Carlo Carbone

List of Publications by Year in descending order

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CARLOCARRONE

#	Article	IF	CITATIONS
1	Giant Magnetic Anisotropy of Single Cobalt Atoms and Nanoparticles. Science, 2003, 300, 1130-1133.	12.6	967
2	Ferromagnetism in one-dimensional monatomic metal chains. Nature, 2002, 416, 301-304.	27.8	795
3	Evidence of graphene-like electronic signature in silicene nanoribbons. Applied Physics Letters, 2010, 96, .	3.3	555
4	Spin-polarized photoemission study of epitaxial Fe(001) films on Ag(001). Physical Review Letters, 1986, 57, 142-145.	7.8	223
5	Electronic properties and atomic structure of graphene oxide membranes. Carbon, 2011, 49, 966-972.	10.3	223
6	Exchange split quantum well states of a noble metal film on a magnetic substrate. Physical Review Letters, 1993, 71, 2805-2808.	7.8	195
7	Antiparallel coupling between Fe layers separated by a Cr interlayer: Dependence of the magnetization on the film thickness. Physical Review B, 1987, 36, 2433-2435.	3.2	174
8	Highly Anisotropic Dirac Cones in Epitaxial Graphene Modulated by an Island Superlattice. Physical Review Letters, 2010, 105, 246803.	7.8	121
9	Formation of a ferromagnetic silicide at the Fe/Si(100) interface. Physical Review B, 1997, 56, 10801-10804.	3.2	99
10	Electronic structure of two-dimensional magnetic alloys: c(2×2) Mn on Cu(100) and Ni(100). Physical Review B, 1997, 55, 5404-5415.	3.2	90
11	Chemical bond and electronic states in calcium silicides: Theory and comparison with synchrotron-radiation photoemission. Physical Review B, 1989, 40, 10194-10209.	3.2	83
12	Fe-induced magnetization of Pd: The role of modified Pd surface states. Physical Review Letters, 1994, 72, 2247-2250.	7.8	76
13	Disorder Effects in Electronic Structure of Substituted Transition Metal Compounds. Physical Review Letters, 1998, 80, 4004-4007.	7.8	76
14	Large Band Gap Opening between Graphene Dirac Cones Induced by Na Adsorption onto an Ir Superlattice. ACS Nano, 2012, 6, 199-204.	14.6	76
15	Spin Tuning of Electron-Doped Metal–Phthalocyanine Layers. Journal of the American Chemical Society, 2014, 136, 5451-5459.	13.7	74
16	Electronic states and magnetism of monatomic Co and Cu wires. Physical Review B, 2000, 61, R5133-R5136.	3.2	73
17	Coexistence of multiple silicene phases in silicon grown on Ag(1 1 1). Journal of Physics Condensed Matter, 2014, 26, 185001.	1.8	73
18	Spin-resolved photoelectron energy distributions from the Fe 3p core levels. Solid State Communications, 1988, 65, 1107-1110.	1.9	72

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19	Spin-resolved photoemission study of the reaction ofO2with fcc Co(100). Physical Review B, 1992, 46, 4198-4204.	3.2	63
20	Quantum size effects and the enhancement of the exchange splitting in ultrathin Co overlayers on Cu (100). Solid State Communications, 1992, 81, 739-744.	1.9	61
21	Finite-sized Heisenberg chains and magnetism of one-dimensional metal systems. Applied Physics A: Materials Science and Processing, 2006, 82, 385-394.	2.3	61
22	Finite Temperature Magnetism in Gd: Evidence against a Stoner Behavior. Physical Review Letters, 2002, 88, 167205.	7.8	59
23	Magnetic moments of fcc Fe overlayers on Cu(100) and Co(100). Physical Review B, 1999, 59, 4327-4333.	3.2	58
24	Origin of Cu and ZnL2- andL3-M45M45Auger satellites: Breakdown of the sudden approximation. Physical Review Letters, 1989, 63, 656-659.	7.8	53
25	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). Physical Review B, 2013, 87, ·	3.2	53
26	Magnetic linear dichroism studies of in situ grown NiO thin films. Journal of Magnetism and Magnetic Materials, 2007, 310, 8-12.	2.3	52
27	Evidence for the high-spin to low-spin state transition in orderedFe3Pt Invar. Physical Review Letters, 1987, 58, 1784-1787.	7.8	50
28	Spin- and angle-resolved photoemission study of ultrathin Gd films on Fe(100). Physical Review B, 1987, 36, 1280-1283.	3.2	49
29	Magnetic circular x-ray dichroism of submonolayer Mn on Fe(100). Physical Review B, 1997, 56, 5053-5056.	3.2	49
30	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. Surface Science, 2014, 630, 361-374.	1.9	49
31	Selfâ€Assembled Nanometerâ€Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. Advanced Functional Materials, 2011, 21, 1212-1228.	14.9	48
32	Probing the Ground State Electronic Structure of a Correlated Electron System by Quantum Well States:Ag/Ni(111). Physical Review Letters, 2005, 95, 247601.	7.8	45
33	Electronic States of Silicene Allotropes on Ag(111). ACS Nano, 2017, 11, 975-982.	14.6	45
34	Temperature Driven Phase Transition at the Antimonene/Bi ₂ Se ₃ van der Waals Heterostructure. ACS Nano, 2019, 13, 10481-10489.	14.6	45
35	Exchange-dependent hybridization at the Pd-Fe interface. Physical Review B, 1992, 45, 13823-13826.	3.2	44
36	Ferromagnetic order in ultrathin Rh layers on Fe(100). Physical Review B, 1992, 46, 12888-12891.	3.2	44

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37	Surface magnetism of Gd(0001) films: Evidence for an unexpected phase transition. Physical Review B, 1993, 48, 7731-7734.	3.2	43
38	Circular magnetic x-ray dichroism of 3dimpurities in Ni. Physical Review B, 1994, 49, 4003-4009.	3.2	42
39	Importance of dynamical effects in determining the Auger spectral shape:L23-M45M45spectra of Fe, Co, and Cu. Physical Review B, 1993, 48, 6822-6831.	3.2	41
40	The BESSY wiggler/undulatorâ€TCMâ€5 beamline (invited). Review of Scientific Instruments, 1989, 60, 1445-1450.	1.3	36
41	Exchange-split electronic states of ultrathin Co layers on Cu(111). Physical Review B, 1994, 50, 17496-17501.	3.2	35
42	Correlation satellite driven by reduced dimensionality. Europhysics Letters, 1997, 39, 429-434.	2.0	35
43	Varying molecular interactions by coverage in supramolecular surface chemistry. Chemical Communications, 2012, 48, 534-536.	4.1	34
44	Growth mode and magnetic behavior of thin Fe films onCu3Au(001) studied by low-energy electron diffraction and spin-resolved electron spectroscopies. Physical Review B, 1990, 41, 3426-3433.	3.2	33
45	Nanoscale dynamics by short-wavelength four wave mixing experiments. New Journal of Physics, 2013, 15, 123023.	2.9	33
46	Spin-resolved photoemission study of the clean and oxygen-covered Fe(110) surface. Physical Review B, 1993, 48, 285-288.	3.2	32
47	Spin-dependent electron scattering in ferromagnetic Co layers on Cu(111). Physical Review B, 1995, 52, 13497-13503.	3.2	32
48	Spin polarization of core-level photoelectrons. Physical Review B, 1993, 47, 15391-15396.	3.2	31
49	Electronic and magnetic coupling between rare-earth adatoms and the Fe(001) surface. Physical Review B, 1990, 41, 3866-3869.	3.2	29
50	Spin-polarized surface states of Fe(100). Physical Review B, 1993, 47, 13051-13054.	3.2	29
51	Photoemission study of the Fe 3s spin resolved spectral distribution. Solid State Communications, 1991, 77, 619-622.	1.9	28
52	Solid-state effects in photoionization cross sections ofdstates: Comparison betweenMoS2and Mo. Physical Review B, 1985, 32, 5459-5461.	3.2	27
53	Photoemission of intermetallics. Journal of Magnetism and Magnetic Materials, 1987, 70, 21-27.	2.3	27
54	Synchrotron-radiation study of the satellites in NiL3-M4,5M4,5Auger spectra. Physical Review B, 1989, 40, 12542-12545.	3.2	27

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55	Electronic Structure of and the Metal-Insulator Transition in La _{1- <i>x</i>} Sr _{<i>x</i>} CoO _{3-l´} : A Soft-X-Ray Absorption Study. Europhysics Letters, 1992, 19, 513-518.	2.0	27
56	Short-period oscillations in photoemission from Cu films on Co(100). Physical Review B, 1998, 57, R696-R699.	3.2	27
57	Spin-Flop Ordering from Frustrated Ferro- and Antiferromagnetic Interactions: A Combined Theoretical and Experimental Study of aMn/Fe(100)Monolayer. Physical Review Letters, 2005, 95, 117201.	7.8	27
58	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. ACS Nano, 2016, 10, 1101-1107.	14.6	27
59	Direct Spectroscopic Evidence of Spin-Dependent Hybridization between Rashba-Split Surface States and Quantum-Well States. Physical Review Letters, 2010, 104, 156805.	7.8	26
60	Electronic and magnetic structure of epitaxial Fe and Co monolayers on AU(001) by spin-polarized photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1990, 51, 701-712.	1.7	25
61	Spin-resolved-photoemission-spectroscopy study of the giant resonance in Gd overlayers on Fe(100). Physical Review B, 1992, 45, 7267-7271.	3.2	25
62	Sarmaet al. reply. Physical Review Letters, 1991, 66, 967-967.	7.8	24
63	One-Dimensional Spin-Polarized Quantum-Wire States in Au on Ni(110). Physical Review Letters, 2000, 85, 2561-2564.	7.8	23
64	Quasicrystalline Electronic States of a One-Dimensionally Modulated Ag Film. Physical Review Letters, 2006, 96, 156401.	7.8	23
65	Correlated Electrons Step by Step: Itinerant-to-Localized Transition of Fe Impurities in Free-Electron Metal Hosts. Physical Review Letters, 2010, 104, 117601.	7.8	22
66	Spin-orbit interaction and Dirac cones ind-orbital noble metal surface states. Physical Review B, 2015, 91, .	3.2	22
67	Indirect chiral magnetic exchange through Dzyaloshinskii–Moriya-enhanced RKKY interactions in manganese oxide chains on Ir(100). Nature Communications, 2019, 10, 2610.	12.8	22
68	Synchrotron radiation studies of the effect of thermal treatment on the Si(111)-Yb interfaces. Surface Science, 1986, 168, 193-203.	1.9	21
69	Spinâ€polarized photoemission from quantum well and interface states (invited). Journal of Applied Physics, 1994, 76, 6966-6971.	2.5	21
70	Two Distinct Phases of Bilayer Graphene Films on Ru(0001). ACS Nano, 2012, 6, 9299-9304.	14.6	21
71	5f-band width and resonant photoemission of uranium intermetallic compounds. Physical Review B, 1987, 36, 2916-2919.	3.2	20
72	Spinâ€resolved photoemission from Fe3Pt(001) Invar and γâ€Fe films (invited). Journal of Applied Physics, 1988, 63, 3499-3502.	2.5	20

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73	Two-dimensional spin-polarized states of Ag on Fe(100). Physical Review B, 1995, 51, 12418-12424.	3.2	20
74	Electronic Band Structure of Gd: A Consistent Description. Physical Review Letters, 2001, 86, 2846-2849.	7.8	20
75	Probing Quasiparticle States Bound by Disparate Periodic Potentials. Physical Review Letters, 2006, 97, 206802.	7.8	20
76	Oxidation of epitaxial Ce films. Physical Review B, 1996, 53, 4142-4147.	3.2	19
77	Photoemission studies of mixed valence in Yb3Si3, YbSi and Yb5Si3: Equivalent versus inequivalent Yb sites. Solid State Communications, 1987, 62, 35-39.	1.9	18
78	Angle-resolved-photoemission study of the electronic structure of Gd(0001). Physical Review B, 1993, 47, 13899-13902.	3.2	18
79	Absence of Dirac cones in monolayer silicene and multilayer Si films on Ag(111). Journal of Electron Spectroscopy and Related Phenomena, 2017, 219, 2-8.	1.7	18
80	Resonant-photoemission study of Fe(100). Physical Review B, 1987, 35, 1616-1619.	3.2	17
81	Photoemission spectroscopy ofYb3Si5and its connection with Si-Yb interfaces. Physical Review B, 1986, 34, 4150-4154.	3.2	16
82	Magnetic and finite size effects in Cu films on Co(100). Solid State Communications, 1996, 100, 749-753.	1.9	16
83	Synchrotron radiation study of the photoionization cross sections for the whole valence band of 2H-MoS2. Journal of Electron Spectroscopy and Related Phenomena, 1986, 40, 353-362.	1.7	15
84	The epitaxial growth of Fe on GaAs(110): Development of the electronic structure and interface formation. Solid State Communications, 1987, 61, 297-301.	1.9	15
85	Investigation of hole-doped insulatingLa1â^'xSrxCrO3by soft-x-ray absorption spectroscopy. Physical Review B, 1996, 53, 13369-13373.	3.2	15
86	Spin-resolved angle-dependent photoemission study of orderedFe3Pt(001) Invar. Physical Review B, 1987, 35, 7760-7763.	3.2	14
87	Excitation Spectra of Transition-Metal Atoms on the Ag (100) Surface Controlled by Hund's Exchange. Physical Review Letters, 2013, 110, 186404.	7.8	14
88	Electronic structure of the Yb/Ge(111) interface. Physical Review B, 1986, 33, 864-872.	3.2	13
89	High-energy spectroscopic study of YBa2Cu2.7Fe0.3O6.9with photon energy near the O1sthreshold. Physical Review B, 1989, 39, 12387-12390.	3.2	12
90	Inelastic photoelectron diffraction from Si. Physical Review B, 1992, 46, 13215-13219.	3.2	12

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91	Layer-dependent photoemission study of magnetically ordered Sm monolayers on Fe(100). Physical Review B, 1992, 46, 4788-4794.	3.2	12
92	Parallel, antiparallel and no magnetic coupling in submonolayer Mn on Fe(110). Europhysics Letters, 1999, 46, 231-237.	2.0	11
93	Hidden phase in parent Fe-pnictide superconductors. Physical Review B, 2018, 97, .	3.2	11
94	Magnetic quantum size effects in Cu films on Co(100). Journal of Magnetism and Magnetic Materials, 1996, 156, 259-260.	2.3	9
95	Slow Magnetic Relaxation of Dy Adatoms with In-Plane Magnetic Anisotropy on a Two-Dimensional Electron Gas. ACS Nano, 2022, 16, 11182-11193.	14.6	9
96	Depth-resolved core level spectroscopy of noncentrosymmetric solid BiPd. Physical Review B, 2020, 101, .	3.2	8
97	Resonant photoemission fromCe24Co11at the 4d-4fthreshold. Physical Review B, 1991, 44, 13756-13759.	3.2	7
98	Analysis of the Ce 3d-4d4dAuger spectrum with the use of synchrotron radiation. Physical Review B, 1993, 47, 4853-4857.	3.2	7
99	Photoemission studies of Si(1 1 1)-Yb interfaces: What can be learned from Yb mixed valence. Solid State Communications, 1986, 60, 595-598.	1.9	6
100	Resonant photoemission at the 5p threshold in La, Pr, Sm and Tb. Journal of Electron Spectroscopy and Related Phenomena, 1986, 41, 59-66.	1.7	6
101	Electronic states of moirÃ $f C$ modulated Cu films. Journal of Physics Condensed Matter, 2012, 24, 335502.	1.8	6
102	Spectroscopic evidence for the removal of mobile holes on Fe doping in YBa2Cu3-xFexO7-δ. Solid State Communications, 1991, 77, 381-383.	1.9	5
103	Exchange splitting in ultrathin Fe films deposited on Ag(100). Solid State Communications, 1995, 94, 751-755.	1.9	5
104	Optimizing long-range order, band gap, and group velocities for graphene on close-packed metal surfaces. Journal of Physics Condensed Matter, 2012, 24, 314203.	1.8	5
105	Dirac states in the noncentrosymmetric superconductor BiPd. Physical Review B, 2021, 103, .	3.2	5
106	Emergence of well-screened states in a superconducting material of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaFe</mml:mi><mn family. Physical Review B, 2021, 104, .</mn </mml:msub></mml:mrow></mml:math 	າ l:ກສດ 2×/າ	mm ti: mn>
107	Spin-polarized angle-resolved UV photoelectron spectroscopy (SP-ARUPS) study of the electronic structure of disordered ferromagnetic Fe0.65 Ni0.35 Invar alloy. Solid State Communications, 1989, 72, 1111-1115.	1.9	4
108	Volume plasmon losses in Si2pphotoemission spectra for photon energies up to 1600 eV. Journal of Electron Spectroscopy and Related Phenomena, 1990, 50, 353-359.	1.7	4

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109	The formation of the reacted interface for the Si/Cu/Pd system: An ultraviolet photoemission study. Solid State Communications, 1983, 48, 735-738.	1.9	3
110	X-ray absorption spectroscopy of platinum silicides: The L2,3 and M2,3 edges of platinum. Thin Solid Films, 1986, 140, 105-114.	1.8	3
111	Electronic structure and magnetism of epitaxial Fe monolayers on Au(001) by spin-polarized photoelectron spectroscopy. Vacuum, 1990, 41, 493-495.	3.5	3
112	Magnetic decoupling of ferromagnetic metals through a graphene spacer. Journal of Magnetism and Magnetic Materials, 2017, 426, 440-443.	2.3	3
113	Electron Confinement Effects in Silver Films Embedded between Graphene and Metallic Substrates. Journal of Physical Chemistry C, 2019, 123, 9764-9769.	3.1	3
114	Spin-resolved photoemission study of the electronic and magnetic coupling between rare earth adatoms and the Fe(001) surface. Vacuum, 1990, 41, 496-499.	3.5	2
115	Oscillatory interlayer coupling mediated by fcc-Fe/Co(1 0 0) films. Applied Surface Science, 2001, 182, 302-307.	6.1	2
116	Quantum well band formation in Ag films on InSb(111). Journal of Physics Condensed Matter, 2009, 21, 355502.	1.8	2
117	Gold at the Si(111)-Pd interface; modification of atomic interdiffusion. Journal of Electron Spectroscopy and Related Phenomena, 1985, 35, 289-297.	1.7	1
118	Role of interface gap states during the formation of the Feî—,GaAs(110) Schottky barrier. Vacuum, 1990, 41, 1062-1063.	3.5	1
119	Analysis of the Gd 4d-XYAuger spectrum using synchrotron radiation. Physical Review B, 1993, 47, 9199-9202.	3.2	1
120	Electronic structure study of ultrathin Ag(111) films modified by a Si(111) substrate and \$sqrt{3}imes sqrt{3}\$-Ag ₂ Bi surface. Journal of Physics Condensed Matter, 2012, 24, 115501.	1.8	1
121	Interplay between electronic and structural properties in the Pb/Ag(1 0 0) interface. Journal of Physics Condensed Matter, 2015, 27, 455502.	1.8	1
122	Spin-polarized confined states in Ag films on Fe(1 1 0). Journal of Physics Condensed Matter, 2017, 29, 495806.	1.8	1
123	Spin- and angle-dependent photoemission from Fe3Pt Invar. Journal of Magnetism and Magnetic Materials, 1987, 70, 435.	2.3	0
124	Spectroscopic signatures of an ordered array of independent Ag heptamers. Journal of Physics Condensed Matter, 2015, 27, 305502.	1.8	0
125	Doping induced band renormalization in 122-type Fe-based superconductor. Journal of Physics: Conference Series, 2022, 2164, 012004.	0.4	0
126	Surface states in noncentrosymmetric superconductor BiPd. Journal of Physics: Conference Series, 2022, 2164, 012062.	0.4	0