Elena Bartolome

List of Publications by Year
in descending order

86 papers	1,113 citations	394421 19 h-index	477307 29 g-index
88 all docs	88 docs citations	88 times ranked	1337 citing authors

#	Article	IF	Citations
1	Failure mode and effect analysis (FMEA) to improve collaborative project-based learning: Case study of a Study and Research Path in mechanical engineering. International Journal of Mechanical Engineering Education, 2022, 50, 291-325.	1.0	7
2	Study and Research Path for Learning General Chemistry: Analyzing the Quality of Drinking Water. Journal of Chemical Education, 2022, 99, 1255-1265.	2.3	3
3	Towards large area surface functionalization with luminescent and magnetic lanthanoid complexes. Inorganic Chemistry Frontiers, 2022, 9, 4160-4170.	6.0	3
4	Deployment of Study and Research Paths in Mechanical Engineering. Trends in Mathematics, 2021, , 169-175.	0.1	0
5	A Multifunctional Dysprosiumâ€Carboxylato 2D Metallâ€“Organic Framework. Angewandte Chemie, 2021, 133, 12108-12113.	2.0	0
6	A Multifunctional Dysprosiumâ€Carboxylato 2D Metallâ€“Organic Framework. Angewandte Chemie - International Edition, 2021, 60, 12001-12006.	13.8	27
7	Dimeric SMM Rungs. Molecules, 2021, 26, 5626.	3.8	3
8	Luminescent and Magnetic Tb-MOF Flakes Deposited on Silicon. Molecules, 2021, 26, 5503.	3.8	6
9	Study and Research Paths to Improve Web-Based Inquiry Learning: Study Case of an ICT Course in Engineering. Education Sciences, 2021, 11, 772.	2.6	2
10	â€˜Study and Research Pathâ€™ multi-approach learning of Theory of Machines and Mechanisms. European Journal of Engineering Education, 2020, 45, 985-1001.	2.3	3
11	Coumarin-lanthanide based compounds with SMM behavior and high quantum yield luminescence. Dalton Transactions, 2020, 49, 13671-13684.	3.3	15
12	Vortex pinning properties at dc and microwave frequencies of YBa2Cu3O7-x films with nanorods and nanoparticles. Superconductor Science and Technology, 2020, 33, 074006.	3.5	7
13	Enhanced Magnetism through Oxygenation of FePc/Ag(110) Monolayer Phases. Journal of Physical Chemistry C, 2020, 124, 13993-14006.	3.1	4
14	Embedded Magnetism in YBa₂Cu₃O₇ Associated with Cuâ€“O Vacancies within Nanoscale Intergrowths: Implications for Superconducting Current Performance. ACS Applied Nano Materials, 2020, 3, 3050-3059.	5.0	5
15	Intrinsic anisotropy and pinning anisotropy in nanostructured YBa₂Cu₃O_{7âˆ’<i>Î´</i>} from microwave measurements. Superconductor Science and Technology, 2020, 33, 044017.	3.5	14
16	An Atomic-Scale Perspective of the Challenging Microstructure of YBa2Cu3O7âˆ’x Thin Films. , 2020, , 189-212.		2
17	A â€˜study and research pathâ€™ enriching the learning of mechanical engineering. European Journal of Engineering Education, 2019, 44, 330-346.	2.3	12
18	Intrinsic anisotropy versus effective pinning anisotropy in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YB</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> thin f	3.2	11

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19	High relaxation barrier in neodymium furoate-based field-induced SMMs. Dalton Transactions, 2019, 48, 15386-15396.	3.3	9
20	Slow relaxation in a {Tb2Ba(Î±-fur)8}n polymer with Ln = Tb(iii) non-Kramers ions. Dalton Transactions, 2019, 48, 5022-5034.	3.3	4
21	Heteronuclear {Tb_xEu_{1â^'x}} furoate 1D polymers presenting luminescent properties and SMM behavior. Journal of Materials Chemistry C, 2018, 6, 5286-5299.	5.5	19
22	Chemical tunnel-splitting-engineering in a dysprosium-based molecular nanomagnet. Nature Communications, 2018, 9, 1292.	12.8	81
23	Magnetic Anisotropy Switch: Easy Axis to Easy Plane Conversion and Vice Versa. Advanced Functional Materials, 2018, 28, 1801846.	14.9	31
24	Inkjet Printing Multideposited YBCO on CGO/LMO/MgO/Y2O3/Al2 O3/Hastelloy Tape for 2G-Coated Conductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	6
25	ABS 3D printed solutions for cryogenic applications. Cryogenics, 2017, 82, 30-37.	1.7	35
26	Hybrid YBa₂Cu₃O₇ Superconductingâ€"Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. Advanced Electronic Materials, 2017, 3, 1700037.	5.1	13
27	Slow magnetic relaxation in a dimeric Mn₂Ca₂ complex enabled by the large Mn(<scp>iii</scp>) rhombicity. Dalton Transactions, 2017, 46, 720-732.	3.3	12
28	Magnetic Relaxation of Lanthanide-Based Molecular Magnets. Handbook of Magnetic Materials, 2017, 26, 1-289.	0.6	14
29	Antiferromagnetic single-chain magnet slow relaxation in the {Tb(Î±-fur)₃}_n polymer with non-Kramers ions. Journal of Materials Chemistry C, 2016, 4, 5038-5050.	5.5	18
30	Emerging Diluted Ferromagnetism in Highâ€‹<i>T</i>_c Superconductors Driven by Point Defect Clusters. Advanced Science, 2016, 3, 1500295.	11.2	41
31	Magnetic stability against calcining of microwave-synthesized CoFe₂O₄ nanoparticles. New Journal of Chemistry, 2016, 40, 6890-6898.	2.8	16
32	Preparation and properties of a calcium(<scp>ii</scp>)-based molecular chain decorated with manganese(<scp>ii</scp>) butterfly-like complexes. Dalton Transactions, 2014, 43, 13349-13357.	3.3	36
33	Structural and magnetic properties of some lanthanide (Ln = Eu(<scp>iii</scp>), Gd(<scp>iii</scp>) and) Tj ETQq1 1 0.784314 rgBT /Ov substitutions. Dalton Transactions, 2014, 43, 12342-12356.	3.3	84
34	Vortex creep in TFAâ€"YBCO nanocomposite films. Superconductor Science and Technology, 2014, 27, 115008.	3.5	15
35	Magnetic relaxation versus 3D long-range ordering in {Dy₂Ba(Î±-fur)₈}_nfuroate polymers. Dalton Transactions, 2014, 43, 10999-11013.	3.3	14
36	Magnetic and structural characterization of inkjet-printed^{TFA}YBa₂Cu₃O_{7â^'<i>x</i>}/^{MOD}CZO/^{ABAD} coated conductors. Superconductor Science and Technology, 2013, 26, 125004.	3.5	17

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37	{Dy(Î±-fur)3}n: from double relaxation single-ion magnet behavior to 3D ordering. Dalton Transactions, 2013, 42, 10153.	3.3	40
38	Nanostrain induced pinning in YBa₂Cu₃O_{7â^'<i>x</i>}nanocomposites even close to the irreversibility line. Superconductor Science and Technology, 2012, 25, 122001.	3.5	10
39	Magnetic properties of the seven-coordinated nanoporous framework material Co(bpy)_{1.5}(NO₃)₂ (bpy = 4,4â€²-bipyridine). Dalton Transactions, 2012, 41, 10382-10389.	3.3	21
40	Vortex Dynamics in Nanostructured TFA-Grown YBCO Films Studied by Ac Susceptibility. IEEE Transactions on Applied Superconductivity, 2011, 21, 3189-3191.	1.7	2
41	Isotropic and anisotropic pinning in TFA-grown YBa₂Cu₃O_{7 â^'<i>x</i>}films with BaZrO₃nanoparticles. Superconductor Science and Technology, 2011, 24, 125010.	3.5	31
42	Nano-mechanical properties of silver-welded YBCO bulks. Journal of Physics: Conference Series, 2010, 234, 012034.	0.4	1
43	Vortex oscillations in TFA-grown YBCO thin-films with BZO nanoparticles. Physica C: Superconductivity and Its Applications, 2010, 470, 2033-2039.	1.2	6
44	Effective silver-assisted welding of YBCO blocks: mechanical versus electrical properties. Superconductor Science and Technology, 2010, 23, 045013.	3.5	9
45	Vortex dynamics at high ac amplitudes of trifluoracetate route grown<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2010, 81, .	3.2	19
46	AC response of 2Hâ€"NbSe₂single crystals with electron-irradiation-induced defects. Journal of Physics Condensed Matter, 2010, 22, 295702.	1.8	2
47	Magnetic Anisotropy in 2H-NbSe₂ Electron Irradiated Single Crystals. Solid State Phenomena, 2009, 152-153, 470-473.	0.3	2
48	Simulation of dc magnetic effects due to geometrically defined grain boundaries in type-II superconductors. Physica C: Superconductivity and Its Applications, 2008, 468, 492-497.	1.2	1
49	Vortex pinning regimes in YBa2Cu3O7â^'xbulk boundaries investigated by quantitative magnetic Hall microscopy. Superconductor Science and Technology, 2008, 21, 125002.	3.5	7
50	Low-power superconducting motors. Superconductor Science and Technology, 2008, 21, 034010.	3.5	22
51	On the magnetic susceptibility of niobium diselenide. Low Temperature Physics, 2008, 34, 642-644.	0.6	3
52	Universal correlation between critical current density and normal-state resistivity in porous YBa2Cu3O7â^'xthin films. Superconductor Science and Technology, 2007, 20, 895-899.	3.5	12
53	Imaging Current Percolation and Ac Losses in Artificially Granular YBCO Thin Films. IEEE Transactions on Applied Superconductivity, 2007, 17, 3223-3226.	1.7	2
54	Artificial magnetic granularity effects on patterned epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>7</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></	3.2	8

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55	Magnetic properties of a melt-textured YBa2Cu3Ox ring with a perpendicular crack. Applied Physics Letters, 2007, 90, 072501.	3.3	4
56	AC susceptibility of halfâ€“half jointed melt-textured YBCO rings. Physica C: Superconductivity and Its Applications, 2007, 460-462, 770-771.	1.2	1
57	Ac susceptibility of bicrystal-like type-II superconducting films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 787-788.	1.2	3
58	Novel Hall sensors developed for magnetic field imaging systems. Journal of Magnetism and Magnetic Materials, 2007, 316, 232-235.	2.3	3
59	Obtention and characterization of YBCO/Ag/YBCO welds at different misorientation angles. Journal of Physics: Conference Series, 2006, 43, 401-404.	0.4	2
60	Iron-YBCO heterostructures and their application for trapped field superconducting motor. Journal of Physics: Conference Series, 2006, 43, 788-791.	0.4	7
61	In-field magnetic Hall probe microscopy studies of YBa2Cu3O7 based superconductors. Journal of Physics and Chemistry of Solids, 2006, 67, 403-406.	4.0	3
62	ac susceptibility and critical-current densities in sintered YBa2Cu3O7â^'Î´ superconductors. Applied Physics Letters, 2006, 89, 072501.	3.3	23
63	Melting of Agâ€“Y Ba2Cu3O7 interfaces: the path to large area high critical current welds. Superconductor Science and Technology, 2005, 18, S168-S172.	3.5	10
64	Determination of the inter- and intra-granular critical currents in superconducting YBa2Cu3O7welds. Superconductor Science and Technology, 2005, 18, 1227-1232.	3.5	10
65	Transport versus magnetization technique for determination of critical current densities in superconducting tapes with macroscopic defects. Superconductor Science and Technology, 2005, 18, 388-394.	3.5	7
66	Critical current density analysis ofex situMgB2wire by in-field and temperature Hall probe imaging. Superconductor Science and Technology, 2005, 18, 1135-1140.	3.5	5
67	Critical Current Determination of Artificially Welded HTS Samples by In-Field Hall Mapping Technique. IEEE Transactions on Applied Superconductivity, 2005, 15, 3632-3635.	1.7	11
68	Critical State of YBCO Superconductors With Artificially Patterned Holes. IEEE Transactions on Applied Superconductivity, 2005, 15, 2775-2778.	1.7	20
69	Critical state in finite type-II superconducting rings. Physical Review B, 2005, 71, .	3.2	38
70	Magnetization and critical current of finite superconductingYBa2Cu3O7rings. Physical Review B, 2005, 72, .	3.2	13
71	Anomalous ac magnetic susceptibility of high-temperatureYBa2Cu3O7â^'Î´superconductors. Physical Review B, 2005, 72, .	3.2	15
72	High critical current YBa2Cu3O7artificial joints using Ag foils as welding agent. Superconductor Science and Technology, 2004, 17, 182-185.	3.5	26

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73	Critical state in superconducting single-crystallineYBa2Cu3O7foams: Local versus long-range currents. Physical Review B, 2004, 70, .	3.2	31
74	1:30 000 cryogenic current comparator with optimum squid readout. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 621-625.	4.7	18
75	Simplified calculus for the design of a cryogenic current comparator. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 612-616.	4.7	7
76	In-field hall probe mapping system for characterization of YBCO welds. IEEE Transactions on Applied Superconductivity, 2003, 13, 3136-3139.	1.7	23
77	On the sensitivity of cryogenic current comparators: theory and experiments. Metrologia, 2003, 40, 51-56.	1.2	2
78	Characterization of superconducting rings using an in-field hall probe magnetic mapping system. IEEE Transactions on Applied Superconductivity, 2003, 13, 3667-3670.	1.7	23
79	LTS slotted SQUIDs for reduction of 1/f noise. Physica C: Superconductivity and Its Applications, 2002, 372-376, 233-236.	1.2	2
80	Resistance bridge based on the cryogenic current comparator in a transport dewar. IEEE Transactions on Applied Superconductivity, 2001, 11, 867-870.	1.7	2
81	Double-barrier junction based dc SQUID. Physica C: Superconductivity and Its Applications, 2000, 340, 93-100.	1.2	8
82	Accurate measurement of small currents using a CCC with DC SQUID readout. Sensors and Actuators A: Physical, 2000, 85, 54-59.	4.1	4
83	Nearly Quantum-Limited Squids for a Gravitational Wave Antenna. , 1998, , 61-66.		0
84	Towards practical quantum-limited SQUIDs for a gravitational wave antenna. European Physical Journal Special Topics, 1998, 08, Pr3-229-Pr3-232.	0.2	0
85	Simplified calculus for the design of a cryogenic current comparator. , 0, , .		0
86	1:30000 cryogenic current comparator with optimum squid readout. , 0, , .		5