Marco Truccato

List of Publications by Year
in descending order

56 papers	616 citations	567281 15 h-index	752698 20 g-index
56 all docs	56 docs citations	56 times ranked	632 citing authors

#	Article	IF	Citations
1	Multiferroic and magnetoelectric properties of BiFeO 3 -CoFe 2 O 4 -poly(vinylidene-flouride) composite films. European Polymer Journal, 2017, 91, 100-110.	5.4	45
2	Growth, contacting and ageing of superconducting Bi-2212 whiskers. Superconductor Science and Technology, 2002, 15, 1304-1310.	3.5	25
3	Control of the oxygen doping in Bi-2212 whiskers by means of their synthesis process. Superconductor Science and Technology, 2009, 22, 085011.	3.5	23
4	Evidence of ion diffusion at room temperature in microcrystals of the Bi2Sr2CaCu2O8+Î´ superconductor. Applied Physics Letters, 2005, 86, 213116.	3.3	22
5	Î¼â€EXAFS, Î¼â€XRF, and Î¼â€PL Characterization of a Multiâ€Quantumâ€Well Electroabsorption Modulated Laser Realized via Selective Area Growth. Small, 2011, 7, 930-938.	10.0	21
6	Doping Change in the Bi-2212 Superconductor Directly Induced by a Hard X-ray Nanobeam. Nano Letters, 2014, 14, 1583-1589.	9.1	21
7	IBIC and IBIL microscopy applied to advanced semiconductor materials. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1333-1339.	1.4	20
8	CVD diamond tips as X-ray detectors. Diamond and Related Materials, 1998, 7, 523-527.	3.9	20
9	Structural Characterization of Multiâ€Quantum Wells in Electroabsorptionâ€Modulated Lasers by using Synchrotron Radiation Micrometerâ€Beams. Advanced Materials, 2010, 22, 2050-2054.	21.0	18
10	High magnetic shielding properties of an MgB₂ cup obtained by machining a spark-plasma-sintered bulk cylinder. Superconductor Science and Technology, 2020, 33, 044018.	3.5	18
11	Microwave Synthesis of Fullerene-Doped MgB₂. Industrial & Engineering Chemistry Research, 2012, 51, 11005-11010.	3.7	17
12	Superconducting and hybrid systems for magnetic field shielding. Superconductor Science and Technology, 2016, 29, 034004.	3.5	17
13	Analysis of time behavior in the breakdown of the integral quantum Hall effect. Physical Review B, 1994, 50, 7608-7614.	3.2	16
14	CVD diamond detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 410, 96-99.	1.6	16
15	CARBON INFLUENCE IN THE SYNTHESIS OF MgB2 BY A MICROWAVE METHOD. International Journal of Modern Physics B, 2003, 17, 773-778.	2.0	16
16	Comparison of the Shielding Properties of Superconducting and Superconducting/Ferromagnetic Bi- and Multi-layer Systems. Journal of Superconductivity and Novel Magnetism, 2017, 30, 749-756.	1.8	16
17	Synchrotron study of oxygen depletion in a Bi-2212 whisker annealed at 363â€…K. Journal of Synchrotron Radiation, 2009, 16, 813-817.	2.4	15
18	Direct-Write X-ray Nanopatterning: A Proof of Concept Josephson Device on Bi₂Sr₂CaCu₂O_{8+Î´} Superconducting Oxide. Nano Letters, 2016, 16, 1669-1674.	9.1	15

#	Article	IF	Citations
19	Passive magnetic shielding by machinable MgB₂ bulks: measurements and numerical simulations. Superconductor Science and Technology, 2019, 32, 034004.	3.5	15
20	Electrical study of an unusual phase transformation in a Bi2Sr2Ca2Cu3O10+xwhisker at room temperature. Superconductor Science and Technology, 2006, 19, 1003-1009.	3.5	14
21	Magnetic Characterization of MgB2 Bulk Superconductor for Magnetic Field Mitigation Solutions. Journal of Superconductivity and Novel Magnetism, 2011, 24, 307-312.	1.8	14
22	Ion beam induced luminescence maps in CVD diamond as obtained by coincidence measurements. Diamond and Related Materials, 1999, 8, 1592-1596.	3.9	13
23	Reduced leakage current and improved multiferroic properties of 0.5((1â^'x)BLPFO-xPZT)-0.5PVDF composite films. Ceramics International, 2016, 42, 18238-18246.	4.8	13
24	Bi-2212 and Y123 highly curved single-crystal-like objects: whiskers, bows and ring-like structures. Superconductor Science and Technology, 2012, 25, 105003.	3.5	12
25	Maskless X-Ray Writing of Electrical Devices on a Superconducting Oxide with Nanometer Resolution and Online Process Monitoring. Scientific Reports, 2017, 7, 9066.	3.3	12
26	Ion beam induced luminescence and charge collection in CVD diamond. Diamond and Related Materials, 1998, 7, 742-747.	3.9	11
27	Electrical transport effects due to oxygen content modifications in a Bi2Sr2CaCu2O8+Î´superconducting whisker. Superconductor Science and Technology, 2007, 20, 667-671.	3.5	11
28	Na Substitution Effects on ${m MgB}_{2}$ Synthesized With a Microwave-Assisted Technique. IEEE Transactions on Applied Superconductivity, 2007, 17, 2774-2777.	1.7	11
29	A study of the radiation tolerance of poly-crystalline and single-crystalline CVD diamond to 800 MeV and 24 GeV protons. Journal Physics D: Applied Physics, 2019, 52, 465103.	2.8	11
30	Insight into non-linearly shaped superconducting whiskers via a synchrotron nanoprobe. Superconductor Science and Technology, 2012, 25, 125002.	3.5	10
31	Oxygen doping tuning in superconducting oxides by thermal annealing and hard X-ray irradiation. Journal of Electron Spectroscopy and Related Phenomena, 2017, 220, 69-75.	1.7	10
32	Monte Carlo analysis of the oxygen knock-on effects induced by synchrotron x-ray radiation in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>CaC</mml:mi><mml:msub><mml:mi	2.4	10
33	Possible dominance of the Makiâ€“Thompson process in the fluctuation conductivity of Bi-2212 superconducting whiskers. Journal of Physics Condensed Matter, 2006, 18, 8295-8312.	1.8	8
34	Annealing temperature dependence of the 2223 phase volume fraction in the Biâ€“Srâ€“Caâ€“Cuâ€“O system. Physica C: Superconductivity and Its Applications, 2001, 353, 184-194.	1.2	6
35	Crystalline instability of Bi-2212 superconducting whiskers near room temperature. Applied Physics A: Materials Science and Processing, 2009, 95, 479-484.	2.3	6
36	Tailoring the Local Conductivity of TiO₂ by Xâ€Ray Nanobeam Irradiation. Advanced Electronic Materials, 2019, 5, 1900129.	5.1	6

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37	Crystal growth dependence on the starting chemical compounds in the Bi2Sr2Ca2Cu3Ox system. Physica C: Superconductivity and Its Applications, 1998, 303, 94-100.	1.2	5
38	Microwave Synthesis Of MgB₂ Superconductor. Materials Research Innovations, 2004, 8, 75-77.	2.3	5
39	17 keV photon induced damage of Bi-2212 whiskers by synchrotron Î¼-beam exposure. Superconductor Science and Technology, 2011, 24, 035009.	3.5	5
40	Time and space resolved modelling of the heating induced by synchrotron X-ray nanobeams. Journal of Synchrotron Radiation, 2020, 27, 1662-1673.	2.4	5
41	Size-dependent resistivity in a micro-processed YBa2Cu3O7â^'Î´superconducting whisker. Superconductor Science and Technology, 2009, 22, 045011.	3.5	4
42	Photoconductivity effects in mixed-phase BSCCO whiskers. Superconductor Science and Technology, 2012, 25, 105010.	3.5	4
43	Al doping influence on crystal growth, structure and superconducting properties of Y(Ca)Ba2Cu3O7â^'y whiskers. Journal of Alloys and Compounds, 2013, 551, 19-23.	5.5	4
44	Structural and functional modifications induced by X-ray nanopatterning in Bi-2212 single crystals. CrystEngComm, 2018, 20, 6667-6676.	2.6	4
45	Triggering Neurotransmitters Secretion from Single Cells by X-ray Nanobeam Irradiation. Nano Letters, 2020, 20, 3889-3894.	9.1	4
46	Mapping of Structural Changes Induced by X-ray Nanopatterning via Nano-X-ray Diffraction and Corresponding Electrical Effects. Crystal Growth and Design, 2021, 21, 3299-3309.	3.0	4
47	Sintered and 3D-Printed Bulks of MgB2-Based Materials with Antimicrobial Properties. Molecules, 2021, 26, 6045.	3.8	4
48	Interlayer tunneling spectroscopy of mixed-phase BSCCO superconducting whiskers. Superconductor Science and Technology, 2016, 29, 065013.	3.5	3
49	Antimicrobial Activity of MgB2 Powders Produced via Reactive Liquid Infiltration Method. Molecules, 2021, 26, 4966.	3.8	3
50	Noise spectroscopy in the breakdown of the IQHE. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1996, 18, 1295-1306.	0.4	2
51	Effect of Al and Ca co-doping, in the presence of Te, in superconducting YBCO whiskers growth. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 702-708.	1.1	2
52	Functional Modifications Induced via Xâ€ray Nanopatterning in TiO₂ Rutile Single Crystals. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100409.	2.4	2
53	Photoconductivity experiments on superconducting Bi2Sr2CaCu2O8+xwhiskers. Superconductor Science and Technology, 2007, 20, 721-727.	3.5	1
54	X-ray crystal structures of Al-doped (Y,Ca)Ba2Cu3O7â^'ywhiskers. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 236-242.	1.1	1

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55	5. Structural and electronic characterization of nanosized inorganic materials by X-ray absorption spectroscopies. , 0, , .		0
56	Tuning the functional properties of YBa2Cu3O7-Î´ by synchrotron X-ray irradiation. , 2019, , .		0