

Miguel Abbate

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2249280/publications.pdf>

Version: 2024-02-01

128
papers

6,768
citations

76196

40
h-index

62479

80
g-index

128
all docs

128
docs citations

128
times ranked

7586
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled-valence properties of $\text{La}_{1-x}\text{Sr}_x\text{FeO}_3$ and $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ studied by soft-x-ray absorption spectroscopy. <i>Physical Review B</i> , 1992, 46, 4511-4519.	1.1	619
2	Electronic structure of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ studied by photoemission and x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1995, 51, 13942-13951.	1.1	538
3	Possibility for an intermediate-spin ground state in the charge-transfer material SrCoO_3 . <i>Physical Review B</i> , 1995, 51, 11501-11506.	1.1	339
4	Electronic structure and spin-state transition of LaCoO_3 . <i>Physical Review B</i> , 1993, 47, 16124-16130.	1.1	331
5	Electronic structure and temperature-induced paramagnetism in LaCoO_3 . <i>Physical Review B</i> , 1997, 55, 4257-4266.	1.1	317
6	Oxygen 1s x-ray absorption of tetravalent titanium oxides: A comparison with single-particle calculations. <i>Physical Review B</i> , 1993, 48, 2074-2080.	1.1	264
7	Probing depth of soft x-ray absorption spectroscopy measured in total-electron-yield mode. <i>Surface and Interface Analysis</i> , 1992, 18, 65-69.	0.8	186
8	Soft-x-ray-absorption studies of the location of extra charges induced by substitution in controlled-valence materials. <i>Physical Review B</i> , 1991, 44, 5419-5422.	1.1	172
9	Doping-induced changes in the electronic structure of $\text{La}_x\text{Sr}_{1-x}\text{TiO}_3$: Limitation of the one-electron rigid-band model and the Hubbard model. <i>Physical Review B</i> , 1992, 46, 9841-9844.	1.1	170
10	Electronic structure and magnetic states in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ studied by photoemission and x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1997, 56, 1290-1295.	1.1	155
11	Soft-x-ray-absorption studies of the electronic-structure changes through the VO_2 phase transition. <i>Physical Review B</i> , 1991, 43, 7263-7266.	1.1	153
12	2p X-ray absorption of titanium in minerals. <i>Physics and Chemistry of Minerals</i> , 1992, 19, 140-147.	0.3	152
13	Surface effects in the Ni 2p x-ray photoemission spectra of NiO. <i>Physical Review B</i> , 2007, 75, .	1.1	134
14	Oxygen 1s and cobalt 2p X-ray absorption of cobalt oxides. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 2277-2288.	0.7	132
15	Dilute-defect magnetism: Origin of magnetism in nanocrystalline CeO_2 . <i>Physical Review B</i> , 2009, 80, .	1.1	129
16	Soft X-ray absorption spectroscopy of vanadium oxides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 62, 185-195.	0.8	119
17	X-ray absorption of the negative charge-transfer material $\text{SrFe}_{1-x}\text{Co}_x\text{O}_3$. <i>Physical Review B</i> , 2002, 65, .	1.1	115
18	Electronic structure of SrRuO_3 . <i>Physical Review B</i> , 1997, 56, 6380-6383.	1.1	103

#	ARTICLE	IF	CITATIONS
19	Electronic structure of the transition metal ions in LiCoO ₂ , LiNiO ₂ and LiCo _{0.5} Ni _{0.5} O ₂ . Chemical Physics Letters, 1999, 309, 14-18.	1.2	102
20	Band-structure and cluster-model calculations of LaCoO ₃ in the low-spin phase. Physical Review B, 1994, 49, 7210-7218.	1.1	97
21	Fine structure of the Ca 2p x-ray-absorption edge for bulk compounds, surfaces, and interfaces. Physical Review B, 1991, 43, 6899-6907.	1.1	89
22	Electronic structure and metal-insulator transition in LaNiO ₃ . Physical Review B, 2002, 65, .	1.1	89
23	Surface contributions to the XPS spectra of nanostructured NiO deposited on HOPG. Surface Science, 2012, 606, 1426-1430.	0.8	76
24	Polyaniline/lignin blends: thermal analysis and XPS. European Polymer Journal, 2001, 37, 2217-2223.	2.6	75
25	Investigation of surface and non-local screening effects in the Ni 2p core level photoemission spectra of NiO. Chemical Physics Letters, 2011, 501, 437-441.	1.2	74
26	The soft X-ray spectroscopy beamline at the LNLS: technical description and commissioning results. Journal of Synchrotron Radiation, 1999, 6, 964-972.	1.0	72
27	The O 1s x-ray absorption spectra of transition-metal oxides: The TiO ₂ , ZrO ₂ , HfO ₂ and V ₂ O ₅ , Nb ₂ O ₅ , Ta ₂ O ₅ series. Solid State Communications, 1993, 87, 699-703.	0.9	70
28	Chemical changes induced by sputtering in TiO ₂ and some selected titanates as observed by X-ray absorption spectroscopy. Surface Science, 1993, 290, 427-435.	0.8	68
29	Interface effects in the Ni x-ray photoelectron spectra of NiO thin films grown on oxide substrates. Physical Review B, 2008, 77, .	1.1	66
30	Electronic Structure of Transition Metal Ions in Deintercalated and Reintercalated LiCo _{0.5} Ni _{0.5} O ₂ . Journal of the Electrochemical Society, 2000, 147, 1651.	1.3	65
31	Ti-, Al-, and Cu-Doping Induced Gap States in LiFePO ₄ . Electrochemical and Solid-State Letters, 2005, 8, A288.	2.2	62
32	The electronic structure of mesoscopic NiO particles. Chemical Physics Letters, 1993, 208, 460-464.	1.2	60
33	Thermal oxidation of TiN studied by means of soft x-ray absorption spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 47-51.	0.9	55
34	Preparation and characterization of TiO ₂ and V ₂ O ₅ nanoparticles produced by ball-milling. Journal of Alloys and Compounds, 2003, 352, 16-20.	2.8	52
35	Electronic structure of Y _{1-x} Ca _x VO ₃ studied by high-energy spectroscopies. Physical Review B, 1999, 59, 7422-7432.	1.1	48
36	Oxidation State and Size Effects in CoO Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 6676-6679.	1.2	46

#	ARTICLE	IF	CITATIONS
37	Electronic structure of CaMnO_x with $2.66 < x < 3.00$ studied with photoemission and x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1998, 58, 3755-3761.	1.1	42
38	Fe and Mo Valences in $\text{Sr}_2\text{FeMoO}_6$. <i>Solid State Communications</i> , 2001, 120, 161-164.	0.9	42
39	Evolution of the spectral weight in the Mott-Hubbard series $\text{SrVO}_{3-x}\text{Ti}_x\text{O}_7$ <i>Physical Review B</i> , 2008, 78, .	1.1	42
40	Changes in the electronic structure of Ti_4O_7 across the semiconductor-metal transitions. <i>Physical Review B</i> , 1995, 51, 10150-10153.	1.1	40
41	The electronic structure of TiN and VN : X-ray and electron spectra compared to band structure calculations. <i>Solid State Communications</i> , 1997, 102, 291-296.	0.9	38
42	Splitting of $\text{Ni}3d$ states at the surface of NiO nanostructures. <i>Physical Review B</i> , 2006, 74, .	1.1	38
43	The electronic structure of ZrO_2 : Band structure calculations compared to electron and x-ray spectra. <i>Solid State Communications</i> , 1995, 93, 659-665.	0.9	37
44	Polarization dependence of the Cu 2p absorption spectra in $(\text{Bi}_{0.84}\text{Pb}_{0.16})_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. <i>Physical Review B</i> , 1990, 42, 7914-7917.	1.1	36
45	Chemical analysis of passivated and oxidized layers on FeCr and FeTi alloys by soft x-ray absorption spectroscopy. <i>Surface and Interface Analysis</i> , 1993, 20, 21-26.	0.8	34
46	The interaction of N with Ti and the oxidation of TiN studied by soft X-ray absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993, 62, 197-206.	0.8	32
47	Compensation temperatures and exchange bias in $\text{La}_{1-x}\text{Ni}_x\text{O}_7$ <i>Physical Review B</i> , 2016, 93, .	1.1	31
48	Formation of Li_2O in a chemically Li-intercalated V_2O_5 xerogel. <i>Solid State Ionics</i> , 2001, 140, 241-248.	1.3	29
49	Structural and Morphological Characterization of the PP-0559 Kaolinite from the Brazilian Amazon Region. <i>Journal of the Brazilian Chemical Society</i> , 2002, 13, 270-275.	0.6	28
50	Effects of Ni vacancies and crystallite size on the O 1s and Ni 2p x-ray absorption spectra of nanocrystalline NiO . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 495506.	0.7	27
51	Resonant photoemission at the 2p thresholds of Fe, Co, and Ni metal. <i>European Physical Journal B</i> , 1994, 95, 9-12.	0.6	26
52	Synthesis, crystal chemistry and physical properties of the Ruddlesden-Popper phases $\text{Sr}_3\text{Fe}_2\text{Ni}_x\text{O}_7$ $(0 < x < 1.0)$. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1559-1568.	1.4	26
53	The LNLS soft X-ray spectroscopy beamline. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 539-541.	1.0	25
54	XANES and EXAFS of chemically deintercalated $\text{LiCo}_{0.5}\text{Ni}_{0.5}\text{O}_2$. <i>Solid State Ionics</i> , 2001, 139, 83-88.	1.3	25

#	ARTICLE	IF	CITATIONS
55	The negative and positive structural effects of Ga doping in the electrochemical performance of LiCoO ₂ . <i>Electrochimica Acta</i> , 2005, 51, 7-13.	2.6	25
56	Cluster model calculations with nonlocal screening channels of metallic and insulating VO ₂ . <i>Physical Review B</i> , 2006, 74, .	1.1	25
57	Study of the growth of NiO on highly oriented pyrolytic graphite by X-ray absorption spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 111-114.	0.8	25
58	Optical conductivity and x-ray absorption spectra of the Mott-Hubbard compounds $R_{1-x}VO_2$	1.1	23
59	Electronic structure of granular FeAl ₂ O ₃ thin films prepared by co-evaporation. <i>Solid State Communications</i> , 2000, 116, 457-460.	0.9	22
60	Antiferromagnetic-to-ferromagnetic transition induced by diluted Co in SrFe _{1-x} Co _x O ₃ : Magnetic circular x-ray dichroism study. <i>Physical Review B</i> , 2005, 71, .	1.1	22
61	The growth of cobalt oxides on HOPG and SiO ₂ surfaces: A comparative study. <i>Surface Science</i> , 2014, 624, 145-153.	0.8	22
62	The electronic structure of CaMnO _x with 2.66 ≤ x ≤ 3.00. <i>Solid State Communications</i> , 1997, 103, 9-13.	0.9	21
63	XPS and XAS spectra of CaMnO ₃ and LaMnO ₃ . <i>Physica B: Condensed Matter</i> , 2002, 320, 51-55.	1.3	20
64	Mn-2p XPS spectra of differently hole-doped Mn perovskites. <i>Solid State Communications</i> , 2002, 123, 81-85.	0.9	20
65	Cluster model and band structure calculations of VO_2 Reduced $R_{1-x}VO_2$	1.1	20
66	The interaction of nitrogen with titanium studied by soft X-ray absorption spectroscopy: adsorption versus implantation. <i>Surface Science</i> , 1993, 281, 120-126.	0.8	19
67	Electronic structure and band gap of the negative charge-transfer material Sr ₃ Fe ₂ O ₇ . <i>Solid State Communications</i> , 2004, 129, 113-116.	0.9	19
68	Cluster model calculations of the coherent spectral weight transfer in the bandwidth-controlled Ca _{1-x} Sr _x VO ₃ series. <i>Physical Review B</i> , 2006, 74, .	1.1	18
69	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO ₂ Films. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, P9.	2.2	18
70	Core level and valence band spectroscopy of SrRuO ₃ : Electron correlation and covalence effects. <i>Physical Review B</i> , 2012, 86, .	1.1	17
71	Modification of the Interlayer Surface of Layered Copper(II) Hydroxide Acetate with Benzoate Groups: Submicrometer Fiber Generation. <i>Journal of Colloid and Interface Science</i> , 2001, 240, 245-251.	5.0	16
72	Evolution of the spectral function in Mott-Hubbard systems across metal-insulator transitions. <i>Physica B: Condensed Matter</i> , 1993, 186-188, 981-985.	1.3	15

#	ARTICLE	IF	CITATIONS
73	Structural and Chemical Characterization of Fe-Co Alloys Prepared by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, C20.	2.2	15
74	Electronic structure of the two-dimensional negative charge-transfer material Sr_3FeMO_7 (M=Fe, Co). <i>Physical Review B</i> , 2005, 71, .	1.1	15
75	X-ray spectroscopy and electronic structure of MoO_2 . <i>Journal of Alloys and Compounds</i> , 2017, 691, 138-143.	2.8	15
76	Thermal annealing of defects in highly defective NiO nanoparticles studied by X-ray and electron spectroscopies. <i>Chemical Physics Letters</i> , 1997, 266, 184-188.	1.2	14
77	Comparative study of the unoccupied electronic structure of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ and LaMnO_3 using O 1s X-ray absorption spectroscopy. <i>Solid State Communications</i> , 1999, 111, 437-441.	0.9	14
78	Structural and functional characterization of (110)-oriented epitaxial $\text{La}_2\text{Ca}_3\text{MnO}_3$ electrodes and SrTiO_3 tunnel barriers. <i>Journal of Applied Physics</i> , 2007, 101, 093902.	1.1	14
79	Importance of the $V_3d\text{-}O_2p$ hybridization in the Mott-Hubbard material VO_2 . <i>Physical Review B</i> , 2007, 75, .	1.1	14
80	Evolution of the $d\text{-}f$ band across the metal-insulator transition in VO_2 . <i>Solid State Communications</i> , 2005, 135, 189-192.	0.9	13
81	Optical response of metallic and insulating VO_2 calculated with the LDA approach. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 346225.	0.7	13
82	Minimal model needed for the Mott-Hubbard SrVO_3 . <i>Physical Review B</i> , 2009, 79, .	1.1	13
83	Chemical study of passivating chromium oxide films by soft X-ray absorption spectroscopy. <i>Analyst</i> , 1994, 119, 609.	1.7	12
84	Resonant Photoemission and X-ray Absorption Study of the Electronic Structure of the $\text{TiO}_2/\text{Al}_2\text{O}_3$ Interface. <i>Langmuir</i> , 2001, 17, 7339-7343.	1.6	12
85	Evidence of chemical bonding in the electronic structure of a metastable $\text{Fe}_{80}\text{Cu}_{20}$ alloy. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 5723-5729.	0.7	11
86	Improvement in the electrochemical performance of $\text{Li}_x\text{V}_2\text{O}_5$ induced by Tb doping. <i>Journal of Power Sources</i> , 2002, 112, 290-293.	4.0	11
87	Ion irradiation effects on hardness and elastic modulus in AZ 1350 J_μm^2 photoresist film. <i>Thin Solid Films</i> , 2002, 411, 256-261.	0.8	11
88	Photoemission study of the solid-state interdiffusion in hybrid $\text{Fe}/\text{ZnSe}/\text{GaAs}(001)$ heterostructures. <i>Journal of Applied Physics</i> , 2001, 90, 5973-5978.	1.1	10
89	Electronic structure of $\text{Sr}_2\text{FeMoO}_6$. <i>Physica B: Condensed Matter</i> , 2002, 320, 43-46.	1.3	10
90	Cluster model calculations of the filling-controlled YVO_3 and CaVO_3 compounds. <i>Physical Review B</i> , 2007, 76, .	1.1	10

#	ARTICLE	IF	CITATIONS
91	Interface effects in the electronic structure of TiO ₂ deposited on MgO, Al ₂ O ₃ and SiO ₂ substrates. Surface Science, 2011, 605, 539-544.	0.8	10
92	Electrical Resistivity in Non-stoichiometric MoO ₂ . Brazilian Journal of Physics, 2015, 45, 234-237.	0.7	10
93	The bremsstrahlung isochromat spectra of d0 transition-metal oxides. Solid State Communications, 1994, 91, 551-554.	0.9	9
94	Electronic structure of the band-filling-controlled CaVO ₃ and LaVO ₃ compounds. Journal of Physics Condensed Matter, 2010, 22, 095601.	0.7	9
95	Superconductivity and magnetism in the K _x MoO ₂ . Journal of Applied Physics, 2012, 112, 073923.	1.1	9
96	Magnetic properties, x-ray absorption spectroscopy and electronic structure of GdCrTiO ₅ . Journal of Alloys and Compounds, 2017, 724, 67-73.	2.8	9
97	Ion-induced desorption of oxygen from solid surfaces. Journal of Nuclear Materials, 1987, 144, 287-289.	1.3	8
98	Line asymmetry in the x-ray photoelectron spectra of Ar and K implanted in Al. Physical Review B, 1989, 39, 7641-7644.	1.1	8
99	Nanopatterning on highly oriented pyrolytic graphite surfaces promoted by cobalt oxides. Carbon, 2015, 85, 89-98.	5.4	8
100	Electronic structure and metal-insulator transition in SrTi _{1-x} Ru _x O ₃ . European Physical Journal B, 2002, 25, 203-208.	0.6	7
101	Paramagnetic anisotropy of a natural kaolinite and its modification by chemical reduction. Journal of Magnetism and Magnetic Materials, 2002, 241, 422-429.	1.0	7
102	Enhancement of the electrochemical performance of a Li-intercalated V ₂ O ₅ xerogel doped with Eu. Solid State Ionics, 2003, 160, 61-67.	1.3	7
103	The electronic structure of Ti ₄ O ₇ studied by resonant photoemission. Solid State Communications, 1995, 94, 465-469.	0.9	6
104	Electronic structure of chemically deintercalated LiCo _{0.9} Ga _{0.1} O ₂ . Physical Review B, 2004, 70, .	1.1	6
105	Ce valence in La _{0.47} Ce _{0.20} Ca _{0.33} MnO ₃ . Journal of Alloys and Compounds, 2004, 369, 252-255.	2.8	6
106	O 1s X-ray absorption spectra and band structure calculations of Ca _{1-x} Sr _x RuO ₃ . Journal of Alloys and Compounds, 2004, 377, 25-28.	2.8	6
107	X-ray absorption study of the Fe and Mo valence states in Sr ₂ FeMoO ₆ . Journal of Alloys and Compounds, 2015, 640, 511-516.	2.8	6
108	Photoemission and X-Ray Absorption Study of La _{1-x} Sr _x MnO ₃ . Japanese Journal of Applied Physics, 1993, 32, 258.	0.8	5

#	ARTICLE	IF	CITATIONS
109	Electronic structure and metal-insulator transitions in Ti and V oxides. <i>Physica B: Condensed Matter</i> , 1993, 186-188, 1074-1076.	1.3	4
110	Line shape variations of Ag auger shake-up satellites outside the resonance regime. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 661-664.	0.8	4
111	Evolution of the electronic structure of metastable Fe _{1-x} Cu alloys produced by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2002, 346, 24-28.	2.8	4
112	Electronic structure of the negative charge-transfer material Sr ₃ FeMO ₇ (M=Fe, Co, Ni). <i>Physica B: Condensed Matter</i> , 2004, 354, 7-10.	1.3	4
113	Photoemission spectra and band structure calculations of Ca _{1-x} Sr _x RuO ₃ . <i>Physica B: Condensed Matter</i> , 2004, 354, 39-42.	1.3	4
114	Electronic Structure of Metastable Fe _{1-x} Co _x Alloys Produced by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, C85.	2.2	3
115	Local impurity-phase generation in laser irradiated Li _x Co _{0.9} Ga _{0.1} O ₂ . <i>Chemical Physics Letters</i> , 2004, 397, 520-526.	1.2	3
116	Bulk-sensitive Mo 4d electronic structure of Sr ₂ FeMoO ₆ probed by high-energy Mo L ₃ resonant photoemission. <i>Europhysics Letters</i> , 2017, 118, 37002.	0.7	3
117	Many-body effects and non-local charge fluctuations in the double perovskite Sr ₂ FeMoO ₆ . <i>RSC Advances</i> , 2018, 8, 3928-3933.	1.7	3
118	Ultra-thin CoO films grown on different oxide substrates: Size and support effects and chemical stability. <i>Journal of Alloys and Compounds</i> , 2018, 758, 5-13.	2.8	3
119	Plasmon production in the X-ray photoelectron spectra of Ar and K implanted in Al and Si. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 1929-1932.	0.7	2
120	3p ⁺ 3d resonant photoemission spectroscopy of a TiO ₂ sub-monolayer grown on Al ₂ O ₃ . <i>Surface Science</i> , 2004, 566-568, 515-519.	0.8	2
121	Mn 3 <i>d</i> bands and O hybridization of hexagonal and orthorhombic YMnO ₃ thin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 295501.	0.7	2
122	Ion-induced desorption of loosely bound oxygen adsorbed on solid surfaces. <i>Journal of Nuclear Materials</i> , 1990, 175, 1-4.	1.3	1
123	Linearly polarized CuK-edge absorption spectroscopy of CuGeO ₃ : Orbital population, band dispersion, and exchange interactions. <i>Physical Review B</i> , 1999, 59, 12450-12456.	1.1	1
124	Evolution of the electronic structure across the filling-control and bandwidth-control metal-insulator transitions in pyrochlore-type Ru oxides. <i>Physical Review B</i> , 2006, 73, .	1.1	1
125	Similarities in the screening effects of the core level and valence band spectra of V O ₂ . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 375602.	0.7	1
126	Spectroscopy and electronic structure of Sr ₂ YRuO ₆ and Sr ₂ YRu _{0.75} Ir _{0.25} O ₆ . <i>Physical Review B</i> , 2016, 94, .	1.1	1

#	ARTICLE	IF	CITATIONS
127	Oxidation of Fe Ions and Doping States in Chemically Deintercalated $\text{LiCr}_{0.03}\text{Fe}_{0.97}\text{PO}_4$. ECS Electrochemistry Letters, 2012, 2, A14-A16.	1.9	0
128	SXS and XPS study of the adsorption and desorption of Te on GaAs (100). Brazilian Journal of Physics, 1999, 29, 790-792.	0.7	0