

Frank O Schumann

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71
papers

956
citations

18
h-index

25
g-index

75
ext. papers

988
ext. citations

3.3
avg, IF

3.97
L-index

#	Paper	IF	Citations
71	Magnetic Instability of Ultrathin fcc Fe _x Ni _{1-x} Films. <i>Physical Review Letters</i> , 1997 , 79, 5166-5169	7.4	58
70	Growth and magnetic properties of Co _x Ni _{1-x} and Fe _x Ni _{1-x} ultrathin films on Cu(100). <i>Physical Review B</i> , 1997 , 56, 2668-2675	3.3	44
69	Correlation effects in two electron photoemission. <i>Physical Review Letters</i> , 2007 , 98, 257604	7.4	43
68	Strong changes in the magnetic properties of ultrathin Co/Cu(001) films due to submonolayer quantities of a nonmagnetic overlayer. <i>Physical Review B</i> , 1995 , 52, 6596-6605	3.3	40
67	Mapping out electron-electron interactions at surfaces. <i>Physical Review Letters</i> , 2005 , 95, 117601	7.4	39
66	Boosting laboratory photoelectron spectroscopy by megahertz high-order harmonics. <i>New Journal of Physics</i> , 2015 , 17, 013035	2.9	32
65	Observation and Structure Determination of an Oxide Quasicrystal Approximant. <i>Physical Review Letters</i> , 2016 , 117, 095501	7.4	30
64	Surface state and resonance effects in electron-pair emission from Cu(111). <i>Physical Review B</i> , 2011 , 84,	3.3	29
63	Paramagnetic-ferromagnetic phase transition during growth of ultrathin Co/Cu(001) films. <i>Physical Review B</i> , 1994 , 50, 16424-16427	3.3	28
62	Mapping the electron correlation in two-electron photoemission. <i>Physical Review B</i> , 2006 , 73,	3.3	26
61	Phase-locked MHz pulse selector for x-ray sources. <i>Optics Letters</i> , 2015 , 40, 2265-8	3	25
60	Anomalous interface magnetism in ultrathin Co films with in-plane anisotropy. <i>Journal of Applied Physics</i> , 1994 , 76, 6093-6095	2.5	24
59	Electron pair emission detected by time-of-flight spectrometers: Recent progress. <i>Applied Physics Letters</i> , 2014 , 104, 061602	3.4	23
58	Element-specific magnetometry with photoelectron dichroism: FeCo and FeNi. <i>Surface Science</i> , 2001 , 478, 211-228	1.8	23
57	Spin-resolved mapping of spin contribution to exchange-correlation holes. <i>Physical Review Letters</i> , 2010 , 104, 087602	7.4	22
56	Effects of atomic-scale Cu structures on the magnetic anisotropy and magneto-optical response of ultrathin Co films. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, L147-L152	1.8	19
55	Dynamics of two-electron photoemission from Cu(111). <i>Physical Review B</i> , 2008 , 77,	3.3	19

54	Structural and magnetic properties of ultrathin fcc FeMn $_{1-x}$ films on Cu(100). <i>Physical Review B</i> , 2004 , 69,	3.3	19
53	Correlated positron-electron emission from surfaces. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 442001	1.8	18
52	Mapping out electron-electron interactions in angular space. <i>New Journal of Physics</i> , 2007 , 9, 372-372	2.9	18
51	Dynamic screening probed by core-resonant double photoemission from surfaces. <i>Physical Review Letters</i> , 2014 , 113, 267603	7.4	17
50	Direct and core-resonant double photoemission from Cu(001). <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 092201	1.8	17
49	Sensing the electron-electron correlation in solids via double photoemission. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1483-1495	1.3	16
48	Spin-reorientation transition in FeNi $_{1-x}$ alloy films. <i>Physical Review B</i> , 2002 , 66,	3.3	16
47	Band-Resolved Double Photoemission Spectroscopy on Correlated Valence Electron Pairs in Metals. <i>Physical Review Letters</i> , 2017 , 118, 136401	7.4	15
46	Magnetic properties of ultrathin Co/Cu(001) films during growth. <i>Journal of Applied Physics</i> , 1993 , 73, 5945-5947	2.5	15
45	Spin-entanglement between two freely propagating electrons: Experiment and theory. <i>Physical Review B</i> , 2017 , 95,	3.3	14
44	Spin-dependent two-electron emission from ferromagnetic Fe(001). <i>Physical Review B</i> , 2011 , 84,	3.3	14
43	Efficient and tunable high-order harmonic light sources for photoelectron spectroscopy at surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 200, 15-21	1.7	13
42	Electron pair emission from surfaces: Diffraction effects. <i>Physical Review B</i> , 2012 , 85,	3.3	13
41	Magnetic properties of pseudomorphic ferromagnetic alloy films on Cu(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995 , 13, 1531-1533	2.9	13
40	Growth and magnetic properties of FeNi $_{1-x}$ ultrathin films on Cu(100). <i>Journal of Applied Physics</i> , 1996 , 79, 5635	2.5	13
39	Magnetic switching, relaxation, and domain structure of a Co/Si(111) film. <i>Journal of Applied Physics</i> , 1993 , 74, 5658-5665	2.5	12
38	Electron pair emission from surfaces: Intensity relations. <i>Physical Review B</i> , 2016 , 93,	3.3	11
37	Electron pair production at surfaces: Response to occupied Shockley state. <i>Physical Review B</i> , 2013 , 88,	3.3	11

36	Electron pair emission from a highly correlated material. <i>Physical Review B</i> , 2012 , 86,	3.3	11
35	Photoemission study of Fermi surfaces of pseudomorphic Co, Ni, and CoNi _{1-x} films on Cu(100). <i>Physical Review B</i> , 1999 , 60, 17030-17036	3.3	11
34	Energy relations of positron-electron pairs emitted from surfaces. <i>Physical Review Letters</i> , 2014 , 113, 107601	7.4	10
33	Structural and magnetic instabilities in ultrathin Fe-rich alloy films on Cu(100). <i>Physical Review B</i> , 2004 , 69,	3.3	10
32	Laser-based double photoemission spectroscopy at surfaces. <i>Progress in Surface Science</i> , 2020 , 95, 1005726	7.2	8
31	NiO growth on Ag(001): A layer-by-layer vibrational study. <i>Physical Review B</i> , 2016 , 94,	3.3	8
30	Exploring highly correlated materials via electron pair emission: the case of NiO/Ag(100). <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 094002	1.8	8
29	Electron pair emission from a Cu(111) surface upon photon absorption. <i>Physical Review B</i> , 2008 , 77,	3.3	8
28	Correlated Electron Dynamics at Surfaces Investigated via He ²⁺ Ion Neutralization. <i>Physical Review Letters</i> , 2017 , 118, 136402	7.4	7
27	Positron-electron pairs emitted from metallic and oxide surfaces. <i>Physical Review B</i> , 2015 , 92,	3.3	7
26	Generalized description of magnetic x-ray circular dichroism in Fe 3p photoelectron emission. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 1766-1769	2.9	7
25	Magnetic dichroism effect of binary alloys using a circularly polarized x ray. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 2287-2290	2.9	7
24	Magnetic behavior of Fe _x Ni(1-x) and Co _x Ni(1-x) pseudomorphic films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996 , 14, 3189		6
23	Double electron emission from surfaces via low-energy positrons. <i>Physical Review B</i> , 2019 , 100,	3.3	5
22	Double photoemission from Ag and Pd surfaces: Energy relations. <i>Physical Review B</i> , 2020 , 101,	3.3	5
21	Comparison of magnetic linear dichroism in 4f photoemission and 4d π f photoemission from Gd on Y(0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1997 , 15, 1755-1758	2.9	5
20	Perpendicular anisotropy in Ni rich Ni _x Mn _{1-x} ultrathin films. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6029-6040	1.8	5
19	Core-resonant double photoemission from palladium films. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 015601	1.8	4

18	The LVV Auger line shape of sulfur on copper studied by Auger photoelectron coincidence spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 085003	1.8	4
17	Growth of Fe _x Ni _{1-x} ultrathin films on Cu(100) near the invar concentration. <i>Journal of Applied Physics</i> , 1997 , 81, 3898-3900	2.5	4
16	Effects of Symmetry on Circular and Linear Magnetic Dichroism in Angle-Resolved Photoemission Spectra of Gd/Y(0001) and Fe-Ni/Cu(001). <i>Materials Research Society Symposia Proceedings</i> , 1997 , 475, 493		4
15	Electron pair emission from a W(001) surface: photon versus electron excitation. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 355003	1.8	3
14	Correlated positron-electron emission from LiF (100). <i>Journal of Physics: Conference Series</i> , 2009 , 185, 012051	0.3	3
13	Surface-sensitive, element-specific magnetometry with x-ray linear dichroism. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 1259-1263	2.9	3
12	Magnetic properties of Fe-based alloys. <i>Journal of Applied Physics</i> , 2000 , 87, 5460-5462	2.5	3
11	Extended energy range analysis for angle-resolved time-of-flight photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2018 , 124, 164504	2.5	3
10	SiO ₂ /Si(001) studied by time-resolved valence band photoemission at MHz repetition rates: Linear and nonlinear excitation of surface photovoltage. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019 , 37, 021101	2.9	2
9	Imaging Momentum Space Two-Particle Correlations at Surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900636	1.3	2
8	Electron pair emission from surfaces: Photon versus electron excitation. <i>Physical Review B</i> , 2021 , 103,	3.3	2
7	Evolution of magnetic properties at the interface Fe _x Mn _{1-x} /Ni. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3664-3669		1
6	Triple electron emission from surfaces: Energy and angle relations. <i>Physical Review B</i> , 2021 , 103,	3.3	1
5	Electron pair emission from surfaces: Some general experimental considerations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2022 , 147185	1.7	0
4	Two-particle emission from LiF(1 0 0) upon photon, electron and positron excitation. <i>Journal of Physics: Conference Series</i> , 2009 , 194, 012056	0.3	
3	Fermi surface study of pseudomorphic Fe _{1-x} Ni _x and Co _{1-x} Ni _x thin films on Cu(100). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 1322-1325	2.9	
2	Magnetic Behavior of Ultrathin Films of Pseudomorphic Binary Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 400, 323		
1	On Element-Specific Magnetometry with Linear Dichroism in Photoemission 2000 , 381-389		

