

Carolina Adamo

List of Publications by Year in descending order

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26
papers

1,432
citations

471061

17
h-index

610482

24
g-index

28
all docs

28
docs citations

28
times ranked

2535
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Vortex Nanodomain Arrays at Ferroelectric Heterointerfaces. Nano Letters, 2011, 11, 828-834.	4.5	419
2	Domain Dynamics During Ferroelectric Switching. Science, 2011, 334, 968-971.	6.0	320
3	Quantum many-body interactions in digital oxide superlattices. Nature Materials, 2012, 11, 855-859.	13.3	92
4	Localized Excited Charge Carriers Generate Ultrafast Inhomogeneous Strain in the Multiferroic BiFeO_3 . Physical Review Letters, 2014, 112, 097602.	2.9	89
5	Giant Resistive Switching via Control of Ferroelectric Charged Domain Walls. Advanced Materials, 2016, 28, 6574-6580.	11.1	83
6	Atomic Scale Structure Changes Induced by Charged Domain Walls in Ferroelectric Materials. Nano Letters, 2013, 13, 5218-5223.	4.5	59
7	Effects of coherent ferroelastic domain walls on the thermal conductivity and Kapitza conductance in bismuth ferrite. Applied Physics Letters, 2013, 102, .	1.5	53
8	Defect-Induced Hedgehog Polarization States in Multiferroics. Physical Review Letters, 2018, 120, 137602.	2.9	52
9	Tailoring manganese oxide with atomic precision to increase surface site availability for oxygen reduction catalysis. Nature Communications, 2018, 9, 4034.	5.8	41
10	Giant optical enhancement of strain gradient in ferroelectric BiFeO_3 thin films and its physical origin. Scientific Reports, 2015, 5, 16650.	1.6	33
11	Manipulating superconductivity in ruthenates through Fermi surface engineering. Physical Review B, 2016, 94, .	1.1	26
12	Electron Doping of the Parent Cuprate $\text{La}_{2-x}\text{Cu}_x\text{O}_{7-z}$ by Cation Substitution. Physical Review Letters, 2016, 117, 147002.	2.0	22
13	Capturing ultrafast photoinduced local structural distortions of BiFeO_3 . Scientific Reports, 2015, 5, 15098.	1.6	21
14	Exploiting kinetics and thermodynamics to grow phase-pure complex oxides by molecular-beam epitaxy under continuous codeposition. Physical Review Materials, 2017, 1, .	0.9	20
15	Switching the curl of polarization vectors by an irrotational electric field. Physical Review B, 2016, 94, .	1.1	19
16	Untilting BiFeO_3 : The influence of substrate boundary conditions in ultra-thin BiFeO_3 on SrTiO_3 . APL Materials, 2013, 1, .	2.2	18
17	Observation of Strong Polarization Enhancement in Ferroelectric Tunnel Junctions. Nano Letters, 2019, 19, 6812-6818.	4.5	18
18	Nanoscale excitonic photovoltaic mechanism in ferroelectric BiFeO_3 thin films. APL Materials, 2018, 6, .	2.2	12

#	ARTICLE	IF	CITATIONS
19	Optical properties of SrTiO ₃ on silicon(100). Applied Physics Letters, 2013, 102, .	1.5	9
20	Epitaxial integration of a nanoscale BiFeO ₃ phase boundary with silicon. Nanoscale, 2016, 8, 1322-1326.	2.8	8
21	Spatially confined low-power optically pumped ultrafast synchrotron x-ray nanodiffraction. Review of Scientific Instruments, 2015, 86, 083904.	0.6	6
22	Non-thermal fluence threshold for femtosecond pulsed x-ray radiation damage in perovskite complex oxide epitaxial heterostructures. Applied Physics Letters, 2019, 115, .	1.5	5
23	Subpicosecond Optical Stress Generation in Multiferroic BiFeO ₃ . Nano Letters, 2022, 22, 4294-4300.	4.5	4
24	Optical transient grating pumped X-ray diffraction microscopy for studying mesoscale structural dynamics. Scientific Reports, 2021, 11, 19322.	1.6	3
25	Ultrafast Photostriction in Thin Film Bismuth Ferrite and its Correlation to Electronic Dynamics. Materials Research Society Symposia Proceedings, 2013, 1528, 1.	0.1	0
26	Interaction between Ferroelectric Polarization and Defects in BiFeO ₃ Thin Films. Microscopy and Microanalysis, 2017, 23, 1604-1605.	0.2	0