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	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
2	Antimicrobial Activity of MgB2 Powders Produced via Reactive Liquid Infiltration Method. Molecules, 2021, 26, 4966.	3.8	3
3	Functional Modifications Induced via Xâ€ray Nanopatterning in TiO₂ Rutile Single Crystals. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100409.	2.4	2
4	Sintered and 3D-Printed Bulks of MgB2-Based Materials with Antimicrobial Properties. Molecules, 2021, 26, 6045.	3.8	4
5	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
6	Triggering Neurotransmitters Secretion from Single Cells by X-ray Nanobeam Irradiation. Nano Letters, 2020, 20, 3889-3894.	9.1	4
7	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
8	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
9	Tailoring the Local Conductivity of TiO₂ by Xâ€Ray Nanobeam Irradiation. Advanced Electronic Materials, 2019, 5, 1900129.	5.1	6
10	Passive magnetic shielding by machinable MgB₂ bulks: measurements and numerical simulations. Superconductor Science and Technology, 2019, 32, 034004.	3.5	15
11	Tuning the functional properties of YBa2Cu3O7-Î´ by synchrotron X-ray irradiation. , 2019, , .		0
12	Structural and functional modifications induced by X-ray nanopatterning in Bi-2212 single crystals. CrystEngComm, 2018, 20, 6667-6676.	2.6	4
13	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
14	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
15	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
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	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
18	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

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19	Interlayer tunneling spectroscopy of mixed-phase BSCCO superconducting whiskers. Superconductor Science and Technology, 2016, 29, 065013.	3.5	3
20	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
21	Superconducting and hybrid systems for magnetic field shielding. Superconductor Science and Technology, 2016, 29, 034004.	3.5	17
22	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
23	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
24	Doping Change in the Bi-2212 Superconductor Directly Induced by a Hard X-ray Nanobeam. Nano Letters, 2014, 14, 1583-1589.	9.1	21
25	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
26	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
27	Insight into non-linearly shaped superconducting whiskers via a synchrotron nanoprobe. Superconductor Science and Technology, 2012, 25, 125002.	3.5	10
28	Photoconductivity effects in mixed-phase BSCCO whiskers. Superconductor Science and Technology, 2012, 25, 105010.	3.5	4
29	Microwave Synthesis of Fullerene-Doped MgB₂. Industrial & Engineering Chemistry Research, 2012, 51, 11005-11010.	3.7	17
30	Magnetic Characterization of MgB2 Bulk Superconductor for Magnetic Field Mitigation Solutions. Journal of Superconductivity and Novel Magnetism, 2011, 24, 307-312.	1.8	14
31	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
32	17 keV photon induced damage of Bi-2212 whiskers by synchrotron Î¼-beam exposure. Superconductor Science and Technology, 2011, 24, 035009.	3.5	5
33	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
34	Size-dependent resistivity in a micro-processed YBa2Cu3O7â˜'Î´superconducting whisker. Superconductor Science and Technology, 2009, 22, 045011.	3.5	4
35	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
36	Crystalline instability of Bi-2212 superconducting whiskers near room temperature. Applied Physics A: Materials Science and Processing, 2009, 95, 479-484.	2.3	6

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37	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
38	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
39	Photoconductivity experiments on superconducting Bi2Sr2CaCu2O8+xwhiskers. Superconductor Science and Technology, 2007, 20, 721-727.	3.5	1
40	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
41	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
42	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
43	Evidence of ion diffusion at room temperature in microcrystals of the Bi2Sr2CaCu2O8+Î´ superconductor. Applied Physics Letters, 2005, 86, 213116.	3.3	22
44	Microwave Synthesis Of MgB₂ Superconductor. Materials Research Innovations, 2004, 8, 75-77.	2.3	5
45	CARBON INFLUENCE IN THE SYNTHESIS OF MgB2 BY A MICROWAVE METHOD. International Journal of Modern Physics B, 2003, 17, 773-778.	2.0	16
46	Growth, contacting and ageing of superconducting Bi-2212 whiskers. Superconductor Science and Technology, 2002, 15, 1304-1310.	3.5	25
47	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
48	Ion beam induced luminescence maps in CVD diamond as obtained by coincidence measurements. Diamond and Related Materials, 1999, 8, 1592-1596.	3.9	13
49	IBIC and IBIL microscopy applied to advanced semiconductor materials. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1333-1339.	1.4	20
50	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
51	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
52	Ion beam induced luminescence and charge collection in CVD diamond. Diamond and Related Materials, 1998, 7, 742-747.	3.9	11
53	CVD diamond tips as X-ray detectors. Diamond and Related Materials, 1998, 7, 523-527.	3.9	20
54	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

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55	Analysis of time behavior in the breakdown of the integral quantum Hall effect. Physical Review B, 1994, 50, 7608-7614.	3.2	16
56	5. Structural and electronic characterization of nanosized inorganic materials by X-ray absorption spectroscopies. , 0, , .		0