IF	CITATIONS
19	Half-metallic superconducting triplet spin multivalves. <i>Physical Review B</i> , 2018, 97, .	1.1	41
20	Near-perfect absorption in epsilon-near-zero structures with hyperbolic dispersion. <i>Optics Express</i> , 2014, 22, 7337.	1.7	40
21	Proximity effects and triplet correlations in ferromagnet/ferromagnet/superconductor nanostructures. <i>Physical Review B</i> , 2012, 86, .	1.1	39
22	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
23	Josephson currents and spin-transfer torques in ballistic SFSFS nanojunctions. <i>Superconductor Science and Technology</i> , 2016, 29, 055007.	1.8	38
24	Charge and spin currents in ferromagnetic Josephson junctions. <i>Physical Review B</i> , 2015, 92, .	1.1	37
25	Parametrically Shielding Electromagnetic Fields by Nonlinear Metamaterials. <i>Physical Review Letters</i> , 2008, 100, 063901.	2.9	36
26	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
27	Spin-controlled coexistence of 0 and π states in $S/F/S$ junctions. <i>Physical Review B</i> , 2014, 89, .	1.1	33
28	Emergence of triplet correlations in superconductor/half-metallic nanojunctions with spin-active interfaces. <i>Physical Review B</i> , 2009, 80, .	1.1	31
29	Waveguide modes in Weyl semimetals with tilted dirac cones. <i>Optics Express</i> , 2019, 27, 36164.	1.7	31
30	Thermodynamics and phase diagrams of layered superconductor/ferromagnet nanostructures. <i>Physical Review B</i> , 2007, 75, .	1.1	30
31	Superconducting spintronics with magnetic domain walls. <i>Physical Review B</i> , 2014, 90, .	1.1	29
32	Reentrant Superconducting Phase in Conical-Ferromagnet Superconductor Nanostructures. <i>Physical Review Letters</i> , 2012, 108, 117005.	2.9	28
33	Plasmonic resonances and electromagnetic forces between coupled silver nanowires. <i>Physical Review B</i> , 2005, 72, .	1.1	27
34	Controlled leaky wave radiation from anisotropic epsilon near zero metamaterials. <i>Physical Review B</i> , 2011, 84, .	1.1	27
35	Pure odd-frequency superconductivity at the cores of proximity vortices. <i>Physical Review B</i> , 2017, 95, .	1.1	27
36	Nanoscale ferromagnet-superconductor-ferromagnet switches controlled by magnetization orientation. <i>Physical Review B</i> , 2005, 72, .	1.1	25

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37	Characteristics of bound modes in coupled dielectric waveguides containing negative index media. Optics Express, 2003, 11, 521.	1.7	24
38	Stability of δ -junction configurations in ferromagnet-superconductor heterostructures. Physical Review B, 2004, 70, .	1.1	24
39	Proximity effects in conical-ferromagnet/superconductor bilayers. Physical Review B, 2012, 86, .	1.1	24
40	Evolution of pair correlation symmetries and supercurrent reversal in tilted Weyl semimetals. Physical Review B, 2020, 101, .	1.1	24
41	Strain-engineered widely tunable perfect absorption angle in black phosphorus from first principles. Physical Review B, 2020, 102, .	1.1	23
42	Guided modes of elliptical metamaterial waveguides. Physical Review A, 2007, 76, .	1.0	21
43	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
44	Induced energy gap in finite-sized superconductor/ferromagnet hybrids. Physical Review B, 2018, 98, .	1.1	20
45	Resonant transmission of electromagnetic fields through subwavelength zero- μ slits. Physical Review A, 2008, 78, .	1.0	18
46	Tunneling conductance and spin transport in clean ferromagnet/ferromagnet/superconductor heterostructures. Physical Review B, 2014, 90, .	1.1	18
47	Singlet-triplet superconducting quantum magnetometer. Physical Review B, 2013, 88, .	1.1	15
48	Spin transport in half-metallic ferromagnet-superconductor junctions. Physical Review B, 2018, 98, .	1.1	15
49	Reanalysis of the magnetic field dependence of the penetration depth: Observation of the nonlinear Meissner effect. Physical Review B, 2001, 63, .	1.1	13
50	Dynamical tuning between nearly perfect reflection, absorption, and transmission of light via graphene/dielectric structures. Scientific Reports, 2016, 6, 38141.	1.6	12
51	First-order phase transitions in ferromagnet/superconductor layered structures. Physical Review B, 2006, 73, .	1.1	10
52	Controllable nonreciprocal optical response and handedness-switching in magnetized spin-orbit coupled graphene. Physical Review B, 2022, 105, .	1.1	10
53	Energy gap of ferromagnet-superconductor bilayers. Physica C: Superconductivity and Its Applications, 2003, 397, 151-158.	0.6	9
54	Characteristic energies, transition temperatures, and switching effects in clean S N S graphene nanostructures. Physical Review B, 2011, 84, .	1.1	9

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55	Comparison of optical response from DFT random phase approximation and a low-energy effective model: Strained phosphorene. Physical Review B, 2021, 104, .	1.1	9
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	Subwavelength fractional Talbot effect in layered heterostructures of composite metamaterials. Physical Review E, 2006, 74, 036612.	0.8	6
58	Cyclic Sommerfeld Resonances in Nanorods at Grazing Incidences. Optics Express, 2009, 17, 19823.	1.7	6
59	Long-range triplet supercurrents induced by singlet supercurrents parallel to magnetic interfaces. Applied Physics Letters, 2014, 105, 202601.	1.5	6
60	Supergap and subgap enhanced currents in asymmetric S_1 Josephson junctions. Physical Review B, 2020, 102, .	1.1	5
61	Nonlinear electrodynamic of p-wave superconductors. Physical Review B, 2000, 62, 5904-5912.	1.1	4
62	Mode bifurcation and fold points of complex dispersion curves for the negative index metamaterial Goubau line. Journal of Applied Physics, 2010, 108, 124310.	1.1	4
63	Angular dependence of the penetration depth in unconventional superconductors. Physical Review B, 2000, 63, .	1.1	3
64	The electronic structure of normal metal-superconductor bilayers. Journal of Physics Condensed Matter, 2003, 15, 5837-5844.	0.7	2
65	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
66	Resonances of nanocylinders with gap defects. Photonics and Nanostructures - Fundamentals and Applications, 2006, 4, 94-102.	1.0	0
67	An iterative method for the numerical solution of integral equations using the method of moments. Microwave and Optical Technology Letters, 2006, 48, 118-121.	0.9	0
68	Creating discrete cylindrical vector beams using coherently combined fiber arrays. , 2010, , .		0
69	Broadband RF response of sine wave gratings. Microwave and Optical Technology Letters, 2014, 56, 1982-1984.	0.9	0
70	Quasi-Phase-Matching with Simultaneously Electronic and Magnetic Nonlinear Response in Metamaterials. , 2007, , .		0