

# Mirko Cinchetti

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7533031/publications.pdf>

Version: 2024-02-01

119  
papers

5,794  
citations

117625

34  
h-index

76900

74  
g-index

123  
all docs

123  
docs citations

123  
times ranked

5002  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Disproportionation of Nitric Oxide at a Surface-Bound Nickel Porphyrinoid. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	4
3	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
4	Distortion-driven spin switching in electron-doped metal porphyrins. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9748-9757.	5.5	5
5	Ferrous to Ferric Transition in Fe-Phthalocyanine Driven by NO <sub>2</sub> Exposure. <i>Chemistry - A European Journal</i> , 2021, 27, 3526-3535.	3.3	16
6	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
7	Nonlinear Bicolor Holography Using Plasmonic Metasurfaces. <i>ACS Photonics</i> , 2021, 8, 1013-1019.	6.6	18
8	Temperature dependence of the picosecond spin Seebeck effect. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	11
9	Ultrafast Amplification and Nonlinear Magnetoelastic Coupling of Coherent Magnon Modes in an Antiferromagnet. <i>Physical Review Letters</i> , 2021, 127, 077202.	7.8	16
10	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
11	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
12	Ultrafast charge carrier dynamics in potassium-doped endohedral metallofullerene Sc <sub>3</sub> N@C <sub>80</sub> thin films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 252, 147110.	1.7	1
13	Insight into intramolecular chemical structure modifications by on-surface reaction using photoemission tomography. <i>Chemical Communications</i> , 2021, 57, 3050-3053.	4.1	4
14	Room-Temperature On-Spin-Switching and Tuning in a Porphyrin-Based Multifunctional Interface. <i>Small</i> , 2021, 17, e2104779.	10.0	19
15	Positive Magnetoresistance and Chiral Anomaly in Exfoliated Type-II Weyl Semimetal Td-WTe <sub>2</sub> . <i>Nanomaterials</i> , 2021, 11, 2755.	4.1	2
16	Femtosecond phononic coupling to both spins and charges in a room-temperature antiferromagnetic semiconductor. <i>Physical Review B</i> , 2021, 104, .	3.2	10
17	Evaluation of molecular orbital symmetry via oxygen-induced charge transfer quenching at a metal-organic interface. <i>Applied Surface Science</i> , 2020, 504, 144343.	6.1	19
18	Ultrafast Charge-Transfer Exciton Dynamics in C <sub>60</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23579-23587.	3.1	11

#	ARTICLE	IF	CITATIONS
19	Wide spectral range ultrafast pump-probe magneto-optical spectrometer at low temperature, high-magnetic and electric fields. Review of Scientific Instruments, 2020, 91, 113001.	1.3	10
20	Vertical bonding distances and interfacial band structure of PTCDA on a Sn-Ag surface alloy. Physical Review B, 2020, 102, .	3.2	2
21	Molecular anchoring stabilizes low valence Ni( $\text{Ni}(\text{TPP})$ ) on copper against thermally induced chemical changes. Journal of Materials Chemistry C, 2020, 8, 8876-8886.	5.5	13
22	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
23	Vibronic Fingerprints of the Nickel Oxidation States in Surface-Supported Porphyrin Arrays. Journal of Physical Chemistry C, 2020, 124, 6297-6303.	3.1	7
24	Ultrafast optically induced spin transfer in ferromagnetic alloys. Science Advances, 2020, 6, eaay8717.	10.3	93
25	Signatures of an atomic crystal in the band structure of a $\text{C}_{60}$ thin film. Physical Review B, 2020, 101, .	3.2	13
26	Efficiency of ultrafast optically induced spin transfer in Heusler compounds. Physical Review Research, 2020, 2, .	3.6	29
27	A case study for the formation of stanene on a metal surface. Communications Physics, 2019, 2, .	5.3	30
28	Molecular spectroscopy in a solid-state device. Materials Horizons, 2019, 6, 1663-1668.	12.2	7
29	Tuning the charge flow between Marcus regimes in an organic thin-film device. Nature Communications, 2019, 10, 2089.	12.8	25
30	Strong modification of the transport level alignment in organic materials after optical excitation. Nature Communications, 2019, 10, 1470.	12.8	27
31	Modification of Pb quantum well states by the adsorption of organic molecules. Journal of Physics Condensed Matter, 2019, 31, 134005.	1.8	5
32	Enhancing Light Emission in Interface Engineered Spin-Polarized OLEDs through Spin-Polarized Injection at High Voltages. Advanced Materials, 2019, 31, e1806817.	21.0	36
33	Spin- and Angle-Resolved Photoemission Study of the $\text{Alq}_3/\text{Co}$ Interface. Journal of Physical Chemistry C, 2018, 122, 6585-6592.	3.1	8
34	Control of Cooperativity through a Reversible Structural Phase Transition in $\text{MoMe}_3/\text{Cu}(111)$ . Advanced Functional Materials, 2018, 28, 1703544.	14.9	10
35	Structure and electronic properties of the $(3\sqrt{3}\times 3\sqrt{3})\text{SnAu}_2/\text{Au}(111)$ surface alloy. Physical Review B, 2018, 98, .	3.2	14
36	Induced versus intrinsic magnetic moments in ultrafast magnetization dynamics. Physical Review B, 2018, 98, .	3.2	24

#	ARTICLE	IF	CITATIONS
37	Adsorption-induced pyramidal distortion of the trimetallic nitride core inside the endohedral fullerene Sc <sub>3</sub> N@C <sub>80</sub> on the Ag(111) surface. <i>Physical Review B</i> , 2018, 98, .	3.2	2
38	Design of Molecular Spintronics Devices Containing Molybdenum Oxide as Hole Injection Layer. <i>Advanced Electronic Materials</i> , 2017, 3, 1600366.	5.1	7
39	Activating the molecular spinterface. <i>Nature Materials</i> , 2017, 16, 507-515.	27.5	285
40	Band structure evolution during the ultrafast ferromagnetic-paramagnetic phase transition in cobalt. <i>Science Advances</i> , 2017, 3, e1602094.	10.3	119
41	Speed and efficiency of femtosecond spin current injection into a nonmagnetic material. <i>Physical Review B</i> , 2017, 96, .	3.2	52
42	Cavity-assisted ultrafast long-range periodic energy transfer between plasmonic nanoantennas. <i>Light: Science and Applications</i> , 2017, 6, e171111-e171111.	16.6	33
43	Epitaxial growth of thermally stable cobalt films on Au(111). <i>New Journal of Physics</i> , 2016, 18, 103054.	2.9	7
44	Adsorption heights and bonding strength of organic molecules on a Pb-Ag surface alloy. <i>Physical Review B</i> , 2016, 94, .	3.2	9
45	Light Localization and Magneto-Optic Enhancement in Ni Antidot Arrays. <i>Nano Letters</i> , 2016, 16, 2432-2438.	9.1	36
46	Scanning Tunneling Microscopy Study of Ordered C <sub>60</sub> Submonolayer Films on Co/Au(111). <i>Journal of Physical Chemistry C</i> , 2016, 120, 7568-7574.	3.1	11
47	Impact of CoFe buffer layers on the structural and electronic properties of the Co <sub>2</sub> MnSi/MgO interface. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 195002.	2.8	1
48	Modifying the Surface of a Rashba-Split Pb-Ag Alloy Using Tailored Metal-Organic Bonds. <i>Physical Review Letters</i> , 2016, 117, 096805.	7.8	23
49	Controlled manipulation of the Co-Alq <sub>3</sub> interface by rational design of Alq <sub>3</sub> derivatives. <i>Dalton Transactions</i> , 2016, 45, 18365-18376.	3.3	4
50	Dynamic spin filtering at the Co/Alq <sub>3</sub> interface mediated by weakly coupled second layer molecules. <i>Nature Communications</i> , 2016, 7, 12668.	12.8	55
51	Spin-Resolved Photoemission Spectroscopy of the Heusler Compound Co <sub>2</sub> MnSi. <i>Springer Series in Materials Science</i> , 2016, , 51-86.	0.6	3
52	Probing the electronic and spintronic properties of buried interfaces by extremely low energy photoemission spectroscopy. <i>Scientific Reports</i> , 2015, 5, 8537.	3.3	21
53	Magnetische Speicher: Schalten mit Licht. <i>Physik in Unserer Zeit</i> , 2015, 46, 180-186.	0.0	0
54	Topological states on the gold surface. <i>Nature Communications</i> , 2015, 6, 10167.	12.8	148

#	ARTICLE	IF	CITATIONS
55	Between two spins. Nature Photonics, 2015, 9, 489-490.	31.4	4
56	Spin-resolved low-energy and hard x-ray photoelectron spectroscopy of off-stoichiometric $\text{Co}_{2-x}\text{MnSi}$ Heusler thin films exhibiting a record TMR. Journal Physics D: Applied Physics, 2015, 48, 164002.	2.8	16
57	Impact of local order and stoichiometry on the ultrafast magnetization dynamics of Heusler compounds. Journal Physics D: Applied Physics, 2015, 48, 164016.	2.8	3
58	Influence of alkylphosphonic acid grafting on the electronic and magnetic properties of $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ surfaces. Applied Surface Science, 2015, 353, 24-28.	6.1	10
59	Vibron-assisted spin relaxation at a metal/organic interface. Physical Review B, 2015, 91, .	3.2	6
60	Controlling the Spin Texture of Topological Insulators by Rational Design of Organic Molecules. Nano Letters, 2015, 15, 6022-6029.	9.1	37
61	All-optical control of ferromagnetic thin films and nanostructures: Competition between polarized light and applied magnetic field. , 2015, , .		0
62	Spin structure of Rashba-split electronic states of Bi overlayers on $\text{Cu}(1\ 1\ 1)$ . Journal of Electron Spectroscopy and Related Phenomena, 2015, 201, 47-52.	1.7	3
63	Electron Lifetimes in a 2D Electron-Gas with Rashba SO-Coupling: Screening Properties. Springer Proceedings in Physics, 2015, , 175-178.	0.2	0
64	Ultrafast magnetization dynamics in Co-based Heusler compounds with tuned chemical ordering. New Journal of Physics, 2014, 16, 063068.	2.9	15
65	Spin-orbit enhanced demagnetization rate in Co/Pt-multilayers. Applied Physics Letters, 2014, 105, .	3.3	72
66	Kerr and Faraday microscope for space- and time-resolved studies. European Physical Journal B, 2014, 87, 1.	1.5	1
67	Subpicosecond magnetization dynamics in TbCo alloys. Physical Review B, 2014, 89, .	3.2	50
68	Topology communicates. Nature Nanotechnology, 2014, 9, 965-966.	31.5	9
69	Engineered materials for all-optical helicity-dependent magnetic switching. Nature Materials, 2014, 13, 286-292.	27.5	507
70	Electronic and magnetic properties of the interface between metal-quinoline molecules and cobalt. Physical Review B, 2014, 89, .	3.2	41
71	All-optical control of ferromagnetic thin films and nanostructures. Science, 2014, 345, 1337-1340.	12.6	524
72	Electronic structure of metal quinoline molecules from GOWO calculations. Physical Review B, 2014, 89, .	3.2	13

#	ARTICLE	IF	CITATIONS
73	Feedback Effect during Ultrafast Demagnetization Dynamics in Ferromagnets. Physical Review Letters, 2013, 111, 167204.	7.8	117
74	Spin-dependent trapping of electrons at Åspinterfaces. Nature Physics, 2013, 9, 242-247.	16.7	147
75	Characterization of the Surface Electronic Properties of Co <sub>2</sub> Cr <sub>1-x</sub> Fe <sub>x</sub> Al. , 2013, , 271-284.		0
76	Energy-resolved magnetic domain imaging in TbCo alloys by valence band photoemission magnetic circular dichroism. Physical Review B, 2013, 88, .	3.2	5
77	Organische Spinventile. Physik in Unserer Zeit, 2013, 44, 111-112.	0.0	1
78	Tailoring the energy level alignment at the Co/Alq <sub>3</sub> interface by controlled cobalt oxidation. Applied Physics Letters, 2013, 103, .	3.3	14
79	Structural, chemical, and electronic properties of the Co<math display="inline"><math>MnSi(001)/MgO</math> interface. Physical Review B, 2013, 87, .	3.2	30
80	Orbital angular momentum structure of an unoccupied spin-split quantum-well state in Pb/Cu(111). Physical Review B, 2013, 87, .	3.2	11
81	Ultrafast electron dynamics in a metallic quantum well nanofilm with spin splitting. Physical Review B, 2013, 88, .	3.2	7
82	Spin-dependent electronic structure of the Co/Al(OP)<sub>3</sub> interface. New Journal of Physics, 2013, 15, 113054.	2.9	21
83	Surface spin polarization of the nonstoichiometric Heusler alloy Co<math display="inline"><math>MnSi</math>. Physical Review B, 2012, 85, .	3.2	47
84	Interplay of heating and helicity in all-optical magnetization switching. Physical Review B, 2012, 85, .	3.2	56
85	All-optical magnetization switching using phase shaped ultrashort laser pulses. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2589-2595.	1.8	7
86	Temperature Dependence of Laser-Induced Demagnetization in Ni: A Key for Identifying the Underlying Mechanism. Physical Review X, 2012, 2, .	8.9	106
87	Light-induced magnetization reversal of high-anisotropy TbCo alloy films. Applied Physics Letters, 2012, 101, .	3.3	158
88	Indirect Magnetic Coupling of Manganese Porphyrin to a Ferromagnetic Cobalt Substrate. Journal of Physical Chemistry C, 2011, 115, 1295-1301.	3.1	44
89	Investigation of the spin-dependent properties of electron doped cobaltâ€“CuPc interfaces. Synthetic Metals, 2011, 161, 570-574.	3.9	10
90	Ultrafast magnetization dynamics in the halfâ€“metallic Heusler alloy Co<sub>2</sub>Cr<sub>0.6</sub>Fe<sub>0.4</sub>Al. Physica Status Solidi (B): Basic Research, 2011, 248, 2330-2337.	1.5	15

#	ARTICLE	IF	CITATIONS
91	Spin properties of interfaces with organic semiconductors studied by spin- and time-resolved two-photon photoemission. , 2011, , .		0
92	Spin scattering and spin-polarized hybrid interface states at a metal-organic interface. Physical Review B, 2011, 84, .	3.2	46
93	All-optical magnetization recording by tailoring optical excitation parameters. Physical Review B, 2011, 84, .	3.2	64
94	Driving force of ultrafast magnetization dynamics. New Journal of Physics, 2011, 13, 123010.	2.9	61
95	Explaining the paradoxical diversity of ultrafast laser-induced demagnetization. Nature Materials, 2010, 9, 259-265.	27.5	729
96	Tailoring the Spin Functionality of a Hybrid Metal-Organic Interface by Means of Alkali-Metal Doping. Physical Review Letters, 2010, 104, 217602.	7.8	39
97	Band-Structure-Dependent Demagnetization in the Heusler Alloy $\text{Co}_2\text{MnSi}$ . Physical Review Letters, 2010, 105, 217202.	7.8	58
98	Ultrafast demagnetization of ferromagnetic transition metals: The role of the Coulomb interaction. Physical Review B, 2009, 80, .	3.2	179
99	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
100	Determination of spin injection and transport in ferromagnet/organic semiconductor heterojunction by two-photon photoemission. Nature Materials, 2009, 8, 115-119.	27.5	266
101	Dynamics of the coercivity in ultrafast pump-probe experiments. Journal Physics D: Applied Physics, 2008, 41, 164001.	2.8	16
102	Electron emission from films of Ag and Au nanoparticles excited by a femtosecond pump-probe laser. Physical Review B, 2008, 77, .	3.2	46
103	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
104	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
105	Experimental time-resolved photoemission and <i>ab initio</i> GW+T study of lifetimes of excited electrons in ytterbium. Journal of Physics Condensed Matter, 2007, 19, 496213.	1.8	7
106	Spin- and time-resolved photoemission studies of thin $\text{Co}_2\text{FeSi}$ Heusler alloy films. Journal of Magnetism and Magnetic Materials, 2007, 316, e411-e414.	2.3	19
107	Spin-resolved two-photon photoemission study of the surface resonance state on $\text{Co}/\text{Cu}(001)$ . Physical Review B, 2006, 74, .	3.2	34
108	Spin-Flip Processes and Ultrafast Magnetization Dynamics in Co: Unifying the Microscopic and Macroscopic View of Femtosecond Magnetism. Physical Review Letters, 2006, 97, 177201.	7.8	146

#	ARTICLE	IF	CITATIONS
109	Spin Injection and Spin Dynamics at CuPC/GaAs(100) Interface. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	0
110	Time-of-flight photoelectron spectromicroscopy of single MoS2 nanotubes. Journal of Applied Physics, 2006, 100, 084330.	2.5	19
111	Epitaxial film growth and magnetic properties ofCo2FeSi. Physical Review B, 2006, 74, .	3.2	73
112	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
113	Photoemission Electron Microscopy as a Tool for the Investigation of Optical Near Fields. Physical Review Letters, 2005, 95, 047601.	7.8	136
114	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
115	Observation of Cu surface inhomogeneities by multiphoton photoemission spectromicroscopy. Applied Physics Letters, 2003, 83, 1503-1505.	3.3	30
116	Emission Electron Microscopy of Nanoparticles in Strong fs Laser Fields. Microscopy and Microanalysis, 2003, 9, 168-169.	0.4	2
117	Entanglement distribution betweenNdistant users via a center. Physical Review A, 2001, 63, .	2.5	5
118	Phase-covariant quantum cloning. Physical Review A, 2000, 62, .	2.5	266
119	Disproportionation of Nitric Oxide at a Surfaceâ€Bound Nickel Porphyrinoid. Angewandte Chemie, 0, , .	2.0	0