

# Matthew Dawber

## List of Publications by Year in descending order

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24  
papers

2,096  
citations

623574

14  
h-index

610775

24  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Evidence for Ultrafast Polarization Rotation in Ferroelectric/Dielectric Superlattice Nanodomains. <i>Physical Review X</i> , 2021, 11, .	2.8	5
2	Role of temperature-dependent electron trapping dynamics in the optically driven nanodomain transformation in a PbTiO <sub>3</sub> /SrTiO <sub>3</sub> superlattice. <i>Applied Physics Letters</i> , 2020, 116, 012901.	1.5	2
3	Role of ferroelectric polarization during growth of highly strained ferroelectric materials. <i>Nature Communications</i> , 2020, 11, 2630.	5.8	14
4	Dirac fermion quantum Hall antidot in graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	9
5	Transition regime from step-flow to step-bunching in the growth of epitaxial SrRuO <sub>3</sub> on (001) SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , 2018, 112, .	1.5	7
6	Thermal Fluctuations of Ferroelectric Nanodomains in a Ferroelectric-Dielectric $\text{PbTiO}_3/\text{SrTiO}_3$ Superlattice. <i>Physical Review Letters</i> , 2017, 118, 097601.	2.9	16
7	Photoinduced Domain Pattern Transformation in Ferroelectric-Dielectric Superlattices. <i>Physical Review Letters</i> , 2017, 119, 057601.	2.9	20
8	Balancing polar vortices and stripes. <i>Nature Materials</i> , 2017, 16, 971-972.	13.3	2
9	Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus. <i>Advanced Electronic Materials</i> , 2016, 2, 1600040.	2.6	85
10	Coupling of bias-induced crystallographic shear planes with charged domain walls in ferroelectric oxide thin films. <i>Physical Review B</i> , 2016, 94, .	1.1	9
11	Black Phosphorus: Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus ( <i>Adv. Electron. Mater.</i> 5/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	2.6	4
12	In situ X-ray diffraction and the evolution of polarization during the growth of ferroelectric superlattices. <i>Nature Communications</i> , 2015, 6, 10136.	5.8	35
13	New developments in artificially layered ferroelectric oxide superlattices. <i>MRS Bulletin</i> , 2013, 38, 1048-1055.	1.7	27
14	Field-Dependent Domain Distortion and Interlayer Polarization Distribution in $\text{PbTiO}_3/\text{SrTiO}_3$ Superlattices. <i>Physical Review Letters</i> , 2013, 110, 047601.	2.9	28
15	Transition from laminar to three-dimensional growth mode in pulsed laser deposited BiFeO <sub>3</sub> film on (001) SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , 2012, 101, .	1.5	19
16	Improper ferroelectricity in perovskite oxide artificial superlattices. <i>Nature</i> , 2008, 452, 732-736.	13.7	791
17	Phase transitions in ultra-thin ferroelectric films and fine period multilayers. <i>Phase Transitions</i> , 2008, 81, 623-642.	0.6	11
18	Ferroelectric Size Effects. <i>Topics in Applied Physics</i> , 2007, , 305-338.	0.4	28

#	ARTICLE	IF	CITATIONS
19	Physics of ferroelectric thin-film memory devices. <i>Ferroelectrics</i> , 2002, 265, 119-128.	0.3	11
20	Effect of donor and acceptor dopants on Schottky barrier heights and vacancy concentrations in barium strontium titanate. <i>Journal of the European Ceramic Society</i> , 2001, 21, 1633-1636.	2.8	60
21	Fatigue and oxygen vacancy ordering in thin-film and bulk single crystal ferroelectrics. <i>Integrated Ferroelectrics</i> , 2001, 32, 259-266.	0.3	20
22	Addendum: A model for fatigue in ferroelectric perovskite thin films [Appl. Phys. Lett. 76, 1060 (2000)]. <i>Applied Physics Letters</i> , 2000, 76, 3655-3655.	1.5	38
23	A model for fatigue in ferroelectric perovskite thin films. <i>Applied Physics Letters</i> , 2000, 76, 1060-1062.	1.5	338
24	Oxygen-vacancy ordering as a fatigue mechanism in perovskite ferroelectrics. <i>Applied Physics Letters</i> , 2000, 76, 3801-3803.	1.5	517