

Carlo Carbone

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Giant Magnetic Anisotropy of Single Cobalt Atoms and Nanoparticles. <i>Science</i> , 2003, 300, 1130-1133.	6.0	967
2	Ferromagnetism in one-dimensional monatomic metal chains. <i>Nature</i> , 2002, 416, 301-304.	13.7	795
3	Evidence of graphene-like electronic signature in silicene nanoribbons. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	555
4	Spin-polarized photoemission study of epitaxial Fe(001) films on Ag(001). <i>Physical Review Letters</i> , 1986, 57, 142-145.	2.9	223
5	Electronic properties and atomic structure of graphene oxide membranes. <i>Carbon</i> , 2011, 49, 966-972.	5.4	223
6	Exchange split quantum well states of a noble metal film on a magnetic substrate. <i>Physical Review Letters</i> , 1993, 71, 2805-2808.	2.9	195
7	Antiparallel coupling between Fe layers separated by a Cr interlayer: Dependence of the magnetization on the film thickness. <i>Physical Review B</i> , 1987, 36, 2433-2435.	1.1	174
8	Highly Anisotropic Dirac Cones in Epitaxial Graphene Modulated by an Island Superlattice. <i>Physical Review Letters</i> , 2010, 105, 246803.	2.9	121
9	Formation of a ferromagnetic silicide at the Fe/Si(100) interface. <i>Physical Review B</i> , 1997, 56, 10801-10804.	1.1	99
10	Electronic structure of two-dimensional magnetic alloys: $c(2\sqrt{2})$ Mn on Cu(100) and Ni(100). <i>Physical Review B</i> , 1997, 55, 5404-5415.	1.1	90
11	Chemical bond and electronic states in calcium silicides: Theory and comparison with synchrotron-radiation photoemission. <i>Physical Review B</i> , 1989, 40, 10194-10209.	1.1	83
12	Fe-induced magnetization of Pd: The role of modified Pd surface states. <i>Physical Review Letters</i> , 1994, 72, 2247-2250.	2.9	76
13	Disorder Effects in Electronic Structure of Substituted Transition Metal Compounds. <i>Physical Review Letters</i> , 1998, 80, 4004-4007.	2.9	76
14	Large Band Gap Opening between Graphene Dirac Cones Induced by Na Adsorption onto an Ir Superlattice. <i>ACS Nano</i> , 2012, 6, 199-204.	7.3	76
15	Spin Tuning of Electron-Doped Metal-Phthalocyanine Layers. <i>Journal of the American Chemical Society</i> , 2014, 136, 5451-5459.	6.6	74
16	Electronic states and magnetism of monatomic Co and Cu wires. <i>Physical Review B</i> , 2000, 61, R5133-R5136.	1.1	73
17	Coexistence of multiple silicene phases in silicon grown on Ag(111). <i>Journal of Physics Condensed Matter</i> , 2014, 26, 185001.	0.7	73
18	Spin-resolved photoelectron energy distributions from the Fe 3p core levels. <i>Solid State Communications</i> , 1988, 65, 1107-1110.	0.9	72

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19	Spin-resolved photoemission study of the reaction of O ₂ with fcc Co(100). <i>Physical Review B</i> , 1992, 46, 4198-4204.	1.1	63
20	Quantum size effects and the enhancement of the exchange splitting in ultrathin Co overlayers on Cu(100). <i>Solid State Communications</i> , 1992, 81, 739-744.	0.9	61
21	Finite-sized Heisenberg chains and magnetism of one-dimensional metal systems. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 385-394.	1.1	61
22	Finite Temperature Magnetism in Gd: Evidence against a Stoner Behavior. <i>Physical Review Letters</i> , 2002, 88, 167205.	2.9	59
23	Magnetic moments of fcc Fe overlayers on Cu(100) and Co(100). <i>Physical Review B</i> , 1999, 59, 4327-4333.	1.1	58
24	Origin of Cu and Zn L ₂ - and L ₃ -M ₄₅ Auger satellites: Breakdown of the sudden approximation. <i>Physical Review Letters</i> , 1989, 63, 656-659.	2.9	53
25	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). <i>Physical Review B</i> , 2013, 87, .	1.1	53
26	Magnetic linear dichroism studies of in situ grown NiO thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 8-12.	1.0	52
27	Evidence for the high-spin to low-spin state transition in ordered Fe ₃ Pt Invar. <i>Physical Review Letters</i> , 1987, 58, 1784-1787.	2.9	50
28	Spin- and angle-resolved photoemission study of ultrathin Gd films on Fe(100). <i>Physical Review B</i> , 1987, 36, 1280-1283.	1.1	49
29	Magnetic circular x-ray dichroism of submonolayer Mn on Fe(100). <i>Physical Review B</i> , 1997, 56, 5053-5056.	1.1	49
30	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. <i>Surface Science</i> , 2014, 630, 361-374.	0.8	49
31	Self-Assembled Nanometer-Scale Magnetic Networks on Surfaces: Fundamental Interactions and Functional Properties. <i>Advanced Functional Materials</i> , 2011, 21, 1212-1228.	7.8	48
32	Probing the Ground State Electronic Structure of a Correlated Electron System by Quantum Well States: Ag/Ni(111). <i>Physical Review Letters</i> , 2005, 95, 247601.	2.9	45
33	Electronic States of Silicene Allotropes on Ag(111). <i>ACS Nano</i> , 2017, 11, 975-982.	7.3	45
34	Temperature Driven Phase Transition at the Antimonene/Bi ₂ Se ₃ van der Waals Heterostructure. <i>ACS Nano</i> , 2019, 13, 10481-10489.	7.3	45
35	Exchange-dependent hybridization at the Pd-Fe interface. <i>Physical Review B</i> , 1992, 45, 13823-13826.	1.1	44
36	Ferromagnetic order in ultrathin Rh layers on Fe(100). <i>Physical Review B</i> , 1992, 46, 12888-12891.	1.1	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.	1.1	43
38	Circular magnetic x-ray dichroism of 3d impurities in Ni. Physical Review B, 1994, 49, 4003-4009.	1.1	42
39	Importance of dynamical effects in determining the Auger spectral shape: L23-M45M45 spectra of Fe, Co, and Cu. Physical Review B, 1993, 48, 6822-6831.	1.1	41
40	The BESSY wiggler/undulator σ beamline (invited). Review of Scientific Instruments, 1989, 60, 1445-1450.	0.6	36
41	Exchange-split electronic states of ultrathin Co layers on Cu(111). Physical Review B, 1994, 50, 17496-17501.	1.1	35
42	Correlation satellite driven by reduced dimensionality. Europhysics Letters, 1997, 39, 429-434.	0.7	35
43	Varying molecular interactions by coverage in supramolecular surface chemistry. Chemical Communications, 2012, 48, 534-536.	2.2	34
44	Growth mode and magnetic behavior of thin Fe films on Cu ₃ Au(001) studied by low-energy electron diffraction and spin-resolved electron spectroscopies. Physical Review B, 1990, 41, 3426-3433.	1.1	33
45	Nanoscale dynamics by short-wavelength four wave mixing experiments. New Journal of Physics, 2013, 15, 123023.	1.2	33
46	Spin-resolved photoemission study of the clean and oxygen-covered Fe(110) surface. Physical Review B, 1993, 48, 285-288.	1.1	32
47	Spin-dependent electron scattering in ferromagnetic Co layers on Cu(111). Physical Review B, 1995, 52, 13497-13503.	1.1	32
48	Spin polarization of core-level photoelectrons. Physical Review B, 1993, 47, 15391-15396.	1.1	31
49	Electronic and magnetic coupling between rare-earth adatoms and the Fe(001) surface. Physical Review B, 1990, 41, 3866-3869.	1.1	29
50	Spin-polarized surface states of Fe(100). Physical Review B, 1993, 47, 13051-13054.	1.1	29
51	Photoemission study of the Fe 3s spin resolved spectral distribution. Solid State Communications, 1991, 77, 619-622.	0.9	28
52	Solid-state effects in photoionization cross sections of d states: Comparison between MoS ₂ and Mo. Physical Review B, 1985, 32, 5459-5461.	1.1	27
53	Photoemission of intermetallics. Journal of Magnetism and Magnetic Materials, 1987, 70, 21-27.	1.0	27
54	Synchrotron-radiation study of the satellites in Ni L ₃ -M _{4,5} M _{4,5} Auger spectra. Physical Review B, 1989, 40, 12542-12545.	1.1	27

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55	Electronic Structure of and the Metal-Insulator Transition in La _{1-x} Sr _x CoO _{3-δ} : A Soft-X-Ray Absorption Study. <i>Europhysics Letters</i> , 1992, 19, 513-518.	0.7	27
56	Short-period oscillations in photoemission from Cu films on Co(100). <i>Physical Review B</i> , 1998, 57, R696-R699.	1.1	27
57	Spin-Flop Ordering from Frustrated Ferro- and Antiferromagnetic Interactions: A Combined Theoretical and Experimental Study of aMn/Fe(100)Monolayer. <i>Physical Review Letters</i> , 2005, 95, 117201.	2.9	27
58	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. <i>ACS Nano</i> , 2016, 10, 1101-1107.	7.3	27
59	Direct Spectroscopic Evidence of Spin-Dependent Hybridization between Rashba-Split Surface States and Quantum-Well States. <i>Physical Review Letters</i> , 2010, 104, 156805.	2.9	26
60	Electronic and magnetic structure of epitaxial Fe and Co monolayers on Au(001) by spin-polarized photoelectron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1990, 51, 701-712.	0.8	25
61	Spin-resolved-photoemission-spectroscopy study of the giant resonance in Gd overlayers on Fe(100). <i>Physical Review B</i> , 1992, 45, 7267-7271.	1.1	25
62	Sarma et al. reply. <i>Physical Review Letters</i> , 1991, 66, 967-967.	2.9	24
63	One-Dimensional Spin-Polarized Quantum-Wire States in Au on Ni(110). <i>Physical Review Letters</i> , 2000, 85, 2561-2564.	2.9	23
64	Quasicrystalline Electronic States of a One-Dimensionally Modulated Ag Film. <i>Physical Review Letters</i> , 2006, 96, 156401.	2.9	23
65	Correlated Electrons Step by Step: Itinerant-to-Localized Transition of Fe Impurities in Free-Electron Metal Hosts. <i>Physical Review Letters</i> , 2010, 104, 117601.	2.9	22
66	Spin-orbit interaction and Dirac cones in orbital noble metal surface states. <i>Physical Review B</i> , 2015, 91, .	1.1	22
67	Indirect chiral magnetic exchange through Dzyaloshinskii-Moriya-enhanced RKKY interactions in manganese oxide chains on Ir(100). <i>Nature Communications</i> , 2019, 10, 2610.	5.8	22
68	Synchrotron radiation studies of the effect of thermal treatment on the Si(111)-Yb interfaces. <i>Surface Science</i> , 1986, 168, 193-203.	0.8	21
69	Spin-polarized photoemission from quantum well and interface states (invited). <i>Journal of Applied Physics</i> , 1994, 76, 6966-6971.	1.1	21
70	Two Distinct Phases of Bilayer Graphene Films on Ru(0001). <i>ACS Nano</i> , 2012, 6, 9299-9304.	7.3	21
71	5f-band width and resonant photoemission of uranium intermetallic compounds. <i>Physical Review B</i> , 1987, 36, 2916-2919.	1.1	20
72	Spin-resolved photoemission from Fe ₃ Pt(001) Invar and Fe films (invited). <i>Journal of Applied Physics</i> , 1988, 63, 3499-3502.	1.1	20

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73	Two-dimensional spin-polarized states of Ag on Fe(100). <i>Physical Review B</i> , 1995, 51, 12418-12424.	1.1	20
74	Electronic Band Structure of Gd: A Consistent Description. <i>Physical Review Letters</i> , 2001, 86, 2846-2849.	2.9	20
75	Probing Quasiparticle States Bound by Disparate Periodic Potentials. <i>Physical Review Letters</i> , 2006, 97, 206802.	2.9	20
76	Oxidation of epitaxial Ce films. <i>Physical Review B</i> , 1996, 53, 4142-4147.	1.1	19
77	Photoemission studies of mixed valence in Yb ₃ Si ₃ , YbSi and Yb ₅ Si ₃ : Equivalent versus inequivalent Yb sites. <i>Solid State Communications</i> , 1987, 62, 35-39.	0.9	18
78	Angle-resolved-photoemission study of the electronic structure of Gd(0001). <i>Physical Review B</i> , 1993, 47, 13899-13902.	1.1	18
79	Absence of Dirac cones in monolayer silicene and multilayer Si films on Ag(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 219, 2-8.	0.8	18
80	Resonant-photoemission study of Fe(100). <i>Physical Review B</i> , 1987, 35, 1616-1619.	1.1	17
81	Photoemission spectroscopy of Yb ₃ Si ₅ and its connection with Si-Yb interfaces. <i>Physical Review B</i> , 1986, 34, 4150-4154.	1.1	16
82	Magnetic and finite size effects in Cu films on Co(100). <i>Solid State Communications</i> , 1996, 100, 749-753.	0.9	16
83	Synchrotron radiation study of the photoionization cross sections for the whole valence band of 2H-MoS ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1986, 40, 353-362.	0.8	15
84	The epitaxial growth of Fe on GaAs(110): Development of the electronic structure and interface formation. <i>Solid State Communications</i> , 1987, 61, 297-301.	0.9	15
85	Investigation of hole-doped insulating La _{1-x} Sr _x CrO ₃ by soft-x-ray absorption spectroscopy. <i>Physical Review B</i> , 1996, 53, 13369-13373.	1.1	15
86	Spin-resolved angle-dependent photoemission study of ordered Fe ₃ Pt(001) Invar. <i>Physical Review B</i> , 1987, 35, 7760-7763.	1.1	14
87	Excitation Spectra of Transition-Metal Atoms on the Ag (100) Surface Controlled by Hund's Exchange. <i>Physical Review Letters</i> , 2013, 110, 186404.	2.9	14
88	Electronic structure of the Yb/Ge(111) interface. <i>Physical Review B</i> , 1986, 33, 864-872.	1.1	13
89	High-energy spectroscopic study of YBa ₂ Cu _{2.7} Fe _{0.3} O _{6.9} with photon energy near the O 1s threshold. <i>Physical Review B</i> , 1989, 39, 12387-12390.	1.1	12
90	Inelastic photoelectron diffraction from Si. <i>Physical Review B</i> , 1992, 46, 13215-13219.	1.1	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.	1.1	12
92	Parallel, antiparallel and no magnetic coupling in submonolayer Mn on Fe(110). Europhysics Letters, 1999, 46, 231-237.	0.7	11
93	Hidden phase in parent Fe-pnictide superconductors. Physical Review B, 2018, 97, .	1.1	11
94	Magnetic quantum size effects in Cu films on Co(100). Journal of Magnetism and Magnetic Materials, 1996, 156, 259-260.	1.0	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.	7.3	9
96	Depth-resolved core level spectroscopy of noncentrosymmetric solid BiPd. Physical Review B, 2020, 101, .	1.1	8
97	Resonant photoemission from Ce ₂₄ Co ₁₁ at the 4d-4f threshold. Physical Review B, 1991, 44, 13756-13759.	1.1	7
98	Analysis of the Ce 3d-4d Auger spectrum with the use of synchrotron radiation. Physical Review B, 1993, 47, 4853-4857.	1.1	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.	0.9	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.	0.8	6
101	Electronic states of moiré modulated Cu films. Journal of Physics Condensed Matter, 2012, 24, 335502.	0.7	6
102	Spectroscopic evidence for the removal of mobile holes on Fe doping in YBa ₂ Cu _{3-x} Fe _x O _{7-δ} . Solid State Communications, 1991, 77, 381-383.	0.9	5
103	Exchange splitting in ultrathin Fe films deposited on Ag(100). Solid State Communications, 1995, 94, 751-755.	0.9	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.	0.7	5
105	Dirac states in the noncentrosymmetric superconductor BiPd. Physical Review B, 2021, 103, .	1.1	5
106	Emergence of well-screened states in a superconducting material of the $\text{CaFe}_{1-x}\text{Ni}_x\text{P}_2$ family. Physical Review B, 2021, 104, .		
107	Spin-polarized angle-resolved UV photoelectron spectroscopy (SP-ARUPS) study of the electronic structure of disordered ferromagnetic Fe _{0.65} Ni _{0.35} Invar alloy. Solid State Communications, 1989, 72, 1111-1115.	0.9	4
108	Volume plasmon losses in Si ₂ p photoemission spectra for photon energies up to 1600 eV. Journal of Electron Spectroscopy and Related Phenomena, 1990, 50, 353-359.	0.8	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.	0.9	3
110	X-ray absorption spectroscopy of platinum silicides: The L _{2,3} and M _{2,3} edges of platinum. Thin Solid Films, 1986, 140, 105-114.	0.8	3
111	Electronic structure and magnetism of epitaxial Fe monolayers on Au(001) by spin-polarized photoelectron spectroscopy. Vacuum, 1990, 41, 493-495.	1.6	3
112	Magnetic decoupling of ferromagnetic metals through a graphene spacer. Journal of Magnetism and Magnetic Materials, 2017, 426, 440-443.	1.0	3
113	Electron Confinement Effects in Silver Films Embedded between Graphene and Metallic Substrates. Journal of Physical Chemistry C, 2019, 123, 9764-9769.	1.5	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.	1.6	2
115	Oscillatory interlayer coupling mediated by fcc-Fe/Co(1 0 0) films. Applied Surface Science, 2001, 182, 302-307.	3.1	2
116	Quantum well band formation in Ag films on InSb(111). Journal of Physics Condensed Matter, 2009, 21, 355502.	0.7	2
117	Gold at the Si(111)-Pd interface; modification of atomic interdiffusion. Journal of Electron Spectroscopy and Related Phenomena, 1985, 35, 289-297.	0.8	1
118	Role of interface gap states during the formation of the Fe _{1-x} GaAs(110) Schottky barrier. Vacuum, 1990, 41, 1062-1063.	1.6	1
119	Analysis of the Gd 4d-X _Y Auger spectrum using synchrotron radiation. Physical Review B, 1993, 47, 9199-9202.	1.1	1
120	Electronic structure study of ultrathin Ag(111) films modified by a Si(111) substrate and $\sqrt{3} \times \sqrt{3}$ -Ag ₂ Bi surface. Journal of Physics Condensed Matter, 2012, 24, 115501.	0.7	1
121	Interplay between electronic and structural properties in the Pb/Ag(1 0 0) interface. Journal of Physics Condensed Matter, 2015, 27, 455502.	0.7	1
122	Spin-polarized confined states in Ag films on Fe(110). Journal of Physics Condensed Matter, 2017, 29, 495806.	0.7	1
123	Spin- and angle-dependent photoemission from Fe ₃ Pt Invar. Journal of Magnetism and Magnetic Materials, 1987, 70, 435.	1.0	0
124	Spectroscopic signatures of an ordered array of independent Ag heptamers. Journal of Physics Condensed Matter, 2015, 27, 305502.	0.7	0
125	Doping induced band renormalization in 122-type Fe-based superconductor. Journal of Physics: Conference Series, 2022, 2164, 012004.	0.3	0
126	Surface states in noncentrosymmetric superconductor BiPd. Journal of Physics: Conference Series, 2022, 2164, 012062.	0.3	0