

# Julio Guimpel

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111  
papers

2,087  
citations

23  
h-index

42  
g-index

112  
ext. papers

2,166  
ext. citations

3  
avg, IF

4  
L-index

#	Paper	IF	Citations
111	The role of polarization in the threshold voltage of field effect transistors based on ZnO/MgO. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 163502	3.4	0
110	The influence of thermal annealing on the photoconducting properties of BaSnO3 films. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 132101	3.4	0
109	Oxygen related defects and vacancy clusters identified in sputtering grown UOx thin films by positron annihilation techniques. <i>Results in Physics</i> , <b>2021</b> , 27, 104513	3.7	0
108	Enhancement of penetration field in vortex matter in mesoscopic superconductors due to Andreev bound states. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
107	Electrical transport properties of FeSe/Fe3O4 bilayers. <i>Materials Today: Proceedings</i> , <b>2019</b> , 14, 18-21	1.4	2
106	Microstructural control of the transport properties of FeSe films grown by sputtering. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 115303	2.5	4
105	Competition between pinning produced by extrinsic random point disorder and superconducting thermal fluctuations in oxygen-deficient GdBa2Cu3Ox coated conductors. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 125015	3.1	1
104	Franz-Keldysh effect in epitaxial ZnO thin films. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 092101	3.4	7
103	Thickness dependence of the superconducting properties of FeMo2N thin films on Si (001) grown by DC sputtering at room temperature. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 204, 48-57	4.4	11
102	Effect of the nitrogen-argon gas mixtures on the superconductivity properties of reactively sputtered molybdenum nitride thin films. <i>Materials Letters</i> , <b>2018</b> , 215, 15-18	3.3	11
101	Systematic analysis of different experimental approaches to measure electronic stopping of very slow hydrogen ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 437, 1-7	1.2	7
100	Synthesis of nanocrystalline FeMoN by thermal annealing of amorphous thin films grown on (100) Si by reactive sputtering at room temperature. <i>Thin Solid Films</i> , <b>2018</b> , 660, 242-246	2.2	7
99	Strong influence of the oxygen stoichiometry on the vortex bundle size and critical current densities of GdBa2Cu3Ox-coated conductors grown by co-evaporation. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 095009	3.1	4
98	Intrinsic pinning by naturally occurring correlated defects in FeSe1-xTex superconductors. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 085010	3.1	5
97	Weak ferromagnetism and superparamagnetic clusters coexistence in YFe1-xCoxO3 (0 ≤ x ≤ 1) perovskites. <i>Materials Research Bulletin</i> , <b>2017</b> , 94, 472-482	5.1	5
96	Characterization of the Nb-B superlattice system. <i>Physica C: Superconductivity and Its Applications</i> , <b>2016</b> , 531, 93-97	1.3	
95	In Plane Vortex Dynamic Anisotropy in the Iron Deficient Fe(1-y)Se Superconductor. <i>Journal of Low Temperature Physics</i> , <b>2015</b> , 179, 9-14	1.3	

94	Band structure effects in the energy loss of low-energy protons and deuterons in thin films of Pt. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 360, 103-110	1.2	9
93	Synthesis and characterization of the new two-dimensional Heisenberg antiferromagnet double perovskite BaLaCuSbO <sub>6</sub> . <i>Dalton Transactions</i> , <b>2015</b> , 44, 10860-6	4.3	6
92	Influence of the Fe Concentration on the Superconducting Properties of Fe <sub>(1-y)</sub> Se. <i>Journal of Low Temperature Physics</i> , <b>2015</b> , 179, 15-20	1.3	3
91	Structures in textured Cu <sub>1-x</sub> Ni shape memory thin films grown by sputtering. <i>Materials Characterization</i> , <b>2014</b> , 96, 256-262	3.9	9
90	Synthesis, structural characterization and magnetic properties of the monoclinic ordered double perovskites BaLaMSbO <sub>6</sub> , with M=Mn, Co and Ni. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 606, 139-148	5.7	16
89	Vortex pinning by intrinsic correlated defects in Fe <sub>1-y</sub> Se. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 507, 012001	0.3	4
88	Bulk-like behavior in the temperature driven martensitic transformation of Cu <sub>1-x</sub> Ni thin films with 2H structure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 591, 263-267	5.7	4
87	Vortex kinks in superconducting films with periodically modulated thickness. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 245701	1.8	3
86	Y[Fe <sub>1-x</sub> Co <sub>x</sub> (CN) <sub>6</sub> ] <sub>4</sub> H <sub>2</sub> O (0 ≤ x ≤ 1) solid solutions: Synthesis, crystal structure, thermal decomposition and spectroscopic and magnetic properties. <i>Journal of Molecular Structure</i> , <b>2012</b> , 1015, 112-117	3.4	7
85	Structural, magnetic and electrical properties of ferromagnetic/ferroelectric multilayers. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 123920	2.5	13
84	Crystal structure refinement, spectroscopic study and magnetic properties of yttrium hexacyanoferrate (III). <i>Journal of Molecular Structure</i> , <b>2011</b> , 1003, 129-133	3.4	16
83	Synthesis and structural characterization of perovskite YFeO <sub>3</sub> by thermal decomposition of a cyano complex precursor, Y[Fe(CN) <sub>6</sub> ] <sub>4</sub> H <sub>2</sub> O. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 103, 889-896	4.1	32
82	Magnetic properties of SrTiO <sub>3</sub> /Pr <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> multilayers. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 072069	0.3	
81	Development and characterization of shape memory Cu <sub>1-x</sub> Ni thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2010</b> , 170, 5-8	3.1	8
80	Metal-insulator transition induced by postdeposition annealing in low doped manganite films. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 033902	2.5	16
79	Experimental evidence of magnetic anisotropy induction by superconductivity in superlattices. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 152508	3.4	3
78	Magnetic state modification induced by superconducting response in ferromagnet/superconductor Nb/Co superlattices. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	16
77	Shape memory effect in thin films of a Cu <sub>1-x</sub> Ni alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 481-482, 426-430	5.3	12

76	Crystalline orientation of BiMnO <sub>3</sub> thin films grown by rf-sputtering. <i>Applied Surface Science</i> , <b>2007</b> , 254, 160-163	6.7	4
75	Hall effect in a GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> perovskite bilayer. <i>Applied Surface Science</i> , <b>2007</b> , 254, 222-224	6.7	5
74	Superconducting behaviour of Nb/Co superlattices. <i>Applied Surface Science</i> , <b>2007</b> , 254, 375-377	6.7	1
73	Growth of GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films on single crystalline substrates of Y <sub>1-x</sub> Pr <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 1377-1378	1.3	
72	Magnetic behaviour of superconductor/ferromagnet metallic and perovskite based superlattices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2007</b> , 4, 4174-4180		
71	Detailed magnetic and structural properties of exchange-biased La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2007</b> , 4, 4181-4187		1
70	Glasslike behavior at the PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> interface. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	1
69	Magnetic behavior of superconductor/ferromagnet superlattices. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	25
68	Magnetotransport Properties in Epitaxial Exchange-Biased La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> /La <sub>1/3</sub> Ca <sub>2/3</sub> MnO <sub>3</sub> Superlattices. <i>IEEE Transactions on Magnetics</i> , <b>2006</b> , 42, 2981-2983		
67	Magnetotransport properties in epitaxial La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> /La <sub>1/3</sub> Ca <sub>2/3</sub> MnO <sub>3</sub> superlattices <b>2006</b> ,		1
66	Comment on "Photoemission study of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> thin films under light illumination". <i>Physical Review Letters</i> , <b>2006</b> , 97, 119701; author reply 119702	7.4	0
65	Characterization of the magnetic properties of a GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> superlattice using off-axis electron holography. <i>Applied Surface Science</i> , <b>2006</b> , 252, 3977-3983	6.7	6
64	Hall effect in superconductors with periodic pinning arrays. <i>Physica C: Superconductivity and Its Applications</i> , <b>2005</b> , 422, 112-116	1.3	5
63	High-resolution transmission electron microscopy study of the interfaces and stacking defects in superconducting/magnetic perovskite superlattices. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 053511	2.5	16
62	Persistent photo-excitation in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> in a simultaneous Raman and electrical-transport experiment. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	9
61	Tuning of the metal-insulator transition in La <sub>0.75</sub> Sr <sub>0.25</sub> MnO <sub>3</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superlattices. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 042509	3.4	10
60	Antiferromagnetism at the YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> interface. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3927-3929	3.4	25
59	Interface Effects in Perovskite Superlattices. <i>Journal of Low Temperature Physics</i> , <b>2004</b> , 135, 115-118	1.3	2

58	Exchange-coupling effect and magnetotransport properties in epitaxial La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> /La <sub>1/3</sub> Ca <sub>2/3</sub> MnO <sub>3</sub> superlattices. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 2343-2346		13
57	Interface disorder and transport properties in HTC/CMR superlattices. <i>Physica C: Superconductivity and Its Applications</i> , <b>2004</b> , 408-410, 896-897	1.3	2
56	Oxygen and disorder effect in the magnetic properties of manganite films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1171-1173	2.8	21
55	Disorder influence on the magnetic properties of La <sub>0.55</sub> Sr <sub>0.45</sub> MnO <sub>3</sub> /SrTiO <sub>3</sub> superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1244-1246	2.8	1
54	Hall effect in La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> thin films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 1836-1838	2.8	2
53	Magnetic coupling and magnetoresistance in La <sub>0.55</sub> Sr <sub>0.45</sub> MnO <sub>3</sub> / La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> multilayers. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 6177-6181	2.5	20
52	Structure of high-T <sub>c</sub> /manganite perovskite superlattices. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 3011-3014	2.5	12
51	Correlation between structure and magnetic properties of manganite-based multilayers. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 7244-7246	2.5	3
50	Metal/insulator manganite multilayers. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 320, 172-174	2.8	2
49	Hysteresis and fractional matching in thin Nb films with rectangular arrays of nanoscaled magnetic dots. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	53
48	Magnetic ordered phase in La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> ferromagnets. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	23
47	Magnetic after-effect in manganite films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 226-230, 847-848	2.8	
46	Magnetic relaxation in bulk and film manganite compounds. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	42
45	Thickness dependence of the properties of La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> thin films. <i>Thin Solid Films</i> , <b>2000</b> , 373, 102-106	3.3	32
44	Thickness effects on the pinning by columnar defects. <i>Physica C: Superconductivity and Its Applications</i> , <b>2000</b> , 341-348, 1217-1218	1.3	
43	Substrate influence on the magnetoresistance and magnetic order in La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2000</b> , 211, 28-34	2.8	36
42	Anomalous proximity effect in underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> josephson junctions. <i>Physical Review Letters</i> , <b>2000</b> , 85, 3708-11	7.4	56
41	Annealing disorder and photoinduced order of oxygen chains in detwinned YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.65</sub> single crystals probed by Raman scattering. <i>Physical Review B</i> , <b>2000</b> , 61, 4298-4304	3.3	20

40	Substrate effect on the magnetic behavior of manganite films. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 6755-6757	27
39	Inducing superconductivity at a nanoscale: photodoping with a near-field scanning optical microscope. <i>Journal of Microscopy</i> , <b>1999</b> , 194, 407-11	1.9 2
38	Photoinduced superconducting nanowires in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.5</sub> films. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 1203-122	6
37	Raman study of photoinduced chain-fragment ordering in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thin films. <i>Physical Review B</i> , <b>1998</b> , 58, 9433-9439	3.3 34
36	Nonconventional short-time dc magnetometer for superconducting films. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 251-254	1.7 5
35	Effect of the reversibility region on the low-temperature vortex structure imaged by Bitter magnetic decoration. <i>Physical Review B</i> , <b>1997</b> , 55, 14610-14613	3.3 10
34	Interrelation between persistent photoconductivity and oxygen order in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> thin films. <i>Physical Review B</i> , <b>1997</b> , 56, 3552-3555	3.3 19
33	Substrate heater design for film deposition in oxidizing atmosphere. <i>Review of Scientific Instruments</i> , <b>1996</b> , 67, 2370-2371	1.7 6
32	Photoinduced enhancement of superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1994</b> , 7, 127-130	4
31	Enhancement of Superconductivity by Photoexcitation <b>1994</b> , 303-312	
30	Photoexcitation effects in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Journal of Alloys and Compounds</i> , <b>1993</b> , 195, 667-670	5.7 6
29	CONNECTION BETWEEN GIANT MAGNETORESISTANCE AND ROUGHNESS IN SPUTTERED Fe/Cr SUPERLATTICES. <i>International Journal of Modern Physics B</i> , <b>1993</b> , 07, 419-424	1.1 2
28	Interface structure in high-T <sub>c</sub> superlattices. <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, A383-A384	1.8 3
27	Thickness dependence of the superconducting transition temperature of YBCO. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1993</b> , 175, 241-245	2.3 20
26	Structure of high-T <sub>c</sub> superlattices. <i>Physical Review Letters</i> , <b>1992</b> , 69, 2859-2862	7.4 59
25	Roughness and giant magnetoresistance in Fe/Cr superlattices. <i>Physical Review Letters</i> , <b>1992</b> , 68, 859-862	7.4 380
24	Synthesis and properties of a-axis and b-axis oriented GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> high T <sub>c</sub> thin films. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 2598-2600	3.4 21
23	Uniaxial pressure dependence of the superconducting critical temperature in RBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> high-T <sub>c</sub> oxides. <i>Physical Review B</i> , <b>1992</b> , 46, 1257-1260	3.3 33

22	High Tc thin films with roughness smaller than one unit cell. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 120-122	3.4	63
21	Photoinduced changes in the transport properties of oxygen-deficient YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> . <i>Physical Review B</i> , <b>1992</b> , 46, 14249-14252	3.3	84
20	Scaling of critical currents in high-temperature superconducting superlattices and thin films. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 3181-3183	3.4	9
19	Effect of uniaxial stress on the superconducting transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physical Review Letters</i> , <b>1992</b> , 69, 2130-2133	7.4	191
18	Photoinduced enhancement of superconductivity. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 2159-2161	3.4	119
17	Scaling of the irreversibility line in a low temperature superconducting oxide. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 175, 197-201	1.3	9
16	Anisotropic pressure dependence of the critical temperature of REBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 1947-1948	1.3	2
15	Disorder and superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> -superlattices. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 2069-2070	1.3	5
14	Changes in the Pr-induced TC depression of 123 compounds by chemical pressure. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 185-189, 561-562	1.3	9
13	Effect of physical and chemical pressure on the superconductivity of high-temperature oxide superconductors. <i>Physical Review B</i> , <b>1991</b> , 44, 7601-7606	3.3	56
12	New buffer layer for high-temperature superconducting ceramics on sapphire: LaBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> /Ag bilayers. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 1245-1247	3.4	9
11	Artificially Layered Superconductors. <i>MRS Bulletin</i> , <b>1990</b> , 15, 29-36	3.2	23
10	Logarithmic-to-nonlogarithmic flux-creep transition and magnetic-flux hardening in Bi-Sr-Ca-Cu-O superconducting ceramics. <i>Physical Review B</i> , <b>1989</b> , 40, 7380-7383	3.3	27
9	Logarithmic to nonlogarithmic flux creep transition and magnetic flux hardening in BiSrCaCuO superconducting ceramics. <i>Physica C: Superconductivity and Its Applications</i> , <b>1989</b> , 162-164, 665-666	1.3	3
8	Meissner fraction in insulating samples of oxide superconductors. <i>Solid State Communications</i> , <b>1989</b> , 72, 341-344	1.6	4
7	Dimensional phase transition in superconductors with short coherence length. <i>Physical Review B</i> , <b>1988</b> , 38, 2342-2344	3.3	49
6	Penetration depth of a superconducting superlattice. <i>Physical Review B</i> , <b>1987</b> , 35, 3655-3656	3.3	20
5	The granular nature of bulk superconductivity at 40K in La <sub>1.8</sub> Sr <sub>0.2</sub> CuO <sub>4</sub> . <i>Solid State Communications</i> , <b>1987</b> , 63, 137-140	1.6	22

4	Size dependence of the superconducting critical temperature and fields of Nb/Al multilayers. <i>Journal of Low Temperature Physics</i> , <b>1986</b> , 63, 151-165	1.3	24
3	Superconducting behavior of amorphous Zr70Cu30. <i>Solid State Communications</i> , <b>1983</b> , 47, 885-887	1.6	5
2	Surface normal regions in superconducting Zr70Cu30 induced by thermal relaxation. <i>Solid State Communications</i> , <b>1983</b> , 48, 1027-1030	1.6	3
1	Electrical resistivity of amorphous Zr70Cu30 and the Kondo like model. <i>Solid State Communications</i> , <b>1982</b> , 44, 1045-1046	1.6	13