

Gerhard Jakob

List of Publications by Year in descending order

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274
papers

6,953
citations

57631

44
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76769

74
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276
all docs

276
docs citations

276
times ranked

6740
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient metallic spintronic emitters of ultrabroadband terahertz radiation. Nature Photonics, 2016, 10, 483-488.	15.6	605
2	Thermal skyrmion diffusion used in a reshuffler device. Nature Nanotechnology, 2019, 14, 658-661.	15.6	221
3	Large negative magnetoresistance effects in Co ₂ Cr _{0.6} Fe _{0.4} Al. Journal of Solid State Chemistry, 2003, 176, 646-651.	1.4	205
4	Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. APL Materials, 2014, 2, .	2.2	183
5	Magnetism of Co-doped ZnO thin films. Physical Review B, 2007, 75, .	1.1	181
6	Length Scale of the Spin Seebeck Effect. Physical Review Letters, 2015, 115, 096602.	2.9	163
7	Ultrabroadband single-cycle terahertz pulses with peak fields of 300 kV cm ⁻¹ from a metallic spintronic emitter. Applied Physics Letters, 2017, 110, .	1.5	158
8	Origin of the spin Seebeck effect in compensated ferrimagnets. Nature Communications, 2016, 7, 10452.	5.8	154
9	XMCD studies on Co and Li doped ZnO magnetic semiconductors. New Journal of Physics, 2008, 10, 055009.	1.2	138
10	Element-specific magnetic moments from core-absorption magnetic circular dichroism of the doped Heusler alloy Co ₂ Cr _{0.6} Fe _{0.4} Al. Physical Review B, 2003, 67, .	1.1	132
11	Femtosecond formation dynamics of the spin Seebeck effect revealed by terahertz spectroscopy. Nature Communications, 2018, 9, 2899.	5.8	131
12	Influence of Thickness and Interface on the Low-Temperature Enhancement of the Spin Seebeck Effect in YIG Films. Physical Review X, 2016, 6, .	2.8	103
13	Harnessing Orbital-to-Spin Conversion of Interfacial Orbital Currents for Efficient Spin-Orbit Torques. Physical Review Letters, 2020, 125, 177201.	2.9	92
14	Epitaxy and magnetotransport of Sr ₂ FeMoO ₆ thin films. Physical Review B, 2000, 62, R767-R770.	1.1	90
15	Superconductivity and giant negative magnetoresistance in YBa ₂ Cu ₃ O ₇ /La _{0.67} Ba _{0.33} MnO ₃ superlattices. Applied Physics Letters, 1995, 66, 2564-2566.	1.5	86
16	Effect of precursor concentration on size evolution of iron oxide nanoparticles. CrystEngComm, 2017, 19, 6694-6702.	1.3	81
17	Huge quadratic magneto-optical Kerr effect and magnetization reversal in the Co ₂ FeSi Heusler compound. Journal Physics D: Applied Physics, 2007, 40, 1563-1569.	1.3	79
18	Enhanced Magneto-optic Kerr Effect and Magnetic Properties of CeY _{1-x} Fe _x O ₃ . Physical Review Applied, 2015, 4, .	1.3	79

#	ARTICLE	IF	CITATIONS
19	Terahertz spectroscopy for all-optical spintronic characterization of the spin-Hall-effect metals Pt, W and Cu ₈₀ Ir ₂₀ . Journal Physics D: Applied Physics, 2018, 51, 364003.	1.3	78
20	Correlation of electronic structure and martensitic transition in epitaxial Ni ₂ MnGa films. Physical Review B, 2007, 76, .	1.1	77
21	Investigation of the Dzyaloshinskii-Moriya interaction and room temperature skyrmions in W/CoFeB/MgO thin films and microwires. Applied Physics Letters, 2017, 111, .	1.5	74
22	Individual skyrmion manipulation by local magnetic field gradients. Communications Physics, 2019, 2, .	2.0	74
23	Small-polaron transport in La _{0.67} Ca _{0.33} MnO ₃ thin films. Physical Review B, 1998, 58, 14966-14970.	1.1	73
24	Epitaxial film growth and magnetic properties of Co ₂ FeSi. Physical Review B, 2006, 74, .	1.1	73
25	Full Tunability of Strain along the fcc-bcc Bain Path in Epitaxial Films and Consequences for Magnetic Properties. Physical Review Letters, 2009, 103, 216101.	2.9	73
26	Interfacial Dzyaloshinskii-Moriya interaction and chiral magnetic textures in a ferrimagnetic insulator. Physical Review B, 2019, 100, .	1.1	73
27	Evidence of charge-carrier compensation effects in La _{0.67} Ca _{0.33} MnO ₃ . Physical Review B, 1998, 57, 10252-10255.	1.1	72
28	Magnetic and structural properties of the double-perovskite Ca ₂ FeReO ₆ . Solid State Communications, 2002, 122, 201-206.	0.9	68
29	Spin polarization of magnetoresistive materials by point contact spectroscopy. Physical Review B, 2003, 68, .	1.1	64
30	Exploring Co ₂ MnAl Heusler compound for anomalous Hall effect sensors. Applied Physics Letters, 2011, 99, .	1.5	63
31	High- ϵ superconducting critical current densities in YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superlattices. Applied Physics Letters, 1991, 59, 1626-1628.	1.5	62
32	Flux-flow instability and its anisotropy in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ superconducting films. Physical Review B, 1999, 59, 1481-1490.	1.1	62
33	Field dependence of orbital magnetic moments in the Heusler compounds Co ₂ FeAl and Co ₂ Cr _{0.6} Fe _{0.4} Al. Applied Physics A: Materials Science and Processing, 2004, 79, 557-563.	1.1	61
34	Metal Oxide/Polymer Hybrid Nanoparticles with Versatile Functionality Prepared by Controlled Surface Crystallization. Advanced Functional Materials, 2013, 23, 451-466.	7.8	61
35	Investigation of a novel material for magnetoelectronics: Co ₂ Cr _{0.6} Fe _{0.4} Al. Journal of Physics Condensed Matter, 2003, 15, 7019-7027.	0.7	60
36	Determining Magnetite/Maghemite Composition and Core-Shell Nanostructure from Magnetization Curve for Iron Oxide Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 28292-28301.	1.5	60

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37	The effect of interface roughness on exchange bias in La _{0.7} Sr _{0.3} MnO ₃ /BiFeO ₃ heterostructures. Applied Physics Letters, 2016, 108, .	1.5	54
38	Impact of pump wavelength on terahertz emission of a cavity-enhanced spintronic trilayer. Applied Physics Letters, 2019, 114, .	1.5	54
39	Antenna-coupled spintronic terahertz emitters driven by a 1550-nm femtosecond laser oscillator. Applied Physics Letters, 2019, 115, .	1.5	48
40	Propagation Length of Antiferromagnetic Magnons Governed by Domain Configurations. Nano Letters, 2020, 20, 306-313.	4.5	48
41	Epitaxial films of the magnetic shape memory material. Journal of Magnetism and Magnetic Materials, 2007, 310, 2779-2781.	1.0	47
42	Voltage jumps in current-voltage characteristics of Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ superconducting films: Evidence for flux-flow instability under the influence of self-heating. Physical Review B, 1998, 57, R736-R739.	1.1	46
43	Observation of the Orbital Rashba-Edelstein Magnetoresistance. Physical Review Letters, 2022, 128, 067201.	2.9	46
44	Structural, magnetic, and transport properties of high-quality epitaxial Sr ₂ FeMoO ₆ thin films prepared by pulsed laser deposition. Journal of Applied Physics, 2004, 96, 2736-2742.	1.1	45
45	Electric-Field Control of Spin-Orbit Torques in Perpendicularly Magnetized W/MgO/CoFeB/MgO/MgO Films. Physical Review Letters, 2020, 124, 217701.	2.9	45
46	Recent Progress in FSMA Microactuator Developments. Materials Science Forum, 0, 635, 145-154.	0.3	44
47	Complex Terahertz and Direct Current Inverse Spin Hall Effect in YIG/Cu _{1-x} Bilayers Across a Wide Concentration Range. Nano Letters, 2018, 18, 1064-1069.	4.5	44
48	Terahertz Spin-to-Charge Conversion by Interfacial Skew Scattering in Metallic Bilayers. Advanced Materials, 2021, 33, e2006281.	11.1	44
49	Growth of high quality YBa ₂ Cu ₃ O ₇ films on various substrate materials and influence of Zn-doping on superconductivity. Physica C: Superconductivity and Its Applications, 1990, 171, 231-237.	0.6	41
50	Reduction of surface magnetism of Co ₂ Cr _{0.6} Fe _{0.4} Heusler alloy films. Applied Physics Letters, 2006, 88, 072506.	1.5	41
51	Influence of disorder on anomalous Hall effect for Heusler compounds. Physical Review B, 2011, 83, .	1.1	41
52	Transport Properties of YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ Superlattices. Europhysics Letters, 1992, 19, 135-140.	0.7	40
53	Growth and magnetic control of twinning structure in thin films of Heusler shape memory compound Ni ₂ MnGa. Applied Physics Letters, 2008, 93, .	1.5	39
54	Improvement of the critical current density of spark plasma sintered MgB ₂ /C ₆₀ addition. Superconductor Science and Technology, 2010, 23, 095002.	1.8	37

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55	Physical vapor deposition of Bi ₂ S ₃ as absorber material in thin film photovoltaics. Thin Solid Films, 2013, 535, 394-397.	0.8	37
56	Combined Experimental and Theoretical Investigation of Heating Rate on Growth of Iron Oxide Nanoparticles. Chemistry of Materials, 2017, 29, 9648-9656.	3.2	37
57	Exchange bias effect in the martensitic state of Ni-Co-Mn-Sn film. Applied Physics Letters, 2013, 102, .	1.5	36
58	Interface magnetization of ultrathin epitaxial Co ₂ FeSi(110)/Al ₂ O ₃ films. Journal Physics D: Applied Physics, 2007, 40, 1552-1557.	1.3	35
59	Current dependence of grain boundary magnetoresistance in La _{0.67} Ca _{0.33} MnO ₃ films. Journal of Applied Physics, 1999, 86, 2173-2177.	1.1	34
60	Spin-resolved unoccupied density of states in epitaxial Heusler-alloy films. Physical Review B, 2009, 80, .	1.1	34
61	Enhancing domain wall velocity through interface intermixing in W-CoFeB-MgO films with perpendicular anisotropy. Applied Physics Letters, 2019, 115, .	1.5	34
62	Reduced thermal conductivity of TiNiSn/HfNiSn superlattices. Physical Review B, 2015, 92, .	1.1	33
63	Electric field modification of magnetotransport in Ni thin films on (011) PMN-PT piezosubstrates. Applied Physics Letters, 2015, 106, .	1.5	33
64	Modulating the polarization of broadband terahertz pulses from a spintronic emitter at rates up to 10 kHz. Optica, 2021, 8, 1013.	4.8	33
65	Epitaxial growth and thermoelectric properties of TiNiSn and Zr _{0.5} Hf _{0.5} NiSn thin films. Thin Solid Films, 2011, 520, 1010-1014.	0.8	32
66	Synergy of Miniemulsion and Solvothermal Conditions for the Low-Temperature Crystallization of Magnetic Nanostructured Transition-Metal Ferrites. Chemistry of Materials, 2017, 29, 985-997.	3.2	30
67	Scaling of the angular dependence of the critical current density in high-T _c superconductors. Physical Review B, 1993, 47, 12099-12103.	1.1	29
68	Thin epitaxial films of the Heusler compound. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1104-1107.	1.0	29
69	Exchange stiffness in the Co ₂ FeSi Heusler compound. Journal Physics D: Applied Physics, 2009, 42, 232001.	1.3	28
70	Structural and compositional characterization of (YBa ₂ Cu ₃ O ₇) _m / (PrBa ₂ Cu ₃ O ₇) _n superlattices by means of high-resolution electron microscopy. Physica C: Superconductivity and Its Applications, 1993, 210, 1-15.	0.6	27
71	Structural, magnetic and transport properties of Co ₂ FeSi Heusler films. Journal Physics D: Applied Physics, 2007, 40, 1548-1551.	1.3	27
72	Temperature dependence of the non-local spin Seebeck effect in YIG/Pt nanostructures. AIP Advances, 2017, 7, .	0.6	27

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73	Microstructure of freestanding single-crystalline Ni ₂ MnGa thin films. Acta Materialia, 2011, 59, 5067-5073.	3.8	26
74	Thermal generation of spin current in epitaxial CoFe ₂ O ₄ thin films. Applied Physics Letters, 2016, 108, .	1.5	26
75	Critical current density and upper critical field of YBa ₂ Cu ₃ O ₇ thin films. European Physical Journal B, 1991, 83, 221-226.	0.6	25
76	Vortex-liquid entanglement in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ films in the presence of quenched disorder. Physical Review B, 1998, 57, 3151-3155.	1.1	25
77	Crystal structure and magnetism of the double perovskites A ₂ FeReO ₆ (A=Ca, Sr, Ba). Journal of Magnetism and Magnetic Materials, 2004, 272-276, E607-E608.	1.0	24
78	Origin of the plateau in the temperature dependence of the normalized magnetization relaxation rate in disordered high-temperature superconductors. Physical Review B, 2008, 78, .	1.1	24
79	Luminescent and Magnetoresponse Multifunctional Chalcogenide/Polymer Hybrid Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 5999-6005.	1.5	24
80	High-Performance Flexible Magnetic Tunnel Junctions for Smart Miniaturized Instruments. Advanced Engineering Materials, 2018, 20, 1800471.	1.6	24
81	Anisotropy of the depinning field and the pinning force density of thin epitaxial YBa ₂ Cu ₃ O ₇ films. Physica C: Superconductivity and Its Applications, 1991, 177, 165-170.	0.6	23
82	Structural and electrical characterization of SrBi ₂ Nb ₂ O ₉ thin films deposited on YBa ₂ Cu ₃ O ₇ and Nb doped SrTiO ₃ . Journal of Applied Physics, 1999, 86, 960-964.	1.1	23
83	Hyperfine magnetic field on iron atoms and Co-Fe disordering in Co ₂ FeSi. Journal of Applied Physics, 2010, 107, 09B106.	1.1	23
84	Thermal conductivity of thermoelectric Al-substituted ZnO thin films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 364-367.	1.2	22
85	Broadband Terahertz Probes of Anisotropic Magnetoresistance Disentangle Extrinsic and Intrinsic Contributions. Physical Review X, 2021, 11, .	2.8	22
86	Enhanced orbital magnetic moments in the Heusler compounds ,, Journal of Magnetism and Magnetic Materials, 2004, 272-276, 758-759.	1.0	21
87	Off-stoichiometry in Co ₂ FeSi thin films sputtered from stoichiometric targets revealed by nuclear magnetic resonance. Journal Physics D: Applied Physics, 2009, 42, 084017.	1.3	21
88	Microscopic origin of magnetic anisotropy in martensitic Ni ₂ MnGa $\text{Ni}_{2-x}\text{Mn}_x\text{Ga}$ Physical Review B, 2011, 83, .	1.1	21
89	Optical conductivity in YBa ₂ Cu ₃ O ₇ thin films. Physical Review B, 1999, 59, 4390-4393.	1.1	20
90	Suppression of martensitic phase transition at the Ni ₂ MnGa film surface. Applied Physics Letters, 2008, 93, 022501.	1.5	20

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91	Structural and magnetic dynamics in the magnetic shape-memory alloy Ni_2MnGa . Physical Review B, 2014, 90, .	1.1	20
92	Magnetic tunneling junctions with the Heusler compound. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1127-1130.	1.0	19
93	Compositional dependence of element-specific magnetic moments in Ni_2MnGa films. Journal Physics D: Applied Physics, 2009, 42, 084008.	1.3	19
94	Magnetic domain structure of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin-films probed at variable temperature with scanning electron microscopy with polarization analysis. Applied Physics Letters, 2013, 102, .	1.5	19
95	Investigation of the magnetic properties of insulating thin films using the longitudinal spin Seebeck effect. Journal of Applied Physics, 2014, 115, 17C731.	1.1	19
96	Spin-orbit torque driven multi-level switching in He^+ irradiated $\text{W}/\text{CoFe}/\text{MgO}$ Hall bars with perpendicular anisotropy. Applied Physics Letters, 2020, 116, .	1.5	19
97	Identifying the origin of the nonmonotonic thickness dependence of spin-orbit torque and interfacial Dzyaloshinskii-Moriya interaction in a ferrimagnetic insulator heterostructure. Physical Review B, 2020, 102, .	1.1	19
98	Charge-carrier density collapse in and epitaxial thin films. European Physical Journal B, 2000, 14, 509-513.	0.6	17
99	Magnetic states in low-pinning high-anisotropy material nanostructures suitable for dynamic imaging. Physical Review B, 2013, 87, .	1.1	17
100	Enhancement of spin Hall conductivity in W/Ta alloy. Applied Physics Letters, 2020, 117, .	1.5	17
101	Transition of laser-induced terahertz spin currents from torque- to conduction-electron-mediated transport. Physical Review B, 2022, 105, .	1.1	17
102	Hall effect in laser ablated $\text{Co}_2(\text{Mn,Fe})\text{Si}$ thin films. Journal Physics D: Applied Physics, 2009, 42, 084012.	1.3	16
103	Scaling properties of the anisotropic magnetoresistance in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattices. Physica C: Superconductivity and Its Applications, 1993, 205, 111-117.	0.6	15
104	High dynamic exponents in vortex glass transitions: Dependence of critical scaling on the electric-field range. Physical Review B, 1999, 60, 12443-12447.	1.1	15
105	Absence of correlated flux pinning by columnar defects in irradiated epitaxial $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ thin films. Physica C: Superconductivity and Its Applications, 1999, 311, 11-18.	0.6	15
106	Hall effect and electronic structure of films. Journal of Magnetism and Magnetic Materials, 2010, 322, 579-584.	1.0	15
107	Renormalization of phonons in a $(\text{Y}/\text{Pr})\text{Ba}_2\text{Cu}_3\text{O}_7$ superlattice investigated by Raman spectroscopy. Physical Review Letters, 1993, 70, 3804-3807.	2.9	14
108	Pulsed laser deposition of ferromagnetic $\text{Zn}_{0.95}\text{Co}_{0.05}\text{O}$ thin films. Applied Physics Letters, 2008, 93, 152509.	1.5	14

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109	Hall effect of epitaxial double-perovskite Sr ₂ FeMoO ₆ thin films. Journal of Applied Physics, 2000, 87, 5040-5042.	1.1	13
110	Ion beam induced modification of exchange interaction and spin-orbit coupling in the Co ₂ FeSi Heusler compound. Journal Physics D: Applied Physics, 2007, 40, 1558-1562.	1.3	13
111	Multiferroic and structural properties of BiFeO ₃ close to the strain induced phase transition on different substrates. Journal of Applied Physics, 2013, 113, 17D907.	1.1	13
112	CADEM: calculate X-ray diffraction of epitaxial multilayers. Journal of Applied Crystallography, 2017, 50, 288-292.	1.9	13
113	Anomalous Hall effect in magnetic insulator heterostructures: Contributions from spin-Hall and magnetic-proximity effects. Physical Review B, 2021, 104, .	1.1	13
114	Length-scale-dependent vortex-antivortex unbinding in epitaxial Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ films. Physical Review B, 1998, 57, 3144-3150.	1.1	12
115	Solid state reaction at the interface between Heusler alloys and Al cap accelerated by elevated temperature and rough surface. Applied Physics Letters, 2007, 91, .	1.5	12
116	Bi-2212 and Y123 highly curved single-crystal-like objects: whiskers, bows and ring-like structures. Superconductor Science and Technology, 2012, 25, 105003.	1.8	12
117	Tailor-Made Nanocontainers for Combined Magnetic-Field-Induced Release and MRI. Macromolecular Bioscience, 2014, 14, 1205-1214.	2.1	12
118	Magnetic Exchange Interaction in Nitronyl Nitroxide Radical-Based Single Crystals of 3d Metal Complexes: A Combined Experimental and Theoretical Study. ACS Omega, 2018, 3, 2918-2933.	1.6	12
119	Preparation, scaling behavior of activation energy, Hall effect, and flux-flow anisotropy of (Hg _{0.9} Re _{0.1})Ba ₂ CaCu ₂ O ₆ + δ HTS thin films. Physica C: Superconductivity and Its Applications, 2004, 402, 354-364.	0.6	11
120	Correlation of local disorder and electronic properties in the Heusler alloy Co ₂ Cr _{0.6} Fe _{0.4} Al. Journal Physics D: Applied Physics, 2007, 40, 1539-1543.	1.3	11
121	Analysis of magnetization relaxation in MgB ₂ bulk samples obtained by electric-field assisted sintering. Physica C: Superconductivity and Its Applications, 2008, 468, 2279-2282.	0.6	11
122	Structural and Magnetic Properties of Epitaxial Ni ₂ MnGa Thin Films. Materials Science Forum, 2009, 635, 155-160.	0.3	11
123	Epitaxial growth and magnetic properties of Co ₂ MnGa thin films. $\text{Co}_{2-x}\text{Mn}_x\text{Ga}$		

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127	Effect of dimensional crossover on the magnetoresistance of YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superlattices. Physica C: Superconductivity and Its Applications, 1993, 206, 110-118.	0.6	10
128	Electronic structure and symmetry of valence states of epitaxial NiTiSn and NiZr _{0.5} Hf _{0.5} Sn thin films by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2011, 99, .	1.5	10
129	Reconstruction of an effective magnon mean free path distribution from spin Seebeck measurements in thin films. New Journal of Physics, 2017, 19, 013011.	1.2	10
130	Gilbert damping of CoFe-alloys. Journal Physics D: Applied Physics, 2019, 52, 325001.	1.3	10
131	Average power scaling of THz spintronic emitters efficiently cooled in reflection geometry. Optics Express, 2022, 30, 20451.	1.7	10
132	Anisotropy of the pinning force density and the resistive transitions in YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superlattices. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2087-2088.	0.6	9
133	Chemically sensitive imaging of (YBa ₂ Cu ₃ O ₇) _m /(PrBa ₂ Cu ₃ O ₇) _n superlattices by means of high-resolution electron microscopy. Ultramicroscopy, 1993, 49, 330-343.	0.8	9
134	Hall effect and flux dynamics in YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ multilayers in the mixed state. Physical Review B, 1995, 52, 12994-12999.	1.1	9
135	Metal-Insulator Transition in Ytterbium Under Pressure: an EPR Study. Europhysics Letters, 1995, 31, 485-490.	0.7	9
136	Universal relationship between the penetration depth and the normal-state conductivity in YBaCuO. Europhysics Letters, 1999, 48, 73-78.	0.7	9
137	Vortex-creep activation energy in YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superlattices. Physica C: Superconductivity and Its Applications, 2010, 470, 1-7.	0.6	9
138	Exchange coupling in the correlated electronic states of amorphous GdFe films. Physical Review B, 2013, 88, .	1.1	9
139	Thermal conductance of thin film YIG determined using Bayesian statistics. Physical Review B, 2015, 92, .	1.1	9
140	Subamorphous Thermal Conductivity of Crystalline Half-Heusler Superlattices. Nanoscale and Microscale Thermophysical Engineering, 2019, 23, 1-9.	1.4	9
141	Enhanced thermoelectric properties of lightly Nb doped SrTiO ₃ thin films. Nanoscale Advances, 2019, 1, 3647-3653.	2.2	9
142	Rapid Online Solid-State Battery Diagnostics with Optically Pumped Magnetometers. Applied Sciences (Switzerland), 2020, 10, 7864.	1.3	9
143	Impact of Annealing Temperature on Tunneling Magnetoresistance Multilayer Stacks. IEEE Magnetics Letters, 2020, 11, 1-5.	0.6	9
144	Heisenberg Exchange and Dzyaloshinskii-Moriya Interaction in Ultrathin Pt(W)/CoFeB Single and Multilayers. IEEE Transactions on Magnetics, 2021, 57, 1-7.	1.2	9

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145	Fabrication of in-situ superconducting thin films of (Y,Tm)-Ba-Cu-O on SrTiO ₃ , NdAlCaO ₄ and LaGaO ₃ substrates. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 1475-1476.	1.3	8
146	Non-centro-symmetric superconductors Li ₂ Pd ₃ B and Li ₂ (Pd _{0.8} Pt _{0.2}) ₃ B: amplitude and phase fluctuation analysis of the experimental magnetization data. <i>Superconductor Science and Technology</i> , 2010, 23, 105018.	1.8	8
147	Vortex creep crossover in YBCO/PrBCO superlattices during standard magnetization relaxation measurements. <i>Superconductor Science and Technology</i> , 2011, 24, 045014.	1.8	8
148	Thermoelectric sintered glass-ceramics with a Bi ₂ Sr ₂ Co ₂ O _x phase. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 59-66.	1.1	8
149	Imprinting the complex dielectric permittivity of liquids into the spintronic terahertz emission. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	8
150	Contribution of Zn Impurity Atoms to the Anisotropic Pinning Force Density of Thin Epitaxial YBa ₂ (Cu _{1-x} Zn _x) ₃ O _{7-δ} Films. <i>Europhysics Letters</i> , 1992, 18, 641-646.	0.7	7
151	Frequency-dependent relaxation rate in superconducting YBa ₂ Cu ₃ O _{6+δ} . <i>Physical Review B</i> , 2000, 61, 7039-7043.	1.1	7
152	Patterned irradiation of YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Physical Review B</i> , 2001, 64, .	1.1	7
153	Hard x-ray photoemission spectroscopy of Bi ₂ S ₃ thin films. <i>Journal of Applied Physics</i> , 2012, 112, 053705.	1.1	7
154	Structure and Microscopic Magnetism of Epitaxial Ni _{1-x} Mn _x Ga Films. <i>Advanced Engineering Materials</i> , 2012, 14, 687-695.	1.6	7
155	Direct observation of temperature dependent magnetic domain structure of the multiferroic La _{0.66} Sr _{0.34} MnO ₃ /BiFeO ₃ bilayer system by x-ray linear dichroism- and x-ray magnetic circular dichroism-photoemission electron microscopy. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	7
156	Magnetic field dependent thermal conductance in La _{0.67} Ca _{0.33} MnO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 381, 188-193.	1.0	7
157	Probing ultrafast changes of spin and charge density profiles with resonant XUV magnetic reflectivity at the free-electron laser FERMI. <i>Structural Dynamics</i> , 2017, 4, 055101.	0.9	7
158	Large modulation of perpendicular magnetic anisotropy in a BiFeO ₃ /Al ₂ O ₃ /Pt/Co/Pt multiferroic heterostructure via spontaneous polarizations. <i>Applied Physics Letters</i> , 2018, 113, 062401.	1.5	7
159	Magnetic Coupling in Y ₃ Fe ₅ O ₁₂ . <i>Physical Review Applied</i> , 2021, 16, .		
160	Preparation, patterning and critical current density of YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 1477-1478.	1.3	6
161	Thermally activated flux-flow in epitaxially grown YBa ₂ (Cu _{1-x} Zn _x) ₃ O _{7-δ} thin films. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 2175-2176.	0.6	6
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