Samuele Sanna

List of Publications by Year
in descending order

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Version: 2024-02-01

93 papers	1,404 citations	279798 23 h-index	395702 33 g-index
94 all docs	94 docs citations	94 times ranked	1445 citing authors

#	Article	IF	Citations
1	Nanoscopic Coexistence of Magnetism and Superconductivity inYBa2Cu3O6+xDetected by Muon Spin Rotation. Physical Review Letters, 2004, 93, 207001.	7.8	115
2	Fermi level tuning and double-dome superconductivity in the kagome metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CsV</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Sb</mml:mi><mml:mrow><mml:mn>5</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Sn</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:math>. Physical Review	2.4	74
3	Magnetic superconducting phase boundary 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	3.2	68
4	via muon spin rotation: Unified behavior in 1111-type iron-pnictide superconductors. Physical Review B, 2009, 80, .	3.2	57
5	YBa2Cu3O7 microwave resonators for strong collective coupling with spin ensembles. Applied Physics Letters, 2015, 106, .	3.3	45
6	Magnetic states of lightly hole-doped cuprates in the clean limit as seen via zero-field muon spin spectroscopy. Physical Review B, 2010, 81, .	3.2	44
7	Volume fraction of superconductivity in fluorine-doped optimally doped SmFeAsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:mrow	3.2	41
8	Tuning of competing magnetic and superconducting phase volumes in LaFeAsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.945</mml:mn></mml:mrow></mml:msub></mml:math>F<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.055</mml:mn></mml:mrow></mml:msub></mml:math>by hydrostatic pressure. Physical Review B, 2011, 84, .	3.2	37
9	Correlated Trends of Coexisting Magnetism and Superconductivity in Optimally Electron-Doped Oxypnictides. Physical Review Letters, 2011, 107, 227003.	7.8	36
10	Common effect of chemical and external pressures on the magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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19	Susceptibility investigation of vortex dynamics in nearly optimally doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi></mml:math>FeAsO<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>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>F<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mi>	3.2	26
20	Tracking the Hydrogen Motion in Defective Graphene. Journal of Physical Chemistry C, 2014, 118, 7110-7116.	3.1	26
21	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>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ru<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:	3.2	25
22	Superconducting phase fluctuations in SmFeAsO0.8F0.2from diamagnetism at a low magnetic field aboveTc. Physical Review B, 2011, 84, .	3.2	24
23	Observation of Mixed Valence Ru Components in Zn Doped Y₂Ru₂O₇ Pyrochlores. Journal of Physical Chemistry C, 2016, 120, 11763-11768.	3.1	23
24	Strain tuning of nematicity and superconductivity in single crystals of FeSe. Physical Review B, 2021, 103, .	3.2	23
25	Relaxation Processes and Structural Changes in Li- and Na-Doped Fulleranes for Hydrogen Storage. Journal of Physical Chemistry C, 2012, 116, 16365-16370.	3.1	22
26	Mutual Independence of Critical Temperature and Superfluid Density under Pressure in Optimally Electron-Doped SuperconductingLaFeAsO1â^’xFx. Physical Review Letters, 2015, 114, 247004.	7.8	19
27	The freezing of spin and charge at low temperature in YBa2Cu3O6+x. Solid State Communications, 2003, 126, 85-91.	1.9	18
28	A view from inside iron-based superconductors. Physica Scripta, 2013, 88, 068504.	2.5	17
29	Onset of magnetism in optimally electron-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>L</mml:mi></mml:math>Fe<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>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ru<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	17
30	Synthesis of bulk MgB2 superconductors by pulsed electric current. AICHE Journal, 2006, 52, 2618-2626.	3.6	15
31	Local spin density in the Cr7Ni antiferromagnetic molecular ring and53Cr-NMR. Journal of Physics Condensed Matter, 2012, 24, 406002.	1.8	15
32	Relaxation dynamics in a Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>7</mml:mn></mml:msub></mml:math>nanomagnet. Physical Review B, 2013, 87, .	3.2	15
33	Investigation of Li and H dynamics in Li6C60 and Li6C60H. Carbon, 2016, 96, 276-284.	10.3	15
34	Evidence for impurity-induced frustration in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mi>4</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>	3.2	14
35	Interplay between multipolar spin interactions, Jahn-Teller effect, and electronic correlation in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mtext>eff</mml:mtext> insulator. Physical Review B, 2021, 103, .	3.2	14
36	Experimental evidence of two distinct charge carriers in underdoped cuprate superconductors. Physical Review B, 2008, 77, .	3.2	13

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37	Fast recovery of the stripe magnetic order by Mn/Fe substitution in F-doped LaFeAsO superconductors. Physical Review B, 2017, 95, .	3.2	13
38	Critical chain length and superconductivity emergence in oxygen-equalized pairs ofYBa2Cu3O6.30. Physical Review B, 2000, 61, 15450-15453.	3.2	12
39	Electro-Conducting Properties of Charge-Transfer Salts Based on Cationic and Anionic Platinum Dithiolenes â€" Crystal Structure of [Pt(Me2pipdt)2][Pt(dtcr)2]. European Journal of Inorganic Chemistry, 2005, 2005, 1829-1835.	2.0	12
40	Controlling the Critical Temperature in Mg1â^'x Al x B2. Journal of Superconductivity and Novel Magnetism, 2007, 20, 495-501.	1.8	11
41	Enhancement of low-frequency fluctuations and superconductivity breakdown in Mn-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1</mml:mn> mathvariant="normal">Y</mml:mi><mml:mi>y</mml:mi></mml:msub><mml:msub><mml:mi>FeAsO</mml:mi><mml:mrow><mml:m mathvariant="normal">F</mml:mi><mml:mrow><mml:mn>0.11</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	11
42	A magnetic glassy phase in Fe1+ySexTe1â^'xsingle crystals. Journal of Physics Condensed Matter, 2013, 25, 156004.	1.8	9
43	Slow magnetic fluctuations and superconductivity in fluorine-doped NdFeAsO. Physical Review B, 2015, 91, .	3.2	9
44	Effects of extremely low-frequency magnetotherapy on proliferation of human dermal fibroblasts. Electromagnetic Biology and Medicine, 2016, 35, 343-352.	1.4	9
45	Molecular and Ionic Dynamics in NaxLi6â€"xC60. Journal of Physical Chemistry C, 2017, 121, 6554-6560.	3.1	9
46	Doping Evolution of the Local Electronic and Structural Properties of the Double Perovskite Ba₂Na_{1â€"x}Ca_xOsO₆. Journal of Physical Chemistry C, 2020, 124, 16577-16585.	3.1	9
47	Structural properties and phase diagram of the La(Fe_{1â^'x}Ru_x)AsO system. Journal of Physics Condensed Matter, 2013, 25, 395701.	1.8	8
48	Soft x-ray absorption and high-resolution powder x-ray diffraction study of superconducting Ca La1â^'Ba1.75â^'La0.25+Cu3O system. Journal of Physics and Chemistry of Solids, 2014, 75, 259-264.	4.0	8
49	Evidence of a correlation between magnetic and structural transitions in Y2â^'xZnxRu2O7 pyrochlore compounds. RSC Advances, 2015, 5, 100809-100815.	3.6	8
50	The Underdoped Region of the Phase Diagram of YBa2Cu3O6+ x. Journal of Superconductivity and Novel Magnetism, 2005, 18, 769-772.	0.5	7
51	Competing orders suppressed by disorder around a hidden quantum critical point in high-Tccuprate superconductors. Physical Review B, 2010, 82, .	3.2	7
52	Phase separation at the magneticâ€"superconducting transition in La_{0.7}Y_{0.3}FeAsO_{1â^'x}F_x. Physica Status Solidi (B): Basic Research, 2013, 250, 599-602.	1.5	7
53	Band filling effect on polaron localization in La1â^'x(CaySr1â^'y)xMnO3manganites. Journal of Physics Condensed Matter, 2014, 26, 266004.	1.8	7
54	Competing effects of Mn and Y doping on the low-energy excitations and phase diagram ofLa1â^'yYyFe1â^'xMnxAsO0.89F0.11iron-based superconductors. Physical Review B, 2016, 94, .	3.2	7

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55	Impact of concomitant Y and Mn substitution on superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1</mml:mn> mathvariant="normal">Y</mml:mi><mml:mi>y</mml:mi></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>1</mml:mn> Physical Review B, 2018, 97, .	3.2	7
56	H and Li dynamics in Li 12 C 60 and Li 12 C 60 H y. International Journal of Hydrogen Energy, 2017, 42, 22544-22550.	7.1	7
57	Structure and characterisation of [Pt(Me2pipdt)2][Pt(mnt)2]2 and its unusual magnetic properties associated with a non-regular one-dimensional [Pt(mnt)2] stack. Chemical Physics Letters, 2006, 421, 361-366.	2.6	6
58	Intrinsic Ferromagnetic Impurity Phases in SmFeAsO1âˆ'x F x Detected by Î¼SR. Journal of Superconductivity and Novel Magnetism, 2009, 22, 585-588.	1.8	6
59	Experimental evidence of chemical-pressureâ€"controlled superconductivity in cuprates. Europhysics Letters, 2009, 86, 67007.	2.0	6
60	Tuning the magnetic and structural phase transitions of PrFeAsO via Fe/Ru spin dilution. Physical Review B, 2014, 90, .	3.2	6
61	Crossover between magnetism and superconductivity in LaFeAsO with low H-doping level. Journal of Physics Condensed Matter, 2014, 26, 295701.	1.8	6
62	Spin dynamics in the single-ion magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mi>Er</mml:mi> Physical Review B, 2018, 97, .	3.2	6
63	Evidence for local structural order and spin-lattice coupling in the frustrated pyrochlore<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn> mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 91, .	3.2	5
64	Common effect of chemical and external pressures on the magnetic properties ofRCoPOÂ(R=La,Pr,Nd,Sm). II.. Physical Review B, 2015, 92, .	3.2	5
65	Role of magnetic dopants in the phase diagram of Sm 1111 pnictides: The case of Mn. Physical Review B, 2016, 94, .	3.2	5
66	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>2</mml:mn> system. Physical Review B, 2020, 101, .	3.2	5
67	Magnetic clusters in superconducting lightly doped. Physica B: Condensed Matter, 2006, 374-375, 221-224.	2.7	4
68	⁷⁵As NQR signature of the isoelectronic nature of ruthenium for iron substitution in LaFeRuAsO. Physica Status Solidi (B): Basic Research, 2014, 251, 974-979.	1.5	4
69	Low-temperature anomalies in muon spin relaxation of solid and hollowÎ³âˆ'Fe2O3nanoparticles: A pathway to detect unusual local spin dynamics. Physical Review B, 2020, 102, .	3.2	4
70	Effect of the double doping mechanism on the phase diagram of. Physica B: Condensed Matter, 2009, 404, 706-709.	2.7	3
71	Sensitivity of angle-resolved photoemission to short-range antiferromagnetic correlations. Physical Review B, 2015, 91, .	3.2	3
72	Low-field spin dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>7</mml:mn></mml:r and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>7</mml:mn></mml:r Physical Review B, 2017, 96, .	3.2	3

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73	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.	1.8	3
74	Structural strain and competition between charge density wave and superconductivity in <mml:math		

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91	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.	2.0	0
92	Local disorder and structure relation induced by magnetic exchange interactions in A2(Mo1â^'yMny)2O7 pyrochlores. Journal of Alloys and Compounds, 2021, 865, 158958.	5.5	0
93	Probing spin fluctuations in NaOsO3 by muon spin rotation and NMR spectroscopy. Journal of Physics Condensed Matter, 2021, 33, 335802.	1.8	0