

# Michael Sing

## List of Publications by Year in descending order

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111  
papers

2,845  
citations

147786  
31  
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189881  
50  
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116  
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116  
docs citations

116  
times ranked

3635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Functionalized Ultrathin Oxide Films: The Impact of Surface Apical Oxygen. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	5
2	Room temperature memristive switching in nano-patterned LaAlO <sub>3</sub> /SrTiO <sub>3</sub> wires with laterally defined gates. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	5
3	Controlling the electronic interface properties of AlO <sub>x</sub> /LaAlO <sub>3</sub> heterostructures. <i>Physical Review Materials</i> , 2021, 5, .	2.1	8
4	Hard x-ray photoemission spectroscopy of LaVO <sub>3</sub> /SrTiO <sub>3</sub> : Band alignment and electronic reconstruction. <i>Physical Review B</i> , 2021, 103, .	3.2	4
5	Bulk spin polarization of magnetite from spin-resolved hard x-ray photoelectron spectroscopy. <i>Physical Review B</i> , 2021, 104, .	3.2	5
6	Correcting STEM distortions in atomically resolved elemental maps. <i>Microscopy and Microanalysis</i> , 2021, 27, 596-598.	0.4	0
7	Electronic structure of epitaxial perovskite films in the two-dimensional limit: Role of the surface termination. <i>Applied Physics Letters</i> , 2020, 116, 201601.	3.3	2
8	Atomic-Scale Interface Structure in Domain Matching Epitaxial BaBiO <sub>3</sub> Thin Films Grown on SrTiO <sub>3</sub> Substrates. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000054.	2.4	7
9	Structural and stoichiometric modifications in ultrathin epitaxial BaBiO <sub>3</sub> films. <i>Physical Review B</i> , 2019, 99, .	3.2	5
10	Imaging the Formation of Ferromagnetic Domains at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Interface. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 034717.	1.6	3
11	The new dedicated HAXPES beamline P22 at PETRAIII. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	68
12	Effects of finite-range interactions on the one-electron spectral properties of TTF-TCNQ. <i>Physical Review B</i> , 2019, 100, .	3.2	0
13	Photoelectron Spectroscopy of Transition-Metal Oxide Interfaces. <i>Springer Series in Materials Science</i> , 2018, , 87-105.	0.6	2
14	Theory-restricted resonant x-ray reflectometry of quantum materials. <i>Physical Review B</i> , 2018, 97, .	3.2	6
15	Domain matching epitaxy of BaBiO <sub>3</sub> on SrTiO <sub>3</sub> with structurally modified interface. <i>Applied Physics Letters</i> , 2018, 112, 141601.	3.3	17
16	Raman and fluorescence contributions to the resonant inelastic soft x-ray scattering on LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Physical Review B</i> , 2018, 97, .	3.2	16
17	A Living-Dead Magnetic Layer at the Surface of Ferrimagnetic DyTiO <sub>3</sub> Thin Films. <i>Advanced Materials</i> , 2018, 30, e1707489.	21.0	15
18	Photoemission of buried metal oxide interfaces. , 2018, , 161-180.		1

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19	New HAXPES Applications at PETRA III. Synchrotron Radiation News, 2018, 31, 29-35.	0.8	23
20	Tailoring Materials for Mottronics: Excess Oxygen Doping of a Prototypical Mott Insulator. Advanced Materials, 2018, 30, e1706708.	21.0	45
21	Gate-tunable, normally-on to normally-off memristance transition in patterned LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interfaces. Applied Physics Letters, 2017, 110, .	3.3	7
22	Disentangling specific versus generic doping mechanisms in oxide heterointerfaces. Physical Review B, 2017, 95, .	3.2	35
23	Influence of oxygen vacancies on two-dimensional electron systems at SrTiO <sub>3</sub> -based interfaces and surfaces. European Physical Journal: Special Topics, 2017, 226, 2457-2475.	2.6	18
24	Microscopic origin of the mobility enhancement at a spinel/perovskite oxide heterointerface revealed by photoemission spectroscopy. Physical Review B, 2017, 96, .	3.2	32
25	Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled $\text{SrTiO}_3$ . Physical Review Letters, 2017, 119, 256404.	7.8	81
26	In Situ Control of Separate Electronic Phases on SrTiO <sub>3</sub> Surfaces by Oxygen Dosing. Advanced Materials, 2016, 28, 7443-7449.	21.0	69
27	Three-dimensional electronic structures and the metal-insulator transition in Ruddlesden-Popper iridates. Physical Review B, 2016, 94, .	3.2	17
28	Band bending and alignment at the spinel/perovskite $\text{SrTiO}_3$ heterointerface. Physical Review B, 2015, 91, .	3.2	31
29	Dimensionality-tuned electronic structure of nickelate superlattices explored by soft-x-ray angle-resolved photoelectron spectroscopy. Physical Review B, 2015, 92, .	3.2	14
30	Surface-interface coupling in an oxide heterostructure: Impact of adsorbates on $\text{LaAlO}_3$ /SrTiO <sub>3</sub> heterointerface. Physical Review B, 2015, 92, .	3.2	14
31	Monitoring non-pseudomorphic epitaxial growth of spinel/perovskite oxide heterostructures by reflection high-energy electron diffraction. Applied Physics Letters, 2015, 106, .	3.3	6
32	Electronic Reconstruction at the Isopolar $\text{LaTiO}_3$ Surface. An X-Ray Photoemission and Density-Functional Theory Study. Physical Review Letters, 2014, 113, 237402.	7.8	56
33	Bulk nature of layered perovskite iridates beyond the Mott scenario: An approach from a bulk-sensitive photoemission study. Physical Review B, 2014, 89, .	3.2	24
34	Interface-Induced Modulation of Charge and Polarization in Thin Film Fe <sub>3</sub> O <sub>4</sub> . Advanced Materials, 2014, 26, 461-465.	21.0	16
35	Direct $k$ -Space Mapping of the Electronic Structure in an Oxide-Oxide Interface. Physical Review Letters, 2013, 110, 247601.	7.8	136
36	Polaron physics and crossover transition in magnetite probed by pressure-dependent infrared spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 035602.	1.8	5

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37	Absence of Metallicity in K-doped Picene: Importance of Electronic Correlations. Physical Review Letters, 2013, 110, 216403.	7.8	53
38	Band alignment in LaAlO <sub>3</sub> /SrTiO <sub>3</sub> oxide heterostructures inferred from hard x-ray photoelectron spectroscopy. Physical Review B, 2013, 88, .	3.2	56
39	Unoccupied electronic structure of TiOCl studied using x-ray absorption near-edge spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 255602.	1.8	5
40	Momentum spectrometer for electron-electron coincidence studies on superconductors. Review of Scientific Instruments, 2012, 83, 103905.	1.3	11
41	Pressure dependence of the Verwey transition in magnetite: An infrared spectroscopic point of view. Journal of Applied Physics, 2012, 112, .	2.5	9
42	Magnetic and electronic properties of the interface between half metallic Fe <sub>3</sub> O <sub>4</sub> and semiconducting ZnO. Applied Physics Letters, 2012, 100, 081603.	3.3	14
43	Magnetometry of buried layers—Linear magnetic dichroism and spin detection in angular resolved hard X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 47-52.	1.7	56
44	Surface structure, morphology, and growth mechanism of Fe <sub>3</sub> O <sub>4</sub> /ZnO thin films. Journal of Applied Physics, 2011, 110, .	2.5	6
45	Fe <sub>3</sub> O <sub>4</sub> on ZnO: A spectroscopic study of film and interface properties. Thin Solid Films, 2011, 520, 368-373.	1.8	10
46	Publisher's Note: Two-Spinon and Orbital Excitations of the Spin-Peierls System TiOCl [Phys. Rev. Lett. 107, 107402 (2011)]. Physical Review Letters, 2011, 107, .	7.8	1
47	Two-Spinon and Orbital Excitations of the Spin-Peierls System TiOCl. Physical Review Letters, 2011, 107, 107402.	7.8	29
48	Photoemission of a Doped Mott Insulator: Spectral Weight Transfer and a Qualitative Mott-Hubbard Description. Physical Review Letters, 2011, 106, 056403.	7.8	12
49	Fe <sub>3</sub> O <sub>4</sub> /ZnO: A high-quality magnetic oxide-semiconductor heterostructure by reactive deposition. Applied Physics Letters, 2011, 98, 012512.	3.3	26
50	LaAlO <sub>3</sub> /SrTiO <sub>3</sub> oxide heterostructures studied by resonant inelastic x-ray scattering. Physical Review B, 2010, 82, .	3.2	40
51	Anisotropic crystal field, Mott gap, and interband excitations in TiOCl: An electron energy-loss study. Physical Review B, 2010, 81, .	3.2	0
52	Heat conductivity of the spin-Peierls compounds TiOCl and TiOBr. Physical Review B, 2010, 81, .	3.2	3
53	Two pressure-induced structural phase transitions in TiOCl. Physical Review B, 2010, 82, .	3.2	5
54	Momentum-resolved single-particle spectral function for TiOCl from a combination of density functional and variational cluster calculations. Physical Review B, 2009, 80, .	3.2	8

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55	Probing the interface of $\text{LaAlO}_3/\text{SrTiO}_3$ films by hard x-ray photoelectron spectroscopy. Physical Review B, 2009, 79, .	3.2	18
56	Electronic structure of the two-dimensional Heisenberg antiferromagnet VOCl: A multiorbital Mott insulator. Physical Review B, 2009, 80, .	3.2	32
57	Filling of the Mott-Hubbard gap in the oxyhalides TiOCl and TiOBr induced by external pressure. High Pressure Research, 2009, 29, 509-513.	1.2	3
58	Ti oxohalides: A playground for electron correlation physics. Physica B: Condensed Matter, 2009, 404, 530-532.	2.7	0
59	Possible metallization of the Mott insulators TiOCl and TiOBr: Effects of doping and external pressure. European Physical Journal: Special Topics, 2009, 180, 29-42.	2.6	5
60	Profiling the Interface Electron Gas of $\text{LaAlO}_3/\text{SrTiO}_3$ with Hard X-Ray Photoelectron Spectroscopy. Physical Review Letters, 2009, 102, 176805.	3.2	26
61	Hard x-ray photoelectron spectroscopy of oxide hybrid and heterostructures: a new method for the study of buried interfaces. New Journal of Physics, 2009, 11, 125007.	2.9	49
62	Infrared studies of magnetite under high pressure. High Pressure Research, 2009, 29, 500-503.	1.2	6
63	Surface segregation of interstitial manganese in $\text{Ga}_2\text{O}_3/\text{TiO}_2$ by hard x-ray photoemission spectroscopy. Physical Review B, 2008, 78, .	3.2	12
64	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. Physical Review B, 2008, 78, .	3.2	22
65	Cluster dynamical mean-field calculations for TiOCl. New Journal of Physics, 2007, 9, 380-380.	2.9	11
66	Structural vs electronic origin of renormalized band widths in TTF-TCNQ: An angular dependent NEXAFS study. Physical Review B, 2007, 76, .	3.2	14
67	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. Physical Review B, 2007, 76, .	3.2	17
68	Thermodynamic stability and atomic and electronic structure of reduced $\text{Fe}_3\text{O}_4$ single-crystal surfaces. Physical Review B, 2007, 76, .	3.2	29
69	One-dimensional versus two-dimensional correlation effects in the oxyhalides TiOCl and TiOBr. Physical Review B, 2007, 75, .	3.2	17
70	Muon-spin relaxation measurements on the dimerized spin-1/2 chains $\text{NaTiSi}_2\text{O}_6$ and TiOCl. Physical Review B, 2007, 75, .	3.2	23
71	Unusual Spin-Peierls Physics in the Layered Quantum Magnet TiOCl. AIP Conference Proceedings, 2007, , .	0.4	1
72	Dimensionality of the electronic states in studied by soft X-ray photoemission. Journal of Magnetism and Magnetic Materials, 2007, 310, 816-818.	2.3	1

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73	Photoemission on Quasi-One-Dimensional Solids: Peierls, Luttinger & Co., 2007, , 115-146.		1
74	The Hubbard model description of the TCNQ related singular features in photoemission of TTF-TCNQ. Journal of Physics Condensed Matter, 2006, 18, 5191-5212.	1.8	19
75	Spin dynamics in the low-dimensional magnet TiOCl. Physical Review B, 2006, 73, .	3.2	29
76	Possible pressure-induced insulator-to-metal transition in low-dimensional TiOCl. Physical Review B, 2006, 74, .	3.2	38
77	Incommensurate structure of the spin-Peierls compound TiOCl in zero and finite magnetic fields. Physical Review B, 2006, 73, .	3.2	40
78	Bulk electronic state of high- cuprate $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ observed by high-energy angle integrated and resolved photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 507-509.	1.7	3
79	Comprehensive study of resonant inelastic X-ray scattering (RIXS) of one-dimensional $\text{SrCuO}_2$ . Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 685-687.	1.7	0
80	Resonant inelastic X-ray scattering of $\text{Sr}_2\text{CuO}_3$ . Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 833-835.	1.7	2
81	Bulk electronic structures of n-type superconductor $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ probed by high energy angle-resolved photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 541-543.	1.7	5
82	Electronic structure and fluctuation effects in the spin-1/2 quantum magnet TiOCl. European Physical Journal Special Topics, 2005, 131, 331-334.	0.2	0
83	Electronic structure of the spin-1/2 quantum magnet TiOCl. Physical Review B, 2005, 72, .	3.2	34
84	Heat capacity of the quantum magnet TiOCl. Physical Review B, 2005, 72, .	3.2	33
85	High-energy photoemission on $\text{Fe}_3\text{O}_4$ : Small polaron physics and the Verwey transition. Europhysics Letters, 2005, 70, 789-795.	2.0	83
86	Charge dynamics in strongly correlated one-dimensional Cu-O chain systems revealed by inelastic x-ray scattering. Physical Review B, 2005, 72, .	3.2	37
87	Terahertz conductivity at the Verwey transition in magnetite. Physical Review B, 2005, 72, .	3.2	57
88	Technique for bulk Fermiology by photoemission applied to layered ruthenates. Physical Review B, 2004, 70, .	3.2	75
89	Surface electronic structure and Verwey-transition of magnetite studied by photoemission spectroscopy. Annalen Der Physik, 2004, 13, 78-80.	2.4	5
90	Resonant inelastic X-ray scattering (RIXS) of $\text{SrCuO}_2$ . Solid State Communications, 2004, 130, 7-11.	1.9	2

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91	Circular dichroism and bilayer splitting in the normal state of underdoped $(\text{Pb,Bi})_2\text{Sr}_2(\text{Ca}_x\text{Y}_{1-x})\text{Cu}_2\text{O}_8$ and overdoped $(\text{Pb,Bi})_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ . <i>Physical Review B</i> , 2004, 69, .	3.2	18
92	One-electron singular branch lines of the Hubbard chain. <i>Europhysics Letters</i> , 2004, 67, 233-239.	2.0	30
93	Signatures of spin-charge separation in the 1D organic conductor TTF-TCNQ from photoelectron spectroscopy. <i>European Physical Journal Special Topics</i> , 2004, 114, 51-55.	0.2	3
94	Electronic structure of the quasi-one-dimensional organic conductor TTF-TCNQ. <i>Physical Review B</i> , 2003, 68, .	3.2	106
95	Unusual Spectral Behavior of Charge-Density Waves with Imperfect Nesting in a Quasi-One-Dimensional Metal. <i>Physical Review Letters</i> , 2003, 91, 066401.	7.8	58
96	Surface characterization and surface electronic structure of organic quasi-one-dimensional charge transfer salts. <i>Physical Review B</i> , 2003, 67, .	3.2	33
97	Spectroscopic Signatures of Spin-Charge Separation in the Quasi-One-Dimensional Organic Conductor TTF-TCNQ. <i>Physical Review Letters</i> , 2002, 88, 096402.	7.8	157
98	Correlation versus surface effects in photoemission of quasi-1D organic conductors. <i>Physica B: Condensed Matter</i> , 2002, 312-313, 660-662.	2.7	5
99	Electronic structure of the quasi-one-dimensional organic conductor TTF-TCNQ. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 717-721.	1.7	10
100	Unoccupied electronic structure of $\text{Li}_2\text{CuO}_2$ . <i>Physical Review B</i> , 1999, 60, 13413-13417.	3.2	30
101	Electronic structure of metallic $\text{K}_0.3\text{MoO}_3$ and insulating $\text{MoO}_3$ from high-energy spectroscopy. <i>Physical Review B</i> , 1999, 60, 8559-8568.	3.2	35
102	Complex loss function of CdTe. <i>Physical Review B</i> , 1999, 59, 5544-5550.	3.2	8
103	Plasmon excitations in quasi-one-dimensional $\text{K}_0.3\text{MoO}_3$ . <i>Physical Review B</i> , 1999, 59, 5414-5425.	3.2	16
104	Potassium intercalated bundles of single-wall carbon nanotubes: electronic structure and optical properties. <i>Solid State Communications</i> , 1999, 109, 721-726.	1.9	65
105	Plasmon dispersion in quasi-one-dimensional $(\text{TaSe}_4)_2\text{I}$ and $\text{K}_0.3\text{MoO}_3$ . <i>Synthetic Metals</i> , 1999, 102, 1591-1594.	3.9	3
106	Electronic structure studies of pressure-polymerized C60. <i>Synthetic Metals</i> , 1999, 103, 2454-2455.	3.9	3
107	Influence of the core polarization on the dielectric properties of polyvalent metals. <i>European Physical Journal B</i> , 1998, 6, 323-328.	1.5	6
108	Unusual plasmon dispersion in the quasi-one-dimensional conductor $(\text{TaSe}_4)_2\text{I}$ : Experiment and theory. <i>Physical Review B</i> , 1998, 57, 12768-12771.	3.2	11

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109	The electronic structure of fullerenes and fullerene compounds from high-energy spectroscopy. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 8219-8247.	1.8	65
110	The electronic structure of the conduction band of K3C60 studied by photoemission and electron energy-loss spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2491-2492.	1.2	5
111	Electron energy-loss and photoemission studies of solid C84. <i>Physical Review B</i> , 1994, 50, 4933-4936.	3.2	21