Philippe Schieffer

List of Publications by Year
in descending order

61 papers	803 citations	567281 15 h-index	580821 25 g-index
61 all docs	61 docs citations	61 times ranked	889 citing authors

#	Article	IF	Citations
1	Interplay between Anisotropic Strain Relaxation and Uniaxial Interface Magnetic Anisotropy in Epitaxial Fe Films on (001) GaAs. Physical Review Letters, 2003, 90, 017205.	7.8	128
2	Work function shifts, Schottky barrier height, and ionization potential determination of thin MgO films on Ag(001). Applied Physics Letters, 2010, 97, .	3.3	49
3	Measurement of the valence-band offset at the epitaxial MgO-GaAs(001) heterojunction by x-ray photoelectron spectroscopy. Applied Physics Letters, 2006, 88, 042108.	3.3	45
4	Strong correlation satellites in core level photoemission from Mn in the monolayer range on Ag(001). Journal of Electron Spectroscopy and Related Phenomena, 1999, 104, 127-134.	1.7	33
5	Growth of a flat Mn monolayer on Ag(001). Physical Review B, 1998, 57, 1141-1146.	3.2	31
6	Room-temperature instability of the Mn/Ag(100) interface in the monolayer range. Physical Review B, 1997, 55, 13884-13893.	3.2	24
7	Evidence ofc(2Ã—2)antiferromagnetic order of Mn in an ideal monolayer on Ag(001). Physical Review B, 2000, 62, 2944-2955.	3.2	24
8	Band structure of the epitaxial Feâ•MgOâ•GaAs(001) tunnel junction studied by x-ray and ultraviolet photoelectron spectroscopies. Applied Physics Letters, 2006, 89, 152106.	3.3	23
9	Layer-Resolved Study of Mg Atom Incorporation at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>MgO</mml:mi><mml:mo>/</mml:mo><mml:mi>Ag</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>001</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 407 Td (stretchy="fa	7.8	22
10	Realization of metastable ideal and inverted Mn monolayers on Ag(001). Surface Science, 1998, 400, 95-108.	1.9	19
11	Transport property study of MgOâ€“GaAs(001) contacts for spin injection devices. Applied Physics Letters, 2007, 91, 172112.	3.3	19
12	Interface bonding of a ferromagnetic/semiconductor junction: A photoemission study ofFeâ•ZnSe(001). Physical Review B, 2006, 73, .	3.2	18
13	Spatially resolved electronic properties of MgO/GaAs(001) tunnel barrier studied by ballistic electron emission microscopy. Applied Physics Letters, 2008, 93, .	3.3	17
14	Initial growth and structure of Mn on Ag(100): Formation of a superficial alloy. Solid State Communications, 1996, 97, 757-761.	1.9	15
15	Stabilization of a face-centered-cubic Mn structure with the Ag lattice parameter. Journal of Magnetism and Magnetic Materials, 1997, 165, 180-184.	2.3	15
16	In-plane magnetic anisotropies in epitaxial Fe(001) thin films. Physical Review B, 2008, 78, .	3.2	15
17	Tuning the Schottky barrier height at MgO/metal interface. Applied Physics Letters, 2012, 100, 022103.	3.3	15
18	Induced work function changes at Mg-doped MgO/Ag(001) interfaces: Combined Auger electron diffraction and density functional study. Physical Review B, 2014, 90, .	3.2	15

#	Article	IF	Citations
19	Atomic structure of the surface alloy formed by a room-temperature-deposited Mn monolayer on Ag(001). Physical Review B, 1998, 57, 15507-15512.	3.2	14
20	Atomic structure of the Ag(001)c(2Ã—2) Mn surface alloy. Physical Review B, 2002, 65, .	3.2	13
21	Epitaxial growth of Fe films on cubic GaN(001). Journal of Crystal Growth, 2002, 240, 236-240.	1.5	13
22	Epitaxial IIIâ€“V/Si Vertical Heterostructures with Hybrid 2Dâ€“Semimetal/Semiconductor Ambipolar and Photoactive Properties. Advanced Science, 2022, 9, e2101661.	11.2	13
23	Formation of c(2Ã—2) Mnâ€“Ag superficial bilayer alloys on Ag(001): role of thermally activated surface atomic exchange and ordering. Surface Science, 2000, 446, 175-186.	1.9	12
24	Formation of a body-centered-cubic Fe-based alloy at the Feâ•GaAs(001) interface. Applied Physics Letters, 2006, 89, 161923.	3.3	12
25	Transverse-momentum selection rules for ballistic electrons at epitaxial metal/GaAs(001) interfaces. Physical Review B, 2010, 81, .	3.2	12
26	Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metalâ€“Siliconâ€“Metal Vertical Structures. Nano Letters, 2019, 19, 90-99.	9.1	12
27	Bias Dependence of the Electrical Spin Injection into GaAs from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Co</mml:mi><mml:mtext>â•</mml:mtext><mml:mi>Fe</mml:mi><mml:mtext>â•</mml:mtext><mml:mi mathvariant="normal">B</mml:mi><mml:mo>/</mml:mo><mml:mi>MgO</mml:mi></mml:mrow></mml:math> Injectors with Different MgO Growth Processes. Physical Review Applied, 2017, 8, .	4.6	11
28	Growth and magnetism of one Mn monolayer on Ag(100). Journal of Applied Physics, 1998, 83, 7013-7015.	2.5	10
29	A low Schottky barrier height and transport mechanism in goldâ€“grapheneâ€“silicon (001) heterojunctions. Nanoscale Advances, 2019, 1, 3372-3378.	4.6	10
30	Initial stages of growth of Mn on Ag(100) studied by X-ray photoelectron diffraction and valence band photoemission. Surface Science, 1996, 352-354, 823-827.	1.9	9
31	High spin state of Mn in an ideal monolayer on Ag(001). European Physical Journal B, 1999, 8, 165-168.	1.5	9
32	X-ray photoelectron diffraction from cubic GaN(0 0 1): an experimental and theoretical study. Surface Science, 2001, 482-485, 593-599.	1.9	9
33	Substrate disruption and surface segregation for Fe/InAs(). Surface Science, 2002, 497, 341-348.	1.9	9
34	Electronic properties of metal/MgO(001) interfaces. European Physical Journal Special Topics, 2006, 132, 63-67.	0.2	9
35	Relative stability of an on-top and an inverted Mn monolayer on Ag(1 0 0): Experiment and theory. Computational Materials Science, 1998, 10, 260-264.	3.0	8
36	Effect of oxygen vacancies at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Fe</mml:mi><mml:mtext>/</mml:mtext><mml:msub><m interface: Schottky barrier and surface electron accumulation layer. Physical Review B, 2018, 98, .	3.2	8

#	Article	IF	Citations
37	Segregation of Cu on annealed ultrathin Cr films deposited on Cu(001). Surface Science, 1996, 349, 81-87.	1.9	7
38	Formation of a two-dimensional Ag(001) monolayer on epitaxially stabilized Mn(001). Surface Science, 1998, 398, 332-341.	1.9	7
39	Fe3GaAs/GaAs(0 01): a stable and magnetic metal-semiconductor heterostructure. Thin Solid Films, 2004, 446, 6-11.	1.8	7
40	SEXAFS investigation of bct Mn grown epitaxially on Ag(001) at room temperature. Surface Science, 1999, 422, 132-140.	1.9	6
41	Quantitative magnetic imaging at the nanometer scale by ballistic electron magnetic microscopy. Journal of Applied Physics, 2013, 113, .	2.5	6
42	Origin of weak Fermi level pinning at the graphene/silicon interface. Physical Review B, 2020, 102, .	3.2	6
43	k-space spin filtering effect in the epitaxial Fe/Au/Fe/GaAs(001) spin-valve. Applied Physics Letters, 2013, 103, 202408.	3.3	5
44	Luminescence in undoped and Nb-doped SrTiO3 crystals: Bulk and surface emission. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 283, 115830.	3.5	5
45	Band alignments in Fe/graphene/Si(001) junctions studied by x-ray photoemission spectroscopy. Applied Physics Letters, 2016, 109, 051601.	3.3	4
46	Reduction of Schottky Barrier Height at Graphene/Germanium Interface with Surface Passivation. Applied Sciences (Switzerland), 2019, 9, 5014.	2.5	4
47	GROWTH OF ULTRATHIN Mn FILMS ON Ag(100). Surface Review and Letters, 1997, 04, 1251-1256.	1.1	3
48	The early stages of growth of Mn deposited at room temperature on Ag(001) studied by MnK-edge SEXAFS and MnL2,L3-edges XAS. Journal of Synchrotron Radiation, 1999, 6, 784-786.	2.4	3
49	Effective Metal Top Contact on the Organic Layer via Buffer-Layer-Assisted Growth: A Multiscale Characterization of Au/Hexadecanethiol/n-GaAs(100) Junctions. Journal of Physical Chemistry C, 2016, 120, 24056-24062.	3.1	3
50	Band Bending in Mg-Colored and O₂-Activated Ultrathin MgO(001) Films. Journal of Physical Chemistry C, 2017, 121, 4363-4367.	3.1	3
51	Schottky barrier formation at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Fe</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi> (001) interface: Influence of oxygen vacancies and layer oxidation. Physical Review B, 2020, 102, .	3.2	3
52	Interface formation and structural properties of iron films on Al0.48In0.52As(001). European Physical Journal Special Topics, 2006, 132, 225-229.	0.2	3
53	Crystallographic and electronic structure of Cu/Cr/Cu(001) sandwiches. Thin Solid Films, 1996, 275, 133-136.	1.8	2
54	Growth of pseudomorphic body centered tetragonal Mn films with an abrupt interface on Ag(001). Surface Science, 1998, 402-404, 318-321.	1.9	2

#	Article	IF	Citations
55	HUGE MAGNETOVOLUME EFFECT IN AN INVERTED Mn LAYER ON Ag(001) STUDIED BY LEED. Surface Review and Letters, 2002, 09, 1431-1436.	1.1	2
56	Structural and magnetic anisotropy properties in epitaxial Fe films on Al/sub 0.48/In/sub 0.52/As(001). IEEE Transactions on Magnetics, 2005, 41, 3322-3324.	2.1	2
57	Growth and Magnetism of One Mn Monolayer on Ag. , 0, , .		0
58	Structural and magnetic anisotropy properties in epitaxial Fe films on Al/sub 0.48/In/sub 0.52/As [001]. , 2005, , .		0
59	Transport mechanisms in MgO/GaAs(001) delta-doped junctions. Applied Physics Letters, 2011, 98, 112108.	3.3	0
60	Optical and structural characterization of thin MoS2 layers on SiO2/Si substrates, towards the development of MoS2/Si heterojunction photovoltaics. , 2021, , .		0
61	Energy dependence of interference phenomena in the forward-scattering regime of photoelectron diffraction. Journal of Electron Spectroscopy and Related Phenomena, 2022, 256, 147176.	1.7	0