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	Epitaxial IIIâ€“V/Si Vertical Heterostructures with Hybrid 2Dâ€“Semimetal/Semiconductor Ambipolar and Photoactive Properties. Advanced Science, 2022, 9, e2101661.	11.2	13
2	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
3	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
4	Optical and structural characterization of thin MoS2 layers on SiO2/Si substrates, towards the development of MoS2/Si heterojunction photovoltaics. , 2021, , .		0
5	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	6
6	Origin of weak Fermi level pinning at the graphene/silicon interface. Physical Review B, 2020, 102, .	3.2	6
7	A low Schottky barrier height and transport mechanism in goldâ€“grapheneâ€“silicon (001) heterojunctions. Nanoscale Advances, 2019, 1, 3372-3378.	4.6	10
8	Reduction of Schottky Barrier Height at Graphene/Germanium Interface with Surface Passivation. Applied Sciences (Switzerland), 2019, 9, 5014.	2.5	4
9	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
10	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><mml:m interface: Schottky barrier and surface electron accumulation layer. Physical Review B, 2018, 98, .	3.2	8
11	Band Bending in Mg-Colored and O₂-Activated Ultrathin MgO(001) Films. Journal of Physical Chemistry C, 2017, 121, 4363-4367.	3.1	3
12	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, .	3.8	11
13	Band alignments in Fe/graphene/Si(001) junctions studied by x-ray photoemission spectroscopy. Applied Physics Letters, 2016, 109, 051601.	3.3	4
14	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
15	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
16	Quantitative magnetic imaging at the nanometer scale by ballistic electron magnetic microscopy. Journal of Applied Physics, 2013, 113, .	2.5	6
17	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 87 Td (stretchy="fals	7.8	22
18	k-space spin filtering effect in the epitaxial Fe/Au/Fe/GaAs(001) spin-valve. Applied Physics Letters, 2013, 103, 202408.	3.3	5

#	Article	IF	Citations
19	Tuning the Schottky barrier height at MgO/metal interface. Applied Physics Letters, 2012, 100, 022103.	3.3	15
20	Transport mechanisms in MgO/GaAs(001) delta-doped junctions. Applied Physics Letters, 2011, 98, 112108.	3.3	0
21	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
22	Transverse-momentum selection rules for ballistic electrons at epitaxial metal/GaAs(001) interfaces. Physical Review B, 2010, 81, .	3.2	12
23	Spatially resolved electronic properties of MgO/GaAs(001) tunnel barrier studied by ballistic electron emission microscopy. Applied Physics Letters, 2008, 93, .	3.3	17
24	In-plane magnetic anisotropies in epitaxial Fe(001) thin films. Physical Review B, 2008, 78, .	3.2	15
25	Transport property study of MgOâ€“GaAs(001) contacts for spin injection devices. Applied Physics Letters, 2007, 91, 172112.	3.3	19
26	Electronic properties of metal/MgO(001) interfaces. European Physical Journal Special Topics, 2006, 132, 63-67.	0.2	9
27	Formation of a body-centered-cubic Fe-based alloy at the Feâˆ•GaAs(001) interface. Applied Physics Letters, 2006, 89, 161923.	3.3	12
28	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
29	Interface bonding of a ferromagnetic/semiconductor junction: A photoemission study ofFeâˆ•ZnSe(001). Physical Review B, 2006, 73, .	3.2	18
30	Band structure of the epitaxial Feâˆ•MgOâˆ•GaAs(001) tunnel junction studied by x-ray and ultraviolet photoelectron spectroscopies. Applied Physics Letters, 2006, 89, 152106.	3.3	23
31	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
32	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
33	Structural and magnetic anisotropy properties in epitaxial Fe films on Al/sub 0.48/In/sub 0.52/As [001]. , 2005, , .		0
34	Fe3GaAs/GaAs(0 01): a stable and magnetic metal-semiconductor heterostructure. Thin Solid Films, 2004, 446, 6-11.	1.8	7
35	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
36	Atomic structure of the Ag(001)c(2Ã—2) Mn surface alloy. Physical Review B, 2002, 65, .	3.2	13

#	Article	IF	Citations
37	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
38	Substrate disruption and surface segregation for Fe/InAs(). Surface Science, 2002, 497, 341-348.	1.9	9
39	Epitaxial growth of Fe films on cubic GaN(001). Journal of Crystal Growth, 2002, 240, 236-240.	1.5	13
40	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
41	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
42	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
43	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
44	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
45	High spin state of Mn in an ideal monolayer on Ag(001). European Physical Journal B, 1999, 8, 165-168.	1.5	9
46	SEXAFS investigation of bct Mn grown epitaxially on Ag(001) at room temperature. Surface Science, 1999, 422, 132-140.	1.9	6
47	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
48	Realization of metastable ideal and inverted Mn monolayers on Ag(001). Surface Science, 1998, 400, 95-108.	1.9	19
49	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
50	Formation of a two-dimensional Ag(001) monolayer on epitaxially stabilized Mn(001). Surface Science, 1998, 398, 332-341.	1.9	7
51	Growth of a flat Mn monolayer on Ag(001). Physical Review B, 1998, 57, 1141-1146.	3.2	31
52	Growth and magnetism of one Mn monolayer on Ag(100). Journal of Applied Physics, 1998, 83, 7013-7015.	2.5	10
53	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
54	GROWTH OF ULTRATHIN Mn FILMS ON Ag(100). Surface Review and Letters, 1997, 04, 1251-1256.	1.1	3

#	Article	IF	Citations
55	Room-temperature instability of the Mn/Ag(100) interface in the monolayer range. Physical Review B, 1997, 55, 13884-13893.	3.2	24
56	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
57	Segregation of Cu on annealed ultrathin Cr films deposited on Cu(001). Surface Science, 1996, 349, 81-87.	1.9	7
58	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
59	Crystallographic and electronic structure of Cu/Cr/Cu(001) sandwiches. Thin Solid Films, 1996, 275, 133-136.	1.8	2
60	Initial growth and structure of Mn on Ag(100): Formation of a superficial alloy. Solid State Communications, 1996, 97, 757-761.	1.9	15
61	Growth and Magnetism of One Mn Monolayer on Ag. , 0, , .		0