

Patrick Ponath

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

344
citations

1163117

8
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

618
citing authors

#	ARTICLE	IF	CITATIONS
1	Carrier density modulation in a germanium heterostructure by ferroelectric switching. Nature Communications, 2015, 6, 6067.	12.8	75
2	Scavenging of oxygen from SrTiO ₃ during oxide thin film deposition and the formation of interfacial 2DEGs. Journal of Applied Physics, 2017, 121, .	2.5	50
3	Atomic and electronic structure of the ferroelectric BaTiO ₃ /Ge(001) interface. Applied Physics Letters, 2014, 104, .	3.3	45
4	Preparation of a clean Ge(001) surface using oxygen plasma cleaning. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	1.2	37
5	Analysis of the Pockels effect in ferroelectric barium titanate thin films on Si(0 0 1). Microelectronic Engineering, 2015, 147, 215-218.	2.4	34
6	Critical differences in the surface electronic structure of Ge(001) and Si(001):<i>Ab initio</i>theory and angle-resolved photoemission spectroscopy. Physical Review B, 2014, 89, .	3.2	31
7	Integrated films of transition metal oxides for information technology. Microelectronic Engineering, 2015, 147, 285-289.	2.4	12
8	Surface structure analysis of Eu Zintl template on Ge(001). Surface Science, 2018, 674, 94-102.	1.9	9
9	Contradictory nature of Co doping in ferroelectric BaTiO ₃ . Physical Review B, 2016, 94, .	3.2	8
10	Direct Observation of Large Atomic Polar Displacements in Epitaxial Barium Titanate Thin Films. Advanced Materials Interfaces, 2020, 7, 2000555.	3.7	8
11	Recent studies of oxide-semiconductor heterostructures using aberration-corrected scanning transmission electron microscopy. Journal of Materials Research, 2017, 32, 912-920.	2.6	7
12	Polarization retention in ultra-thin barium titanate films on Ge(001). Applied Physics Letters, 2018, 112, .	3.3	7
13	Monolithic integration of patterned BaTiO ₃ thin films on Ge wafers. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, .	1.2	6
14	Oxide-Based Optoelectronics. Physica Status Solidi (B): Basic Research, 2021, 258, 2000497.	1.5	6
15	Integration of ferroelectric BaTiO ₃ with Ge: The role of a SrTiO ₃ buffer layer investigated using aberration-corrected STEM. Applied Physics Letters, 2017, 110, .	3.3	5
16	Dielectric breakdown in epitaxial BaTiO ₃ thin films. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, 044007.	1.2	3
17	Advances of the development of a ferroelectric field-effect transistor on Ge(001). , 2017, , .		1
18	Characterization of a ferroelectric BaTiO ₃ /SrTiO ₃ heterostructure with interface-induced polarization. Microscopy and Microanalysis, 2016, 22, 1508-1509.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Aberration-corrected STEM Imaging and EELS Mapping of BaTiO ₃ /SrTiO ₃ Interfacial Defects. <i>Microscopy and Microanalysis</i> , 2017, 23, 1598-1599.	0.4	0