Gerd Schoenhense

List of Publications by Year
in descending order

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98 papers	2,879 citations	147801 31 h-index	189892 50 g-index
101 all docs	101 docs citations	101 times ranked	2396 citing authors

#	Article	IF	Citations
1	Time-resolved two photon photoemission electron microscopy. Applied Physics B: Lasers and Optics, 2002, 74, 223-227.	2.2	156
2	Photoemission Electron Microscopy as a Tool for the Investigation of Optical Near Fields. Physical Review Letters, 2005, 95, 047601.	7.8	136
3	Microspectroscopy and imaging using a delay line detector in time-of-flight photoemission microscopy. Review of Scientific Instruments, 2001, 72, 3968-3974.	1.3	126
4	Characterization of Symmetry Properties of Pt(111) Electron Bands by Means of Angle-, Energy-, and Spin-Resolved Photoemission with Circularly Polarized Synchrotron Radiation. Physical Review Letters, 1984, 52, 1559-1562.	7.8	122
5	Magnetic sensitivity of a dispersion of aggregated ferromagnetic carbon nanotubes in liquid crystals. Soft Matter, 2011, 7, 644-649.	2.7	97
6	Direct 3D mapping of the Fermi surface and FermiÂvelocity. Nature Materials, 2017, 16, 615-621.	27.5	97
7	Polarization of Photoelectrons Ejected by Unpolarized Light from Xenon Atoms. Physical Review Letters, 1979, 42, 1603-1605.	7.8	85
8	Nanoelectron spectroscopy for chemical analysis: a novel energy filter for imaging x-ray photoemission spectroscopy. Journal of Physics Condensed Matter, 2005, 17, S1329-S1338.	1.8	82
9	Spin resolved photoelectron microscopy using a two-dimensional spin-polarizing electron mirror. Applied Physics Letters, 2011, 99, .	3.3	80
10	Near Field of Strongly Coupled Plasmons: Uncovering Dark Modes. Nano Letters, 2012, 12, 1885-1890.	9.1	74
11	Time- and momentum-resolved photoemission studies using time-of-flight momentum microscopy at a free-electron laser. Review of Scientific Instruments, 2020, 91, 013109.	1.3	72
12	Space-, time- and spin-resolved photoemission. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 94-118.	1.7	71
13	The new dedicated HAXPES beamline P22 at PETRAIII. AIP Conference Proceedings, 2019, , .	0.4	68
14	Highly Efficient Multichannel Spin-Polarization Detection. Physical Review Letters, 2011, 107, 207601.	7.8	66
15	Angular Dependence of the Polarization of Photoelectrons Ejected by Plane-Polarized Radiation from Argon and Xenon Atoms. Physical Review Letters, 1980, 44, 640-643.	7.8	60
16	Ferromagnetic resonance study of thin film antidot arrays: Experiment and micromagnetic simulations. Physical Review B, 2007, 75, .	3.2	60
17	Field Emission of Electrons Generated by the Near Field of Strongly Coupled Plasmons. Physical Review Letters, 2012, 108, 237602.	7.8	60
18	Imaging of magnetic structures by photoemission electron microscopy. Journal of Physics Condensed Matter, 1999, 11, 9517-9547.	1.8	56

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19	Hard x-ray photoelectron spectroscopy: a snapshot of the state-of-the-art in 2020. Journal of Physics Condensed Matter, 2021, 33, 233001.	1.8	55
20	Time- and energy resolved photoemission electron microscopy-imaging of photoelectron time-of-flight analysis by means of pulsed excitations. Journal of Electron Spectroscopy and Related Phenomena, 2010, 178-179, 317-330.	1.7	48
21	Electron emission from films of Ag and Au nanoparticles excited by a femtosecond pump-probe laser. Physical Review B, 2008, 77, .	3.2	46
22	Spin mapping of surface and bulk Rashba states in ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -GeTe(111) films. Physical Review B, 2016, 94, .	3.2	46
23	Time-of-flight photoelectron emission microscopy TOF-PEEM: first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 406, 499-506.	1.6	45
24	NanoESCA: imaging UPS and XPS with high energy resolution. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1179-1182.	1.7	44
25	Anomalous d-like surface resonances on Mo(110) analyzed by time-of-flight momentum microscopy. Ultramicroscopy, 2015, 159, 453-463.	1.9	41
26	Time-of-flight photoemission electron microscopy â€“ a new way to chemical surface analysis. Surface Science, 2001, 480, 180-187.	1.9	40
27	A capillary discharge tube for the production of intense VUV resonance radiation. Journal of Physics E: Scientific Instruments, 1983, 16, 74-82.	0.7	39
28	Multidimensional photoemission spectroscopyâ€"the space-charge limit. New Journal of Physics, 2018, 20, 033004.	2.9	36
29	Imaging spin filter for electrons based on specular reflection from iridium (001). Ultramicroscopy, 2013, 130, 63-69.	1.9	34
30	Multi-MHz time-of-flight electronic bandstructure imaging of graphene on Ir(111). Applied Physics Letters, 2016, 108, .	3.3	34
31	Determination of xenon valence and conduction bands by spin-polarized photoemission. Physical Review Letters, 1987, 59, 331-334.	7.8	32
32	Observation of Cu surface inhomogeneities by multiphoton photoemission spectromicroscopy. Applied Physics Letters, 2003, 83, 1503-1505.	3.3	30
33	Progress in HAXPES performance combining full-field k-imaging with time-of-flight recording. Journal of Synchrotron Radiation, 2019, 26, 1996-2012.	2.4	30
34	The spatial distribution of non-linear effects in multi-photon photoemission from metallic adsorbates on Si(1 1 1). Surface Science, 2001, 482-485, 687-692.	1.9	28
35	Magnetic dichroism in angle-resolved hard x-ray photoemission from buried layers. Physical Review B, 2011, 84, .	3.2	28
36	Momentum Distribution of Electrons Emitted from Resonantly Excited Individual Gold Nanorods. Nano Letters, 2017, 17, 6606-6612.	9.1	28

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37	Spin texture of time-reversal symmetry invariant surface states on W(110). Scientific Reports, 2016, 6, 29394.	3.3	27
38	Spin-filtered time-of-flight k-space microscopy of Ir â€“ Towards the â€œcompleteâ€•photoemission experiment. Ultramicroscopy, 2017, 183, 19-29.	1.9	27
39	Correction of the deterministic part of spaceâ€“charge interaction in momentum microscopy of charged particles. Ultramicroscopy, 2015, 159, 488-496.	1.9	26
40	High-accuracy bulk electronic bandmapping with eliminated diffraction effects using hard X-ray photoelectron momentum microscopy. Communications Physics, 2019, 2, .	5.3	26
41	Subpicosecond metamagnetic phase transition in FeRh driven by non-equilibrium electron dynamics. Nature Communications, 2021, 12, 5088.	12.8	25
42	Photoemission time-of-flight spectromicroscopy of Ag nanoparticle films on Si(111). Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 249-257.	1.7	24
43	New HAXPES Applications at PETRA III. Synchrotron Radiation News, 2018, 31, 29-35.	0.8	23
44	Resolution deterioration in emission electron microscopy due to object roughness. Annalen Der Physik, 2000, 9, 441-451.	2.4	22
45	Two-photon photoemission spectromicroscopy of noble metal clusters on surfaces studied using time-of-flight photoemission electron microscopy. Journal of Physics Condensed Matter, 2005, 17, S1319-S1328.	1.8	19
46	The origin of contrast in the imaging of doped areas in silicon by slow electrons. Journal of Applied Physics, 2006, 100, 093712.	2.5	18
47	4D texture of circular dichroism in soft-x-ray photoemission from tungsten. New Journal of Physics, 2019, 21, 013017.	2.9	18
48	Site-specific atomic order and band structure tailoring in the diluted magnetic semiconductor (In,Ga,Mn)As. Physical Review B, 2021, 103, .	3.2	18
49	Sensor and microelectronic elements based on nanoscale granular systems. Journal of Nanoparticle Research, 2011, 13, 6263-6281.	1.9	17
50	High-resolution hard-x-ray photoelectron diffraction in a momentum microscopeâ€”the model case of graphite. New Journal of Physics, 2019, 21, 113031.	2.9	17
51	NÃ©el Vector Induced Manipulation of Valence States in the Collinear Antiferromagnet Mn₂Au. ACS Nano, 2020, 14, 17554-17564.	14.6	17
52	Suppression of the vacuum space-charge effect in fs-photoemission by a retarding electrostatic front lens. Review of Scientific Instruments, 2021, 92, 053703.	1.3	17
53	Ferromagnetic resonance investigation of collective phenomena in two-dimensional periodic arrays of Co particles. Applied Physics A: Materials Science and Processing, 2005, 81, 679-683.	2.3	13
54	Momentum-transfer model of valence-band photoelectron diffraction. Communications Physics, 2020, 3, .	5.3	13

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55	Ultrafast electronic linewidth broadening in the C <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mm core level of graphene. Physical Review B, 2021, 104, .	3.2	13
56	Single-hemisphere photoelectron momentum microscope with time-of-flight recording. Review of Scientific Instruments, 2020, 91, 123110.	1.3	12
57	Emitter-site specificity of hard x-ray photoelectron Kikuchi-diffraction. New Journal of Physics, 2020, 22, 103002.	2.9	12
58	Rashba splitting of the Tamm surface state on Re(0001) observed by spin-resolved photoemission and scanning tunneling spectroscopy. Physical Review Research, 2020, 2, .	3.6	12
59	Hosting of surface states in spinâ€“orbit induced projected bulk band gaps of W(1â€‰1â€‰0) and Ir(1â€‰1â€‰1). Journal of Physics Condensed Matter, 2017, 29, 255001.	1.8	11
60	Band structure tuning of Heusler compounds: Spin- and momentum-resolved electronic structure analysis of compounds with different band filling. Physical Review B, 2021, 103, .	3.2	11
61	Time-of-flight photoelectron momentum microscopy with 80â€“500 MHz photon sources: electron-optical pulse picker or bandpass pre-filter. Journal of Synchrotron Radiation, 2021, 28, 1891-1908.	2.4	11
62	Electrical and emission properties of current-carrying silver cluster films detected by an emission electron microscope. Applied Physics A: Materials Science and Processing, 2004, 79, 707-712.	2.3	10
63	Synthesis of refractory metal nuggets and constraints on the thermal histories of nuggetâ€bearing Ca, Alâ€rich inclusions. Meteoritics and Planetary Science, 2015, 50, 893-903.	1.6	10
64	Lateral resolving power of a time-of-flight photoemission electron microscope. Applied Physics A: Materials Science and Processing, 2004, 78, 47-51.	2.3	9
65	Exchange coupling in the correlated electronic states of amorphous GdFe films. Physical Review B, 2013, 88, .	3.2	9
66	Dirac cone and pseudogapped density of states in the topological half-Heusler compound YPtBi. Physical Review B, 2016, 94, .	3.2	9
67	Development of hard X-ray photoelectron SPLEED-based spectrometer applicable for probing of buried magnetic layer valence states. Journal of Electron Spectroscopy and Related Phenomena, 2016, 211, 12-18.	1.7	9
68	Relation between spinâ€“orbit induced spin polarization, Fano-effect and circular dichroism in soft x-ray photoemission. Journal of Physics Condensed Matter, 2020, 32, 135501.	1.8	9
69	New applications of the magnetic X-ray circular dichroism method for surface-magnetism investigations in a photoemission electron microscope. Applied Physics A: Materials Science and Processing, 2002, 74, 295-298.	2.3	7
70	Size of three-dimensional objects measured by means of photoemission electron microscopy. Annalen Der Physik, 2002, 11, 39.	2.4	7
71	Dopant Contrast in Semiconductors as Interpretation Challenge at Imaging by Electrons. Materials Transactions, 2007, 48, 936-939.	1.2	7
72	Phase defect inspection of multilayer masks for 13.5nm optical lithography using PEEM in a standing wave mode. Surface Science, 2007, 601, 4758-4763.	1.9	7

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73	Quantitative Lorentz transmission electron microscopy ofÂstructured thin permalloy films. Applied Physics A: Materials Science and Processing, 2009, 96, 671-677.	2.3	7
74	Magnetic stray fields of patterned permalloy structures investigated by photoemission electron microscopy. Applied Physics A: Materials Science and Processing, 2007, 88, 793-796.	2.3	6
75	Vectorial spin polarization detection in multichannel spin-resolved photoemission spectroscopy using an Ir(001) imaging spin filter. Physical Review B, 2017, 95, .	3.2	6
76	Temperature-dependent change of the electronic structure in the Kondo lattice system YbRh₂Si₂. Journal of Physics Condensed Matter, 2021, 33, 205601.	1.8	6
77	Compact setup for spin-, time-, and angle-resolved photoemission spectroscopy. Review of Scientific Instruments, 2020, 91, 063001.	1.3	5
78	Bulk spin polarization of magnetite from spin-resolved hard x-ray photoelectron spectroscopy. Physical Review B, 2021, 104, .	3.2	5
79	Spin Polarimetry and Magnetic Dichroism on a Buried Magnetic Layer Using Hard X-ray Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 016602.	1.5	5
80	Structure Analysis Using Time-of-Flight Momentum Microscopy with Hard X-rays: Status and Prospects. Journal of the Physical Society of Japan, 2022, 91, .	1.6	5
81	Micromagnetism of two-dimensional permalloy particles with different aspect ratios. Applied Physics A: Materials Science and Processing, 2003, 76, 809-815.	2.3	4
82	Quantitative determination of magnetic fields from iron particles of oblong form encapsulated by carbon nanotubes using electron holography. Applied Physics A: Materials Science and Processing, 2009, 94, 543-547.	2.3	4
83	Structure and magnetic properties of one-dimensional chains of ferromagnetic nanoparticles. Applied Physics A: Materials Science and Processing, 2012, 109, 699-702.	2.3	4
84	Momentum-resolved photoelectron absorption in surface barrier scattering on Ir(111) and graphene/Ir(111). Physical Review B, 2017, 96, .	3.2	4
85	Resolution of an emission electron microscope in the presence of magnetic fields on the object. Annalen Der Physik, 2002, 11, 461.	2.4	3
86	Measurement of object height in emission electron microscopy. Applied Physics A: Materials Science and Processing, 2011, 102, 253-258.	2.3	3
87	Investigation of exchange bias effect of fine cobalt particles with oxidized surface. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	3
88	Quadratic magnetooptical effects in two-dimensional permalloy particles investigated by scanning X-ray microscopy. Applied Physics A: Materials Science and Processing, 2013, 111, 557-561.	2.3	3
89	FMR Investigations of Two-dimensional Periodic Arrays of Disc-shaped Co Particles at Different Temperatures. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3587-3591.	1.8	3
90	Detailed study of defects in thin fullerite films. Crystal Research and Technology, 2012, 47, 1255-1268.	1.3	2

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91	Photon-assisted field emission from a Si tip at addition of an AC low voltage. Applied Physics A: Materials Science and Processing, 2015, 120, 161-165.	2.3	2
92	Spin- and time-resolved photoelectron spectroscopy and diffraction studies using time-of-flight momentum microscopes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	2
93	Photoemission electron microscopy of neodymium-iron-boron (Nd2Fe14B). Applied Physics A: Materials Science and Processing, 2007, 86, 515-519.	2.3	1
94	Decoration of atomic steps on (001)NaCl cleavage face during deposition of preformed Ag clusters. Applied Physics A: Materials Science and Processing, 2013, 111, 237-242.	2.3	1
95	Magnetoresistive properties of Fe3O4 nanoparticles embedded in a Cu matrix. Applied Physics A: Materials Science and Processing, 2013, 112, 463-467.	2.3	1
96	Growth and defect studies of CdTe particles. Crystal Research and Technology, 2013, 48, 287-293.	1.3	0
97	Investigation of a Ge nanoparticle film by means of electron stimulated photon emission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2014, 193, 54-57.	1.7	0
98	Test object for emission electron microscope. Applied Physics A: Materials Science and Processing, 2014, 114, 1383-1385.	2.3	0