

# Christoph SÃ¼rgers

## List of Publications by Year in descending order

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126  
papers

2,107  
citations

236925

25  
h-index

276875

41  
g-index

128  
all docs

128  
docs citations

128  
times ranked

2516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition and magnetic properties of thin films grown by interdiffusion of Mn and Sn-Rich, Ge lattice matched $\text{SixGe}_{1-x}\text{ySny}$ layers. Journal of Magnetism and Magnetic Materials, 2022, 546, 168731. Minority-spin conduction in ferromagnetic	2.3	0
2	$\text{Mn}_{5-x}\text{C}_x$ and $\text{Mn}_{5-x}\text{Sn}_x$ layers with up to 8% Sn. Journal of Physics Condensed Matter, 2021, 33, 085703.	3.2	5
3	Physical Review B, 2021, 103, . Weak localization and weak antilocalization in doped $\text{Ge}_{1-y}\text{Sn}_y$ layers with up to 8% Sn. Journal of Physics Condensed Matter, 2021, 33, 085703.	1.8	8
4	Generation of spin-polarized hot electrons at topological insulators surfaces by scattering from collective charge excitations. Communications Physics, 2021, 4, .	5.3	7
5	Formation of $\text{Mn}_5\text{Ge}_3$ on a Recess-Etched Ge (111) Quantum-Well Structure for Semiconductor Spintronics. , 2021, .		0
6	Anomalous Nernst effect in ferromagnetic $\text{Mn}_5\text{Ge}_3\text{C}_x$ thin films on insulating sapphire. Journal of Applied Physics, 2020, 128, .	2.5	6
7	Anomalous Nernst effect of a ferromagnetic film on a semiconductor. Applied Physics Letters, 2020, 117, 262402.	3.3	5
8	Controlling Chiral Spin States of a Triangular Lattice Magnet by Cooling in a Magnetic Field. Advanced Functional Materials, 2019, 29, 1900947.	14.9	4
9	Magnetic Characterization of a Mn Based Ferromagnet on $\text{Si}_x\text{Ge}_{1-x}\text{Sn}_y$ with High Sn Content. ECS Transactions, 2019, 93, 101-104.	0.5	1
10	Onset of phase diffusion in high kinetic inductance granular aluminum micro-SQUIDs. Superconductor Science and Technology, 2019, 32, 125008.	3.5	8
11	Electrical switching of the anomalous Hall effect. Nature Electronics, 2018, 1, 154-155.	26.0	8
12	Phase separation and zero thermal expansion in antiperovskite $\text{Mn}_3\text{Zn}_{0.77}\text{Mn}_{0.19}\text{Ni}_{0.94}$ : An in situ neutron diffraction investigation. Scripta Materialia, 2018, 146, 18-21.	5.2	4
13	Creation of equal-spin triplet superconductivity at the Al/EuS interface. Nature Communications, 2018, 9, 5248.	12.8	39
14	Local Joule Heating Mimicking Electroresistance-Like Behavior in Antiperovskite $\text{Mn}_3\text{GaC}$ . Advanced Electronic Materials, 2018, 4, 1800028.	5.1	2
15	$15\text{ cm}^{-1}$ to $12\,000\text{ cm}^{-1}$ spectral coverage without changing optics: Diamond beam splitter adaptation of an FTIR spectrometer. Review of Scientific Instruments, 2017, 88, 023118.	1.3	2
16	Switching of a large anomalous Hall effect between metamagnetic phases of a non-collinear antiferromagnet. Scientific Reports, 2017, 7, 42982.	3.3	31
17	Signature of $f$ -electron conduction in $\hat{\Gamma}_2$ -Ce single-atom contacts. Physical Review B, 2017, 96, .	3.2	6
18	Quasi-metallic behavior of ZnO grown by atomic layer deposition: The role of hydrogen. Journal of Applied Physics, 2017, 122, .	2.5	15

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19	Thermoelectric effects in superconductor-ferromagnet tunnel junctions on europium sulfide. <i>Physical Review B</i> , 2017, 95, .	3.2	44
20	Second-Harmonic Generation from ZnO/Al <sub>2</sub> O <sub>3</sub> Nanolaminate Optical Metamaterials Grown by Atomic-Layer Deposition. <i>Advanced Optical Materials</i> , 2016, 4, 1203-1208.	7.3	19
21	Anomalous Hall effect in the noncollinear antiferromagnet Mn <sub>5</sub> Si <sub>3</sub> . <i>AIP Advances</i> , 2016, 6, .	1.3	33
22	Controlled electromigration and oxidation of free-standing copper wires. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	5
23	Two-band superconductivity of bulk and surface states in Ag thin films on Nb. <i>Physical Review B</i> , 2016, 94, .	3.2	9
24	Magnetostrictive Fe <sub>73</sub> Ga <sub>27</sub> nanocontacts for low-field conductance switching. <i>Applied Physics Letters</i> , 2016, 108, 242408.	3.3	1
25	Remote control of magnetostriction-based nanocontacts at room temperature. <i>Scientific Reports</i> , 2015, 5, 13621.	3.3	12
26	Hanle-effect measurements of spin injection from Mn <sub>5</sub> Ge <sub>3</sub> C <sub>0.8</sub> /Al <sub>2</sub> O <sub>3</sub> -contacts into degenerately doped Ge channels on Si. <i>Applied Physics Letters</i> , 2014, 105, 222408.	3.3	22
27	Magnetotransport in ferromagnetic $Mn_5Ge_3C_{0.8}$ -contacts into degenerately doped Ge channels on Si. <i>Physical Review B</i> , 2014, 90, .	3.3	20
28	Spin accumulation in n-Ge on Si with sputtered Mn <sub>5</sub> Ge <sub>3</sub> C <sub>0.8</sub> -contacts. , 2014, , .		0
29	Spin-polarized quasiparticle transport in exchange-split superconducting aluminum on europium sulfide. <i>Physical Review B</i> , 2014, 90, .	3.2	43
30	Temperature-dependent scanning tunneling spectroscopy on the Si(557)-Au surface. <i>Physical Review B</i> , 2014, 89, .	3.2	7
31	Large topological Hall effect in the non-collinear phase of an antiferromagnet. <i>Nature Communications</i> , 2014, 5, 3400.	12.8	169
32	Fabrication and magnetic characterization of nanometer-sized ellipses of the ferromagnetic insulator EuS. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 368, 49-53.	2.3	8
33	Low temperature thermoelectric properties of Cu intercalated TiSe <sub>2</sub> : a charge density wave material. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 465-470.	2.3	24
34	Ferromagnetic Mn <sub>5</sub> Ge <sub>3</sub> C <sub>0.8</sub> contacts on Ge: work function and specific contact resistivity. <i>Semiconductor Science and Technology</i> , 2013, 28, 125002.	2.0	10
35	Electronic disorder of P- and B-doped Si at the metal-insulator transition investigated by scanning tunnelling microscopy and electronic transport. <i>New Journal of Physics</i> , 2013, 15, 055009.	2.9	2
36	(Invited) Mn <sub>5</sub> Ge <sub>3</sub> C <sub>0.8</sub> Contacts for Spin Injection Into Ge. <i>ECS Transactions</i> , 2013, 58, 29-36.	0.5	1

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37	Optical absorption in silicon layers in the presence of charge inversion/accumulation or ion implantation. Applied Physics Letters, 2013, 103, .	3.3	26
38	Interface-induced superconductivity in Pd films on SrS. , 2012, , .		0
39	Local-strain mapping on Ag(111) islands on Nb(110). Applied Physics Letters, 2012, 101, 063111.	3.3	10
40	Experimental verification of contact-size estimates in point-contact spectroscopy on superconductor/ferromagnet heterocontacts. Physical Review B, 2012, 86, .	3.2	7
41	Formation of copper oxide surface structures via pulse injection of air onto Cu(111) surfaces. Physical Review B, 2012, 85, .	3.2	28
42	Effect of cold working in a magnetic field on the shape of a ferromagnetic nanocontact. Applied Physics Letters, 2012, 100, 202402.	3.3	0
43	Magnetic properties of Cu-doped GaN grown by molecular beam epitaxy. Physical Review B, 2012, 85, .	3.2	9
44	Switching the Conductance of Dy Nanocontacts by Magnetostriction. Nano Letters, 2011, 11, 574-578.	9.1	16
45	Cu-doped nitrides: Promising candidates for a nitride based spin-aligner. Journal of Crystal Growth, 2011, 323, 355-358.	1.5	7
46	Superconducting state of very thin Pd films deposited on a diluted insulating EuxSr1âˆ’xS ferromagnet. Physical Review B, 2011, 83, .	3.2	4
47	Cu-doped GaN grown by molecular beam epitaxy. Journal of Physics: Conference Series, 2010, 200, 062006.	0.4	9
48	Effect of magnetic flux penetration on the magnetic hysteresis loops of a Pt/Co/Pt triple layer on Nb(110). Journal of Physics: Conference Series, 2010, 200, 072096.	0.4	0
49	Selected invited contributions from the International Conference on Magnetism (Karlsruhe, Germany,) Tj ETQq1 1 0.784314 rgBT /Ov 1.8		
50	Nonlocal versus local vortex dynamics in the transversal flux transformer effect. Physical Review B, 2010, 81, .	3.2	5
51	Reversal of Nonlocal Vortex Motion in the Regime of Strong Nonequilibrium. Physical Review Letters, 2010, 104, 027005.	7.8	7
52	Spintronics in metallic superconductor/ferromagnet hybrid structures. International Journal of Materials Research, 2010, 101, 164-174.	0.3	2
53	Magnetism of carbon doped Mn5Si3 and Mn5Ge3 films. Journal of Chemical Sciences, 2009, 121, 173-176.	1.5	14
54	Poly(3-hexylthiophene) based field-effect transistors with gate SiO2 dielectric modified by multi-layers of 3-aminopropyltrimethoxysilane. Thin Solid Films, 2009, 517, 6124-6128.	1.8	7

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55	STM Investigation of Large $\pi$ -Conjugated Oligomers and Tetrahydrofuran Codeposited on Cu(111) by Pulse Injection. Journal of Physical Chemistry C, 2009, 113, 14335-14340.	3.1	9
56	Self-assembly of the 3-aminopropyltrimethoxysilane multilayers on Si and hysteretic current-voltage characteristics. Applied Physics A: Materials Science and Processing, 2008, 90, 581-589.	2.3	121
57	Growth of iron phthalocyanine nanoweb and nanobrush using molecular beam epitaxy. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 154-163.	2.7	39
58	Size Dependence of Current Spin Polarization through Superconductor/Ferromagnet Nanocontacts. Physical Review Letters, 2008, 101, 147005.	7.8	17
59	Magnetic order by C-ion implantation into Mn <sub>5</sub> Si <sub>3</sub> and Mn <sub>5</sub> Ge <sub>3</sub> and its lateral modification. Applied Physics Letters, 2008, 93, 062503.	3.3	38
60	Effect of vortex-core size on the flux lattice in a mesoscopic superconducting strip. Physical Review B, 2008, 77, . Electronic transport in magnetically ordered	3.2	7
61	Physical Review B, 2008, 77, . Physical Review B, 2008, 77, . $\text{Mn}_5\text{Si}_3$	3.2	22
62	Competition between proximity-induced superconductivity and pair breaking: Ag sandwiched between Nb and Fe. Physical Review B, 2007, 75, .	3.2	2
63	Correlations between one-dimensional structures at the Si(557):Au surface. Physical Review B, 2007, 75, .	3.2	7
64	Identification of P dopants at nonequivalent lattice sites of the $\text{Si}_{111}\text{Mn}_1\text{Mo}$ . Physical Review B, 2007, 76, .	3.2	18
65	Superconducting spin switch with perpendicular magnetic anisotropy. Physical Review B, 2007, 75, .	3.2	49
66	Spin-polarized current versus stray field in a perpendicularly magnetized superconducting spin switch. Applied Physics Letters, 2007, 91, 152504.	3.3	35
67	Physical Review B, 2007, 76, . $1 - \frac{f}{\mu_0}$ flux flow noise due to a coexistence of qualitatively different vortex states. Physical Review B, 2007, 76, .	3.2	12
68	Photoluminescence microscopy of carbon nanotubes grown by chemical vapor deposition: Influence of external dielectric screening on optical transition energies. Physical Review B, 2007, 75, .	3.2	49
69	Proximity effect between superconductors and ferromagnets. Physica C: Superconductivity and Its Applications, 2007, 460-462, 322-326.	1.2	3
70	Proximity-induced superconductivity in Nb/Ag/Fe triple layers. Journal of Magnetism and Magnetic Materials, 2007, 310, e767-e768.	2.3	0
71	Manipulating superconductivity in perpendicularly magnetized FSF triple layers. Applied Physics A: Materials Science and Processing, 2007, 89, 593-597.	2.3	6
72	ELECTROGRAFTING OF ORGANIC MONOLAYERS ON SILICON FOR MOLECULAR ELECTRONICS. , 2007, , .		0

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73	Field-screening properties of proximity-coupled Nb/Ag double layers. Europhysics Letters, 2006, 76, 121-127.	2.0	7
74	Atomically resolved tunneling spectroscopy on Si(557)-Au. Europhysics Letters, 2006, 74, 473-478.	2.0	8
75	Fully ultrahigh-vacuum-compatible fabrication of submicrometer-spaced electrical contacts. Review of Scientific Instruments, 2006, 77, 026101.	1.3	5
76	Nonlocal vortex motion in mesoscopic amorphousNb0.7Ge0.3structures. Physical Review B, 2006, 74, .	3.2	11
77	Strongly nonequilibrium flux flow in the presence of perforating submicron holes. Physica C: Superconductivity and Its Applications, 2005, 432, 223-230.	1.2	2
78	Proximity effect between superconductors and ferromagnets: from thin films to nanostructures. Annalen Der Physik, 2005, 14, 591-601.	2.4	5
79	Electrical spin injection in multiwall carbon nanotubes with transparent ferromagnetic contacts. Applied Physics Letters, 2005, 86, 112109.	3.3	53
80	Evidence for one-dimensional electron propagation onSi(111)âˆ“(2Å—1)from Coulomb blockade. Physical Review B, 2005, 72, .	3.2	14
81	Flux-flow instabilities in amorphousNb0.7Ge0.3microbridges. Physical Review B, 2004, 69, .	3.2	52
82	Determining the current polarization in Al/Co nanostructured point contacts. Physical Review B, 2004, 69, .	3.2	61
83	Effect of submicron holes on the vortex dynamics of a superconducting microbridge. Physical Review B, 2004, 70, .	3.2	6
84	Inhomogeneous magnetization of a superconducting film measured with a gradiometer. Applied Physics Letters, 2004, 84, 1522-1524.	3.3	4
85	Electronic Transport in Ultrathin Gold Films on Si(111). Journal of Low Temperature Physics, 2004, 137, 509-522.	1.4	3
86	Electronic transport properties of bismuth nanobridges through silicon-nitride membranes. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 872-880.	2.7	0
87	Structure and electronic properties of ultrathin gold films on vicinal silicon(111). Thin Solid Films, 2003, 428, 11-14.	1.8	13
88	STM and STS on single dopants and Au-induced chains at the Si(1 1 1) surface. Applied Surface Science, 2003, 212-213, 105-109.	6.1	2
89	Preparation and structural characterization of ferromagneticMn5Si3Cxfilms. Physical Review B, 2003, 68, .	3.2	29
90	Vortex motion noise in micrometer-sized thin films of the amorphousNb0.7Ge0.3weak-pinning superconductor. Physical Review B, 2002, 66, .	3.2	8

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91	Local structural and magnetic properties of Mn <sub>5</sub> Si <sub>3</sub> C <sub>x</sub> films. Journal of Magnetism and Magnetic Materials, 2002, 240, 383-385.	2.3	7
92	Fabrication and superconducting properties of nanostructured SFS contacts. Journal of Magnetism and Magnetic Materials, 2002, 240, 598-600.	2.3	25
93	Perpendicular upper critical field of a proximity-coupled superconducting film. Physica C: Superconductivity and Its Applications, 2002, 370, 197-204.	1.2	10
94	UHV compatible nanostructuring technique for mesoscopic hybrid devices: application to superconductor/ferromagnet Josephson contacts. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 341-345.	2.7	4
95	Oxygen-induced surface structure of Nb(110). Surface Science, 2001, 471, 209-218.	1.9	48
96	Upper critical field of Nb/Pd <sub>1-x</sub> Fe <sub>x</sub> /Nb triple layers. Physica B: Condensed Matter, 2000, 284-288, 499-500.	2.7	0
97	Distribution of manganese moments in magnetically ordered Mn <sub>5</sub> Si <sub>3</sub> C <sub>1.5</sub> films. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 234-237.	2.1	7
98	Strongly enhanced Curie temperature in carbon-doped Mn <sub>5</sub> Ge <sub>3</sub> films. Journal of Magnetism and Magnetic Materials, 2000, 221, 248-254.	2.3	76
99	Superconducting and magnetic properties of Nb/Pd Fe /Nb triple layers. European Physical Journal B, 2000, 14, 1-10.	1.5	39
100	Ferromagnetism in carbon-doped Mn <sub>5</sub> Si <sub>3</sub> films. Journal of Applied Physics, 2000, 87, 6013-6015.	2.5	23
101	Investigation of single boron acceptors at the cleaved Si:B(111) surface. Physical Review B, 2000, 61, 7622-7627.	3.2	18
102	Investigation of the (111) surface of P-doped Si by scanning tunneling microscopy. Applied Physics A: Materials Science and Processing, 1999, 68, 167-172.	2.3	14
103	Morphology and magnetic properties of submonolayer Gd films. Physical Review B, 1998, 57, 3525-3530.	3.2	31
104	Scanning tunneling spectroscopy of rare-earth metals: Gadolinium on yttrium. Europhysics Letters, 1997, 39, 159-164.	2.0	4
105	Observation of P donors on the Si(111) surface by scanning tunneling microscopy. Europhysics Letters, 1997, 38, 177-182.	2.0	33
106	Ion beam deposition and structural characterization of GMR spin valves. IEEE Transactions on Magnetics, 1997, 33, 2369-2374.	2.1	20
107	Upper critical field of periodic and fractal Nb/Cu multilayers. European Physical Journal D, 1996, 46, 737-738.	0.4	0
108	Effect of ion bombardment on the long-range chemical order in FePd films. Journal of Applied Physics, 1996, 80, 5753-5758.	2.5	10

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109	Electronic transport and Kondo effect in $\text{La}_{1-x}\text{Ce}_x$ films. <i>Physical Review B</i> , 1996, 54, 3454-3461.	3.2	9
110	Superconducting properties of fractal Nb/Cu multilayers. <i>Physical Review B</i> , 1996, 53, 11751-11756.	3.2	20
111	Ferromagnetism above room temperature in $\text{MnSiC}$ alloy films. <i>Applied Physics Letters</i> , 1996, 68, 3189-3190.	3.3	14
112	Structural Parameters of Multilayers from X-ray Reflectivity: an Easy-to-Handle Approach. <i>Journal of Applied Crystallography</i> , 1995, 28, 160-167.	4.5	6
113	Magneto-optic measurements on ultrathin Gd films on Y. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1995, 98, 541-547.	1.1	9
114	Superconductivity in layered Nb/Gd films. <i>Physical Review B</i> , 1994, 49, 4053-4063.	3.2	134
115	Effect of substrate temperature on the microstructure of thin niobium films. <i>Thin Solid Films</i> , 1994, 239, 51-56.	1.8	17
116	Pair-breaking mechanisms in Nb/Gd/Nb films. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 2403-2404.	2.7	2
117	Transition temperature and critical fields of Nb/Gd layers. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 2405-2406.	2.7	2
118	Dimensional crossover in fractal multilayered superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2615-2616.	1.2	4
119	MAGNETOOPTIC MEASUREMENTS ON Gd/Nb/Gd SANDWICHES. <i>International Journal of Modern Physics B</i> , 1993, 07, 500-503.	2.0	1
120	Effect of oxygen segregation on the surface structure of single-crystalline niobium films on sapphire. <i>Applied Physics A: Solids and Surfaces</i> , 1992, 54, 350-354.	1.4	33
121	Growth and characterization of Nb/Gd multilayers for different substrate temperatures. <i>Thin Solid Films</i> , 1992, 219, 69-79.	1.8	12
122	Specific heat of metastable $\text{Zr}_{1-x}\text{Si}_x$ alloys. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 4559-4565.	1.8	3
123	Specific heat of mechanically alloyed amorphous $\text{Zr}_{0.7}\text{Ni}_{0.3}$ . <i>Physical Review B</i> , 1989, 40, 8787-8790.	3.2	11
124	Low-temperature properties of amorphous $(\text{Mo}_{1-x}\text{Ru}_x)_{0.8}\text{P}_{0.2}$ alloys. <i>European Physical Journal B</i> , 1988, 70, 361-369.	1.5	13
125	Search for Universality of the Density of States of Low-Energy Excitations in Amorphous Metals. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 737.	1.5	5
126	Resolving the spin polarization and magnetic domain wall width of $(\text{Nd,Dy})_2\text{Fe}_{14}\text{B}$ with spin-polarized scanning tunneling microscopy. <i>Applied Physics Express</i> , 0, , .	2.4	0