Gianni Barucca

List of Publications by Year in descending order

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218592 243529 2,487 127 26 h-index citations papers

g-index 127 127 127 2880 docs citations times ranked citing authors all docs

44

#	Article	IF	CITATIONS
1	Structural details and magnetic order ofLa1â^'xSrxCoO3(x<~0.3). Physical Review B, 1999, 59, 1068-1078.	1.1	321
2	Structure evolution of a WE43 Mg alloy submitted to different thermal treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 479, 37-44.	2.6	116
3	Structural characterization of biomedical Co–Cr–Mo components produced by direct metal laser sintering. Materials Science and Engineering C, 2015, 48, 263-269.	3.8	110
4	Comparative toxicity of CuO nanoparticles and CuSO4 in rainbow trout. Ecotoxicology and Environmental Safety, 2013, 97, 40-46.	2.9	87
5	Effects of thermal treatments on microstructure and mechanical properties of a Co–Cr–Mo–W biomedical alloy produced by laser sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 106-117.	1.5	86
6	Formation and evolution of the hardening precipitates in a Mg–Y–Nd alloy. Acta Materialia, 2011, 59, 4151-4158.	3.8	85
7	Normal and anomalous codeposition of Zn–Ni alloys from chloride bath. Journal of Applied Electrochemistry, 2000, 30, 173-179.	1.5	83
8	Modified TiO2 particles differentially affect human skin fibroblasts exposed to UVA light. Free Radical Biology and Medicine, 2010, 49, 408-415.	1.3	61
9	Effects of copper doping in MgB2 superconductor. Solid State Communications, 2002, 121, 497-500.	0.9	47
10	Hardening nanostructures in an AlZnMg alloy. Philosophical Magazine, 2007, 87, 3297-3323.	0.7	44
11	Designing new ferrite/manganite nanocomposites. Nanoscale, 2016, 8, 2081-2089.	2.8	43
12	A novel thermal treatment on a Mg–4.2Y–2.3Nd–0.6Zr (WE43) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 494, 445-448.	2.6	42
13	Transformation of industrial and organic waste into titanium doped activated carbon – cellulose nanocomposite for rapid removal of organic pollutants. Journal of Hazardous Materials, 2022, 423, 126958.	6.5	40
14	Effects of build orientation and element partitioning on microstructure and mechanical properties of biomedical Ti-6Al-4V alloy produced by laser sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 1-9.	1.5	39
15	Flexible Magnetoreceptor with Tunable Intrinsic Logic for Onâ€Skin Touchless Humanâ€Machine Interfaces. Advanced Functional Materials, 2021, 31, 2101089.	7.8	38
16	Phase separation as origin of the magnetic anomalies in La0.85Sr0.15CoO3. Journal of Applied Physics, 2001, 89, 5606-5609.	1.1	36
17	Title is missing!. Journal of Applied Electrochemistry, 1999, 29, 637-645.	1.5	35
18	Biomedical Co-Cr-Mo Components Produced by Direct Metal Laser Sintering 1. Materials Today: Proceedings, 2016, 3, 889-897.	0.9	33

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19	Tuning the Magnetic Properties of Hard–Soft SrFe ₁₂ O ₁₉ /CoFe ₂ O ₄ Nanostructures via Composition/Interphase Coupling. Journal of Physical Chemistry C, 2021, 125, 5927-5936.	1.5	33
20	Characterization of C-N thin films deposited by reactive excimer laser ablation of graphite targets in nitrogen atmosphere. Thin Solid Films, 1997, 307, 54-59.	0.8	32
21	DNA damage and repair following <i>In vitro</i> exposure to two different forms of titanium dioxide nanoparticles on trout erythrocyte. Environmental Toxicology, 2014, 29, 117-127.	2.1	32
22	Nb clusters formation in Nb-doped magnesium hydride. Applied Physics Letters, 2005, 87, 061904.	1.5	31
23	Characterization and Optimization of Level Measurement by an Ultrasonic Sensor System. IEEE Sensors Journal, 2019, 19, 3077-3084.	2.4	29
24	Carbon nitride films deposited by reactive laser ablation. Applied Surface Science, 1998, 127-129, 481-485.	3.1	28
25	Mechanism of magnetic heating in Mn-doped magnetite nanoparticles and the role of intertwined structural and magnetic properties. Nanoscale, 2019, 11, 10896-10910.	2.8	27
26	Precision resonance energy scans with the PANDA experiment at FAIR. European Physical Journal A, 2019, 55, 1.	1.0	27
27	Encapsulation of vitamin B12 into nanoengineered capsules and soft matter nanosystems for targeted delivery. Colloids and Surfaces B: Biointerfaces, 2019, 182, 110366.	2.5	26
28	Tunable single-phase magnetic behavior in chemically synthesized AFeO ₃ â€"MFe ₂ O ₄ (A = Bi or La, M = Co or Ni) nanocomposites. Nanoscale, 2018, 10, 22990-23000.	2.8	25
29	Effects of annealing on the microstructure of yttria-stabilised zirconia thin films deposited by laser ablation. Thin Solid Films, 2005, 478, 125-131.	0.8	23
30	Phase transformations in QE22 Mg alloy. Acta Materialia, 2009, 57, 4416-4425.	3.8	23
31	Symbiotic, low-temperature, and scalable synthesis of bi-magnetic complex oxide nanocomposites. Nanoscale Advances, 2020, 2, 851-859.	2.2	22
32	Controlling magnetic coupling in bi-magnetic nanocomposites. Nanoscale, 2019, 11, 14256-14265.	2.8	21
33	Synthesis of nanogranular Fe ₃ O ₄ /biomimetic hydroxyapatite for potential applications in nanomedicine: structural and magnetic characterization. Materials Research Express, 2015, 2, 065002.	0.8	20
34	Electron microscopy characterization of Alî—,Sn metalâ€"metal matrix composites. Journal of Alloys and Compounds, 1994, 215, 309-313.	2.8	19
35	Giant magneto-optical response in H ⁺ irradiated Zn _{1â^'x} Co _x O thin films. Journal of Materials Chemistry C, 2019, 7, 78-85.	2.7	19
36	Novel mixed precursor approach to prepare multiferroic nanocomposites with enhanced interfacial coupling. Journal of Magnetism and Magnetic Materials, 2020, 511, 166792.	1.0	19

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37	Spinel Iron Oxide by the Co-Precipitation Method: Effect of the Reaction Atmosphere. Applied Sciences (Switzerland), 2021, 11, 5433.	1.3	19
38	New carbon nitride phase coherently grown on Si(111). Journal of Applied Physics, 1999, 86, 2014-2019.	1.1	18
39	Phase separation, thermal history and magnetic behaviour of Sr doped LaCoO3. Journal of Physics Condensed Matter, 2000, 12, 9761-9770.	0.7	18
40	Structure evolution of EV31 Mg alloy. Journal of Alloys and Compounds, 2008, 463, 200-206.	2.8	18
41	Magnetic exchange coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>IrMn</mml:mi><mml:mo>/<td>l:maxk mm</td><td>ıl:mı&NiFe</td></mml:mo></mml:mrow></mml:math>	l:maxk mm	ıl:m ı &NiFe
42	Structural, mechanical and light yield characterisation of heat treated LYSO:Ce single crystals for medical imaging applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 785, 110-116.	0.7	18
43	Growth and characterization of SiC layers obtained by microwave-CVD. Thin Solid Films, 2001, 383, 169-171.	0.8	17
44	Towards bi-magnetic nanocomposites as permanent magnets through the optimization of the synthesis and magnetic properties of SrFe ₁₂ O ₁₉ nanocrystallites. Journal Physics D: Applied Physics, 2021, 54, 124004.	1.3	17
45	Precipitates formation and evolution in a Co-based alloy produced by powder bed fusion. Journal of Alloys and Compounds, 2019, 797, 652-658.	2.8	16
46	Encapsulation of a Neutral Molecule into a Cationic Clay Material: Structural Insight and Cytotoxicity of Resveratrol/Layered Double Hydroxide/BSA Nanocomposites. Nanomaterials, 2020, 10, 33.	1.9	16
47	Wavy graphene sheets from electrochemical sewing of corannulene. Chemical Science, 2021, 12, 8048-8057.	3.7	15
48	Easy plasma nano-texturing of PTFE surface: From pyramid to unusual spherules-on-pyramid features. Applied Surface Science, 2019, 483, 60-68.	3.1	14
49	Large area microcrystalline silicon films grown by ECR-CVD. Thin Solid Films, 2001, 383, 181-184.	0.8	13
50	Polycrystalline SiC growth and characterization. Applied Surface Science, 2004, 238, 331-335.	3.1	13
51	Microstructure analysis on polycrystalline 3C–SiC thin films. Diamond and Related Materials, 2005, 14, 1134-1137.	1.8	13
52	Hydrogen storage properties of Pd-doped thermally oxidized single wall carbon nanohorns. Journal of Alloys and Compounds, 2015, 645, S485-S489.	2.8	13
53	L10-FeNi films on Au-Cu-Ni buffer-layer: a high-throughput combinatorial study. Scientific Reports, 2018, 8, 15919.	1.6	13
54	The addition of silver affects the deformation mechanism of a twinning-induced plasticity steel: Potential for thinner degradable stents. Acta Biomaterialia, 2019, 98, 103-113.	4.1	13

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55	Highly Textured FeCo Thin Films Deposited by Low Temperature Pulsed Laser Deposition. ACS Applied Materials & Samp; Interfaces, 2015, 7, 22341-22347.	4.0	12
56	Co/Pd-Based synthetic antiferromagnetic thin films on Au/resist underlayers: towards biomedical applications. Nanoscale, 2019, 11, 21891-21899.	2.8	12
57	Intermixing at interfaces of Fe/W multilayers. Materials Science and Engineering C, 2002, 19, 139-143.	3.8	11
58	Excimer pulsed laser deposition and annealing of YSZ nanometric films on Si substrates. Applied Surface Science, 2005, 248, 270-275.	3.1	11
59	Plasma deposited Pt-containing hydrocarbon thin films as electrocatalysts for PEM fuel cell. Journal of Materials Chemistry, 2010, 20, 10224.	6.7	11
60	Study of microstructure and magnetization reversal mechanism inÂgranular CoCrPt:SiO2 films of variable thickness. Materials Chemistry and Physics, 2013, 141, 790-796.	2.0	11
61	Magnetic anisotropy phase-graded A1/L1 0 -FePt films on amorphous glass substrates. Materials and Design, 2017, 123, 147-153.	3.3	11
62	A new micromechanical approach for the preparation of graphene nanoplatelets deposited on polyethylene. Nanotechnology, 2017, 28, 194001.	1.3	11
63	LaFeO3-CoFe2O4 bi-magnetic composite thin films prepared using an all-in-one synthesis technique. Journal of Magnetism and Magnetic Materials, 2020, 503, 166622.	1.0	11
64	Exploring the magnetic properties and magnetic coupling in SrFe12O19/Co1-xZnxFe2O4 nanocomposites. Journal of Magnetism and Magnetic Materials, 2021, 535, 168095.	1.0	11
65	Complex correlations between microstructure and magnetic behavior in SrFe12O19 hexaferrite nanoparticles. Scientific Reports, 2021, 11, 23307.	1.6	11
66	Si/SiGe modulation-doped heterostructures grown on silicon-on-insulator substrates for high-mobility two-dimensional electron gases. Applied Physics Letters, 2001, 79, 2031-2033.	1.5	10
67	Structure modification of Mg–Nb films under hydrogen sorption cycles. Journal of Alloys and Compounds, 2011, 509, S572-S575.	2.8	10
68	Thick pure Ge films for photodetectors. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 1754.	1.6	9
69	Heteroepitaxy of 3C–SiC by electron cyclotron resonance-CVD technique. Applied Surface Science, 2001, 184, 43-49.	3.1	9
70	Characterization of polycrystalline SiC layers grown by ECR-PECVD for micro-electro-mechanical systems. Thin Solid Films, 2003, 427, 187-190.	0.8	9
71	On the "Growth―of Nano-Structures on c-Silicon via Self-Masked Plasma Etching Processes. Plasma Processes and Polymers, 2013, 10, 843-849.	1.6	9
72	On the formation of nanocapsules in aerosolâ€assisted atmosphericâ€pressure plasma. Plasma Processes and Polymers, 2019, 16, 1900116.	1.6	9

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73	Perpendicularly magnetized Co/Pd-based magneto-resistive heterostructures on flexible substrates. Nanoscale Advances, 2021, 3, 3076-3084.	2.2	9
74	Deposition of microcrystalline silicon–carbon alloys in low power regime. Journal of Non-Crystalline Solids, 2004, 338-340, 163-167.	1.5	8
75	Quality Control and Structural Assessment of Anisotropic Scintillating Crystals. Crystals, 2019, 9, 376.	1.0	8
76	Influence of the Thermomechanical Characteristics of Low-Density Polyethylene Substrates on the Thermoresistive Properties of Graphite Nanoplatelet Coatings. Coatings, 2021, 11, 332.	1.2	8
77	Disclosing the Nature of Asymmetric Interface Magnetism in Co/Pt Multilayers. ACS Applied Materials & Amp; Interfaces, 2022, 14, 12766-12776.	4.0	8
78	a-SiN:H multilayer versus bulk structure: a real improvement of radiative efficiency?. Journal of Non-Crystalline Solids, 2000, 266-269, 1062-1066.	1.5	7
79	Focused ion beam surface treatments of single crystal zinc oxide for device fabrication. Materials and Design, 2016, 112, 530-538.	3.3	7
80	Exchange bias properties of 140 nm-sized dipolarly interacting circular dots with ultrafine IrMn and NiFe layers. Journal of Magnetism and Magnetic Materials, 2016, 400, 242-247.	1.0	7
81	Optical and electrical characterizations of graphene nanoplatelet coatings on low density polyethylene. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	0.6	7
82	Solid-State Phase Transformations in Thermally Treated Ti–6Al–4V Alloy Fabricated via Laser Powder Bed Fusion. Materials, 2019, 12, 2876.	1.3	7
83	Thermoresistive Properties of Graphite Platelet Films Supported by Different Substrates. Materials, 2019, 12, 3638.	1.3	7
84	Crystallisation of perovskite PZT films on MgO substrates. Thin Solid Films, 1998, 319, 207-210.	0.8	6
85	Intermixing in immiscible Co/Ag/Co trilayers under XeCl laser annealing. Thin Solid Films, 1999, 343-344, 206-209.	0.8	6
86	Characterization of silicon carbide thin films grown on Si and SiO2/Si substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 114-115, 279-283.	1.7	6
87	Morphological and structural characterizations of CrSi2 nanometric films deposited by laser ablation. Applied Surface Science, 2007, 254, 1224-1227.	3.1	6
88	Cross-Contamination Quantification in Powders for Additive Manufacturing: A Study on Ti-6Al-4V and Maraging Steel. Materials, 2019, 12, 2342.	1.3	6
89	Dipolar Magnetic Interactions in Mn-Doped Magnetite Nanoparticles Loaded into PLGA Nanocapsules for Nanomedicine Applications. Journal of Physical Chemistry C, 2019, 123, 30007-30020.	1.5	6
90	Combined Bottom-Up and Top-Down Approach for Highly Ordered One-Dimensional Composite Nanostructures for Spin Insulatronics. ACS Applied Materials & Samp; Interfaces, 2021, 13, 37500-37509.	4.0	6

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91	Optical and structural properties of SiC layers grown by an electron cyclotron resonance CVD technique. Diamond and Related Materials, 2001, 10, 1264-1267.	1.8	5
92	Monoclinic carbon nitride phase coherently grown on Si (001) substrates. Journal of Applied Physics, 2001, 89, 3494-3497.	1.1	5
93	New insights on amorphous silicon-nitride microcavities. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 591-595.	1.3	5
94	Single Step Plasma Deposition of Platinumâ€Fluorocarbon Nanocomposite Films as Electrocatalysts of Interest for Micro Fuel Cells Technology. Plasma Processes and Polymers, 2014, 11, 1068-1075.	1.6	5
95	Ledge-type Co/L1-FePt exchange-coupled composites. Journal of Applied Physics, 2016, 119, .	1.1	5
96	Surface modification of L605 by oxygen plasma immersion ion implantation for biomedical applications. MRS Communications, 2018, 8, 1404-1412.	0.8	5
97	Graphite platelet films deposited by spray technique on low density polyethylene substrates. Materials Today: Proceedings, 2020, 20, 87-90.	0.9	5
98	The potential of $\$$ varLambda $\$$ and $\$$ varXi $^-$ - $\$$ studies with PANDA at FAIR. European Physical Journal A, 2021, 57, 1.	1.0	5
99	Hybrid Spinel Iron Oxide Nanoarchitecture Combining Crystalline and Amorphous Parent Material. Journal of Physical Chemistry C, 2021, 125, 10611-10620.	1.5	5
100	MICROSTRUCTURES OF SPUTTERED ORIENTED Si/CeO2 BILAYERsÂYBa2Cu3O7-Î'/Si INTEGRATED MICROELECTRONICS. International Journal of Modern Physics B, 2003, 17, 848-854.	1.0	4
101	Structural and magnetic properties of exchange-spring FeTaN/FeSm/FeTaN multilayers. Surface Science, 2004, 566-568, 285-290.	0.8	4
102	Glassy Magnetic Behavior and Correlation Length in Nanogranular Fe-Oxide and Au/Fe-Oxide Samples. Materials, 2019, 12, 3958.	1.3	4
103	Magnetic Nanoparticles Coated with $(\langle i\rangle R\langle i\rangle)$ -9-Acetoxystearic Acid for Biomedical Applications. ACS Omega, 2020, 5, 12707-12715.	1.6	4
104	<title>Laser reactive ablation deposition of carbon nitride thin films</title> ., 1996, 2789, 293.		3
105	Strain relaxation through islands formation in epitaxial SiGe thin films. Applied Surface Science, 1996, 102, 73-77.	3.1	3
106	Zn nanoparticle formation in FIB irradiated single crystal ZnO. Applied Surface Science, 2018, 433, 899-903.	3.1	3
107	Laser Powder Bed Fusion: tailoring the microstructure of alloys for biomedical applications. Materials Today: Proceedings, 2019, 19, 24-32.	0.9	3
108	Powder Bed Fusion of Biomedical Co-Cr-Mo and Ti-6Al-4V Alloys: Microstructure and Mechanical Properties. Advanced Materials Research, 2019, 1151, 3-7.	0.3	3

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109	Photoluminescence investigation of short period silicon–germanium heterostructures grown using molecular beam epitaxy. Surface Science, 1999, 437, 145-153.	0.8	2
110	Electrical properties of high-mobility two-dimensional electron gases in Si/SiGe modulation-doped heterostructures grown on silicon-on-insulator substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 346-349.	1.7	2
111	Magnesium growth in magnesium deuteride thin films during deuterium desorption. Journal of Alloys and Compounds, 2013, 580, S29-S32.	2.8	2
112	Kinetic behaviour of a metal-polymer composite suitable for hydrogen storage applications. International Journal of Nanotechnology, 2014, $11,829$.	0.1	2
113	Titanium Carbide Films Deposited by Laser Reactive Ablation. Materials Research Society Symposia Proceedings, 1994, 337, 577.	0.1	1
114	Effects of cobalt thin films on the a-Si crystallisation induced by excimer laser irradiation. Applied Surface Science, 1999, 138-139, 145-149.	3.1	1
115	Strain-driven morphology of Si1â^'xGex islands grown on Si(100). Micron, 2000, 31, 315-321.	1.1	1
116	Effect of oxygen post-annealing on the magnetoresistance of highly epitaxial La0.7Ca0.3MnO3 thin films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1501-E1502.	1.0	1
117	Structural and Electrical Characterizations of Polymer-Supported Graphene Fabricated by Graphite Nanoplatelets., 2016,,.		1
118	Investigation of magnetic coupling in FePt/spacer/FePt trilayers. Journal Physics D: Applied Physics, 2017, 50, 445002.	1.3	1
119	Synthesis of Ti2N-TiSi2 Layers by One-Step Excimer Laser Irradiation. Materials Research Society Symposia Proceedings, 1992, 279, 679.	0.1	0
120	<title>Parametric study of C-N films deposited by reactive laser ablation</title> ., 1997,,.		0
121	Short period (Si6Ge4)p superlattices: photoluminescence and electron microscopy study. Journal of Luminescence, 1998, 80, 509-513.	1.5	0
122	Structural Properties of 3C-SiC Layers Grown on Si Substrates by Electron Cyclotron Resonance CVD Technique. Materials Research Society Symposia Proceedings, 2000, 640, 1.	0.1	0
123	<title>Carbon nitride coherently grown on Si (111) substrates by pulsed laser irradiation</title> ., 2000, 4070, 262.		0
124	<title>Parametric studies of carbon nitride thin films deposited by reactive pulsed laser ablation</title> ., 2000, 4070, 220.		0
125	Microstructural Characterization of Thin Films Obtained by Laser Irradiation. Microscopy Microanalysis Microstructures, 1995, 6, 685-692.	0.4	0
126	Physics of Matter: From the Nanoscale Structure to the Macroscopic Properties of Materials. , 2019, , 207-221.		0

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127	Structural and Electrical Properties of Graphite Platelet Films Deposited on Low-Density Polyethylene Substrate. Materials Proceedings, 2020, 4, .	0.2	0