

Carlo Camerlingo

List of Publications by Year in descending order

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114
papers

1,066
citations

394286

19
h-index

454834

30
g-index

115
all docs

115
docs citations

115
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of the critical current density in YBa ₂ Cu ₃ O _{7-δ} films by means of intergrain and intragrain correlated defects. Physical Review B, 1999, 60, 7623-7630.	1.1	94
2	Anisotropic Josephson junctions of YBaCuO/Au/Nb film sandwiches. Applied Physics Letters, 1990, 56, 1487-1489.	1.5	89
3	Er:YAG laser treatments on dentine surface: micro-Raman spectroscopy and SEM analysis. Journal of Dentistry, 2004, 32, 399-405.	1.7	60
4	Wavelet data processing of micro-Raman spectra of biological samples. Measurement Science and Technology, 2006, 17, 298-303.	1.4	55
5	Visible micro-Raman spectroscopy for determining glucose content in beverage industry. Food Chemistry, 2011, 127, 735-742.	4.2	51
6	Disorder effects in ion-implanted niobium thin films. Physical Review B, 1985, 31, 3121-3123.	1.1	44
7	Investigation on Clarified Fruit Juice Composition by Using Visible Light Micro-Raman Spectroscopy. Sensors, 2007, 7, 2049-2061.	2.1	37
8	Micro-Raman Spectroscopy for Monitoring Changes in Periodontal Ligaments and Gingival Crevicular Fluid. Sensors, 2014, 14, 22552-22563.	2.1	33
9	Visible micro-Raman spectroscopy of single human mammary epithelial cells exposed to x-ray radiation. Journal of Biomedical Optics, 2015, 20, 035003.	1.4	33
10	A simple mechanical technique to obtain carbon nanoscrolls from graphite nanoplatelets. Nanoscale Research Letters, 2013, 8, 403.	3.1	30
11	Synthesis and Characterization of Highly Intercalated Graphite Bisulfate. Nanoscale Research Letters, 2017, 12, 167.	3.1	29
12	An Investigation on Micro-Raman Spectra and Wavelet Data Analysis for Pemphigus Vulgaris Follow-up Monitoring.. Sensors, 2008, 8, 3656-3664.	2.1	28
13	Monitoring early phases of orthodontic treatment by means of Raman spectroscopies. Journal of Biomedical Optics, 2017, 22, 1.	1.4	28
14	Current-driven vortex dynamics in a periodic potential. Physical Review B, 1999, 60, 9726-9733.	1.1	26
15	Micro-Raman spectroscopy on YBCO films during heat treatment. Superconductor Science and Technology, 2002, 15, 1606-1609.	1.8	23
16	Characterization of piezoresistive properties of graphene-supported polymer coating for strain sensor applications. Sensors and Actuators A: Physical, 2016, 252, 26-34.	2.0	23
17	Fructose and Pectin Detection in Fruit-Based Food Products by Surface-Enhanced Raman Spectroscopy. Sensors, 2017, 17, 839.	2.1	23
18	Surface-enhanced Raman spectroscopy of tears: toward a diagnostic tool for neurodegenerative disease identification. Journal of Biomedical Optics, 2020, 25, 1.	1.4	23

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19	Micro-Raman Spectroscopy and Univariate Analysis for Monitoring Disease Follow-Up. Sensors, 2011, 11, 8309-8322.	2.1	22
20	Application of Vibrational Spectroscopies in the Qualitative Analysis of Gingival Crevicular Fluid and Periodontal Ligament during Orthodontic Tooth Movement. Journal of Clinical Medicine, 2021, 10, 1405.	1.0	20
21	Characterization of Human Tear Fluid by Means of Surface-Enhanced Raman Spectroscopy. Sensors, 2019, 19, 1177.	2.1	16
22	Zero-field $\hbar\omega_c$ steps in small Josephson junctions. Journal of Applied Physics, 1982, 53, 7609-7611.	1.1	15
23	Properties of Fe(Se, $\delta\%$ Te) Bicrystal Grain Boundary Junctions, SQUIDs, and Nanostrips. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	15
24	Monitoring Biochemical and Structural Changes in Human Periodontal Ligaments during Orthodontic Treatment by Means of Micro-Raman Spectroscopy. Sensors, 2020, 20, 497.	2.1	14
25	Low energy electron beam processing of YBCO thin films. Applied Surface Science, 2017, 395, 42-49.	3.1	11
26	Graphene-Based Raman Spectroscopy for pH Sensing of X-rays Exposed and Unexposed Culture Media and Cells. Sensors, 2018, 18, 2242.	2.1	11
27	Surface-Enhanced Raman Spectroscopy for Monitoring Extravirgin Olive Oil Bioactive Components. Journal of Chemistry, 2019, 2019, 1-10.	0.9	11
28	Micro-Raman spectroscopy of laser processed YBa ₂ Cu ₃ O _{7-δ} thin films. Journal of Applied Physics, 2011, 110, .	1.1	9
29	Interplay Between as Grown Defects and Heavy Ion Induced Defects in YBCO Films. International Journal of Modern Physics B, 1999, 13, 1177-1182.	1.0	8
30	MICROWAVE DISSIPATION IN YBa ₂ Cu ₃ O _{7-δ} THIN FILMS WITH IRRADIATION-INDUCED COLUMNAR DEFECTS. International Journal of Modern Physics B, 2000, 14, 2822-2827.	1.0	8
31	Preliminary results on tunnel junctions on YBCO bulk with an artificial barrier. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 128, 508-512.	0.9	7
32	High current carrying networks of Josephson junctions in YBCO films. Superconductor Science and Technology, 1999, 12, 1059-1062.	1.8	7
33	Nanosize patterns as reference structures for macroscopic transport properties and vortex phases in YBCO films. European Physical Journal B, 2001, 19, 357-362.	0.6	7
34	Current Induced Resistive State in Fe(Se,Te) Superconducting Nanostrips. Scientific Reports, 2017, 7, 4115.	1.6	7
35	Graphene-Based and Surface-Enhanced Raman Spectroscopy for Monitoring the Physio-Chemical Response of Thermophilic Bacterial Spores to Low Temperatures Exposure. Sensors, 2020, 20, 4150.	2.1	7
36	Kinetic investigation of water physisorption on natural clinoptilolite at room temperature. Microporous and Mesoporous Materials, 2020, 302, 110238.	2.2	7

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37	Anisotropic SNS Josephson junctions using epitaxial YBaCuO films. Physica C: Superconductivity and Its Applications, 1991, 180, 227-234.	0.6	5
38	Low 1/f flux noise in sputtered YBa ₂ Cu ₃ O _{7-δ} bicrystal dc-superconducting quantum interference devices. Journal of Applied Physics, 1997, 82, 3922-3927.	1.1	5
39	Modulated sputtering process for smooth surface YBCO film deposition. Journal of Alloys and Compounds, 1997, 251, 34-36.	2.8	5
40	Microstructures of carbon nanoscrolls characterized by polarized micro-Raman spectroscopy. New Carbon Materials, 2016, 31, 621-627.	2.9	5
41	Effects of Ionizing Radiation and Long-Term Storage on Hydrated vs. Dried Cell Samples of Extremophilic Microorganisms. Microorganisms, 2022, 10, 190.	1.6	5
42	Regular supercurrent nonuniformities in Josephson junctions by ion implantation. Journal of Applied Physics, 1988, 64, 2759-2761.	1.1	4
43	Effect of the loop capacitance on resonant modes in superconducting two-junction interferometers. Journal of Applied Physics, 1990, 67, 1987-1991.	1.1	4
44	Step-edge junction fabrication by a Si/YBCO reactive patterning technique. Physica C: Superconductivity and Its Applications, 1994, 232, 44-48.	0.6	4
45	Measurements of the dc Josephson current in proximity systems. Physical Review B, 1995, 51, 6493-6499.	1.1	4
46	Probing of current-tailoring mechanisms in YBa ₂ Cu ₃ O _{7-δ} films by means of heavy ion irradiation. Physica C: Superconductivity and Its Applications, 2000, 332, 115-121.	0.6	4
47	Microstructural and morphological analysis of ultrathin YBa ₂ Cu ₃ O _{7-δ} films grown by modulated magnetron sputtering on SrTiO ₃ substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 802-808.	0.9	4
48	Characterization of Si-CeO/sub 2/-YBCO tri-layers grown by magnetron sputtering. IEEE Transactions on Applied Superconductivity, 2003, 13, 2860-2863.	1.1	4
49	MICROSTRUCTURES OF SPUTTERED ORIENTED Si/CeO ₂ BILAYERS/YBa ₂ Cu ₃ O _{7-δ} /Si INTEGRATED MICROELECTRONICS. International Journal of Modern Physics B, 2003, 17, 848-854.	1.0	4
50	Intrinsic pinning and current percolation signatures in E-J characteristics of Si/YSZ/CeO ₂ /YBCO layouts. European Physical Journal B, 2005, 48, 359-365.	0.6	4
51	R.F. SPUTTERING DEPOSITION OF BUFFER LAYERS FOR Si/YBCO INTEGRATED MICROELECTRONICS. International Journal of Modern Physics B, 2005, 19, 4605-4617.	1.0	4
52	Data analysis in Raman measurements of biological tissues using wavelet techniques. , 2005, , .		4
53	YBCO-bulk tunnel junctions with cadmium sulphide artificial barriers. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1395-1396.	0.6	3
54	Supercurrent nonuniformities by ion implantation in niobium based Josephson junctions. IEEE Transactions on Magnetics, 1989, 25, 1251-1254.	1.2	3

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55	In-Plane Properties of (103)/(013) Oriented YBCO Films. International Journal of Modern Physics B, 1999, 13, 1091-1096.	1.0	3
56	Characterization of siliconâ€“YBCO buffered multilayers grown by sputtering. Applied Surface Science, 2004, 238, 485-489.	3.1	3
57	Evaluation of the out-of-plane coherence length in (103)/(013) YBa ₂ Cu ₃ O _{7-δ} films from electrical transport measurements. Superconductor Science and Technology, 2005, 18, 1106-1111.	1.8	3
58	Mixed state microwave resistivity of cuprate superconductors. Journal of Physics and Chemistry of Solids, 2006, 67, 460-463.	1.9	3
59	Substrate influence on low energy electron beam processing of YBa ₂ Cu ₃ O _{7-δ} thin films. Applied Surface Science, 2021, 535, 147624.	3.1	3
60	Cooper pairs and quasi-particles tunneling in light-sensitive junctions. IEEE Transactions on Magnetism, 1985, 21, 622-625.	1.2	2
61	Effect of Quantum Fluctuations on Iâ€“V Curves of Overdamped Josephson Junctions. Physical Review Letters, 1985, 54, 157-157.	2.9	2
62	Light-sensitive planar interferometers. IEEE Transactions on Magnetism, 1987, 23, 696-698.	1.2	2
63	Structural investigation of YBCO films and bicrystal grain boundary junctions. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 2025-2030.	0.4	2
64	Sputtered YBCO bicrystal dc-SQUIDS. Journal of Superconductivity and Novel Magnetism, 1996, 9, 513-517.	0.5	2
65	Glancing incidence X-ray characterization of ultrathin YBa ₂ Cu ₃ O _{7-δ} x films fabricated by modulated magnetron sputtering. Journal of Alloys and Compounds, 1997, 251, 83-86.	2.8	2
66	Study of the effect of intrinsic and induced defects on the Iâ€“V characteristics of YBCO films. Physica C: Superconductivity and Its Applications, 2000, 332, 93-98.	0.6	2
67	Improvement of the homo-biepitaxial YBCO film fabrication process on Yttrium Stabilized Zirconia. Journal of Physics: Conference Series, 2006, 43, 1135-1138.	0.3	2
68	Coherence length in deoxygenated (103)/(013) oriented YBCO superconductor films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 805-806.	0.6	2
69	Mixed-State Microwave Response in Superconducting Cuprates. Journal of Superconductivity and Novel Magnetism, 2007, 19, 571-577.	0.8	2
70	Oral pathology follow-up by means of micro-Raman spectroscopy on tissue and blood serum samples: an application of wavelet and multivariate data analysis. Proceedings of SPIE, 2009, , .	0.8	2
71	Micro-Raman spectroscopy during orthodontic tooth movement: Follow-up of gingival status. , 2015, , .		2
72	â€œRegularâ€•Barrier Nonuniformities in Optically Controlled Josephson Tunnel Junctions. Japanese Journal of Applied Physics, 1987, 26, 1585.	0.8	2

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73	HTSC grain boundary weak links employing high-quality ICM sputtered YBCO films. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1967-1972.	0.4	1
74	High-quality YBCO d.c. SQUIDS based on bicrystal substrates. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 2019-2024.	0.4	1
75	Effect of the microscopic correlated-pinning landscape on the macroscopic critical current density in YBCO films. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1177-1178.	0.6	1
76	Current direction dependence of vortex pinning in (103)/(013) oriented YBCO films. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1349-1350.	0.6	1
77	JOSEPHSON JUNCTION NETWORK AS A TOOL TO SIMULATE INTERGRAIN SUPERCONDUCTING CHANNELS IN YBCO FILMS. International Journal of Modern Physics B, 2000, 14, 3068-3073.	1.0	1
78	Nanosize texture and transport properties in Y-Ba-Cu-O films. IEEE Transactions on Applied Superconductivity, 2001, 11, 3647-3650.	1.1	1
79	Characterization of YBCO bicrystal grain-boundary Josephson junctions on NdGaO3 substrate in terms of conventional superconductivity models. Physica C: Superconductivity and Its Applications, 2002, 372-376, 91-94.	0.6	1
80	Transport Characterization of Silicon-YBCO Buffered Multilayers Deposited by Magnetron Sputtering. IEEE Transactions on Applied Superconductivity, 2005, 15, 3062-3065.	1.1	1
81	Determination of glucose content by means of visible micro-Raman spectroscopy and interval partial least square multivariate analysis. , 2011, , .		1
82	Evaluation of thin metal film thickness from light attenuation and multi-reflection effects on micro-Raman response. Thin Solid Films, 2013, 536, 142-146.	0.8	1
83	Interval-Principal Component Analysis of Raman spectra of single cells exposed to X-ray radiation. , 2014, , .		1
84	Micro-Raman spectroscopy investigation on periodontal ligament: A preliminary study on a tissue model. , 2014, , .		1
85	Detection of X-ray photons by niobium Josephson tunnel junctions with trapped Abrikosov vortices. Journal of Physics: Conference Series, 2014, 507, 042021.	0.3	1
86	Surface-Enhanced Raman Spectroscopy Study of Commercial Fruit Juices. Proceedings (mdpi), 2016, 1, .	0.2	1
87	Raman investigation of Fe-based chalcogenide films. Physica B: Condensed Matter, 2020, 586, 411966.	1.3	1
88	A New Project on Nondestructive Evaluation with High Temperature SQUIDS. , 1997, , 1083-1090.		1
89	Aging of electron-written YBCO superconducting thin film structures. Journal of Materials Science: Materials in Electronics, 2021, 32, 28687-28694.	1.1	1
90	Amide I Band Analysis Applied to Vibrational Micro-Spectroscopies of Gingival Crevicular Fluid Samples for Orthodontic Treatment Monitoring. , 2021, 10, .		1

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91	Effects of fluctuations on Current-Voltage characteristics of Josephson tunnel junctions. IEEE Transactions on Magnetics, 1985, 21, 626-628.	1.2	0
92	Proximity effects in all refractory Josephson tunnel junctions. Physica B: Condensed Matter, 1994, 194-196, 1745-1746.	1.3	0
93	Design of a NDE instrumentation prototype with high-temperature SQUIDs. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1495-1500.	0.4	0
94	Effect of vortex-pair fluctuations on zero-field current-voltage characteristics of YBCO films. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2011-2012.	0.6	0
95	Vortex confinement in oxygen-deficient Y-Ba-Cu-O films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 865-873.	0.6	0
96	CORRELATION BETWEEN STRUCTURE AND MAGNETIC TRANSPORT MECHANISMS IN YBCO FILMS. International Journal of Modern Physics B, 2000, 14, 2773-2778.	1.0	0
97	EFFECTS OF PINNING ANISOTROPY ON YBCO FILM CURRENT-VOLTAGE CHARACTERISTICS. International Journal of Modern Physics B, 2000, 14, 2803-2808.	1.0	0
98	HTc dc SQUID Magnetometers. International Journal of Modern Physics B, 2000, 14, 3086-3091.	1.0	0
99	Vortex confinement in oxygen-deficient Y-Ba-Cu-O films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 865-873.	0.6	0
100	Raman spectroscopy on dentin/resin interface of lased and unlased dental samples. , 2003, 4950, 64.		0
101	Micro-Raman spectroscopy and E-SEM analysis of hybrid layer at the dentine/resin interface of three different composite restorative resins. , 2006, 6137, 119.		0
102	Artificial chessboard like textured YBCO films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 766-767.	0.6	0
103	Wavelet data analysis of micro-Raman spectra for follow-up monitoring in oral pathologies. Proceedings of SPIE, 2008, , .	0.8	0
104	Micro-Raman spectroscopy of tissue samples for oral pathology follow-up monitoring. , 2010, , .		0
105	Micro-Raman Spectroscopy and Univariate Correlation Analysis for Medical Diagnosis. , 2010, , .		0
106	Terahertz pulse driven Josephson junctions. Physica C: Superconductivity and Its Applications, 2011, 471, 493-496.	0.6	0
107	Synthesis of carbon nanotubes by defluorination of PTFE with silicon. Advances in Polymer Technology, 2012, 31, 246-251.	0.8	0
108	Interaction of X-Ray Photons With Abrikosov Vortices in Josephson Tunnel Junctions With a Bulk Niobium Base Electrode. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	0

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109	Fabrication and Characterization of Fe(Se,Te) Josephson Devices and Nanostrips. , 2017, , .		0
110	Micro Sensing of pH Levels in Biological Samples by Graphene-Based Raman Spectroscopy. Proceedings (mdpi), 2017, 2, .	0.2	0
111	A Preliminary Investigation on Human Tears by Means of Surface Enhanced Raman Spectroscopy. Proceedings (mdpi), 2018, 4, .	0.2	0
112	THERMAL AND QUANTUM NOISE IN OVERDAMPED JOSEPHSON JUNCTIONS. , 1986, , 289-292.		0
113	Some Aspects in the Tunneling Behavior of Photosensitive Junctions. Springer Proceedings in Physics, 1992, , 237-239.	0.1	0
114	Monitoring x-rays exposed and unexposed cell culture media by means of surface-enhanced Raman spectroscopy. , 2019, , .		0