

# Zouhair Sefrioui

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5603718/publications.pdf>

Version: 2024-02-01

81  
papers

2,976  
citations

185998

28  
h-index

161609

54  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Colossal Ionic Conductivity at Interfaces of Epitaxial $ZrO_2$ :Y $O_3$ / $SrTiO_3$ Heterostructures. <i>Science</i> , 2008, 321, 676-680.	6.0	675
2	Ferromagnetic/superconducting proximity effect in $La_{0.7}Ca_{0.3}MnO_3/YBa_2Cu_3O_{7-x}$ superlattices. <i>Physical Review B</i> , 2003, 67, .	1.1	197
3	Giant Magnetoresistance in Ferromagnet/Superconductor Superlattices. <i>Physical Review Letters</i> , 2005, 94, 057002.	2.9	187
4	Coupling of superconductors through a half-metallic ferromagnet: Evidence for a long-range proximity effect. <i>Physical Review B</i> , 2004, 69, .	1.1	152
5	Equal-spin Andreev reflection and long-range coherent transport in high-temperature superconductor/half-metallic ferromagnet junctions. <i>Nature Physics</i> , 2012, 8, 539-543.	6.5	138
6	Charge Leakage at $LaMnO_3/SrTiO_3$ Interfaces. <i>Advanced Materials</i> , 2010, 22, 627-632.	11.1	113
7	Resonant electron tunnelling assisted by charged domain walls in multiferroic tunnel junctions. <i>Nature Nanotechnology</i> , 2017, 12, 655-662.	15.6	92
8	Suppressed magnetization in $La_{0.7}Ca_{0.3}MnO_3 \cdot YBa_2Cu_3O_{7-x}$ superlattices. <i>Physical Review B</i> , 2005, 72, .	1.1	88
9	Superconductivity depression in ultrathin $YBa_2Cu_3O_{7-x}$ layers in $La_{0.7}Ca_{0.3}MnO_3/YBa_2Cu_3O_{7-x}$ superlattices. <i>Applied Physics Letters</i> , 2002, 81, 4568-4570.	1.5	86
10	Nanoscale analysis of $YBa_2Cu_3O_{7-x}/La_{0.67}Ca_{0.33}MnO_3$ interfaces. <i>Solid-State Electronics</i> , 2003, 47, 2245-2248.	0.8	72
11	Intracell Changes in Epitaxially Strained $YBa_2Cu_3O_{7-x}$ Ultrathin Layers in $YBa_2Cu_3O_{7-x}/PrBa_2Cu_3O_7$ Superlattices. <i>Physical Review Letters</i> , 1999, 83, 3936-3939.	2.9	71
12	Reversible electric-field control of magnetization at oxide interfaces. <i>Nature Communications</i> , 2014, 5, 4215.	5.8	59
13	Spin diffusion versus proximity effect at ferromagnet/superconductor $La_{0.7}Ca_{0.3}MnO_3 \cdot YBa_2Cu_3O_{7-x}$ interfaces. <i>Physical Review B</i> , 2006, 73, .	1.1	54
14	Tailoring Disorder and Dimensionality: Strategies for Improved Solid Oxide Fuel Cell Electrolytes. <i>ChemPhysChem</i> , 2009, 10, 1003-1011.	1.0	50
15	Origin of the inverse spin-switch behavior in manganite/cuprate/manganite trilayers. <i>Physical Review B</i> , 2008, 78, .	1.1	47
16	Response to Comment on "Colossal Ionic Conductivity at Interfaces of Epitaxial $ZrO_2$ :Y $O_3$ / $SrTiO_3$ Heterostructures". <i>Science</i> , 2009, 324, 465-465.	6.0	47
17	Crossover from a three-dimensional to purely two-dimensional vortex-glass transition in deoxygenated $YBa_2Cu_3O_{7-x}$ thin films. <i>Physical Review B</i> , 1999, 60, 15423-15429.	1.1	45
18	Vortex liquid entanglement in irradiated $YBa_2Cu_3O_7$ thin films. <i>Physical Review B</i> , 2001, 63, .	1.1	38

#	ARTICLE	IF	CITATIONS
19	Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnet $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ trilayers. Physical Review B, 2007, 75, .	1.1	36
20	Tailoring Interface Structure in Highly Strained YSZ/STO Heterostructures. Advanced Materials, 2011, 23, 5268-5274.	11.1	36
21	Paramagnetic Meissner effect in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ superlattices. Physical Review B, 2006, 73, .	1.1	34
22	All-Manganite Tunnel Junctions with Interface-Induced Barrier Magnetism. Advanced Materials, 2010, 22, 5029-5034.	11.1	34
23	Insight into spin transport in oxide heterostructures from interface-resolved magnetic mapping. Nature Communications, 2015, 6, 6306.	5.8	34
24	Direct Evidence for Block-by-Block Growth in High-Temperature Superconductor Ultrathin Films. Physical Review Letters, 2001, 86, 5156-5159.	2.9	31
25	Emergent Spin Filter at the Interface between Ferromagnetic and Insulating Layered Oxides. Physical Review Letters, 2013, 111, 247203.	2.9	29
26	Metal-insulator transition in $\text{SrRuO}_3$ induced by ion irradiation. Applied Physics Letters, 1998, 73, 3375-3377.	1.5	28
27	Vortex phases in superconducting Nb thin films with periodic pinning. Physical Review B, 2005, 72, .	1.1	28
28	Ferroelectric Control of Interface Spin Filtering in Multiferroic Tunnel Junctions. Physical Review Letters, 2019, 122, 037601.	2.9	28
29	Effects of interface states on the transport properties of all-oxide $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3/\text{SrTi}_{0.99}\text{Nb}_{0.01}\text{O}_3$ p-n heterojunctions. Applied Physics Letters, 2008, 92, 082106.	1.5	24
30	Signatures of a Two-Dimensional Ferromagnetic Electron Gas at the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ Interface Arising From Orbital Reconstruction. Advanced Materials, 2014, 26, 7516-7520.	11.1	23
31	Electron-electron interaction and weak localization effects in badly metallic $\text{SrRuO}_3$ . Physical Review B, 2001, 63, .	1.1	21
32	Correlation between magnetic and transport properties in nanocrystalline Fe thin films: $\epsilon_f A$ grain-boundary magnetic disorder effect. Physical Review B, 2001, 64, .	1.1	21
33	Evidence from magnetoresistance measurements for an induced triplet superconducting state in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ interface. Physically assisted tunneling transport in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ interface. Applied Physics Letters, 2009, 94, 082106.	1.1	20
34	Thermally assisted tunneling transport in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ interface. Applied Physics Letters, 2009, 94, 082106.	1.1	19
35	Epitaxial mismatch strain in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattices. Physical Review B, 2000, 62, 12509-12515.	1.1	18
36	Effects of epitaxial strain on the growth mechanism in $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattices. Physical Review B, 2002, 66, .	1.1	18

#	ARTICLE	IF	CITATIONS
37	Atomic scale characterization of complex oxide interfaces. Journal of Materials Science, 2006, 41, 4389-4393.	1.7	18
38	Directionally controlled superconductivity in ferromagnet/superconductor/ferromagnet trilayers with biaxial easy axes. Physical Review B, 2010, 81, .	1.1	15
39	Controlled Sign Reversal of Electroresistance in Oxide Tunnel Junctions by Electrochemical-Ferroelectric Coupling. Physical Review Letters, 2020, 125, 266802.	2.9	15
40	Direct correlation between $T_c$ and $\text{CuO}_2$ bilayer spacing in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . Physical Review B, 2002, 66, .	1.1	14
41	Critical temperature depression and persistent photoconductivity in ion irradiated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattices. Applied Physics Letters, 2000, 76, 3289-3291.	1.5	13
42	Strain induced phase separation in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ ultra thin films. Journal of Physics and Chemistry of Solids, 2006, 67, 472-475.	1.9	13
43	Thickness Dependent Magnetic Anisotropy of Ultrathin LCMO Epitaxial Thin Films. IEEE Transactions on Magnetics, 2008, 44, 2926-2929.	1.2	13
44	Tunnel magnetoresistance in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{PrBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ . Applied Physics Letters, 2006, 88, 022512.	1.5	12
45	Modified magnetic anisotropy at $\text{LaCoO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ interfaces. APL Materials, 2017, 5, .	2.2	12
46	Interface barriers for flux motion in high-temperature superconducting superlattices. Physical Review B, 2004, 69, .	1.1	11
47	Magnetic field influence on the proximity effect at $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ superconductor/half-metal interfaces. Physical Review B, 2015, 92, .	1.1	11
48	Evidence for vortex tunnel dissipation in deoxygenated $\text{YBa}_2\text{Cu}_3\text{O}_{6.4}$ thin films. Physical Review B, 2001, 63, .	1.1	10
49	Zero-magnetic-field dynamic scaling in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ thin films. Physical Review B, 2004, 70, .	1.1	10
50	Disorder-controlled superconductivity at $\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{2/3}\text{Ca}_{1/3}\text{MnO}_3$ interfaces. Physical Review B, 2015, 92, .	1.1	10
51	Stray field and spin-imbalance effects in multilayers. Physica B: Condensed Matter, 2008, 403, 1167-1169.	1.3	9
52	INDUCED MAGNETISM AT OXIDE INTERFACES. International Journal of Modern Physics B, 2013, 27, 1330013.	1.0	9
53	Interfacial effects on the tunneling magnetoresistance in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4/\text{La}_{2-x}\text{Sr}_x\text{MnO}_3$ superlattices. Applied Physics Letters, 2006, 88, 022512.	1.1	9
54	Ferroionic inversion of spin polarization in a spin-memristor. APL Materials, 2021, 9, .	2.2	7

#	ARTICLE	IF	CITATIONS
55	Effect of anisotropy on the vortex liquid dissipation in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. Journal of Alloys and Compounds, 2001, 323-324, 572-575.	2.8	6
56	Pair breaking by chain oxygen disorder in light-ion irradiated $\text{YBa}_2\text{Cu}_3\text{O}_x$ thin films. Physical Review B, 2003, 68, .	1.1	6
57	Long length scale interaction between magnetism and superconductivity in $\text{La}_{0.3}\text{Ca}_{0.7}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ superlattices. European Physical Journal B, 2004, 40, 479-482.	0.6	6
58	Vortex decoupling in LCMO/YBCO superlattices. Journal of Physics and Chemistry of Solids, 2006, 67, 387-390.	1.9	6
59	Resistive switching in manganite/graphene hybrid planar nanostructures. Applied Physics Letters, 2014, 104, 102408.	1.5	6
60	Pure 2D vortex-glass phase transition with $T_g = 0$ K in deoxygenated $\text{YBa}_2\text{Cu}_3\text{O}_{6.4}$ thin films. Europhysics Letters, 1999, 48, 679-685.	0.7	5
61	Exchange-bias-modulated inverse superconducting spin switch in $\text{Co}/\text{Co}/\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ thin film hybrids. Physical Review B, 2010, 81, .	1.1	5
62	Proximity Driven Commensurate Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_7$ through All-Oxide Magnetic Nanostructures. Nano Letters, 2015, 15, 7526-7531.	4.5	5
63	High On/Off Ratio Memristive Switching of Manganite/Cuprate Bilayer by Interfacial Magnetoelectricity. Advanced Materials Interfaces, 2016, 3, 1600086.	1.9	5
64	Chain oxygen disorder in deoxygenated $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films induced by light ion irradiation. Journal of Alloys and Compounds, 2001, 323-324, 576-579.	2.8	4
65	Spin dependent transport at oxide $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ ferromagnet/superconductor interfaces. Journal of the European Ceramic Society, 2007, 27, 3967-3970.	2.8	4
66	Disorder and damage effects in $\text{SrRuO}_3$ thin films. Physica B: Condensed Matter, 1999, 259-261, 938-939.	1.3	2
67	Size Effects on the Critical Scaling Laws in a-axis and c-axis Oriented 123 Thin Films. Journal of Low Temperature Physics, 1999, 117, 675-679.	0.6	2
68	High-resolution and energy-filtered transmission electron microscopy of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_7$ superlattices. Journal of Alloys and Compounds, 2001, 323-324, 558-561.	2.8	2
69	Strain-inhomogeneity effect on magnetization and low-temperature resistivity of epitaxial $\text{Fe}(001)$ thin films. Journal of Magnetism and Magnetic Materials, 2004, 268, 24-28.	1.0	2
70	Low Temperature Magnetic Properties of Nanocrystalline Iron. Lecture Notes in Physics, 2002, , 152-163.	0.3	2
71	Effect of silver doping on the transport properties of epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1197-1198.	0.6	1
72	Effect of light ion irradiation on the flux dynamics of $\text{YBa}_2/\text{Cu}_3/\text{O}_{7-x}$ thin films. IEEE Transactions on Applied Superconductivity, 2001, 11, 3928-3930.	1.1	1

#	ARTICLE	IF	CITATIONS
73	Publisher's Note: Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnet La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> ∕YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> ∕La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> trilayers [Phys. Rev. B 75, 054501 (2007)]. Physical Review B, 2007, 75, .	1.1	1
74	Magnetoresistance in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> ∕YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> F/S/F trilayers. Journal of Magnetism and Magnetic Materials, 2007, 316, e745-e748.	1.0	1
75	Structure Characterization of Epitaxial Strain Relaxation in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Superlattices. Materials Research Society Symposia Proceedings, 2000, 619, 185.	0.1	0
76	Dissipation and anisotropy in ultrathin YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superlattices. Materials Research Society Symposia Proceedings, 2000, 659, 1.	0.1	0
77	Large magnetoresistance in oxide based ferromagnet / superconductor spin switches. Materials Research Society Symposia Proceedings, 2005, 887, 1.	0.1	0
78	Effects of structural microdomains on the vortex correlation length in a-axis oriented EuBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thin films. Journal of Physics and Chemistry of Solids, 2006, 67, 399-402.	1.9	0
79	Large Magnetoresistance at Oxide La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Interfaces. Advances in Science and Technology, 2006, 45, 2545-2553.	0.2	0
80	Magnetic Coupling in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Trilayers. Defect and Diffusion Forum, 0, 289-292, 303-309.	0.1	0
81	Interface Magnetism in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> /PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Epitaxial Heterostructures. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800265.	0.8	0