

Gaetano Campi

List of Publications by Year in descending order

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122
papers

3,376
citations

147566

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h-index

161609

54
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124
all docs

124
docs citations

124
times ranked

3993
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhomogeneity of charge-density-wave order and quenched disorder in a high-Tc superconductor. Nature, 2015, 525, 359-362.	13.7	250
2	Scale-free structural organization of oxygen interstitials in La ₂ CuO _{4+y} . Nature, 2010, 466, 841-844.	13.7	236
3	Nanoscale phase separation in the iron chalcogenide superconductor K _{0.8} Fe _{1.6} Se ₂ (T _c = 31.8 K) single crystals. Superconductor Science and Technology, 2011, 24, 082002.	1.1	228
4	Evolution and control of oxygen order in a cuprate superconductor. Nature Materials, 2011, 10, 733-736.	13.3	148
5	Status of the crystallography beamlines at Elettra. European Physical Journal Plus, 2015, 130, 1.	1.2	141
6	Intrinsic phase separation in superconducting K _{0.8} Fe _{1.6} Se ₂ (T _c = 31.8 K) single crystals. Superconductor Science and Technology, 2011, 24, 082002.	1.8	118
7	Advances in powder diffraction pattern indexing: N-TREOR09. Journal of Applied Crystallography, 2009, 42, 768-775.	1.9	112
8	Optimum inhomogeneity of local lattice distortions in La ₂ CuO _{4+y} . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15685-15690.	3.3	109
9	Scaling of the critical temperature with the Fermi temperature in diborides. Physical Review B, 2002, 65, .	1.1	83
10	Substitution of Sc for Mg in MgB ₂ : Effects on transition temperature and Kohn anomaly. Physical Review B, 2004, 70, .	1.1	79
11	Simultaneous submicrometric 3D imaging of the micro-vascular network and the neuronal system in a mouse spinal cord. Scientific Reports, 2015, 5, 8514.	1.6	73
12	A superconductor made by a metal heterostructure at the atomic limit tuned at the 'shape resonance': MgB ₂ *. Journal of Physics Condensed Matter, 2001, 13, 7383-7390.	0.7	64
13	X-Ray Phase Contrast Tomography Reveals Early Vascular Alterations and Neuronal Loss in a Multiple Sclerosis Model. Scientific Reports, 2017, 7, 5890.	1.6	64
14	Direct observation of nanoscale interface phase in the superconducting chalcogenide K _{0.8} Fe _{1.6} Se ₂ (T _c = 31.8 K) single crystals. Physical Review B, 2015, 91, .	1.1	59
15	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. Current Protein and Peptide Science, 2014, 15, 285-295.	0.7	56
16	The amplification of the superconducting T _c by combined effect of tuning of the Fermi level and the tensile micro-strain in Al _{1-x} Mg _x B ₂ . Europhysics Letters, 2002, 58, 278-284.	0.7	47
17	A fully-automated neural network analysis of AFM force-distance curves for cancer tissue diagnosis. Applied Physics Letters, 2017, 111, .	1.5	47
18	Spatial inhomogeneity and planar symmetry breaking of the lattice incommensurate supermodulation in the high-temperature superconductor Bi ₂ Sr ₂ CaCu ₂ O ₈ . Physical Review B, 2015, 91, .	1.1	45

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19	Multiscale distribution of oxygen puddles in 1/8 doped YBa ₂ Cu ₃ O _{6.67} . Scientific Reports, 2013, 3, 2383.	1.6	45
20	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. Bioinspiration and Biomimetics, 2016, 11, 011001.	1.5	44
21	Possible Fano resonance for high-T _c multi-gap superconductivity in p-Terphenyl doped by K at the Lifshitz transition. Europhysics Letters, 2017, 118, 37003.	0.7	42
22	Quantitative 3D investigation of Neuronal network in mouse spinal cord model. Scientific Reports, 2017, 7, 41054.	1.6	40
23	Scanning micro-X-ray diffraction unveils the distribution of oxygen chain nanoscale puddles in YBa ₂ Cu ₃ O _{6.67} . Scientific Reports, 2017, 7, 41054.	1.1	37
24	Early stage mineralization in tissue engineering mapped by high resolution X-ray microdiffraction. Acta Biomaterialia, 2012, 8, 3411-3418.	4.1	36
25	Percolative superconductivity in La ₂ CuO _{4.06} by lattice granularity patterns with scanning micro x-ray absorption near edge structure. Applied Physics Letters, 2014, 104, .	1.5	36
26	An Optimized Table-Top Small-Angle X-ray Scattering Set-up for the Nanoscale Structural Analysis of Soft Matter. Scientific Reports, 2014, 4, 6985.	1.6	36
27	Continuous Thermal Collapse of the Intrinsically Disordered Protein Tau Is Driven by Its Entropic Flexible Domain. Langmuir, 2012, 28, 13405-13410.	1.6	35
28	Conformational Features and Recognition Properties of a Conformationally Blocked Calix[7]arene Derivative. Chemistry - A European Journal, 2012, 18, 1219-1230.	1.7	35
29	High-Temperature Superconductivity in a Hyperbolic Geometry of Complex Matter from Nanoscale to Mesoscopic Scale. Journal of Superconductivity and Novel Magnetism, 2016, 29, 627-631.	0.8	34
30	A Model for Liquid-Striped Liquid Phase Separation in Liquids of Anisotropic Polarons. Journal of Superconductivity and Novel Magnetism, 2009, 22, 529-533.	0.8	33
31	Study of temperature dependent atomic correlations in MgB ₂ . European Physical Journal B, 2006, 52, 15-21.	0.6	32
32	Transient state kinetic investigation of ferritin iron release. Applied Physics Letters, 2012, 100, 073703.	1.5	31
33	Heterogeneous and self-organizing mineralization of bone matrix promoted by hydroxyapatite nanoparticles. Nanoscale, 2017, 9, 17274-17283.	2.8	31
34	Imaging collagen packing dynamics during mineralization of engineered bone tissue. Acta Biomaterialia, 2015, 23, 309-316.	4.1	30
35	Hierarchical Formation Mechanism of CoFe ₂ O ₄ Mesoporous Assemblies. ACS Nano, 2015, 9, 7277-7286.	7.3	30
36	Networks of superconducting nano-puddles in 1/8 doped YBa ₂ Cu ₃ O _{6.5} controlled by thermal manipulation. New Journal of Physics, 2014, 16, 053030.	1.2	29

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37	Temperature dependent local Cu-O displacements from underdoped to overdoped La-Sr-Cu-O superconductor. <i>European Physical Journal B</i> , 2003, 36, 75-80.	0.6	28
38	Sc doping of MgB ₂ : the structural and electronic properties of Mg _{1-x} Sc _x B ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1479-1484.	1.9	28
39	Three dimensional visualization of engineered bone and soft tissue by combined x-ray micro-diffraction and phase contrast tomography. <i>Physics in Medicine and Biology</i> , 2014, 59, 189-201.	1.6	27
40	Recent Advances in the Label-Free Characterization of Exosomes for Cancer Liquid Biopsy: From Scattering and Spectroscopy to Nanoindentation and Nanodevices. <i>Nanomaterials</i> , 2021, 11, 1476.	1.9	25
41	Synchrotron radiation techniques boost the research in bone tissue engineering. <i>Acta Biomaterialia</i> , 2019, 89, 33-46.	4.1	23
42	Monitoring early stages of silver particle formation in a polymer solution by in situ and time resolved small angle X-ray scattering. <i>Nanoscale</i> , 2010, 2, 2447.	2.8	22
43	Size evolution of the oxygen interstitial nanowires in La ₂ CuO _{4+y} by thermal treatments and x-ray continuous illumination. <i>Superconductor Science and Technology</i> , 2012, 25, 124004.	1.8	20
44	1,4-Dioxane, a Suitable Scaffold for the Development of Novel M ₃ Muscarinic Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1783-1787.	2.9	20
45	Mechanism of aluminium bio-mineralization in the apoferritin cavity. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	20
46	Reconstitution of aluminium and iron core in horse spleen apoferritin. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6149-6155.	0.8	19
47	Nanoscale Correlated Disorder in Out-of-Equilibrium Myelin Ultrastructure. <i>ACS Nano</i> , 2018, 12, 729-739.	7.3	19
48	Efficiency of COVID-19 mobile contact tracing containment by measuring time-dependent doubling time. <i>Physical Biology</i> , 2020, 17, 065006.	0.8	19
49	CDW and Similarity of the Mott Insulator-to-Metal Transition in Cuprates with the Gas-to-Liquid-Liquid Transition in Supercooled Water. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1355-1363.	0.8	18
50	The plastoquinol-plastoquinone exchange mechanism in photosystem II: insight from molecular dynamics simulations. <i>Photosynthesis Research</i> , 2017, 131, 15-30.	1.6	18
51	Wet sample confinement by superhydrophobic patterned surfaces for combined X-ray fluorescence and X-ray phase contrast imaging. <i>Microelectronic Engineering</i> , 2013, 111, 304-309.	1.1	17
52	Nanocluster superstructures or nanoparticles? The self-consuming scaffold decides. <i>Nanoscale</i> , 2018, 10, 7472-7483.	2.8	17
53	Copper(I)-organophosphine complexes of bis(3,5-dimethylpyrazol-1-yl)dithioacetate ligand. <i>Inorganica Chimica Acta</i> , 2008, 361, 1456-1462.	1.2	16
54	Controlling Photoinduced Electron Transfer Via Defects Self-Organization for Novel Functional Macromolecular Systems. <i>Current Protein and Peptide Science</i> , 2014, 15, 394-399.	0.7	15

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55	Characterization of mouse spinal cord vascular network by means of synchrotron radiation X-ray phase contrast tomography. <i>Physica Medica</i> , 2016, 32, 1779-1784.	0.4	15
56	Evolution of Complexity in Out-of-Equilibrium Systems by Time-Resolved or Space-Resolved Synchrotron Radiation Techniques. <i>Condensed Matter</i> , 2019, 4, 32.	0.8	15
57	Controlling the Cassie-to-Wenzel Transition: an Easy Route towards the Realization of Tridimensional Arrays of Biological Objects. <i>Nano-Micro Letters</i> , 2014, 6, 280-286.	14.4	14
58	Polymer-Assisted Synthesis of Two-Dimensional Silver Meso-Structures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11198-11203.	1.5	13
59	Ostwald Growth Rate in Controlled Covid-19 Epidemic Spreading as in Arrested Growth in Quantum Complex Matter. <i>Condensed Matter</i> , 2020, 5, 23.	0.8	13
60	Toward scale-free like behavior under increasing cognitive load. <i>Complexity</i> , 2012, 18, 38-43.	0.9	12
61	Imaging regenerating bone tissue based on neural networks applied to micro-diffraction measurements. <i>Applied Physics Letters</i> , 2013, 103, 253703.	1.5	12
62	Local Structure in Mg _{1-x} Al _x B ₂ System by High Resolution Neutron Diffraction. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 1319-1322.	0.8	11
63	Competing Striped Structures in La ₂ CuO _{4+y} . <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2703-2708.	0.8	11
64	Imaging Spatial Ordering of the Oxygen Chains in YBa ₂ Cu ₃ O _{6+y} at the Insulator-to-Metal Transition. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 987-990.	0.8	11
65	Changes of statistical structural fluctuations unveils an early compacted degraded stage of PNS myelin. <i>Scientific Reports</i> , 2014, 4, 5430.	1.6	11
66	X-Rays Writing/Reading of Charge Density Waves in the CuO ₂ Plane of a Simple Cuprate Superconductor. <i>Condensed Matter</i> , 2017, 2, 26.	0.8	11
67	Spatially correlated incommensurate lattice modulations in an atomically thin high-temperature Bi_2Te_3 O_8 . <i>Physical Review Materials</i> , 2020, 4, 044101.		
68	Control of silver-polymer aggregation mechanism by primary particle spatial correlations in dynamic fractal-like geometry. <i>Nanoscale</i> , 2011, 3, 3774.	2.8	10
69	Temperature and solvent dependence of the dynamical landscape of tau protein conformations. <i>Journal of Biological Physics</i> , 2012, 38, 169-179.	0.7	10
70	High-Resolution X-Ray Techniques as New Tool to Investigate the 3D Vascularization of Engineered-Bone Tissue. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 133.	2.0	10
71	Anisotropic Thermal Expansion of p-Terphenyl: a Self-Assembled Supramolecular Array of Poly-p-phenyl Nanoribbons. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 703-710.	0.8	10
72	Direct Visualization of Spatial Inhomogeneity of Spin Stripes Order in La _{1.72} Sr _{0.28} NiO ₄ . <i>Condensed Matter</i> , 2019, 4, 77.	0.8	10

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73	Resonant multi-gap superconductivity at room temperature near a Lifshitz topological transition in sulfur hydrides. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	10
74	Photo-Induced Phase Transition to a Striped Polaron Crystal in Cuprates. <i>Phase Transitions</i> , 2002, 75, 927-933.	0.6	9
75	Crystal and molecular structure of the saline complex hexaaquairon(II) hexachloroplatinate, [Fe(H ₂ O) ₆][PtCl ₆]. <i>Zeitschrift für Kristallographie</i> , 2009, 224, 384-388.	1.1	9
76	Controlling DNA Bundle Size and Spatial Arrangement in Self-assembled Arrays on Superhydrophobic Surface. <i>Nano-Micro Letters</i> , 2015, 7, 146-151.	14.4	9
77	Water Collective Dynamics in Whole Photosynthetic Green Algae as Affected by Protein Single Mutation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2429-2433.	2.1	9
78	Metastable states in plateaus and multi-wave epidemic dynamics of Covid-19 spreading in Italy. <i>Scientific Reports</i> , 2021, 11, 12412.	1.6	9
79	Functional Nanoscale Phase Separation and Intertwined Order in Quantum Complex Materials. <i>Condensed Matter</i> , 2021, 6, 40.	0.8	9
80	Superstripes and Superconductivity in Complex Granular Matter. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2585-2588.	0.8	7
81	Effect of Temperature and X-Ray Illumination on the Oxygen Ordering in La ₂ CuO _{4.1} Superconductor. <i>Journal of Superconductivity and Novel Magnetism</i> , 2004, 17, 137-142.	0.5	6
82	Measurement of Spin Dynamics in a Layered Nickelate Using X-Ray Photon Correlation Spectroscopy: Evidence for Intrinsic Destabilization of Incommensurate Stripes at Low Temperatures. <i>Physical Review Letters</i> , 2021, 127, 057001.	2.9	6
83	Complex Phase Separation in Oxygen-Doped Cuprates La ₂ CuO _{4+y} Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2005, 18, 637-642.	0.5	5
84	Crystal structure of a <i>p</i> - <i>tert</i> -butylcalix[8]arene α -N-methyl-morpholine complex. <i>Zeitschrift für Kristallographie</i> , 2009, 224, 407-411.	1.1	5
85	Temperature Dependence of $\sqrt{2} \times \sqrt{2}$ Phase in Superconducting K _{0.8} Fe _{1.6} Se ₂ Single Crystal. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014, 27, 1003-1007.	0.8	5
86	Dislocations as a boundary between charge density wave and oxygen rich phases in a cuprate high temperature superconductor. <i>Superconductor Science and Technology</i> , 2017, 30, 035016.	1.8	5
87	Correlated Disorder in Myelinated Axons Orientational Geometry and Structure. <i>Condensed Matter</i> , 2017, 2, 29.	0.8	5
88	Correlated Disorder in YBCO and Composite YBCO Films Revealed by Means of Synchrotron X-Ray Diffraction. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-4.	1.1	5
89	Myelin basic protein dynamics from out-of-equilibrium functional state to degraded state in myelin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183256.	1.4	5
90	Intermittent dynamics of antiferromagnetic phase in inhomogeneous iron-based chalcogenide superconductor. <i>Physical Review B</i> , 2020, 101, .	1.1	5

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91	Periodic recurrent waves of Covid-19 epidemics and vaccination campaign. Chaos, Solitons and Fractals, 2022, 160, 112216.	2.5	5
92	Activation Energy of the Photo Induced Q2 Oxygen Ordered Phase in the La ₂ CuO _{4.08} Superconductor. Journal of Superconductivity and Novel Magnetism, 2005, 18, 671-674.	0.5	4
93	Anomalous Thermal Expansion in Superconducting Mg _{1-x} Al _x B ₂ System. Journal of Superconductivity and Novel Magnetism, 2005, 18, 737-741.	0.5	4
94	Common features in high T _c cuprates and diborides. Current Applied Physics, 2005, 5, 254-258.	1.1	4
95	Local Lattice Dynamics in the Mg _{0.5} Al _{0.5} B ₂ Superconductor. Journal of Superconductivity and Novel Magnetism, 2007, 20, 505-510.	0.8	4
96	Solid-state assembly of oxyfunctionalized calix[4]arene derivatives. CrystEngComm, 2010, 12, 880-887.	1.3	4
97	Fe(Se,Te) from melting routes: the influence of thermal processing on microstructure and superconducting properties. Superconductor Science and Technology, 2020, 33, 084007.	1.8	4
98	TEMPERATURE AND X-RAY ILLUMINATION EFFECTS IN OXYGEN DOPED La ₂ CuO ₄ . International Journal of Modern Physics B, 2003, 17, 836-841.	1.0	3
99	Manipulation of Mesoscopic Phase Separation by X-ray Illumination. Journal of Superconductivity and Novel Magnetism, 2007, 20, 551-554.	0.8	3
100	Multiple-wavelength anomalous dispersion techniques applied to powder data: a probabilistic method for finding the substructure via joint probability distribution functions. Journal of Applied Crystallography, 2009, 42, 30-35.	1.9	3
101	Solid-state assembly of calixcyclitol derivatives. CrystEngComm, 2011, 13, 467-473.	1.3	3
102	Dynamic templating role of polynaphthalene sulphonate in the formation of silver nanocrystals in aqueous solution. Journal of Nanoparticle Research, 2011, 13, 3107-3112.	0.8	3
103	Hierarchic self-assembling of silver nanoparticles in solution. Nanotechnology Reviews, 2012, 1, 57-78.	2.6	3
104	X-ray micro-beam techniques and phase contrast tomography applied to biomaterials. Nuclear Instruments & Methods in Physics Research B, 2015, 364, 93-97.	0.6	3
105	Epidemic spreading in an expanded parameter space: the supercritical scaling laws and subcritical metastable phases. Physical Biology, 2021, 18, 045005.	0.8	3
106	Nanoscale Phase Separation of Incommensurate and Quasi-Commensurate Spin Stripes in Low Temperature Spin Glass of La _{2-x} Sr _x NiO ₄ . Condensed Matter, 2021, 6, 45.	0.8	3
107	T _c as a Function of Electron Doping in Mg ₁₀ B ₂ Using Sc for Mg Substitution. Journal of Superconductivity and Novel Magnetism, 2005, 18, 667-670.	0.5	2
108	Manipulating Electronic States at Oxide Interfaces Using Focused Micro X-Rays from Standard Lab Sources. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1267-1272.	0.8	2

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109	Two-Dimensional Nanogranularity of the Oxygen Chains in the YBa ₂ Cu ₃ O _{6.33} Superconductor. Journal of Superconductivity and Novel Magnetism, 2016, 29, 3023-3026.	0.8	2
110	VUV Pump and Probe of Phase Separation and Oxygen Interstitials in La ₂ NiO _{4+y} Using Spectromicroscopy. Condensed Matter, 2018, 3, 6.	0.8	2
111	Design of a fluorescent and clickable Ag ₃₈ (SRN ₃) ₂₄ nanocluster platform: synthesis, modeling and self-assembling. Nanoscale Advances, 2021, 3, 2948-2960.	2.2	2
112	Key role of local structure in the anomalous superconductivity of the Ce _{1-x} La _x Ru ₂ system. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E139-E140.	1.0	1
113	Phase Separation in Electron Doped Iron-Selenide K _{0.8} Fe _{1.6} Se ₂ Superconductor by Scanning X-ray Nano-Diffraction. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1383-1387.	0.8	1
114	A Case of Complex Matter: Coexistence of Multiple Phase Separations in Cuprates. , 2006, , 147-156.		1
115	CDW and Similarity of the Mott Insulator-to-Metal Transition in Cuprates with the Gas-to-Liquid-Liquid Transition in Supercooled Water. , 0, .		1
116	Controlling the Cassie-to-Wenzel Transition: an Easy Route towards the Realization of Tridimensional Arrays of Biological Objects. Nano-Micro Letters, 2014, 6, 280.	14.4	1
117	DISORDER TO ORDER-LIKE TRANSITION IN La ₂ CuO _{4.1} SUPERCONDUCTOR INDUCED BY HIGH INTENSITY X-RAYS. International Journal of Modern Physics B, 2002, 16, 1627-1632.	1.0	0
118	MICRO-STRAIN AND SELF ORGANIZATION OF LOCALIZED CHARGES IN COPPER OXIDES. , 2003, , .		0
119	Advances in doping MgB ₂ : tuning the Fermi level to the ϵ -shape resonance by Sc substitution. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 1832-1835.	0.8	0
120	Crystal structure of (+)-(2 <i>S</i> ,3 <i>S</i> ,1' <i>S</i>)-2-ethyl-N-(1-hydroxymethyl-2-yl) N-(methylpropyl)-2-methyl-2-oxo-1-phenylethan-1-amine. Kristallographie - New Crystal Structures, 2008, 223, 481-482.	0.1	0
121	X-ray crystal structure and conformation of N-tert-butylloxycarbonyl-L-methionyl-(1-aminocyclopent-3-ene-1-carbonyl)-L-phenylalanine methyl ester (Boc ⁰ -Met ¹ -Cpg ² -Phe ³ -OMe). Zeitschrift für Kristallographie, 2009, 224, 225-228.	1.1	0
122	Structural Fluctuations at Nanoscale in Complex Functional Materials. Springer Proceedings in Physics, 2021, , 181-189.	0.1	0