

Mirko Cinchetti

List of Publications by Year in descending order

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119
papers

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citations

117625

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g-index

123
all docs

123
docs citations

123
times ranked

5002
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining the paradoxical diversity of ultrafast laser-induced demagnetization. <i>Nature Materials</i> , 2010, 9, 259-265.	27.5	729
2	All-optical control of ferromagnetic thin films and nanostructures. <i>Science</i> , 2014, 345, 1337-1340.	12.6	524
3	Engineered materials for all-optical helicity-dependent magnetic switching. <i>Nature Materials</i> , 2014, 13, 286-292.	27.5	507
4	Activating the molecular spinterface. <i>Nature Materials</i> , 2017, 16, 507-515.	27.5	285
5	Phase-covariant quantum cloning. <i>Physical Review A</i> , 2000, 62, .	2.5	266
6	Determination of spin injection and transport in a ferromagnet/organic semiconductor heterojunction by two-photon photoemission. <i>Nature Materials</i> , 2009, 8, 115-119.	27.5	266
7	Ultrafast demagnetization of ferromagnetic transition metals: The role of the Coulomb interaction. <i>Physical Review B</i> , 2009, 80, .	3.2	179
8	Light-induced magnetization reversal of high-anisotropy TbCo alloy films. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	158
9	Topological states on the gold surface. <i>Nature Communications</i> , 2015, 6, 10167.	12.8	148
10	Spin-dependent trapping of electrons at spin interfaces. <i>Nature Physics</i> , 2013, 9, 242-247.	16.7	147
11	Spin-Flip Processes and Ultrafast Magnetization Dynamics in Co: Unifying the Microscopic and Macroscopic View of Femtosecond Magnetism. <i>Physical Review Letters</i> , 2006, 97, 177201.	7.8	146
12	Photoemission Electron Microscopy as a Tool for the Investigation of Optical Near Fields. <i>Physical Review Letters</i> , 2005, 95, 047601.	7.8	136
13	Band structure evolution during the ultrafast ferromagnetic-paramagnetic phase transition in cobalt. <i>Science Advances</i> , 2017, 3, e1602094.	10.3	119
14	Feedback Effect during Ultrafast Demagnetization Dynamics in Ferromagnets. <i>Physical Review Letters</i> , 2013, 111, 167204.	7.8	117
15	Temperature Dependence of Laser-Induced Demagnetization in Ni: A Key for Identifying the Underlying Mechanism. <i>Physical Review X</i> , 2012, 2, .	8.9	106
16	Ultrafast optically induced spin transfer in ferromagnetic alloys. <i>Science Advances</i> , 2020, 6, eaay8717.	10.3	93
17	Epitaxial film growth and magnetic properties of Co ₂ FeSi. <i>Physical Review B</i> , 2006, 74, .	3.2	73
18	Spin-orbit enhanced demagnetization rate in Co/Pt-multilayers. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	72

#	ARTICLE	IF	CITATIONS
19	All-optical magnetization recording by tailoring optical excitation parameters. <i>Physical Review B</i> , 2011, 84, .	3.2	64
20	Driving force of ultrafast magnetization dynamics. <i>New Journal of Physics</i> , 2011, 13, 123010.	2.9	61
21	Band-Structure-Dependent Demagnetization in the Heusler Alloy $\text{Co}_2\text{Mn}^{\text{Mn}}$ <i>Physical Review Letters</i> , 2010, 105, 217202.	7.8	58
22	Interplay of heating and helicity in all-optical magnetization switching. <i>Physical Review B</i> , 2012, 85, .	3.2	56
23	Dynamic spin filtering at the Co/Alq ₃ interface mediated by weakly coupled second layer molecules. <i>Nature Communications</i> , 2016, 7, 12668.	12.8	55
24	Speed and efficiency of femtosecond spin current injection into a nonmagnetic material. <i>Physical Review B</i> , 2017, 96, .	3.2	52
25	Subpicosecond magnetization dynamics in TbCo alloys. <i>Physical Review B</i> , 2014, 89, .	3.2	50
26	Surface spin polarization of the nonstoichiometric Heusler alloy Co_2MnSi . <i>Physical Review B</i> , 2012, 85, .	3.2	47
27	Electron emission from films of Ag and Au nanoparticles excited by a femtosecond pump-probe laser. <i>Physical Review B</i> , 2008, 77, .	3.2	46
28	Spin scattering and spin-polarized hybrid interface states at a metal-organic interface. <i>Physical Review B</i> , 2011, 84, .	3.2	46
29	Indirect Magnetic Coupling of Manganese Porphyrin to a Ferromagnetic Cobalt Substrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1295-1301.	3.1	44
30	Electronic and magnetic properties of the interface between metal-quinoline molecules and cobalt. <i>Physical Review B</i> , 2014, 89, .	3.2	41
31	Tailoring the Spin Functionality of a Hybrid Metal-Organic Interface by Means of Alkali-Metal Doping. <i>Physical Review Letters</i> , 2010, 104, 217602.	7.8	39
32	Controlling the Spin Texture of Topological Insulators by Rational Design of Organic Molecules. <i>Nano Letters</i> , 2015, 15, 6022-6029.	9.1	37
33	Light Localization and Magneto-Optic Enhancement in Ni Antidot Arrays. <i>Nano Letters</i> , 2016, 16, 2432-2438.	9.1	36
34	Enhancing Light Emission in Interface Engineered Spin-Polarized OLEDs through Spin-Polarized Injection at High Voltages. <i>Advanced Materials</i> , 2019, 31, e1806817.	21.0	36
35	Spin-resolved two-photon photoemission study of the surface resonance state on $\text{Co}^*/\text{Cu}(001)$. <i>Physical Review B</i> , 2006, 74, .	3.2	34
36	Cavity-assisted ultrafast long-range periodic energy transfer between plasmonic nanoantennas. <i>Light: Science and Applications</i> , 2017, 6, e17111-e17111.	16.6	33

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37	Observation of Cu surface inhomogeneities by multiphoton photoemission spectromicroscopy. Applied Physics Letters, 2003, 83, 1503-1505.	3.3	30
38	Structural, chemical, and electronic properties of the Co $\langle\text{mml:math display="inline">\subscript{2}\rangle$ /MnSi(001)/MgO interface. Physical Review B, 2013, 87, .	3.2	30
39	A case study for the formation of stanene on a metal surface. Communications Physics, 2019, 2, .	5.3	30
40	Efficiency of ultrafast optically induced spin transfer in Heusler compounds. Physical Review Research, 2020, 2, .	3.6	29
41	Strong modification of the transport level alignment in organic materials after optical excitation. Nature Communications, 2019, 10, 1470.	12.8	27
42	Towards a full Heusler alloy showing room temperature half-metallicity at the surface. Journal Physics D: Applied Physics, 2007, 40, 1544-1547.	2.8	26
43	Tuning the charge flow between Marcus regimes in an organic thin-film device. Nature Communications, 2019, 10, 2089.	12.8	25
44	Photoemission time-of-flight spectromicroscopy of Ag nanoparticle films on Si(111). Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 249-257.	1.7	24
45	Induced versus intrinsic magnetic moments in ultrafast magnetization dynamics. Physical Review B, 2018, 98, .	3.2	24
46	Modifying the Surface of a Rashba-Split Pb-Ag Alloy Using Tailored Metal-Organic Bonds. Physical Review Letters, 2016, 117, 096805.	7.8	23
47	Spin-dependent electronic structure of the Co/Al(OP) $\langle\text{sub}\rangle 3\langle\text{sub}\rangle$ interface. New Journal of Physics, 2013, 15, 113054.	2.9	21
48	Probing the electronic and spintronic properties of buried interfaces by extremely low energy photoemission spectroscopy. Scientific Reports, 2015, 5, 8537.	3.3	21
49	Spin injection and spin dynamics at the CuPc/GaAs interface studied with ultraviolet photoemission spectroscopy and two-photon photoemission spectroscopy. Physical Review B, 2008, 78, .	3.2	20
50	Two-photon photoemission spectromicroscopy of noble metal clusters on surfaces studied using time-of-flight photoemission electron microscopy. Journal of Physics Condensed Matter, 2005, 17, S1319-S1328.	1.8	19
51	Time-of-flight photoelectron spectromicroscopy of single MoS ₂ nanotubes. Journal of Applied Physics, 2006, 100, 084330.	2.5	19
52	Spin- and time-resolved photoemission studies of thin Co ₂ FeSi Heusler alloy films. Journal of Magnetism and Magnetic Materials, 2007, 316, e411-e414.	2.3	19
53	Evaluation of molecular orbital symmetry via oxygen-induced charge transfer quenching at a metal-organic interface. Applied Surface Science, 2020, 504, 144343.	6.1	19
54	Room-temperature On-Off Spin Switching and Tuning in a Porphyrin-Based Multifunctional Interface. Small, 2021, 17, e2104779.	10.0	19

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55	Nonlinear Bicolor Holography Using Plasmonic Metasurfaces. ACS Photonics, 2021, 8, 1013-1019.	6.6	18
56	Dynamics of the coercivity in ultrafast pump-probe experiments. Journal Physics D: Applied Physics, 2008, 41, 164001.	2.8	16
57	Spin-resolved low-energy and hard x-ray photoelectron spectroscopy of off-stoichiometric Co_2MnSi Heusler thin films exhibiting a record TMR. Journal Physics D: Applied Physics, 2015, 48, 164002.	2.8	16
58	Ferrous to Ferric Transition in Fe-Phthalocyanine Driven by NO_2 Exposure. Chemistry - A European Journal, 2021, 27, 3526-3535.	3.3	16
59	Ultrafast Amplification and Nonlinear Magnetoelastic Coupling of Coherent Magnon Modes in an Antiferromagnet. Physical Review Letters, 2021, 127, 077202.	7.8	16
60	Ultrafast magnetization dynamics in the half-metallic Heusler alloy $\text{Co}_2\text{Cr}_{0.6}\text{Fe}_{0.4}\text{Al}$. Physica Status Solidi (B): Basic Research, 2011, 248, 2330-2337.	1.5	15
61	Ultrafast magnetization dynamics in Co-based Heusler compounds with tuned chemical ordering. New Journal of Physics, 2014, 16, 063068.	2.9	15
62	Exchange-mediated magnetic blue-shift of the band-gap energy in the antiferromagnetic semiconductor MnTe. New Journal of Physics, 2020, 22, 083029.	2.9	15
63	Tailoring the energy level alignment at the Co/Alq ₃ interface by controlled cobalt oxidation. Applied Physics Letters, 2013, 103, .	3.3	14
64	Structure and electronic properties of the $(\sqrt{3}\times\sqrt{3})\text{R}30^\circ\text{SnAu}_2/\text{Au}(111)$ surface alloy. Physical Review B, 2018, 98, .	3.2	14
65	Effects of post-growth annealing on structural and compositional properties of the $\text{Co}_2\text{Cr}_{0.6}\text{Fe}_{0.4}\text{Al}$ surface and its relevance for the surface electron spin polarization. Journal Physics D: Applied Physics, 2009, 42, 084016.	2.8	13
66	Electronic structure of metal quinoline molecules from G ₀ W ₀ calculations. Physical Review B, 2014, 89, .	3.2	13
67	Molecular anchoring stabilizes low valence Ni(<i>scpi</i>)TPP on copper against thermally induced chemical changes. Journal of Materials Chemistry C, 2020, 8, 8876-8886.	5.5	13
68	Signatures of an atomic crystal in the band structure of a C_{60} thin film. Physical Review B, 2020, 101, .	3.2	13
69	Orbital angular momentum structure of an unoccupied spin-split quantum-well state in Pb/Cu(111). Physical Review B, 2013, 87, .	3.2	11
70	Scanning Tunneling Microscopy Study of Ordered C_{60} Submonolayer Films on Co/Au(111). Journal of Physical Chemistry C, 2016, 120, 7568-7574.	3.1	11
71	Ultrafast Charge-Transfer Exciton Dynamics in C_{60} Thin Films. Journal of Physical Chemistry C, 2020, 124, 23579-23587.	3.1	11
72	Temperature dependence of the picosecond spin Seebeck effect. Applied Physics Letters, 2021, 119, .	3.3	11

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73	Investigation of the spin-dependent properties of electron doped cobalt-CuPc interfaces. <i>Synthetic Metals</i> , 2011, 161, 570-574.	3.9	10
74	Influence of alkylphosphonic acid grafting on the electronic and magnetic properties of La ₂ /3Sr ₁ /3MnO ₃ surfaces. <i>Applied Surface Science</i> , 2015, 353, 24-28.	6.1	10
75	Control of Cooperativity through a Reversible Structural Phase Transition in MoMethyl/Cu(111). <i>Advanced Functional Materials</i> , 2018, 28, 1703544.	14.9	10
76	Wide spectral range ultrafast pump-probe magneto-optical spectrometer at low temperature, high-magnetic and electric fields. <i>Review of Scientific Instruments</i> , 2020, 91, 113001.	1.3	10
77	Reversible redox reactions in metal-supported porphyrin: the role of spin and oxidation state. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12559-12565.	5.5	10
78	Femtosecond phononic coupling to both spins and charges in a room-temperature antiferromagnetic semiconductor. <i>Physical Review B</i> , 2021, 104, .	3.2	10
79	Topology communicates. <i>Nature Nanotechnology</i> , 2014, 9, 965-966.	31.5	9
80	Adsorption heights and bonding strength of organic molecules on a Pb-Ag surface alloy. <i>Physical Review B</i> , 2016, 94, .	3.2	9
81	Spin- and Angle-Resolved Photoemission Study of the Alq ₃ /Co Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6585-6592.	3.1	8
82	Experimental time-resolved photoemission and <i>ab initio</i> GW+T study of lifetimes of excited electrons in ytterbium. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 496213.	1.8	7
83	All-optical magnetization switching using phase shaped ultrashort laser pulses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2589-2595.	1.8	7
84	Ultrafast electron dynamics in a metallic quantum well nanofilm with spin splitting. <i>Physical Review B</i> , 2013, 88, .	3.2	7
85	Epitaxial growth of thermally stable cobalt films on Au(111). <i>New Journal of Physics</i> , 2016, 18, 103054.	2.9	7
86	Design of Molecular Spintronics Devices Containing Molybdenum Oxide as Hole Injection Layer. <i>Advanced Electronic Materials</i> , 2017, 3, 1600366.	5.1	7
87	Molecular spectroscopy in a solid-state device. <i>Materials Horizons</i> , 2019, 6, 1663-1668.	12.2	7
88	Vibronic Fingerprints of the Nickel Oxidation States in Surface-Supported Porphyrin Arrays. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6297-6303.	3.1	7
89	Vibron-assisted spin relaxation at a metal/organic interface. <i>Physical Review B</i> , 2015, 91, .	3.2	6
90	Entanglement distribution between distant users via a center. <i>Physical Review A</i> , 2001, 63, .	2.5	5

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91	Energy-resolved magnetic domain imaging in TbCo alloys by valence band photoemission magnetic circular dichroism. <i>Physical Review B</i> , 2013, 88, .	3.2	5
92	Modification of Pb quantum well states by the adsorption of organic molecules. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 134005.	1.8	5
93	Extremely low-energy ARPES of quantum well states in cubic-GaN/AlN and GaAs/AlGaAs heterostructures. <i>Scientific Reports</i> , 2021, 11, 19081.	3.3	5
94	Distortion-driven spin switching in electron-doped metal porphyrins. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9748-9757.	5.5	5
95	Between two spins. <i>Nature Photonics</i> , 2015, 9, 489-490.	31.4	4
96	Controlled manipulation of the Co-Alq ₃ interface by rational design of Alq ₃ derivatives. <i>Dalton Transactions</i> , 2016, 45, 18365-18376.	3.3	4
97	Insight into intramolecular chemical structure modifications by on-surface reaction using photoemission tomography. <i>Chemical Communications</i> , 2021, 57, 3050-3053.	4.1	4
98	The Magnetic Behaviour of CoTPP Supported on Coinage Metal Surfaces in the Presence of Small Molecules: A Molecular Cluster Study of the Surface trans-Effect. <i>Nanomaterials</i> , 2022, 12, 218.	4.1	4
99	Disproportionation of Nitric Oxide at a Surface-Bound Nickel Porphyrinoid. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	4
100	Impact of local order and stoichiometry on the ultrafast magnetization dynamics of Heusler compounds. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 164016.	2.8	3
101	Spin structure of Rashba-split electronic states of Bi overlayers on Cu(1 1 1). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 201, 47-52.	1.7	3
102	Spin-Resolved Photoemission Spectroscopy of the Heusler Compound Co ₂ MnSi. <i>Springer Series in Materials Science</i> , 2016, , 51-86.	0.6	3
103	Observation of optical coherence in a disordered metal-molecule interface by coherent optical two-dimensional photoelectron spectroscopy. <i>Physical Review B</i> , 2022, 105, .	3.2	3
104	Emission Electron Microscopy of Nanoparticles in Strong fs Laser Fields. <i>Microscopy and Microanalysis</i> , 2003, 9, 168-169.	0.4	2
105	Adsorption-induced pyramidal distortion of the trimetallic nitride core inside the endohedral fullerene Sc ₃ N@C ₈₀ on the Ag(111) surface. <i>Physical Review B</i> , 2018, 98, .	3.2	2
106	Vertical bonding distances and interfacial band structure of PTCDA on a Sn-Ag surface alloy. <i>Physical Review B</i> , 2020, 102, .	3.2	2
107	Momentum and energy dissipation of hot electrons in a Pb/Ag(111) quantum well system. <i>Physical Review B</i> , 2021, 104, .	3.2	2
108	Positive Magnetoresistance and Chiral Anomaly in Exfoliated Type-II Weyl Semimetal Td-WTe ₂ . <i>Nanomaterials</i> , 2021, 11, 2755.	4.1	2

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109	Organische Spinventile. Physik in Unserer Zeit, 2013, 44, 111-112.	0.0	1
110	Kerr and Faraday microscope for space- and time-resolved studies. European Physical Journal B, 2014, 87, 1.	1.5	1
111	Impact of CoFe buffer layers on the structural and electronic properties of the Co ₂ MnSi/MgO interface. Journal Physics D: Applied Physics, 2016, 49, 195002.	2.8	1
112	Ultrafast charge carrier dynamics in potassium-doped endohedral metallofullerene Sc ₃ N@C ₈₀ thin films. Journal of Electron Spectroscopy and Related Phenomena, 2021, 252, 147110.	1.7	1
113	Spin Injection and Spin Dynamics at CuPC/GaAs(100) Interface. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
114	Spin properties of interfaces with organic semiconductors studied by spin- and time-resolved two-photon photoemission. , 2011, , .		0
115	Characterization of the Surface Electronic Properties of Co ₂ Cr _{1-x} FexAl. , 2013, , 271-284.		0
116	Magnetische Speicher: Schalten mit Licht. Physik in Unserer Zeit, 2015, 46, 180-186.	0.0	0
117	All-optical control of ferromagnetic thin films and nanostructures: Competition between polarized light and applied magnetic field. , 2015, , .		0
118	Electron Lifetimes in a 2D Electron-Gas with Rashba SO-Coupling: Screening Properties. Springer Proceedings in Physics, 2015, , 175-178.	0.2	0
119	Disproportionation of Nitric Oxide at a Surface-Bound Nickel Porphyrinoid. Angewandte Chemie, 0, , .	2.0	0