Jean-Marc Triscone

List of Publications by Year
in descending order

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46 papers	5,930 citations	257101 24 h-index	243296 44 g-index
51 all docs	51 docs citations	51 times ranked	6933 citing authors

#	Article	IF	Citations
1	Strain Tuning of Ferroelectric Thin Films. Annual Review of Materials Research, 2007, 37, 589-626.	4.3	987
2	Interface Physics in Complex Oxide Heterostructures. Annual Review of Condensed Matter Physics, 2011, 2, 141-165.	5.2	962
3	Improper ferroelectricity in perovskite oxide artificial superlattices. Nature, 2008, 452, 732-736.	13.7	791
4	Electrostatic modification of novel materials. Reviews of Modern Physics, 2006, 78, 1185-1212.	16.4	465
5	Exchange bias in LaNiO3â€“LaMnO3 superlattices. Nature Materials, 2012, 11, 195-198.	13.3	403
6	Magnetoelectric Effects in Complex Oxides with Competing Ground States. Advanced Materials, 2009, 21, 3470-3474.	11.1	395
7	Negative capacitance in multidomain ferroelectric superlattices. Nature, 2016, 534, 524-528.	13.7	286
8	Ferroelectricity and Tetragonality in UltrathinPbTiO3Films. Physical Review Letters, 2005, 94, 047603.	2.9	280
9	Electricâ€Field Control of the Metalâ€Insulator Transition in Ultrathin NdNiO₃ Films. Advanced Materials, 2010, 22, 5517-5520.	11.1	265
10	Ground-state oxygen holes and the metalâ€“insulator transition in the negative charge-transfer rare-earth nickelates. Nature Communications, 2016, 7, 13017.	5.8	193
11	Tuning of the Depolarization Field and Nanodomain Structure in Ferroelectric Thin Films. Nano Letters, 2014, 14, 4205-4211.	4.5	98
12	Superlattices of high-temperature superconductors: synthetically modulated structures, critical temperatures and vortex dynamics. Reports on Progress in Physics, 1997, 60, 1673-1721.	8.1	74
13	Conductivity and Local Structure of LaNiO₃ Thin Films. Advanced Materials, 2017, 29, 1605197.	11.1	63
14	Giant oscillating thermopower at oxide interfaces. Nature Communications, 2015, 6, 6678.	5.8	62
15	Coupling of three lattice instabilities. Nature Materials, 2011, 10, 269-270.	13.3	61
16	Monodomain to polydomain transition in ferroelectric PbTiO3 thin films with La0.67Sr0.33MnO3 electrodes. Applied Physics Letters, 2007, 90, 052907.	1.5	50
17	Spectroscopic mapping of local structural distortions in ferroelectric PbTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math> superlattices at the unit-cell scale. Physical Review B, 2011, 84, .	1.1	48
18	Positive Effect of an Internal Depolarization Field in Ultrathin Epitaxial Ferroelectric Films. Advanced Electronic Materials, 2016, 2, 1500288.	2.6	47

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19	Built-in voltage in thin ferroelectric PbTiO₃films: the effect of electrostatic boundary conditions. New Journal of Physics, 2016, 18, 043030.	1.2	42
20	Length scales of interfacial coupling between metal and insulator phases in oxides. Nature Materials, 2020, 19, 1182-1187.	13.3	42
21	Designing and controlling the properties of transition metal oxide quantum materials. Nature Materials, 2021, 20, 1462-1468.	13.3	42
22	Ferroelectric Size Effects. Topics in Applied Physics, 2007, , 305-338.	0.4	28
23	Fabricating superconducting interfaces between artificially grown LaAlO3 and SrTiO3 thin films. APL Materials, 2014, 2, .	2.2	28
24	Thickness-Dependent Perovskite Octahedral Distortions at Heterointerfaces. Nano Letters, 2019, 19, 4188-4194.	4.5	25
25	High sensitivity variable-temperature infrared nanoscopy of conducting oxide interfaces. Nature Communications, 2019, 10, 2774.	5.8	16
26	Dynamics of the electrically induced insulator-to-metal transition in rare-earth nickelates. Physical Review B, 2021, 104, .	1.1	14
27	Full Control of Polarization in Ferroelectric Thin Films Using Growth Temperature to Modulate Defects. Advanced Electronic Materials, 2020, 6, 2000852.	2.6	13
28	Vibrational properties of LaNiO3 films in the ultrathin regime. APL Materials, 2020, 8, .	2.2	13
29	Superconductivity on the other side. Nature Nanotechnology, 2010, 5, 13-14.	15.6	12
30	Oxide interface superconductivity. Comptes Rendus Physique, 2011, 12, 591-599.	0.3	12
31	Near-Atomic-Scale Mapping of Electronic Phases in Rare Earth Nickelate Superlattices. Nano Letters, 2021, 21, 2436-2443.	4.5	12
32	Phase transitions in ultra-thin ferroelectric films and fine period multilayers. Phase Transitions, 2008, 81, 623-642.	0.6	11
33	Ferroelectricity woos pairing. Nature Physics, 2017, 13, 624-625.	6.5	11
34	Generation of Tunable Stochastic Sequences Using the Insulatorâ€“Metal Transition. Nano Letters, 2022, 22, 1251-1256.	4.5	11
35	Probing Quantum Confinement and Electronic Structure at Polar Oxide Interfaces. Advanced Science, 2018, 5, 1800242.	5.6	9
36	A-axis-oriented YBa2Cu3O7/PrBa2Cu3O7 superlattices: Growth and transport properties. Journal of Alloys and Compounds, 1992, 183, 224-240.	2.8	8

#	Article	IF	Citations
37	Vortex motion in coupled DyBa2Cu3O7/(Y0.6Pr0.4)Ba2Cu3O7 heterostructures. Journal of Superconductivity and Novel Magnetism, 1994, 7, 181-185.	0.5	8
38	Growth and characterization of (Pb,La)(Zr,Ti)O3 thin film epilayers on SrTiO3-buffered Si(001). Thin Solid Films, 2010, 518, 5471-5477.	0.8	8
39	Crossover between distinct symmetries in solid solutions of rare earth nickelates. APL Materials, 2021, 9, .	2.2	6
40	Transport properties of a-axis YBa2Cu3O7/PrBa2Cu3O7 superlattices. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2065-2066.	0.6	4
41	Reactive walls. Nature, 2014, 515, 348-350.	13.7	4
42	Electronic transport in submicrometric channels at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn> interface. Physical Review B, 2021, 103, .	3.1	4
43	It takes two to waver. Nature Nanotechnology, 2014, 9, 417-418.	15.6	3
44	Role of point and line defects on the electronic structure of LaAlO3/SrTiO3 interfaces. APL Materials, 2020, 8, 041103.	2.2	3
45	Analysis of low temperature magnetoresistance of LaAlO₃/SrTiO₃interfaces. Proceedings of SPIE, 2014, , .	0.8	0
46	Structural and Compositional Effects in Epitaxially-Strained Vanadate Thin Films. Microscopy and Microanalysis, 2019, 25, 966-967.	0.2	0