Alberto Martinelli

List of Publications by Year
in descending order

126 papers	1,897 citations	236612 25 h-index	315357 38 g-index
129 all docs	129 docs citations	129 times ranked	2026 citing authors

#	Article	IF	Citations
1	From antiferromagnetism to superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Fe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2010, 81, .	1.1	118
2	Cationic distribution and spin canting in CoFe₂O₄nanoparticles. Journal of Physics Condensed Matter, 2011, 23, 426004.	0.7	114
3	Upper critical field and fluctuation conductivity in the critical regime of doped SmFeAsO. Physical Review B, 2009, 79, .	1.1	68
4	Isoelectronic Ru substitution at the iron site in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SmFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml Physical Review B, 2010, 81, .	1.1	63
5	Synthesis, crystal structure, microstructure, transport and magnetic properties of SmFeAsO and SmFeAs(O_{0.93}F_{0.07}). Superconductor Science and Technology, 2008, 21, 095017.	1.8	60
6	Transport and superconducting properties of Fe-based superconductors: a comparison between SmFeAsO_{1â^'x}F_xand Fe_{1+y}Te_{1â^'x}Se_x. Superconductor Science and Technology, 2010, 23, 054001.	1.8	51
7	A new approach for improving global critical current density in Fe(Se_{0.5}Te_{0.5}) polycrystalline materials. Superconductor Science and Technology, 2012, 25, 115018.	1.8	48
8	Tuning of the superconducting properties of FeSe_{0.5}Te_{0.5}thin films through the substrate effect. Superconductor Science and Technology, 2012, 25, 084022.	1.8	48
9	Thermal properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SmFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml a probe of the interplay between electrons and phonons. Physical Review B, 2008, 78, .	1.1	46
10	The phase diagrams of iron-based superconductors: Theory and experiments. Comptes Rendus Physique, 2016, 17, 5-35.	0.3	44
11	Evidence for electromagnetic granularity in polycrystalline Sm1111 iron-pnictides with enhanced phase purity. Superconductor Science and Technology, 2011, 24, 045010.	1.8	41
12	Magnetotransport in La(Fe,Ru)AsO as a probe of band structure and mobility. Physical Review B, 2011, 84, .	1.1	39
13	Retention of the Tetragonal to Orthorhombic Structural Transition in F Substituted SmFeAsO: A New Phase Diagram for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>SmFeAs</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi) Tj ETQq1 1 0.784314 rgBT	2.9	38
14	Correlated Trends of Coexisting Magnetism and Superconductivity in Optimally Electron-Doped Oxypnictides. Physical Review Letters, 2011, 107, 227003.	2.9	36
15	Cyan Emission in Two-Dimensional Colloidal Cs₂CdCl₄:Sb³⁺Ruddlesdenâ€“Popper Phase Nanoplatelets. ACS Nano, 2021, 15, 17729-17737.	7.3	34
16	Transport and infrared properties of SmFeAs(O_{1â^'x}F_x): from SDW to superconducting ordering. Superconductor Science and Technology, 2009, 22, 034004.	1.8	33
17	Synthesis and characterization of BaSn(OH)₆ and BaSnO₃ acicular particles. Journal of Materials Research, 2003, 18, 560-566.	1.2	30
18	Nanoscopic coexistence of magnetic and superconducting states within the FeAs layers of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CeFeAsO</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml Physical Review B, 2010, 82, .	1.1	30

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19	Genetic evolution of nanocrystalline Fe oxide and oxyhydroxide assemblages from the Libiola mine (eastern Liguria, Italy): structural and microstructural investigations. European Journal of Mineralogy, 2005, 17, 785-795.	0.4	29
20	Effect of chemical pressure on spin density wave and superconductivity in undoped and 15% F-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn Physical Review B, 2009, 79, .	1.1	28
21	Tetragonal to orthorhombic phase transition in SmFeAsO: A synchrotron powder diffraction investigation. Journal of Alloys and Compounds, 2009, 477, L21-L23.	2.8	28
22	The optical phonon spectrum of SmFeAsO. Europhysics Letters, 2008, 84, 67013.	0.7	27
23	Long- to short-range magnetic order in fluorine-doped CeFeAsO. Physical Review B, 2011, 84, .	1.1	27
24	A Novel Process to Produce Amorphous Nanosized Boron Useful for $hbox{MgB}_{2}$ Synthesis. IEEE Transactions on Applied Superconductivity, 2012, 22, 6200606-6200606.	1.1	26
25	Magnetic properties of spin-diluted iron pnictides from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¼</mml:mi></mml:math>SR and NMR in LaFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ru<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	25
26	Different solâ€"gel preparations of iron-doped TiO2 nanoparticles: characterization, photocatalytic activity and cytotoxicity. Journal of Sol-Gel Science and Technology, 2016, 80, 152-159.	1.1	25
27	Growth of ternary oxides in the Gd2O3â€"Fe2O3 system. A diffusion couple study. Solid State Ionics, 2002, 146, 257-271.	1.3	24
28	Effect of Cr substitution on the crystal and magnetic structure of(Pr0.55Ca0.45)MnO3: A neutron powder diffraction investigation. Physical Review B, 2006, 73, .	1.1	22
29	Development of ${hbox{MgB}}_{2}$ Powders and Study of the Properties and Architecture of Ex-Situ PIT Wires. IEEE Transactions on Applied Superconductivity, 2008, 18, 1175-1178.	1.1	22
30	Magnetic characterization of undoped and 15%F-doped LaFeAsO and SmFeAsO compounds. Journal of Magnetism and Magnetic Materials, 2009, 321, 3024-3030.	1.0	22
31	Migration of selected elements of environmental concern from unaltered pyrite-rich mineralizations to Fe-rich alteration crusts. Journal of Geochemical Exploration, 2012, 114, 109-117.	1.5	22
32	Effects of high-energy proton irradiation on the superconducting properties of Fe(Se,Te) thin films. Superconductor Science and Technology, 2018, 31, 054001.	1.8	22
33	The role of Fe deficiency in FeySe0.5Te0.5 samples prepared by a melting process. Physica C: Superconductivity and Its Applications, 2013, 494, 69-73.	0.6	20
34	Microstructural evolution throughout the structural transition in 1111 oxypnictides. Physical Review B, 2012, 85, .	1.1	19
35	Effect of Ru substitution on atomic displacements in the layered SmFe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ru<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>AsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	19
36	Temperature dependent local atomic displacements in Ru substituted SmFe1âˆ'xRuxAsO0.85F0.15superconductors. Superconductor Science and Technology, 2013, 26, 065005.	1.8	19

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37	Theoretical and experimental investigation of magnetotransport in iron chalcogenides. Science and Technology of Advanced Materials, 2012, 13, 054402.	2.8	18
38	Crystal and magnetic structure of Cr- and Ni-substituted (La_{0.50}Ca_{0.50})MnO₃. Journal of Physics Condensed Matter, 2008, 20, 145210.	0.7	17
39	Orthorhombic lattice deformation ofGdSr2RuCu2O8from high-resolution transmission electron microscopy and x-ray powder diffraction analysis. Physical Review B, 2004, 69, .	1.1	16
40	Direct TEM observation of nanometric-sized defects in neutron-irradiated MgB₂bulk and their effect on pinning mechanisms. Superconductor Science and Technology, 2008, 21, 012001.	1.8	16
41	The bulk modulus of SmFeAs(O0.93F0.07). Physica C: Superconductivity and Its Applications, 2009, 469, 782-784.	0.6	16
42	Formation and decomposition of the rutile-type compound FeSbO4. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 70, 123-127.	1.4	15
43	Effect of disorder on the passage from bulk superconductivity to spin glass behaviour in RuSr2GdCu2O8. Superconductor Science and Technology, 2005, 18, 454-460.	1.8	15
44	Pseudogap Analysis of Normal State Transport Behavior of 11 and 1111 Fe-Based Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1751-1760.	0.8	15
45	Structural studies on synthetic and natural Fe-Sb-oxides of MO2 type. Neues Jahrbuch FÃ¼r Mineralogie, Monatshefte, 2003, 2003, 407-420.	0.2	14
46	Neutron powder diffraction investigation of the structural and magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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55	In situhigh-energy synchrotron x-ray diffraction investigation of phase formation and sintering in MgB₂tapes. Superconductor Science and Technology, 2011, 24, 065014.	1.8	10
56	Anisotropic Effect of Proton Irradiation on Pinning Properties of Fe(Se,Te) Thin Films. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	10
57	Decomposition of (Sn2xFe1â^'xSb1â^'x)O4 solid solutions with xâ‰0.50. Materials Research Bulletin, 2003, 38, 1629-1634.	2.7	9
58	Application of the SHS technique in the synthesis of the perovskite-type MgxCyNi3 compound. Materials Research Bulletin, 2004, 39, 647-654.	2.7	9
59	Local structure and magnetic properties of Mn substituted manganites studied by EXAFS and Dc magnetic measurements. Solid State Communications, 2005, 136, 244-249.	0.9	9
60	Vanadiocarpholite, Mn2+V3+Al(Si2O6)(OH)4, a new mineral from the Molinello mine, northern Apennines, Italy. European Journal of Mineralogy, 2005, 17, 501-507.	0.4	9
61	Structural studies on copper and nitrogen doped nanosized anatase. Zeitschrift Fur Kristallographie - Crystalline Materials, 2018, 233, 867-876.	0.4	9
62	Effect of Cu2+ and Ni2+ substitution at the Mn site in (La0.63Ca0.37)MnO3: A neutron powder diffraction investigation. Journal of Solid State Chemistry, 2013, 200, 128-135.	1.4	8
63	Structural properties and phase diagram of the La(Fe_{1â^'x}Ru_x)AsO system. Journal of Physics Condensed Matter, 2013, 25, 395701.	0.7	8
64	Facile synthesis of NIR and Visible luminescent Sm 3+ doped lutetium oxide nanoparticles. Materials Research Bulletin, 2017, 86, 220-227.	2.7	8
65	Structural, microstructural and magnetic properties of (La_{1â^'x}Ca_x)MnO₃nanoparticles. Journal of Physics Condensed Matter, 2013, 25, 176003.	0.7	7
66	Evidence of a miscibility gap in the FeTe_{1â^'x}Se_xpolycrystalline samples prepared with a melting process. Journal of Physics: Conference Series, 2014, 507, 012044.	0.3	7
67	Systematic Study on TiO2 Crystallization via Hydrothermal Synthesis in the Presence of Different Ferrite Nanoparticles as Nucleation Seeds. Journal of Nanoscience and Nanotechnology, 2019, 19, 4994-4999.	0.9	7
68	Intrinsic Ferromagnetic Impurity Phases in SmFeAsO1â^'x F x Detected by Î¼SR. Journal of Superconductivity and Novel Magnetism, 2009, 22, 585-588.	0.8	6
69	Phase separation, orbital ordering and magnetism in (La0.375Ca0.625)MnO3. Journal of Solid State Chemistry, 2016, 239, 99-105.	1.4	6
70	The puzzling structure of Cu₅FeS₄ (bornite) at low temperature. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 405-415.	0.5	6
71	Proton Irradiation Effects on the Superconducting Properties of Fe(Se,Te) Thin Films. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	6
72	Chemical CeO₂-Based Buffer Layers for Fe(Se,Te) Films. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	6

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73	Squawcreekite-rutile solid solution from the Kajlidongri Mine (India). European Journal of Mineralogy, 2003, 15, 427-433.	0.4	5
74	Variations in structural and physical properties of RuSr2GdCu2O8 samples submitted to annealing and deoxygenation procedures. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1047-E1049.	1.0	5
75	Symmetry-mode and spontaneous strain analysis of the structural transitions in Fe_{1+y}Te and REFeAsO compounds. Journal of Physics Condensed Matter, 2013, 25, 125703.	0.7	5
76	DC magnetic susceptibility and neutron powder diffraction analysis of the perovskite-type compounds LaYbO3and LaHoO3. Journal of Physics Condensed Matter, 2013, 25, 426005.	0.7	5
77	Atomic-scale distortions and temperature-dependent large pseudogap in thin films of the parent iron-chalcogenide superconductor Fe_{1+y}Te. Journal of Physics Condensed Matter, 2017, 29, 485002.	0.7	5
78	The huge effect of Mn substitution on the structural and magnetic properties of LaFeAsO: the La(Fe,Mn)AsO system. Journal of Physics Condensed Matter, 2019, 31, 064001.	0.7	5
79	Structural investigation of the Sm(Fe_{1â^'x}Ru<sub> x) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 T Superconductor Science and Technology, 2019, 32, 015014.	1.8	5
80	Pressure-induced antiferromagnetic dome in the heavy-fermion <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>12</mml:mn></mml: system. Physical Review B, 2020, 101, .	1.1	5
81	Local structure characterization of superconducting MgCNi3 prepared by SHS technique. Physica C: Superconductivity and Its Applications, 2007, 454, 77-81.	0.6	4
82	Neutron powder diffraction analysis of (Tm0.50Ca0.50)MnO3 and (Lu0.50Ca0.50)MnO3. Journal of Solid State Chemistry, 2012, 196, 314-319.	1.4	4
83	⁷⁵As NQR signature of the isoelectronic nature of ruthenium for iron substitution in LaFeRuAsO. Physica Status Solidi (B): Basic Research, 2014, 251, 974-979.	0.7	4
84	Effect of chemical pressure on the local structure of La_{1â^'x}Sm_xFeAsO system. Superconductor Science and Technology, 2015, 28, 025007.	1.8	4
85	The local structure and magnetic correlations in La(Fe1-Mn)AsO system. Journal of Physics and Chemistry of Solids, 2019, 134, 319-323.	1.9	4
86	Decomposition of (Ti2xFe1â^'xSb1â^'x)O4 solid solutions below 1673 K. Materials Research Bulletin, 2002, 37, 1469-1474.	2.7	3
87	Cavoite, CaV3O7, a new mineral from the Gambatesa mine, northern Apennines, Italy. European Journal of Mineralogy, 2003, 15, 181-184.	0.4	3
88	Solid state miscibility in the pseudo-binary TiO2â€"(FeSb)O4 system at 1373 K. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.4	3
89	The crystal structure of (Ho0.50Ca0.50)MnO3 and its evolution with Cr doping: A Rietveld refinement investigation. Powder Diffraction, 2005, 20, 22-26.	0.4	3
90	Solid state solubility between SnO2 and (FeSb)O4at high temperature. Zeitschrift Fur Kristallographie - Crystalline Materials, 2006, 221, .	0.4	3

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91	Evolution of the structure, microstructure and physical properties of RuSr2GdCu2O8 as a function of the thermal treatment. Zeitschrift FÃ¼r Kristallographie, 2007, 222, 459-465.	1.1	3
92	Small angle neutron scattering study of magnetic clustering in (Pr0.55Ca0.45)(Mn1âˆ'yCry)O3 manganites. Journal of Alloys and Compounds, 2012, 542, 63-67.	2.8	3
93	MartinellietÂal.Reply:. Physical Review Letters, 2013, 110, 209702.	2.9	3
94	Study of the electronic and magnetic properties as a function of isoelectronic substitution in SmFe_{1âˆ'x}Ru_xAsO_{0.85}F_{0.15}. Journal of Physics Condensed Matter, 2014, 26, 065701.	0.7	3
95	Pair distribution function analysis of La(Fe 1âˆ'x Ru x)AsO compounds. Journal of Solid State Chemistry, 2014, 220, 37-44.	1.4	3
96	Fast recovery of the pristine magnetic and structural phases in superconducting LaFeAsO0.89F0.11 by Mn/Fe substitution. Journal of Physics Condensed Matter, 2019, 31, 174002.	0.7	3
97	Structural strain and competition between charge density wave and superconductivity in <mml:math		

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109	In situ x-ray and neutron diffraction investigation of Bi-2212 in multifilamentary wires during thermal treatment. Physical Review Materials, 2018, 2, .	0.9	2
110	Deep insights into the local structure of amorphous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>2</mml:mn></mml:r mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math> thin films by x-ray pair distribution function analysis. Physical Review Materials, 2021, 5, .	0.9	2
111	(La,Ca)(Mn,M)O3 (M=Ni, Cr) compounds investigated by means of XRPD and DC magnetic measurements. Journal of the European Ceramic Society, 2005, 25, 3037-3040.	2.8	1
112	Neutron powder diffraction investigation on the crystal and magnetic structure of (Ho0.50+xCa0.50â^'x)(Mn1â^'xCrx)O3. Journal of Physics Condensed Matter, 2011, 23, 416005.	0.7	1
113	Crystallochemistry of Fe-Based Superconductors: Interplay Between Chemical, Structural and Physical Properties in the Fe(Se,Te) and 1111-Type Systems. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1103-1106.	0.8	1
114	New insights into the magnetic properties of LaErO3, (La0.5Er0.5)2O3and (La0.5Dy0.5)2O3oxides. Journal of Physics Condensed Matter, 2016, 28, 066003.	0.7	1
115	Comment on â€œLocal lattice distortions vs. structural phase transition in NdFeAsO1-xFxâ€•reported in [Physica C 527 (2016) 55]. Physica C: Superconductivity and Its Applications, 2017, 532, 50-51.	0.6	1
116	Suppression of ferromagnetic order by Ag-doping: a neutron scattering investigation on Ce2(Pd1â^'x Ag) Tj ETQq0 0 0 rgBT /Overlock 10	0.7	1
117	Title is missing!. , 2001, 66, 59-62.		0
118	Effect of Cr doping on the structure of (Pr0.55Ca0.45)(Mn1â^'yCry)O3: A Rietveld refinement study. Powder Diffraction, 2004, 19, 137-140.	0.4	0
119	Structure and magnetic properties of (Pr0.55Ca0.45)(Mn1â^'yCry)O3 (y=0.00, 0.03, 0.06). Journal of the European Ceramic Society, 2005, 25, 3041-3043.	2.8	0
120	Local Order and Structure in Mn-Substituted Manganites Studied by EXAFS. Journal of Superconductivity and Novel Magnetism, 2005, 18, 643-647.	0.5	0
121	Local Structure and Dynamic Properties of Mn Substituted Manganites Studied by EXAFS and Anelastic Spectroscopy. Advances in Science and Technology, 2006, 52, 110.	0.2	0
122	Effect of Cr Substitution on the Crystal and Magnetic Structure of (Pr_{0.55}Ca_{0.45})MnO₃. Advances in Science and Technology, 2006, 52, 93-97.	0.2	0
123	Effect Of Nanometric Grain Size On The Magnetic Properties Of La[sub 0.63]Ca[sub 0.37]MnO[sub 3] And La[sub 0.25]Ca[sub 0.75]MnO[sub 3] Manganites Nanoparticles. AIP Conference Proceedings, 2008, , .	0.3	0
124	Effect of the external pressure at the crossover between magnetism and superconductivity in LnFeAsO1â^'xFx (Ln = La0.7Y0.3, Ce) superconductors. International Journal of Modern Physics B, 2018, 32, 1840018.	1.0	0
125	Coexistence of magnetic phases in La(Mn0.70Ga0.30)O3 under high pressure: A neutron powder diffraction investigation. Journal of Magnetism and Magnetic Materials, 2018, 466, 87-91.	1.0	0
126	Phase relations at 600ÂÂ°C in ytterbium-palladium-indium system. Journal of Alloys and Compounds, 2022, 920, 165882.	2.8	0