

Rosalba Fittipaldi

List of Publications by Year in descending order

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304743

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docs citations

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times ranked

1926
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Field Tunable Intertwined Checkerboard Charge Order and Nematicity in the Surface Layer of SrRuO_4 . <i>Advanced Materials</i> , 2021, 33, e2100593.	21.0	11
2	Secondary electron yield reduction by femtosecond pulse laser-induced periodic surface structuring. <i>Surfaces and Interfaces</i> , 2021, 25, 101179.	3.0	17
3	Unveiling unconventional magnetism at the surface of Sr_2RuO_4 . <i>Nature Communications</i> , 2021, 12, 5792.	12.8	11
4	Universal size-dependent nonlinear charge transport in single crystals of the Mott insulator Ca_2RuO_4 . <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	4
5	Quasi-particle interference of the van Hove singularity in Sr_2RuO_4 . <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	10
6	Layer dependent antiferromagnetism in the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ ruthenate at the metamagnetic-like transition. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 493, 165698.	2.3	1
7	Fermi surface and kink structures in $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ revealed by synchrotron-based ARPES. <i>Scientific Reports</i> , 2020, 10, 21062.	3.3	3
8	Crystal growth of the Ca_2RuO_4 -Ru metal system by the floating-zone technique. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154890.	5.5	5
9	Resonant inelastic x-ray scattering study of $\text{Ca}_3\text{Ru}_2\text{O}_{10}$. <i>Physical Review B</i> , 2020, 102, .	3.2	3
10	Effect of different atmospheres on the synthesis of $\text{Ba}_2\text{CuGe}_2\text{O}_7$ single crystals. <i>European Physical Journal: Special Topics</i> , 2019, 228, 703-712.	2.6	2
11	Orbitally selective breakdown of Fermi liquid quasiparticles in $\text{Ca}_3\text{Ru}_2\text{O}_{10}$. <i>Physical Review B</i> , 2019, 99, .	3.2	16
12	Suppression of the orbital magnetic moment driven by electronic correlations in $\text{Ca}_4\text{Ru}_3\text{O}_{10}$. <i>Physical Review B</i> , 2019, 100, .	3.2	1
13	Emergence of a metallic metastable phase induced by electrical current in Ca_2RuO_4 . <i>Physical Review B</i> , 2019, 100, .	3.2	21
14	Vector vortex beams generated by q-plates as a versatile route to direct fs laser surface structuring. <i>Applied Surface Science</i> , 2019, 471, 1028-1033.	6.1	15
15	Laser surface texturing of copper and variation of the wetting response with the laser pulse fluence. <i>Applied Surface Science</i> , 2019, 470, 817-824.	6.1	53
16	Colorimetric Immunosensor by Aggregation of Photochemically Functionalized Gold Nanoparticles. <i>ACS Omega</i> , 2018, 3, 3805-3812.	3.5	67
17	Spin-Orbital Excitations in Ca_2RuO_4 Revealed by Resonant Inelastic X-Ray Scattering. <i>Physical Review X</i> , 2018, 8, .	3.2	13
18	Nonlinear Pauli susceptibilities in $\text{Sr}_3\text{Ru}_2\text{O}_7$ and universal features of itinerant metamagnetism. <i>Physical Review B</i> , 2018, 97, .	3.2	1

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19	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, .	2.7	2
20	Magnetic anisotropy and orbital ordering in CaMn_2O_7 . Physical Review B, 2018, 98, .	3.2	11
21	Surface structures with unconventional patterns and shapes generated by femtosecond structured light fields. Scientific Reports, 2018, 8, 13613.	3.3	32
22	Simple method for the characterization of intense Laguerre-Gauss vector vortex beams. Applied Physics Letters, 2018, 112, .	3.3	21
23	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
24	Coherent growth of oxide films on a cleaved layered metal oxide substrate. Physical Review Materials, 2018, 2, .	2.4	2
25	Surface Structuring with Polarization-Singular Femtosecond Laser Beams Generated by a q-plate. Scientific Reports, 2017, 7, 42142.	3.3	48
26	Hallmarks of Hund's coupling in the Mott insulator Ca_2RuO_4 . Nature Communications, 2017, 8, 15176.	12.8	66
27	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
28	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic Ba_2O_7 . Physical Review B, 2017, 96, .	3.2	5
29	Synthesis and characterization of mixed melilite-type oxides. Journal of Crystal Growth, 2017, 457, 128-131.	1.5	3
30	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
31	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
32	Transport properties in aggregates of Nb nanowires templated by carbon nanotube films. Carbon, 2016, 105, 544-550.	10.3	8
33	Evidence of double-gap superconductivity in noncentrosymmetric Nb_2O_7 crystals. Physical Review B, 2015, 91, .	3.2	20
34	Spin-orbit-induced orbital excitations in $\text{Sr}_2\text{Ca}_2\text{O}_7$. A resonant inelastic x-ray sca. Physical Review B, 2015, 91, .	3.2	40
35	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
36	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

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37	Laser ablation of silicon induced by a femtosecond optical vortex beam. Optics Letters, 2015, 40, 4611.	3.3	51
38	Laser ablation and deposition of titanium dioxide with ultrashort pulses at 527Ånm. Applied Physics B: Lasers and Optics, 2015, 119, 445-452.	2.2	10
39	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
40	Double metamagnetic transition in $Sr_{4-x}Ru_3O_{10}$. Physical Review B, 2014, 90, .	3.2	22
41	Direct femtosecond laser ablation of copper with an optical vortex beam. Journal of Applied Physics, 2014, 116, .	2.5	29
42	Characterization of Thick Film of Copper Electrodeposited for Cryogenic Applications. Journal of the Electrochemical Society, 2014, 161, D540-D545.	2.9	3
43	Optical spectra of LaMn _{0.5} Ga _{0.5} O ₃ : A contribution to the assignment of the electronic transitions in manganites. Physica B: Condensed Matter, 2014, 433, 102-106.	2.7	11
44	Femtosecond laser deposition of TiO ₂ nanoparticle-assembled films with embedded CdS nanoparticles. Optoelectronics Letters, 2014, 10, 43-46.	0.8	3
45	Infrared phonon spectrum of the tetragonal helimagnet Ba ₂ CuGe ₂ O ₇ . Physical Review B, 2014, 90, .	3.2	5
46	Femtosecond laser surface structuring of silicon using optical vortex beams generated by a q-plate. Applied Physics Letters, 2014, 104, .	3.3	58
47	Superconductive niobium films coating carbon nanotube fibers. Superconductor Science and Technology, 2014, 27, 115006.	3.5	6
48	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
49	Optical Response of $Sr_{2-x}RuO_4$: Universal Fermi-Liquid Scaling and Quasiparticles Beyond Landau Theory. Physical Review Letters, 2014, 113, 087404.	7.8	61
50	Comparative study of initial stages of copper immersion deposition on bulk and porous silicon. Nanoscale Research Letters, 2013, 8, 85.	5.7	20
51	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
52	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
53	Structure of the spin and orbital magnetic moments in the $Sr_{1-x}Ru_xO_4$. Physical Review B, 2013, 87, 080401.	3.2	19
54	Neutron diffraction study of triple-layered Sr ₄ Ru ₃ O ₁₀ . Journal of Physics Condensed Matter, 2013, 25, 056004.	1.8	17

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55	Surface and bulk electronic structure of the unconventional superconductor Sr_2RuO_4 : unusual splitting of the d^2 band. <i>New Journal of Physics</i> , 2012, 14, 063039.	2.9	16
56	A new approach for improving global critical current density in $\text{Fe}(\text{Se}_{0.5}\text{Te}_{0.5})$ polycrystalline materials. <i>Superconductor Science and Technology</i> , 2012, 25, 115018.	3.5	48
57	Anisotropic optical conductivity of $\text{Sr}_4\text{Ru}_3\text{O}_{10}$. <i>Physical Review B</i> , 2012, 85, .	3.2	13
58	$1/4$ SR studies of superconductivity in eutectically grown mixed ruthenates. <i>Physical Review B</i> , 2012, 85, .	3.2	14
59	Angle-resolved Photoemission Spectroscopy At Ultra-low Temperatures. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	7
60	Correlation between structural and transport properties in epitaxial films of $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$. <i>Thin Solid Films</i> , 2012, 524, 282-289.	1.8	16
61	Effects of substrate temperature on nanoparticle-assembled Fe films produced by ultrafast pulsed laser deposition. <i>Applied Surface Science</i> , 2012, 258, 9337-9341.	6.1	3
62	The influence of doping with Ca and Mg in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ ceramic. <i>EPJ Web of Conferences</i> , 2012, 29, 00003.	0.3	2
63	Effect of double substitution on structural and magnetic properties of $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2(\text{Cu}_{1-y}\text{Mg}_y)\text{O}_7$. <i>Physica C: Superconductivity and Its Applications</i> , 2012, 477, 36-42.	1.2	5
64	Long- to short-range magnetic order in fluorine-doped CeFeAsO . <i>Physical Review B</i> , 2011, 84, .	3.2	27
65	Optical investigation of LaMnO_3 thin films: a study of the 2-eV band. <i>European Physical Journal B</i> , 2011, 79, 435-441.	1.5	7
66	Transport Properties of Over-doped Epitaxial NdCeCuO Films. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 169-172.	1.8	1
67	Floating zone growth of eutectic $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ crystals. <i>Crystal Research and Technology</i> , 2011, 46, 769-772.	1.3	7
68	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. <i>Micron</i> , 2011, 42, 324-329.	2.2	2
69	X-ray scattering study of interfacial roughness in Nb/PdNi multilayers. <i>Surface Science</i> , 2011, 605, 1791-1796.	1.9	5
70	Electronic structure trends in the $\text{Sr}_{n+1}\text{Ru}_n\text{O}_{3n+1}$ system. <i>Physical Review B</i> , 2011, 84, 040407.	3.2	32
71	Uniaxial pressure effect on the superconductivity in the $\text{Sr}_3\text{Ru}_2\text{O}_7$ region of the $\text{Sr}_3\text{Ru}_2\text{O}_7-\text{Sr}_2\text{RuO}_4$ eutectic system. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S728-S729.	1.2	1
72	Toward intrinsic functionalities of bilayered ruthenate $\text{Sr}_3\text{Ru}_2\text{O}_7$. <i>Physical Review B</i> , 2009, 80, .	3.2	6

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73	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
74	Atomic structure of functional interfaces in Sr ₂ RuO ₄ /Sr ₃ Ru ₂ O ₇ eutectic crystals. Applied Physics Letters, 2009, 95, 142507.	3.3	7
75	Granularity and Linear Flux Dynamics in Sintered La _{0.92} F _{0.08} FeAs. Journal of Superconductivity and Novel Magnetism, 2009, 22, 609-612.	1.8	8
76	Superconducting behaviour via percolation in Sr ₂ RuO ₄ -Sr ₃ Ru ₂ O ₇ eutectic crystals. Journal of Physics: Conference Series, 2009, 150, 052056.	0.4	2
77	Evidence for the Sr ₂ RuO ₄ intercalations in the Sr ₃ Ru ₂ O ₇ region of the Sr ₃ Ru ₂ O ₇ –Sr ₂ RuO ₄ eutectic system. Journal of Physics: Conference Series, 2009, 150, 052113.	0.4	2
78	Thermal treatments and evolution of bulk Nd _{1.85} Ce _{0.15} CuO ₄ morphology. Physica C: Superconductivity and Its Applications, 2008, 468, 2271-2274.	1.2	13
79	Subterahertz electrodynamics of the graphene-like superconductor CaAlSi. Physical Review B, 2008, 77, .	3.2	17
80	Superconducting properties of Nb thin films deposited on porous silicon templates. Journal of Applied Physics, 2008, 104, 083917.	2.5	25
81	Multiple superconducting transitions in the $Sr_{3-x}Ru_2O_7$ system. Physical Review B, 2008, 77, .		
82	Superconductivity in Sr ₂ RuO ₄ -Sr ₃ Ru ₂ O ₇ eutectic crystals. Europhysics Letters, 2008, 83, 27007.	2.0	26
83	Anisotropic optical conductivity of $Sr_{3-x}Ru_2O_7$. Physical Review B, 2008, 78, .		
84	Crystal Growth of a Lamellar Sr ₃ Ru ₂ O ₇ –Sr ₄ Ru ₃ O ₁₀ Eutectic System. Crystal Growth and Design, 2007, 7, 2495-2499.	3.0	18
85	Structural and magnetic properties of GdSr ₂ RuCu ₂ O ₈ films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 444-445.	1.2	1
86	Structure, morphology and composition of superconducting Sr ₂ RuO ₄ –Sr ₃ Ru ₂ O ₇ eutectic crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 524-525.	1.2	1
87	Transport measurements on Sr ₂ RuO ₄ –Sr ₃ Ru ₂ O ₇ eutectic crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 526-527.	1.2	0
88	AC susceptibility of Sr ₂ RuO ₄ –Sr ₃ Ru ₂ O ₇ eutectics: Dependence on AC field strength and frequency. Journal of Magnetism and Magnetic Materials, 2007, 310, 643-644.	2.3	1
89	STRUCTURE AND PROPERTIES OF SUPERCONDUCTOR/FERROMAGNET HYBRIDS. , 2007, , .		0
90	Magnetic history dependence of the AC susceptibility of GdSr ₂ RuCu ₂ O ₈ . Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3061-3064.	0.8	2

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91	Structural and magnetic characterization of GdSr ₂ RuCu ₂ 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
92	Morphological and structural characterization of GdSr ₂ RuCu ₂ O ₈ thin film. Journal of Physics and Chemistry of Solids, 2006, 67, 613-615.	4.0	1
93	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
94	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
95	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
96	Upper Critical Field and Irreversibility Line in Bi ₂ Sr ₂ CuO ₆ +x/CaCuO ₂ Superconducting Superlattices Obtained by MBE. International Journal of Modern Physics B, 2000, 14, 2767-2772.	2.0	1