

Marco Moretti Sala

List of Publications by Year in descending order

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97
papers

4,818
citations

136740

32
h-index

95083

68
g-index

98
all docs

98
docs citations

98
times ranked

4641
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Range Incommensurate Charge Fluctuations in $(Y,Nd)Ba_{2-x}Cu_{3-y}O_{6+z}$. Science, 2012, 337, 821-825.	6.0	938
2	Intense paramagnon excitations in a large family of high-temperature superconductors. Nature Physics, 2011, 7, 725-730.	6.5	349
3	Direct evidence for dominant bond-directional interactions in a honeycomb lattice iridate $NaIrO_3$. Nature Physics, 2015, 11, 462-466.	6.5	321
4	Distinct Charge Orders in the Planes and Chains of Ortho-II-Ordered $YBa_2Cu_3O_{6-x}$ Superconductors. Magnetic Excitations and Phase Separation in the Underdoped $YBa_2Cu_3O_{6-x}$. Physical Review Letters, 2010, 104, 077002.	2.9	254
5	Theoretical Demonstration of How the Dispersion of Magnetic Excitations in Cuprate Compounds can be Determined Using Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2009, 103, 117003.	2.9	226
6	Energy and symmetry of dd excitations in undoped layered cuprates measured by $Cu_{2-x}L_{x-1}O_{4-y}$ resonant inelastic x-ray scattering. New Journal of Physics, 2011, 13, 043026.	1.2	130
7	Measurement of Magnetic Excitations in the Two-Dimensional Antiferromagnetic CuO Using Resonant X-Ray Scattering: Evidence for Extended Interactions. Physical Review Letters, 2010, 105, 157006.	2.9	226
8	Locking of iridium magnetic moments to the correlated rotation of oxygen octahedra in Sr_2IrO_4 revealed by x-ray resonant scattering. Journal of Physics Condensed Matter, 2013, 25, 422202.	0.7	86
9	Dispersive spin excitations in highly overdoped cuprates revealed by resonant inelastic x-ray scattering. Physical Review B, 2013, 88, .	1.1	83
10	Epitaxial and layer-by-layer growth of EuO thin films on yttria-stabilized cubic zirconia (001) using MBE distillation. Physical Review B, 2009, 79, .	1.1	79
11	All-in/all-Out Magnetic Order and Propagating Spin Waves in Sr_2IrO_4 . Physical Review Letters, 2016, 117, 037201.	2.9	226
12	A large-solid-angle X-ray Raman scattering spectrometer at ID20 of the European Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2017, 24, 521-530.	1.0	76
13	Structural and Electronic Reconstructions at the $LaAlO_3/SrTiO_3$ Interface. Advanced Materials, 2013, 25, 2333-2338.	11.1	72
14	A Spin-Orbit Mott Insulator Beyond the CuO . Physical Review Letters, 2014, 113, 176402.	2.9	70
15	Momentum and polarization dependence of single-magnon spectral weight for CuO resonant inelastic x-ray scattering from layered cuprates. Physical Review B, 2010, 81, .	1.1	68
16	Persistent Paramagnons Deep in the Metallic Phase of Sr_2IrO_4 . Physical Review Letters, 2016, 117, 107001.	2.9	68
17	Resonant X-Ray Scattering and the $LaAlO_3/SrTiO_3$ Interface. Physical Review Letters, 2014, 112, 026403.	2.9	64

#	ARTICLE	IF	CITATIONS
19	A high-energy-resolution resonant inelastic X-ray scattering spectrometer at ID20 of the European Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2018, 25, 580-591.	1.0	61
20	Momentum Dependence of Orbital Excitations in Mott-Insulating Titanates. Physical Review Letters, 2009, 103, 107205.	2.9	55
21	Supercapacitors with resonant inelastic x-ray scattering at the O K edge. I. Assessment on La ₂ CuO ₄ . Physical Review Letters, 2009, 103, 107205.	1.1	50
22	Pseudospin-lattice coupling in the spin-orbit Mott insulator Sr ₂ VO ₄ . Physical Review B, 2019, 99, .	2.1	16
23	Epitaxy, stoichiometry, and magnetic properties of Gd-doped EuO films on YSZ (001). Physical Review B, 2009, 80, .	1.1	45
24	Occurrence of a high-temperature superconducting phase in (CaCuO) _{1-x} F _x BT _{1-y} O ₃ . Physical Review B, 2009, 80, .		

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37	Observation of heavy spin-orbit excitons propagating in a nonmagnetic background: The case of BaCu_2Si_2 . Physical Review B, 2018, 97, .	1.1	29
38	MariX, an advanced MHz-class repetition rate X-ray source for linear regime time-resolved spectroscopy and photon scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 930, 167-172.	0.7	29
39	Resonant inelastic x-ray incarnation of Young's double-slit experiment. Science Advances, 2019, 5, eaav4020.	4.7	29
40	Improving the energy resolution of bent crystal X-ray spectrometers with position-sensitive detectors. Journal of Synchrotron Radiation, 2014, 21, 762-767.	1.0	28
41	Magnetic excitations and phonons simultaneously studied by resonant inelastic x-ray scattering in optimally doped Bi_2Se_3 . Physical Review B, 2015, 92, .	1.1	28
42	Origin of magnetic moments and presence of spin-orbit singlets in BaYrO_6 . Physical Review B, 2018, 98, .	1.1	27
43	Resonant inelastic x-ray scattering at the L _{2,3} edge of FeSe . Physical Review B, 2017, 95, .	1.1	26
44	Crystal field and low energy excitations measured by high resolution RIXS at the L ₃ edge of Cu, Ni and Mn. European Physical Journal: Special Topics, 2009, 169, 199-205.	1.2	24
45	Bimagnon studies in cuprates with resonant inelastic x-ray scattering at the O _K edge. II. Doping effect in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. Physical Review B, 2012, 85, .	1.1	24
46	Orbital superexchange and crystal field simultaneously at play in YVO_4 . Physical Review B, 2017, 95, .	1.1	24
47	Resonant inelastic x-ray scattering at the V _L edge and the O _K edge of NaOsO_3 . Physical Review B, 2017, 95, .	1.1	24
48	Direct tomography imaging for inelastic X-ray scattering experiments at high pressure. Journal of Synchrotron Radiation, 2017, 24, 269-275.	1.0	23
49	Weak magnetism in insulating and superconducting cuprates. Physical Review B, 2010, 82, .	1.1	22
50	Parametric Down-Conversion of X Rays into the Optical Regime. Physical Review Letters, 2017, 119, 253902.	2.9	22
51	Fingerprints of Kitaev physics in the magnetic excitations of honeycomb iridates. Physical Review Research, 2020, 2, .	1.3	22
52	Crystal field splitting in $\text{Sr}_{n+1}\text{Ir}_n\text{O}_{3n+1}$ ($n=1,2$) iridates probed by x-ray Raman spectroscopy. Physical Review B, 2014, 90, .	1.1	21
53	Evidence for core-hole-mediated inelastic x-ray scattering from metallic FeAs_2 . Physical Review B, 2010, 82, .	1.1	20
54	Pressure-Induced Changes on The Electronic Structure and Electron Topology in the Direct FCC to SH Transformation of Silicon. Journal of Physical Chemistry C, 2014, 118, 1161-1166.	1.5	20

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55	Determining the electron-phonon coupling in superconducting cuprates by resonant inelastic x-ray scattering: Methods and results on $\text{Nd}_{1-x}\text{Ce}_x\text{CuO}_2$. Physical Review Research, 2020, 2, .	1.3	20
56	Study on the reflectivity properties of spherically bent analyser crystals. Journal of Synchrotron Radiation, 2014, 21, 104-110.	1.0	20
57	The Effect of Ni Doping on the Performance and Electronic Structure of LSCF Cathodes Used for IT-SOFCs. Journal of Physical Chemistry C, 2018, 122, 1003-1013.	1.5	19
58	Evolution of the Magnetic Excitations in NaOsO_3 through its Metal-Insulator Transition. Physical Review Letters, 2018, 120, 227203.	2.9	19
59	Long-range interactions in the effective low-energy Hamiltonian of nonstoichiometric $\text{La}_{1-x}\text{Sr}_x\text{CuO}_2$. Physical Review B, 2017, 95, .	1.1	18
60	Core-to-core resonant inelastic x-ray scattering study. Physical Review B, 2017, 95, .	1.1	18
61	Spin and charge excitations in artificial hole- and electron-doped infinite layer cuprate superconductors. Physical Review B, 2017, 96, .	1.1	17
62	Magnetic and ligand field properties of copper at the interfaces of $(\text{CaCuO}_2)_n/(\text{SrTiO}_3)_n$ superlattices. Physical Review B, 2012, 85, .	1.1	16
63	A compact and versatile dynamic flow cryostat for photon science. Review of Scientific Instruments, 2016, 87, 115103.	0.6	16
64	Anisotropic interactions opposing magnetocrystalline anisotropy in $\text{Sr}_3\text{Cu}_2\text{P}_2\text{O}_{14}$. Physical Review B, 2016, 93, .	1.1	16
65	Hopping-Induced Ground-State Magnetism in Perovskite Iridates. Physical Review Letters, 2019, 123, 017201.	2.9	16
66	Possibility to realize spin-orbit-induced correlated physics in iridium fluorides. Physical Review B, 2017, 95, .	1.1	15
67	High-pressure insulator-to-metal transition in $\text{Sr}_3\text{Cu}_2\text{P}_2\text{O}_{14}$ studied by x-ray absorption spectroscopy. Physical Review B, 2018, 97, .	1.1	15
68	Crossover from itinerant to localized magnetic excitations through the metal-insulator transition in NaOsO_3 . Physical Review B, 2018, 97, .	1.1	15
69	Temperature dependence of iron local magnetic moment in phase-separated superconducting chalcogenide. Physical Review B, 2014, 90, .	1.1	14
70	T_c up to 50 K in superlattices of insulating oxides. Superconductor Science and Technology, 2014, 27, 044016.	1.8	14
71	Evolution of electronic and magnetic properties in a series of iridate double perovskites		

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73	Charge localization at the interface between $\text{La}^{1-x}\text{Sr}_x\text{MnO}_3$ and the infinite layers cuprate CaCuO_2 . Journal of Applied Physics, 2012, 112, .	1.1	10
74	Mobile orbitons in $\text{CaMn}_2\text{P}_2\text{O}_{14}$: Crucial role of Hund's exchange. Physical Review B, 2020, 101, .	1.2	10
75	Structural changes in amorphous Ge_xSiO_y on the way to nanocrystal formation. Nanotechnology, 2013, 24, 165701.	1.3	9
76	X-ray Raman scattering: An exciting tool for the study of matter at conditions of the Earth's interior. Journal of Physics: Conference Series, 2013, 425, 202011.	0.3	9
77	Orientation of the ground-state orbital in CeCoIn_5 and CeRhIn_5 . Physical Review B, 2019, 99, .	1.1	9
78	Measurement of the effect of lattice strain on magnetic interactions and orbital splitting in CaCuO_2 using resonant inelastic x-ray scattering. Physical Review B, 2013, 87, .	1.1	8
79	Study of LiCoO_2 nanoparticles by hard x-ray emission and absorption spectroscopies. Applied Physics Letters, 2013, 103, .	1.5	8
80	Resonant inelastic X-ray scattering of magnetic excitations under pressure. Journal of Synchrotron Radiation, 2019, 26, 1725-1732.	1.0	8
81	Fractional Spin Excitations in the Infinite-Layer Cuprate CaCuO_2 . Physical Review X, 2022, 12, .	2.8	8
82	Magnetically induced metal-insulator transition in $\text{PbMn}_2\text{P}_2\text{O}_{14}$. Physical Review B, 2020, 102, .	1.1	8
83	Doping dependence of the electron-phonon coupling in two families of bilayer superconducting cuprates. Physical Review B, 2022, 105, .	1.1	7
84	Resonant Inelastic X-ray Scattering at the ESRF: An Evolving Portfolio for Hard and Soft X-rays. Synchrotron Radiation News, 2018, 31, 26-30.	0.2	5
85	Spin and orbital excitations through the metal-to-insulator transition in CdMn_2O_7 probed with high-resolution resonant inelastic x-ray scattering. Physical Review B, 2020, 101, .	1.1	5
86	Optical magnons with dominant bond-directional exchange interactions in the honeycomb lattice iridate IrMn_2O_7 . Physical Review B, 2021, 103, .	1.1	5
87	Resonant inelastic x-ray absorption spectroscopy and resonant inelastic x-ray scattering. Physical Review B, 2019, 99, .	0.6	5
88	Study of the electronic and magnetic properties as a function of isoelectronic substitution in $\text{SmFe}_{1-x}\text{Ru}_x\text{AsO}_{0.85}\text{F}_{0.15}$. Journal of Physics Condensed Matter, 2014, 26, 065701.	0.7	3
89	Resonant Inelastic X-ray Scattering at the ESRF: Hard and Soft X-rays. Synchrotron Radiation News, 2012, 25, 9-15.	0.2	2
90	Resonant X-ray emission with a standing wave excitation. Scientific Reports, 2016, 6, 22648.	1.6	2

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91	A $j_{\text{eff}} = 1/2$ pseudospin continuum in CaIrO_3 . European Physical Journal Plus, 2020, 135, 1.	1.2	2
92	Breakdown of atomic spin-orbit coupling picture in an apparently isolated pseudo-one-dimensional iridate: $\text{Sr}_3\text{Ir}_2\text{O}_{10}$. Physical Review B, 2022, 105, .	1.1	2
93	Charge ordering in Ir dimers in the ground state of $\text{Ba}_5\text{AlIr}_2\text{O}_{11}$. Physical Review B, 2022, 105, .	1.1	1
94	Phase inhomogeneity and inapplicability of J_{eff} description in dilute $\text{Ir}_{1-x}\text{M}_x\text{O}_3$ doped $\text{Ir}_{1-x}\text{M}_x\text{O}_3$. Physical Review B, 2021, 104, .	1.1	1
95	Orbital reconstruction at the LAO/STO interface investigated by x-ray spectroscopy. Proceedings of SPIE, 2010, , .	0.8	0
96	Resonant Inelastic Soft X-ray Scattering Study of Co-Doped Maghemite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 4980-4986.	0.9	0
97	Structural, Electronic and Magnetic Properties of a Few Nanometer-Thick Superconducting $\text{NdBa}_2\text{Cu}_3\text{O}_7$ Films. Nanomaterials, 2020, 10, 817.	1.9	0