

# Michael Sing

## List of Publications by Year in descending order

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111  
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2,845  
citations

147726  
31  
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189801  
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116  
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116  
docs citations

116  
times ranked

3635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Profiling the Interface Electron Gas of $\text{LaAlO}_3$ with Hard X-Ray Photoelectron Spectroscopy. Physical Review Letters, 2009, 102, 176805.	2.9	260
2	Spectroscopic Signatures of Spin-Charge Separation in the Quasi-One-Dimensional Organic Conductor TTF-TCNQ. Physical Review Letters, 2002, 88, 096402.	2.9	157
3	Direct $k$ -Space Mapping of the Electronic Structure in an Oxide-Oxide Interface. Physical Review Letters, 2013, 110, 247601.	2.9	136
4	Electronic structure of the quasi-one-dimensional organic conductor TTF-TCNQ. Physical Review B, 2003, 68, .	1.1	106
5	High-energy photoemission on $\text{Fe}_3\text{O}_4$ : Small polaron physics and the Verwey transition. Europhysics Letters, 2005, 70, 789-795.	0.7	83
6	Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled $\text{SrIrO}_3$ . Physical Review Letters, 2017, 119, 256404.	2.9	81
7	Technique for bulk Fermiology by photoemission applied to layered ruthenates. Physical Review B, 2004, 70, .	1.1	75
8	In Situ Control of Separate Electronic Phases on $\text{SrTiO}_3$ Surfaces by Oxygen Dosing. Advanced Materials, 2016, 28, 7443-7449.	11.1	69
9	The new dedicated HAXPES beamline P22 at PETRAIII. AIP Conference Proceedings, 2019, , .	0.3	68
10	The electronic structure of fullerenes and fullerene compounds from high-energy spectroscopy. Journal of Physics Condensed Matter, 1995, 7, 8219-8247.	0.7	65
11	Potassium intercalated bundles of single-wall carbon nanotubes: electronic structure and optical properties. Solid State Communications, 1999, 109, 721-726.	0.9	65
12	Unusual Spectral Behavior of Charge-Density Waves with Imperfect Nesting in a Quasi-One-Dimensional Metal. Physical Review Letters, 2003, 91, 066401.	2.9	58
13	Terahertz conductivity at the Verwey transition in magnetite. Physical Review B, 2005, 72, .	1.1	57
14	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.	0.8	56
15	Linear magnetic dichroism in $\text{LaAlO}_3/\text{SrTiO}_3$ oxide heterostructures inferred from hard x-ray photoemission spectroscopy. Physical Review Letters, 2014, 113, 237402.	1.1	56
16	Electronic Reconstruction at the Isopolar $\text{LaTiO}_3$ . Physical Review Letters, 2014, 113, 237402.	2.9	56
17	Absence of Metallicity in K-doped Picene: Importance of Electronic Correlations. Physical Review Letters, 2013, 110, 216403.	2.9	53
18	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.	1.2	49

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19	Tailoring Materials for Mottronics: Excess Oxygen Doping of a Prototypical Mott Insulator. <i>Advanced Materials</i> , 2018, 30, e1706708.	11.1	45
20	Surface-interface coupling in an oxide heterostructure: Impact of adsorbates on $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2015, 92, .	11.1	42
21	Incommensurate structure of the spin-Peierls compound $\text{TiOCl}$ in zero and finite magnetic fields. <i>Physical Review B</i> , 2006, 73, .	1.1	40
22	$\text{LaAlO}_3/\text{SrTiO}_3$ oxide heterostructures studied by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2010, 82, .	1.1	40
23	Possible pressure-induced insulator-to-metal transition in low-dimensional $\text{TiOCl}$ . <i>Physical Review B</i> , 2006, 74, .	1.1	38
24	Charge dynamics in strongly correlated one-dimensional Cu-O chain systems revealed by inelastic x-ray scattering. <i>Physical Review B</i> , 2005, 72, .	1.1	37
25	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.	1.1	35
26	Disentangling specific versus generic doping mechanisms in oxide heterointerfaces. <i>Physical Review B</i> , 2017, 95, .	1.1	35
27	Electronic structure of the spin-1/2 quantum magnet $\text{TiOCl}$ . <i>Physical Review B</i> , 2005, 72, .	1.1	34
28	Surface characterization and surface electronic structure of organic quasi-one-dimensional charge transfer salts. <i>Physical Review B</i> , 2003, 67, .	1.1	33
29	Heat capacity of the quantum magnet $\text{TiOCl}$ . <i>Physical Review B</i> , 2005, 72, .	1.1	33
30	Band bending and alignment at the spinel/perovskite $\text{Fe}^{13}\text{O}_4/\text{Fe}^{13}\text{O}_4$ interface. <i>Physical Review B</i> , 2015, 91, .	1.1	33
31	Electronic structure of the two-dimensional Heisenberg antiferromagnet $\text{VOCl}$ : A multi-orbital Mott insulator. <i>Physical Review B</i> , 2009, 80, .	1.1	32
32	Microscopic origin of the mobility enhancement at a spinel/perovskite oxide heterointerface revealed by photoemission spectroscopy. <i>Physical Review B</i> , 2017, 96, .	1.1	32
33	Unoccupied electronic structure of $\text{Li}_2\text{CuO}_2$ . <i>Physical Review B</i> , 1999, 60, 13413-13417.	1.1	30
34	One-electron singular branch lines of the Hubbard chain. <i>Europhysics Letters</i> , 2004, 67, 233-239.	0.7	30
35	Spin dynamics in the low-dimensional magnet $\text{TiOCl}$ . <i>Physical Review B</i> , 2006, 73, .	1.1	29
36	Thermodynamic stability and atomic and electronic structure of reduced $\text{Fe}^{13}\text{O}_4/\text{Fe}^{13}\text{O}_4$ single-crystal surfaces. <i>Physical Review B</i> , 2007, 76, .	1.1	29

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37	Two-Spinon and Orbital Excitations of the Spin-Peierls System TiOCl. Physical Review Letters, 2011, 107, 107402.	2.9	29
38	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.	1.5	26
39	Bulk nature of layered perovskite iridates beyond the Mott scenario: An approach from a bulk-sensitive photoemission study. Physical Review B, 2014, 89, .	1.1	24
40	Muon-spin relaxation measurements on the dimerized spin-1/2 chains NaTiSi <sub>2</sub> O <sub>6</sub> and TiOCl. Physical Review B, 2007, 75, .	1.1	23
41	New HAXPES Applications at PETRA III. Synchrotron Radiation News, 2018, 31, 29-35.	0.2	23
42	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. Physical Review B, 2008, 78, .	1.1	22
43	Electron energy-loss and photoemission studies of solid C <sub>84</sub> . Physical Review B, 1994, 50, 4933-4936.	1.1	21
44	The Hubbard model description of the TCNQ related singular features in photoemission of TTF-TCNQ. Journal of Physics Condensed Matter, 2006, 18, 5191-5212.	0.7	19
45	Circular dichroism and bilayer splitting in the normal state of underdoped (Pb,Bi) <sub>2</sub> Sr <sub>2</sub> (Ca <sub>x</sub> Y <sub>1-x</sub> )Cu <sub>2</sub> O <sub>8</sub> + $\delta$ and overdoped (Pb,Bi) <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ . Physical Review B, 2004, 69, .	1.1	18
46	Probing the interface of $\text{Fe}_3\text{O}_4/\text{TiO}_2$ films by hard x-ray photoelectron spectroscopy. Physical Review B, 2009, 79, .	1.1	18
47	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.	1.2	18
48	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. Physical Review B, 2007, 76, .	1.1	17
49	One-dimensional versus two-dimensional correlation effects in the oxyhalides TiOCl and TiOBr. Physical Review B, 2007, 75, .	1.1	17
50	Three-dimensional electronic structures and the metal-insulator transition in Ruddlesden-Popper iridates. Physical Review B, 2016, 94, .	1.1	17
51	Domain matching epitaxy of BaBiO <sub>3</sub> on SrTiO <sub>3</sub> with structurally modified interface. Applied Physics Letters, 2018, 112, 141601.	1.5	17
52	Plasmon excitations in quasi-one-dimensional K <sub>0.3</sub> MoO <sub>3</sub> . Physical Review B, 1999, 59, 5414-5425.	1.1	16
53	Interface-induced Modulation of Charge and Polarization in Thin Film Fe <sub>3</sub> O <sub>4</sub> . Advanced Materials, 2014, 26, 461-465.	11.1	16
54	Raman and fluorescence contributions to the resonant inelastic soft x-ray scattering on LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Physical Review B, 2018, 97, .	1.1	16

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55	A Living&#x2013;Dead Magnetic Layer at the Surface of Ferrimagnetic DyTiO <sub>3</sub> Thin Films. Advanced Materials, 2018, 30, e1707489.	11.1	15
56	Structural vs electronic origin of renormalized band widths in TTF-TCNQ: An angular dependent NEXAFS study. Physical Review B, 2007, 76, .	1.1	14
57	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.	1.5	14
58	Dimensionality-tuned electronic structure of nickelate superlattices explored by soft-x-ray angle-resolved photoelectron spectroscopy. Physical Review B, 2015, 92, .	1.1	14
59	Surface segregation of interstitial manganese in $Ga_{1-x}Mn_xI_3$ by hard x-ray photoemission spectroscopy. Physical Review B, 2008, 78, .	1.1	12
60	Photoemission of a Doped Mott Insulator: Spectral Weight Transfer and a Qualitative Mott-Hubbard Description. Physical Review Letters, 2011, 106, 056403.	2.9	12
61	Unusual plasmon dispersion in the quasi-one-dimensional conductor (TaSe <sub>4</sub> ) <sub>2</sub> I: Experiment and theory. Physical Review B, 1998, 57, 12768-12771.	1.1	11
62	Cluster dynamical mean-field calculations for TiOCl. New Journal of Physics, 2007, 9, 380-380.	1.2	11
63	Momentum spectrometer for electron-electron coincidence studies on superconductors. Review of Scientific Instruments, 2012, 83, 103905.	0.6	11
64	Electronic structure of the quasi-one-dimensional organic conductor TTF-TCNQ. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 717-721.	0.8	10
65	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.	0.8	10
66	Pressure dependence of the Verwey transition in magnetite: An infrared spectroscopic point of view. Journal of Applied Physics, 2012, 112, .	1.1	9
67	Complex loss function of CdTe. Physical Review B, 1999, 59, 5544-5550.	1.1	8
68	Momentum-resolved single-particle spectral function for TiOCl from a combination of density functional and variational cluster calculations. Physical Review B, 2009, 80, .	1.1	8
69	Controlling the electronic interface properties of $AlO_x$ Physical Review Materials, 2021, 5, .	0.9	8
70	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, .	1.5	7
71	Atomic&#x2013;Scale Interface Structure in Domain Matching Epitaxial BaBiO <sub>3</sub> Thin Films Grown on SrTiO <sub>3</sub> Substrates. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000054.	1.2	7
72	Influence of the core polarization on the dielectric properties of polyvalent metals. European Physical Journal B, 1998, 6, 323-328.	0.6	6

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73	Infrared studies of magnetite under high pressure. High Pressure Research, 2009, 29, 500-503.	0.4	6
74	Surface structure, morphology, and growth mechanism of Fe <sub>3</sub> O <sub>4</sub> /ZnO thin films. Journal of Applied Physics, 2011, 110, .	1.1	6
75	Monitoring non-pseudomorphic epitaxial growth of spinel/perovskite oxide heterostructures by reflection high-energy electron diffraction. Applied Physics Letters, 2015, 106, .	1.5	6
76	Theory-restricted resonant x-ray reflectometry of quantum materials. Physical Review B, 2018, 97, .	1.1	6
77	The electronic structure of the conduction band of K <sub>3</sub> C <sub>60</sub> studied by photoemission and electron energy-loss spectroscopy. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2491-2492.	0.6	5
78	Correlation versus surface effects in photoemission of quasi-1D organic conductors. Physica B: Condensed Matter, 2002, 312-313, 660-662.	1.3	5
79	Surface electronic structure and Verwey-transition of magnetite studied by photoemission spectroscopy. Annalen Der Physik, 2004, 13, 78-80.	0.9	5
80	Bulk electronic structures of n-type superconductor Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> probed by high energy angle-resolved photoemission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 541-543.	0.8	5
81	Possible metallization of the Mott insulators TiOCl and TiOBr: Effects of doping and external pressure. European Physical Journal: Special Topics, 2009, 180, 29-42.	1.2	5
82	Two pressure-induced structural phase transitions in TiOCl. Physical Review B, 2010, 82, .	1.1	5
83	Unoccupied electronic structure of TiOCl studied using x-ray absorption near-edge spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 255602.	0.7	5
84	Polaron physics and crossover transition in magnetite probed by pressure-dependent infrared spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 035602.	0.7	5
85	Structural and stoichiometric modifications in ultrathin epitaxial $\text{BaBiO}_3$ films. Physical Review B, 2019, 99, .	1.1	5
86	Room temperature memristive switching in nano-patterned LaAlO <sub>3</sub> /SrTiO <sub>3</sub> wires with laterally defined gates. Applied Physics Letters, 2021, 118, .	1.5	5
87	Bulk spin polarization of magnetite from spin-resolved hard x-ray photoelectron spectroscopy. Physical Review B, 2021, 104, .	1.1	5
88	Toward Functionalized Ultrathin Oxide Films: The Impact of Surface Apical Oxygen. Advanced Electronic Materials, 2022, 8, .	2.6	5
89	Hard x-ray photoemission spectroscopy of LaVO <sub>3</sub> /SrTiO <sub>3</sub> : Band alignment and electronic reconstruction. Physical Review B, 2021, 103, .	1.1	4
90	Plasmon dispersion in quasi-one-dimensional (TaSe <sub>4</sub> ) <sub>2</sub> I and K <sub>0.3</sub> MoO <sub>3</sub> . Synthetic Metals, 1999, 102, 1591-1594.	2.1	3

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91	Electronic structure studies of pressure-polymerized C60. <i>Synthetic Metals</i> , 1999, 103, 2454-2455.	2.1	3
92	Bulk electronic state of high-temperature cuprate $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ observed by high-energy angle integrated and resolved photoemission spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 507-509.	0.8	3
93	Filling of the Mott-Hubbard gap in the oxyhalides TiOCl and TiOBr induced by external pressure. <i>High Pressure Research</i> , 2009, 29, 509-513.	0.4	3
94	Heat conductivity of the spin-Peierls compounds TiOCl and TiOBr. <i>Physical Review B</i> , 2010, 81, .	1.1	3
95	Imaging the Formation of Ferromagnetic Domains at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 034717.	0.7	3
96	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
97	Resonant inelastic X-ray scattering (RIXS) of $\text{SrCuO}_2$ . <i>Solid State Communications</i> , 2004, 130, 7-11.	0.9	2
98	Resonant inelastic X-ray scattering of $\text{Sr}_2\text{CuO}_3$ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 833-835.	0.8	2
99	Photoelectron Spectroscopy of Transition-Metal Oxide Interfaces. <i>Springer Series in Materials Science</i> , 2018, , 87-105.	0.4	2
100	Electronic structure of epitaxial perovskite films in the two-dimensional limit: Role of the surface termination. <i>Applied Physics Letters</i> , 2020, 116, 201601.	1.5	2
101	Unusual Spin-Peierls Physics in the Layered Quantum Magnet TiOCl. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	1
102	Dimensionality of the electronic states in studied by soft X-ray photoemission. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 816-818.	1.0	1
103	Publisher's Note: Two-Spinon and Orbital Excitations of the Spin-Peierls System TiOCl [ <i>Phys. Rev. Lett.</i> 107, 107402 (2011)]. <i>Physical Review Letters</i> , 2011, 107, .	2.9	1
104	Photoemission of buried metal oxide interfaces. , 2018, , 161-180.		1
105	Photoemission on Quasi-One-Dimensional Solids: Peierls, Luttinger & Co., 2007, , 115-146.		1
106	Comprehensive study of resonant inelastic X-ray scattering (RIXS) of one-dimensional $\text{SrCuO}_2$ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 685-687.	0.8	0
107	Electronic structure and fluctuation effects in the spin-1/2 quantum magnet TiOCl. <i>European Physical Journal Special Topics</i> , 2005, 131, 331-334.	0.2	0
108	Ti oxohalides: A playground for electron correlation physics. <i>Physica B: Condensed Matter</i> , 2009, 404, 530-532.	1.3	0

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109	Anisotropic crystal field, Mott gap, and interband excitations in TiOCl: An electron energy-loss study. Physical Review B, 2010, 81, .	1.1	0
110	Effects of finite-range interactions on the one-electron spectral properties of TTF-TCNQ. Physical Review B, 2019, 100, .	1.1	0
111	Correcting STEM distortions in atomically resolved elemental maps. Microscopy and Microanalysis, 2021, 27, 596-598.	0.2	0