

Rosalba Fittipaldi

List of Publications by Year in descending order

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97
all docs

97
docs citations

97
times ranked

1926
citing authors

#	ARTICLE	IF	CITATIONS
1	Colorimetric Immunosensor by Aggregation of Photochemically Functionalized Gold Nanoparticles. ACS Omega, 2018, 3, 3805-3812.	3.5	67
2	Hallmarks of Hund's coupling in the Mott insulator Ca ₂ RuO ₄ . Nature Communications, 2017, 8, 15176.	12.8	66
3	Optical Response of $\text{SrCa}_2\text{Ru}_2\text{O}_{10}$ Universal Fermi-Liquid Scaling and Quasiparticles Beyond Landau Theory. Physical Review Letters, 2014, 113, 087404.	7.8	61
4	Femtosecond laser surface structuring of silicon using optical vortex beams generated by a q-plate. Applied Physics Letters, 2014, 104, .	3.3	58
5	Laser surface texturing of copper and variation of the wetting response with the laser pulse fluence. Applied Surface Science, 2019, 470, 817-824.	6.1	53
6	Laser ablation of silicon induced by a femtosecond optical vortex beam. Optics Letters, 2015, 40, 4611.	3.3	51
7	A new approach for improving global critical current density in Fe _{0.5} Te _{0.5} polycrystalline materials. Superconductor Science and Technology, 2012, 25, 115018.	3.5	48
8	Surface Structuring with Polarization-Singular Femtosecond Laser Beams Generated by a q-plate. Scientific Reports, 2017, 7, 42142.	3.3	48
9	Spin-orbit-induced orbital excitations in $\text{SrCa}_2\text{Ru}_2\text{O}_{10}$ A resonant inelastic x-ray sca. Physical Review B, 2015, 91, .	3.3	46
10	Designing antiphase boundaries by atomic control of heterointerfaces. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9485-9490.	7.1	43
11	Renormalized band structure of Sr ₂ RuO ₄ : A quasiparticle tight-binding approach. Journal of Electron Spectroscopy and Related Phenomena, 2013, 191, 48-53.	1.7	34
12	Spin-Orbital Excitations in $\text{SrCa}_2\text{Ru}_2\text{O}_{10}$ Revealed by Resonant Inelastic X-Ray Scattering. Physical Review X, 2018, 8, .	3.3	33
13	Crystal growth of the new Sr ₂ RuO ₄ –Sr ₃ Ru ₂ O ₇ eutectic system by a floating-zone method. Journal of Crystal Growth, 2005, 282, 152-159.	1.5	32
14	Electronic structure trends in the Sr _n Ca _{n+1} Ru _n O _{3n+1} Physical Review B, 2018, 98, .	3.2	32
15	Surface structures with unconventional patterns and shapes generated by femtosecond structured light fields. Scientific Reports, 2018, 8, 13613.	3.3	32
16	Magnetic anisotropy and orbital ordering in $\text{SrCa}_2\text{Ru}_2\text{O}_{10}$ Physical Review B, 2018, 98, .	3.2	31
17	Direct femtosecond laser ablation of copper with an optical vortex beam. Journal of Applied Physics, 2014, 116, .	2.5	29
18	Long- to short-range magnetic order in fluorine-doped CeFeAsO. Physical Review B, 2011, 84, .	3.2	27

#	ARTICLE	IF	CITATIONS
19	Superconductivity in Sr ₂ RuO ₄ -Sr ₃ Ru ₂ O ₇ eutectic crystals. Europhysics Letters, 2008, 83, 27007.	2.0	26
20	Evidence of double-gap superconductivity in noncentrosymmetric $\text{Nb}_{1-x}\text{Sb}_x\text{O}_2$ crystals. Physical Review B, 2015, 91, .	2.6	26
21	Superconducting properties of Nb thin films deposited on porous silicon templates. Journal of Applied Physics, 2008, 104, 083917.	2.5	25
22	Double metamagnetic transition in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Physical Review B, 2014, 90, .	3.2	22
23	Spin-orbital nature of the high-field magnetic state in the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Physical Review B, 2016, 93, .	3.2	21
24	Simple method for the characterization of intense Laguerre-Gauss vector vortex beams. Applied Physics Letters, 2018, 112, .	3.3	21
25	Emergence of a metallic metastable phase induced by electrical current in Ca_2RuO_4 . Physical Review B, 2019, 100, .	3.2	21
26	Comparative study of initial stages of copper immersion deposition on bulk and porous silicon. Nanoscale Research Letters, 2013, 8, 85.	5.7	20
27	Crystal Growth of a Lamellar $\text{Sr}_3\text{Ru}_2\text{O}_7$ Eutectic System. Crystal Growth and Design, 2007, 7, 2495-2499.	3.2	19
28	Subterahertz electrodynamics of the graphenelike superconductor CaAlSi . Physical Review B, 2008, 77, .	3.0	18
29	Multiple superconducting transitions in the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Physical Review B, 2008, 77, .	3.0	18
30	Neutron diffraction study of triple-layered $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Journal of Physics Condensed Matter, 2013, 25, 056004.	1.8	17
31	Secondary electron yield reduction by femtosecond pulse laser-induced periodic surface structuring. Surfaces and Interfaces, 2021, 25, 101179.	3.0	17
32	Surface and bulk electronic structure of the unconventional superconductor Sr_2RuO_4 : unusual splitting of the I^2 band. New Journal of Physics, 2012, 14, 063039.	2.9	16
33	Correlation between structural and transport properties in epitaxial films of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. Thin Solid Films, 2012, 524, 282-289.	1.8	16
34	Orbitally selective breakdown of Fermi liquid quasiparticles in $\text{Ca}_{1-x}\text{Sb}_x\text{O}_2$. Physical Review B, 2019, 99, .	3.2	16
35	Structural characterization of nanoparticles-assembled titanium dioxide films produced by ultrafast laser ablation and deposition in background oxygen. Applied Surface Science, 2013, 270, 307-311.	6.1	15

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37	Vector vortex beams generated by q-plates as a versatile route to direct fs laser surface structuring. Applied Surface Science, 2019, 471, 1028-1033.	6.1	15
38	Anisotropic optical conductivity of $\text{Sr}_{1-x}\text{La}_x\text{RuO}_4$. Physical Review B, 2008, 78, .	3.2	14
39	^{151}Sm NMR studies of superconductivity in eutectically grown mixed ruthenates. Physical Review B, 2012, 85, .	3.2	14
40	Thermal treatments and evolution of bulk $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ morphology. Physica C: Superconductivity and Its Applications, 2008, 468, 2271-2274.	1.2	13
41	Anisotropic optical conductivity of $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. Physical Review B, 2012, 85, .	3.2	13
42	Optical spectra of $\text{LaMn}_{0.5}\text{Ga}_{0.5}\text{O}_3$: A contribution to the assignment of the electronic transitions in manganites. Physica B: Condensed Matter, 2014, 433, 102-106.	2.7	11
43	Raman phonon spectrum of the Dzyaloshinskii-Moriya helimagnet $\text{Ba}_2\text{CuGe}_2\text{O}_7$. Physical Review B, 2015, 91, .	3.2	11
44	Dilatometric study of the metamagnetic and ferromagnetic phases in the triple-layered $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ system. Physical Review B, 2016, 94, .	3.2	11
45	Magnetic-Field Tunable Intertwined Checkerboard Charge Order and Nematicity in the Surface Layer of Sr_2RuO_4 . Advanced Materials, 2021, 33, e2100593.	21.0	11
46	Unveiling unconventional magnetism at the surface of Sr_2RuO_4 . Nature Communications, 2021, 12, 5792.	12.8	11
47	Laser ablation and deposition of titanium dioxide with ultrashort pulses at 527 nm. Applied Physics B: Lasers and Optics, 2015, 119, 445-452.	2.2	10
48	Missing magnetism in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$: Indication for Antisymmetric Exchange Interaction. Scientific Reports, 2017, 7, 3867.	3.3	10
49	Quasi-particle interference of the van Hove singularity in Sr_2RuO_4 . Npj Quantum Materials, 2021, 6, .	5.2	10
50	Granularity and Linear Flux Dynamics in Sintered $\text{La}_{0.92}\text{Fe}_{0.08}\text{As}$. Journal of Superconductivity and Novel Magnetism, 2009, 22, 609-612.	1.8	8
51	Transport properties in aggregates of Nb nanowires templated by carbon nanotube films. Carbon, 2016, 105, 544-550.	10.3	8
52	Atomic structure of functional interfaces in $\text{Sr}_2\text{RuO}_4/\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectic crystals. Applied Physics Letters, 2009, 95, 142507.	3.3	7
53	Optical investigation of LaMnO_3 thin films: a study of the 2-eV band. European Physical Journal B, 2011, 79, 435-441.	1.5	7
54	Floating zone growth of eutectic $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ crystals. Crystal Research and Technology, 2011, 46, 769-772.	1.3	7

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55	Angle-resolved Photoemission Spectroscopy At Ultra-low Temperatures. Journal of Visualized Experiments, 2012, , .	0.3	7
56	Mechanical Fragility and Tri-Dimensional Crack Structure in NdBaCuO Top Seeded and Multi-Seeded Melt-Textured Samples. IEEE Transactions on Applied Superconductivity, 2005, 15, 3137-3140.	1.7	6
57	Morphological and Structural Study on $GdSr_{2}RuCu_{2}O_{8}$ Melt-Textured Samples. IEEE Transactions on Applied Superconductivity, 2005, 15, 3149-3152.	1.7	6
58	Toward intrinsic functionalities of bilayered ruthenate $Sr_{3}Ru_{2}O_{7}$. Physical Review B, 2009, 80, .	3.2	6
59	Superconductive niobium films coating carbon nanotube fibers. Superconductor Science and Technology, 2014, 27, 115006.	3.5	6
60	X-ray scattering study of interfacial roughness in Nb/PdNi multilayers. Surface Science, 2011, 605, 1791-1796.	1.9	5
61	Effect of double substitution on structural and magnetic properties of $Y_{1-x}Ca_{x}Ba_{2}(Cu_{1-y}Mg_{y})_{3}O_{7}$. Physica C: Superconductivity and Its Applications, 2012, 477, 36-42.	1.2	5
62	Infrared phonon spectrum of the tetragonal helimagnet $Ba_{2}CuGe_{2}O_{7}$. Physical Review B, 2014, 90, .	3.2	5
63	Crystal growth and characterization of the non-centrosymmetric antiferromagnet $Ba_{2}CuGe_{2}O_{7}$. Journal of Crystal Growth, 2014, 404, 223-230.	1.5	5
64	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic $Ba_{2}Cu_{7}O_{9}$. Physical Review B, 2017, 96, .	3.2	5
65	Crystal growth of the $Ca_{2}RuO_{4}$ -Ru metal system by the floating-zone technique. Journal of Alloys and Compounds, 2020, 832, 154890.	5.5	5
66	Structure, morphology and composition of natural junctions of $Sr_{2}RuO_{4}$ - $Sr_{3}Ru_{2}O_{7}$ eutectic crystals. Journal of Physics Condensed Matter, 2009, 21, 254211.	1.8	4
67	Hydrogen-evolving photoanode of TiO_{2} nanoparticles film deposited by a femtosecond laser. International Journal of Hydrogen Energy, 2015, 40, 779-785.	7.1	4
68	Universal size-dependent nonlinear charge transport in single crystals of the Mott insulator $Ca_{2}RuO_{4}$. Npj Quantum Materials, 2021, 6, .	5.2	4
69	Effects of substrate temperature on nanoparticle-assembled Fe films produced by ultrafast pulsed laser deposition. Applied Surface Science, 2012, 258, 9337-9341.	6.1	3
70	Characterization of Thick Film of Copper Electrodeposited for Cryogenic Applications. Journal of the Electrochemical Society, 2014, 161, D540-D545.	2.9	3
71	Femtosecond laser deposition of TiO_{2} nanoparticle-assembled films with embedded CdS nanoparticles. Optoelectronics Letters, 2014, 10, 43-46.	0.8	3
72	Synthesis and characterization of mixed melilite-type oxides. Journal of Crystal Growth, 2017, 457, 128-131.	1.5	3

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73	Fermi surface and kink structures in $\text{Sr}_{1-x}\text{Ru}_x\text{O}_{10}$ revealed by synchrotron-based ARPES. Scientific Reports, 2020, 10, 21062.	3.3	3
74	Resonant inelastic x-ray scattering study of CaO_7 in Sr_2RuO_4 . Physical Review B, 2020, 102, .	3.2	3
75	Magnetic history dependence of the AC susceptibility of $\text{GdSr}_2\text{RuCu}_2\text{O}_z$. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3061-3064.	0.8	2
76	Superconducting behaviour via percolation in Sr_2RuO_4 - $\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectic crystals. Journal of Physics: Conference Series, 2009, 150, 052056.	0.4	2
77	Evidence for the Sr_2RuO_4 intercalations in the $\text{Sr}_3\text{Ru}_2\text{O}_7$ region of the $\text{Sr}_3\text{Ru}_2\text{O}_7$ - Sr_2RuO_4 eutectic system. Journal of Physics: Conference Series, 2009, 150, 052113.	0.4	2
78	Electron backscattering diffraction and X-ray diffraction studies of interface relationships in $\text{Sr}_3\text{Ru}_2\text{O}_7/\text{Sr}_2\text{RuO}_4$ eutectic crystals. Micron, 2011, 42, 324-329.	2.2	2
79	The influence of doping with Ca and Mg in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ ceramic. EPJ Web of Conferences, 2012, 29, 00003.	0.3	2
80	Publisher's Note: Spin-orbit-induced orbital excitations in Sr_2RuO_4 and Ca_2RuO_4 : A resonant inelastic x-ray scattering study [Phys. Rev. B 91, 155104 (2015)]. Physical Review B, 2015, 91, .	3.2	2
81	Phase diagram of H-T in Sr_2RuO_4 . Physical Review B, 2015, 91, .	2.7	2
82	Effect of different atmospheres on the synthesis of $\text{Ba}_2\text{CuGe}_2\text{O}_7$ single crystals. European Physical Journal: Special Topics, 2019, 228, 703-712.	2.6	2
83	Coherent growth of oxide films on a cleaved layered metal oxide substrate. Physical Review Materials, 2018, 2, .	2.4	2
84	Upper Critical Field and Irreversibility Line in $\text{Bi}_2\text{Sr}_2\text{CuO}_6$ - CaCuO_2 Superconducting Superlattices Obtained by MBE. International Journal of Modern Physics B, 2000, 14, 2767-2772.	2.0	1
85	Morphological and structural characterization of $\text{GdSr}_2\text{RuCu}_2\text{O}_8$ thin film. Journal of Physics and Chemistry of Solids, 2006, 67, 613-615.	4.0	1
86	Structural and magnetic properties of $\text{GdSr}_2\text{RuCu}_2\text{O}_8$ films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 444-445.	1.2	1
87	Structure, morphology and composition of superconducting Sr_2RuO_4 - $\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectic crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 524-525.	1.2	1
88	AC susceptibility of Sr_2RuO_4 - $\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectics: Dependence on AC field strength and frequency. Journal of Magnetism and Magnetic Materials, 2007, 310, 643-644.	2.3	1
89	Uniaxial pressure effect on the superconductivity in the $\text{Sr}_3\text{Ru}_2\text{O}_7$ region of the $\text{Sr}_3\text{Ru}_2\text{O}_7$ - Sr_2RuO_4 eutectic system. Physica C: Superconductivity and Its Applications, 2010, 470, S728-S729.	1.2	1
90	Transport Properties of Over-doped Epitaxial NdCeCuO Films. Journal of Superconductivity and Novel Magnetism, 2011, 24, 169-172.	1.8	1

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91	Nonlinear Pauli susceptibilities in Sr_3O_7 and universal features of itinerant metamagnetism. Physical Review B, 2018, 97, .	3.2	1
92	Suppression of the orbital magnetic moment driven by electronic correlations in Sr_4O_{10} . Physical Review B, 2019, 100, .	3.2	1
93	Layer dependent antiferromagnetism in the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ ruthenate at the metamagnetic-like transition. Journal of Magnetism and Magnetic Materials, 2020, 493, 165698.	2.3	1
94	Structural and magnetic characterization of $\text{GdSr}_2\text{RuCu}_2\text{O}_8$ films deposited by d.c. sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3073-3076.	0.8	0
95	Transport measurements on Sr_2RuO_4 - $\text{Sr}_3\text{Ru}_2\text{O}_7$ eutectic crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 526-527.	1.2	0
96	STRUCTURE AND PROPERTIES OF SUPERCONDUCTOR/FERROMAGNET HYBRIDS. , 2007, , .		0