

Miguel Abbate

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

126
papers

6,070
citations

39
h-index

76
g-index

128
ext. papers

6,377
ext. citations

3
avg. IF

4.78
L-index

#	Paper	IF	Citations
126	Many-body effects and non-local charge fluctuations in the double perovskite Sr ₂ FeMoO ₆ . <i>RSC Advances</i> , 2018 , 8, 3928-3933	3.7	3
125	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	5.7	3
124	Mn 3d bands and Y-O hybridization of hexagonal and orthorhombic YMnO thin films. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 295501	1.8	2
123	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	1.6	1
122	Magnetic properties, x-ray absorption spectroscopy and electronic structure of GdCrTiO ₅ . <i>Journal of Alloys and Compounds</i> , 2017 , 724, 67-73	5.7	8
121	X-ray spectroscopy and electronic structure of MoO ₂ . <i>Journal of Alloys and Compounds</i> , 2017 , 691, 138-143	4.7	11
120	Compensation temperatures and exchange bias in La _{1.5} Ca _{0.5} CoIrO ₆ . <i>Physical Review B</i> , 2016 , 93,	3.3	26
119	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,	3.3	1
118	Electrical Resistivity in Non-stoichiometric MoO ₂ . <i>Brazilian Journal of Physics</i> , 2015 , 45, 234-237	1.2	7
117	X-ray absorption study of the Fe and Mo valence states in Sr ₂ FeMoO ₆ . <i>Journal of Alloys and Compounds</i> , 2015 , 640, 511-516	5.7	4
116	Nanopatterning on highly oriented pyrolytic graphite surfaces promoted by cobalt oxides. <i>Carbon</i> , 2015 , 85, 89-98	10.4	7
115	The growth of cobalt oxides on HOPG and SiO ₂ surfaces: A comparative study. <i>Surface Science</i> , 2014 , 624, 145-153	1.8	18
114	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	1.8	23
113	Core level and valence band spectroscopy of SrRuO ₃ : Electron correlation and covalence effects. <i>Physical Review B</i> , 2012 , 86,	3.3	15
112	Surface contributions to the XPS spectra of nanostructured NiO deposited on HOPG. <i>Surface Science</i> , 2012 , 606, 1426-1430	1.8	61
111	Superconductivity and magnetism in the K _x MoO ₂ . <i>Journal of Applied Physics</i> , 2012 , 112, 073923	2.5	8
110	Investigation of surface and non-local screening effects in the Ni 2p core level photoemission spectra of NiO. <i>Chemical Physics Letters</i> , 2011 , 501, 437-441	2.5	58

109	Interface effects in the electronic structure of TiO ₂ deposited on MgO, Al ₂ O ₃ and SiO ₂ substrates. <i>Surface Science</i> , 2011 , 605, 539-544	1.8	10
108	Anisotropy of Magnetization and Nanocrystalline Texture in Electrodeposited CeO ₂ Films. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, P9		15
107	Electronic structure of the band-filling-controlled CaVO ₃ and LaVO ₃ compounds. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 095601	1.8	5
106	Similarities in the screening effects of the core level and valence band spectra of VO ₂ . <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 375602	1.8	1
105	Minimal model needed for the Mott-Hubbard SrVO ₃ compound. <i>Physical Review B</i> , 2009 , 79,	3.3	12
104	Optical conductivity and x-ray absorption spectra of the Mott-Hubbard compounds RVO ₃ (R=Sr, Ca, La, and Y). <i>Physical Review B</i> , 2009 , 80,	3.3	18
103	Dilute-defect magnetism: Origin of magnetism in nanocrystalline CeO ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	121
102	Evolution of the spectral weight in the Mott-Hubbard series SrVO ₃ -CaVO ₃ -LaVO ₃ -YVO ₃ . <i>Physical Review B</i> , 2008 , 78,	3.3	39
101	Interface effects in the Ni2p x-ray photoelectron spectra of NiO thin films grown on oxide substrates. <i>Physical Review B</i> , 2008 , 77,	3.3	57
100	Cluster model and band structure calculations of V ₂ O ₅ : Reduced V ⁵⁺ symmetry and many-body effects. <i>Physical Review B</i> , 2008 , 77,	3.3	17
99	Surface effects in the Ni 2p x-ray photoemission spectra of NiO. <i>Physical Review B</i> , 2007 , 75,	3.3	116
98	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	1.7	17
97	Cluster model calculations of the filling-controlled YVO ₃ and CaVO ₃ compounds. <i>Physical Review B</i> , 2007 , 76,	3.3	9
96	Structural and functional characterization of (110)-oriented epitaxial La _{2/3} Ca _{1/3} MnO ₃ electrodes and SrTiO ₃ tunnel barriers. <i>Journal of Applied Physics</i> , 2007 , 101, 093902	2.5	13
95	Importance of the V3d _{xy} 2p hybridization in the Mott-Hubbard material V ₂ O ₃ . <i>Physical Review B</i> , 2007 , 75,	3.3	12
94	Optical response of metallic and insulating VO ₂ calculated with the LDA approach. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 346225	1.8	8
93	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,	3.3	1
92	Cluster model calculations with nonlocal screening channels of metallic and insulating VO ₂ . <i>Physical Review B</i> , 2006 , 74,	3.3	22

91	Cluster model calculations of the coherent spectral weight transfer in the bandwidth-controlled $\text{Ca}_{1-x}\text{Sr}_x\text{VO}_3$ series. <i>Physical Review B</i> , 2006 , 74,	3-3	17
90	Splitting of Ni3d states at the surface of NiO nanostructures. <i>Physical Review B</i> , 2006 , 74,	3-3	32
89	Ti-, Al-, and Cu-Doping Induced Gap States in LiFePO_4 . <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A288		59
88	Antiferromagnetic-to-ferromagnetic transition induced by diluted Co in $\text{SrFe}_{1-x}\text{Co}_x\text{O}_3$: Magnetic circular x-ray dichroism study. <i>Physical Review B</i> , 2005 , 71,	3-3	22
87	Synthesis, crystal chemistry and physical properties of the Ruddlesden-Popper phases $\text{Sr}_3\text{Fe}_2\text{Ni}_x\text{O}_{7+1.0}$. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1559-1568	3-3	24
86	Evolution of the d band across the metal-insulator transition in VO_2 . <i>Solid State Communications</i> , 2005 , 135, 189-192	1.6	10
85	The negative and positive structural effects of Ga doping in the electrochemical performance of LiCoO_2 . <i>Electrochimica Acta</i> , 2005 , 51, 7-13	6.7	23
84	Electronic structure of the two-dimensional negative charge-transfer material Sr_3FeMO_7 (M=Fe, Co). <i>Physical Review B</i> , 2005 , 71,	3-3	13
83	Electronic structure of chemically deintercalated $\text{LiCo}_{0.9}\text{Ga}_{0.1}\text{O}_2$. <i>Physical Review B</i> , 2004 , 70,	3-3	6
82	Electronic structure and band gap of the negative charge-transfer material $\text{Sr}_3\text{Fe}_2\text{O}_7$. <i>Solid State Communications</i> , 2004 , 129, 113-116	1.6	18
81	Electronic structure of the negative charge-transfer material Sr_3FeMO_7 (M=Fe, Co, Ni). <i>Physica B: Condensed Matter</i> , 2004 , 354, 7-10	2.8	4
80	3p- δ d resonant photoemission spectroscopy of a TiO_2 sub-monolayer grown on Al_2O_3 . <i>Surface Science</i> , 2004 , 566-568, 515-519	1.8	2
79	Photoemission spectra and band structure calculations of $\text{Ca}_{1-x}\text{Sr}_x\text{RuO}_3$. <i>Physica B: Condensed Matter</i> , 2004 , 354, 39-42	2.8	3
78	Local impurity-phase generation in laser irradiated $\text{LiCo}_{0.9}\text{Ga}_{0.1}\text{O}_2$. <i>Chemical Physics Letters</i> , 2004 , 397, 520-526	2.5	3
77	Ce valence in $\text{La}_{0.47}\text{Ce}_{0.20}\text{Ca}_{0.33}\text{MnO}_3$. <i>Journal of Alloys and Compounds</i> , 2004 , 369, 252-255	5-7	6
76	O 1s X-ray absorption spectra and band structure calculations of $\text{Ca}_{1-x}\text{Sr}_x\text{RuO}_3$. <i>Journal of Alloys and Compounds</i> , 2004 , 377, 25-28	5-7	4
75	Enhancement of the electrochemical performance of a Li-intercalated V_2O_5 xerogel doped with Eu. <i>Solid State Ionics</i> , 2003 , 160, 61-67	3-3	5
74	Preparation and characterization of TiO_2 and V_2O_5 nanoparticles produced by ball-milling. <i>Journal of Alloys and Compounds</i> , 2003 , 352, 16-20	5-7	47

73	Electronic Structure of Metastable Fe _{1-x} Co _x Alloys Produced by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, C85		2
72	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	1.5	26
71	Paramagnetic anisotropy of a natural kaolinite and its modification by chemical reduction. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 241, 422-429	2.8	6
70	Electronic structure of Sr ₂ FeMoO ₆ . <i>Physica B: Condensed Matter</i> , 2002 , 320, 43-46	2.8	9
69	XPS and XAS spectra of CaMnO ₃ and LaMnO ₃ . <i>Physica B: Condensed Matter</i> , 2002 , 320, 51-55	2.8	17
68	Improvement in the electrochemical performance of Li _x V ₂ O ₅ induced by Tb doping. <i>Journal of Power Sources</i> , 2002 , 112, 290-293	8.9	9
67	Ion irradiation effects on hardness and elastic modulus in AZ 1350J photoresist film. <i>Thin Solid Films</i> , 2002 , 411, 256-261	2.2	10
66	Mn-2p XPS spectra of differently hole-doped Mn perovskites. <i>Solid State Communications</i> , 2002 , 123, 81-85	1.6	19
65	X-ray absorption of the negative charge-transfer material SrFe _{1-x} Co _x O ₃ . <i>Physical Review B</i> , 2002 , 65,	3.3	104
64	Electronic structure and metal-insulator transition in LaNiO ₃ . <i>Physical Review B</i> , 2002 , 65,	3.3	75
63	Electronic structure and metal-insulator transition in SrTi _{1-x} Ru _x O ₃ . <i>European Physical Journal B</i> , 2002 , 25, 203-208	1.2	5
62	Evolution of the electronic structure of metastable Fe _{1-x} Cu _x alloys produced by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2002 , 346, 24-28	5.7	4
61	XANES and EXAFS of chemically deintercalated LiCo _{0.5} Ni _{0.5} O ₂ . <i>Solid State Ionics</i> , 2001 , 139, 83-88	3.3	22
60	Formation of Li ₂ O in a chemically Li-intercalated V ₂ O ₅ xerogel. <i>Solid State Ionics</i> , 2001 , 140, 241-248	3.3	27
59	Fe and Mo Valences in Sr ₂ FeMoO ₆ . <i>Solid State Communications</i> , 2001 , 120, 161-164	1.6	39
58	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	9.3	12
57	Polyaniline/lignin blends: thermal analysis and XPS. <i>European Polymer Journal</i> , 2001 , 37, 2217-2223	5.2	68
56	Evidence of chemical bonding in the electronic structure of a metastable Fe ₈₀ Cu ₂₀ alloy. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 5723-5729	1.8	7

55	Photoemission study of the solid-state interdiffusion in hybrid Fe/ZnSe/GaAs(001) heterostructures. <i>Journal of Applied Physics</i> , 2001 , 90, 5973-5978	2.5	10
54	Structural and Chemical Characterization of Fe-Co Alloys Prepared by Electrodeposition. <i>Electrochemical and Solid-State Letters</i> , 2001 , 4, C20		14
53	Resonant Photoemission and X-ray Absorption Study of the Electronic Structure of the TiO ₂ /Al ₂ O ₃ Interface. <i>Langmuir</i> , 2001 , 17, 7339-7343	4	11
52	Electronic structure of granular Fe/Al ₂ O ₃ thin films prepared by co-evaporation. <i>Solid State Communications</i> , 2000 , 116, 457-460	1.6	19
51	Electronic Structure of Transition Metal Ions in Deintercalated and Reintercalated LiCo[sub 0.5]Ni[sub 0.5]O[sub 2]. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 1651	3.9	54
50	Electronic structure of Y _{1-x} CaxVO ₃ studied by high-energy spectroscopies. <i>Physical Review B</i> , 1999 , 59, 7422-7432	3.3	41
49	Linearly polarized Cu K-edge absorption spectroscopy of CuGeO ₃ : Orbital population, band dispersion, and exchange interactions. <i>Physical Review B</i> , 1999 , 59, 12450-12456	3.3	1
48	Comparative study of the unoccupied electronic structure of La _{1-x} CaxMnO ₃ and LaMnO ₃ + using O 1s X-ray absorption spectroscopy. <i>Solid State Communications</i> , 1999 , 111, 437-441	1.6	13
47	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	1.7	4
46	The soft X-ray spectroscopy beamline at the LNLS: technical description and commissioning results. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 964-972	2.4	68
45	Electronic structure of the transition metal ions in LiCoO ₂ , LiNiO ₂ and LiCo _{0.5} Ni _{0.5} O ₂ . <i>Chemical Physics Letters</i> , 1999 , 309, 14-18	2.5	83
44	Oxidation State and Size Effects in CoO Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6676-6679		40
43	The LNLS soft X-ray spectroscopy beamline. <i>Journal of Synchrotron Radiation</i> , 1998 , 5, 539-41	2.4	25
42	Electronic structure of CaMnO _x with 2.66. <i>Physical Review B</i> , 1998 , 58, 3755-3761	3.3	41
41	Electronic structure of SrRuO ₃ . <i>Physical Review B</i> , 1997 , 56, 6380-6383	3.3	93
40	Electronic structure and magnetic states in La _{1-x} SrxCoO ₃ studied by photoemission and x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1997 , 56, 1290-1295	3.3	141
39	Electronic structure and temperature-induced paramagnetism in LaCoO ₃ . <i>Physical Review B</i> , 1997 , 55, 4257-4266	3.3	298
38	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	1.6	33

37	The electronic structure of CaMnOx with 2.66 Å. <i>Solid State Communications</i> , 1997 , 103, 9-13	1.6	18
36	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	2.5	14
35	The electronic structure of ZrO2: Band structure calculations compared to electron and x-ray spectra. <i>Solid State Communications</i> , 1995 , 93, 659-665	1.6	32
34	The electronic structure of Ti4O7 studied by resonant photoemission. <i>Solid State Communications</i> , 1995 , 94, 465-469	1.6	5
33	Electronic structure of La1-xSrxMnO3 studied by photoemission and x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1995 , 51, 13942-13951	3.3	510
32	Changes in the electronic structure of Ti4O7 across the semiconductor-semiconductor-metal transitions. <i>Physical Review B</i> , 1995 , 51, 10150-10153	3.3	35
31	Possibility for an intermediate-spin ground state in the charge-transfer material SrCoO3. <i>Physical Review B</i> , 1995 , 51, 11501-11506	3.3	305
30	Band-structure and cluster-model calculations of LaCoO3 in the low-spin phase. <i>Physical Review B</i> , 1994 , 49, 7210-7218	3.3	95
29	The bremsstrahlung isochromat spectra of d0 transition-metal oxides. <i>Solid State Communications</i> , 1994 , 91, 551-554	1.6	9
28	Resonant photoemission at the 2p thresholds of Fe, Co, and Ni metal. <i>European Physical Journal B</i> , 1994 , 95, 9-12	1.2	25
27	Chemical study of passivating chromium oxide films by soft X-ray absorption spectroscopy. <i>Analyst, The</i> , 1994 , 119, 609	5	10
26	Electronic structure and spin-state transition of LaCoO3. <i>Physical Review B</i> , 1993 , 47, 16124-16130	3.3	294
25	Chemical changes induced by sputtering in TiO2 and some selected titanates as observed by X-ray absorption spectroscopy. <i>Surface Science</i> , 1993 , 290, 427-435	1.8	63
24	The interaction of nitrogen with titanium studied by soft X-ray absorption spectroscopy: adsorption versus implantation. <i>Surface Science</i> , 1993 , 281, 120-126	1.8	17
23	Oxygen 1s x-ray absorption of tetravalent titanium oxides: A comparison with single-particle calculations. <i>Physical Review B</i> , 1993 , 48, 2074-2080	3.3	243
22	Thermal oxidation of TiN studied by means of soft x-ray absorption spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 47-51	2.9	52
21	The electronic structure of mesoscopic NiO particles. <i>Chemical Physics Letters</i> , 1993 , 208, 460-464	2.5	48
20	Soft X-ray absorption spectroscopy of vanadium oxides. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1993 , 62, 185-195	1.7	102

19	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	1.7	30
18	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. <i>Solid State Communications</i> , 1993 , 87, 699-703	1.6	64
17	Evolution of the spectral function in Mott-Hubbard systems across metal-insulator transitions. <i>Physica B: Condensed Matter</i> , 1993 , 186-188, 981-985	2.8	12
16	Electronic structure and metal-insulator transitions in Ti and V oxides. <i>Physica B: Condensed Matter</i> , 1993 , 186-188, 1074-1076	2.8	4
15	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	1.5	34
14	Oxygen 1s and cobalt 2p X-ray absorption of cobalt oxides. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 2277-2288	1.8	118
13	Photoemission and X-Ray Absorption Study of La _{1-x} Sr _x MnO ₃ . <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 258	1.4	5
12	Controlled-valence properties of La _{1-x} Sr _x FeO ₃ and La _{1-x} Sr _x MnO ₃ studied by soft-x-ray absorption spectroscopy. <i>Physical Review B</i> , 1992 , 46, 4511-4519	3.3	564
11	Doping-induced changes in the electronic structure of La _x Sr _{1-x} TiO ₃ : Limitation of the one-electron rigid-band model and the Hubbard model. <i>Physical Review B</i> , 1992 , 46, 9841-9844	3.3	158
10	2p X-ray absorption of titanium in minerals. <i>Physics and Chemistry of Minerals</i> , 1992 , 19, 140-147	1.6	128
9	Probing depth of soft x-ray absorption spectroscopy measured in total-electron-yield mode. <i>Surface and Interface Analysis</i> , 1992 , 18, 65-69	1.5	157
8	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	3.3	135
7	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	3.3	152
6	Fine structure of the Ca 2p x-ray-absorption edge for bulk compounds, surfaces, and interfaces. <i>Physical Review B</i> , 1991 , 43, 6899-6907	3.3	82
5	Ion-induced desorption of loosely bound oxygen adsorbed on solid surfaces. <i>Journal of Nuclear Materials</i> , 1990 , 175, 1-4	3.3	1
4	Polarization dependence of the Cu 2p absorption spectra in (Bi _{0.84} Pb _{0.16}) ₂ Sr ₂ CaCu ₂ O ₈ . <i>Physical Review B</i> , 1990 , 42, 7914-7917	3.3	34
3	Line asymmetry in the x-ray photoelectron spectra of Ar and K implanted in Al. <i>Physical Review B</i> , 1989 , 39, 7641-7644	3.3	8
2	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	1.8	2

- 1 Ion-induced desorption of oxygen from solid surfaces. *Journal of Nuclear Materials*, **1987**, 144, 287-289 3,3 8