

Sabine M Neumayer

List of Publications by Year in descending order

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42
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docs citations

42
times ranked

1174
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic Control over Ferroelectricity in 2D Layered van der Waals Capacitors. ACS Applied Materials & Interfaces, 2022, 14, 3018-3026.	8.0	16
2	Nanoscale Control of Polar Surface Phases in Layered van der Waals CuInP_2S_6 . ACS Nano, 2022, 16, 2452-2460.	14.6	12
3	Lowering of T_c in Van Der Waals Layered Materials Under In-Plane Strain. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 253-258.	3.0	3
4	Strain-driven autonomous control of cation distribution for artificial ferroelectrics. Science Advances, 2021, 7, .	10.3	5
5	Maximizing Information: A Machine Learning Approach for Analysis of Complex Nanoscale Electromechanical Behavior in Defect-Rich PZT Films. Small Methods, 2021, 5, e2100552.	8.6	9
6	Simultaneous mapping of nanoscale dielectric, electrochemical, and ferroelectric surface properties of van der Waals layered ferroelectric via advanced SPM. Applied Physics Letters, 2021, 119, .	3.3	4
7	Biocompatible chitosan-based composites with properties suitable for hyperthermia therapy. Journal of Materials Chemistry B, 2020, 8, 1256-1265.	5.8	35
8	Tunable quadruple-well ferroelectric van der Waals crystals. Nature Materials, 2020, 19, 43-48.	27.5	140
9	Piezoelectric domain walls in van der Waals antiferroelectric $\text{CuInP}_2\text{Se}_6$. Nature Communications, 2020, 11, 3623.	12.8	47
10	Local Strain and Polarization Mapping in Ferrielectric Materials. ACS Applied Materials & Interfaces, 2020, 12, 38546-38553.	8.0	14
11	Super-resolution and signal separation in contact Kelvin probe force microscopy of electrochemically active ferroelectric materials. Journal of Applied Physics, 2020, 128, 055101.	2.5	6
12	The Concept of Negative Capacitance in Ionically Conductive Van der Waals Ferroelectrics. Advanced Energy Materials, 2020, 10, 2001726.	19.5	30
13	Piezoresponse amplitude and phase quantified for electromechanical characterization. Journal of Applied Physics, 2020, 128, .	2.5	31
14	Quantitative Aberration-Corrected STEM for Studies of Oxide Superlattices and Topological Defects in Layered Ferroelectrics. Microscopy and Microanalysis, 2020, 26, 1194-1195.	0.4	0
15	Alignment of Polarization against an Electric Field in van der Waals Ferroelectrics. Physical Review Applied, 2020, 13, .	3.8	34
16	Domains and Topological Defects in Layered Ferrielectric Materials: Implications for Nanoelectronics. ACS Applied Nano Materials, 2020, 3, 8161-8166.	5.0	4
17	Imaging mechanism for hyperspectral scanning probe microscopy via Gaussian process modelling. Npj Computational Materials, 2020, 6, .	8.7	19
18	Estimating Preisach Density via Subset Selection. IEEE Access, 2020, 8, 61767-61774.	4.2	1

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19	To switch or not to switch – a machine learning approach for ferroelectricity. <i>Nanoscale Advances</i> , 2020, 2, 2063-2072.	4.6	12
20	Toward Electrochemical Studies on the Nanometer and Atomic Scales: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2019, 13, 9735-9780.	14.6	32
21	Room-Temperature Electrocaloric Effect in Layered Ferroelectric $\text{CuInP}_{2}\text{S}_{6}$ for Solid-State Refrigeration. <i>ACS Nano</i> , 2019, 13, 8760-8765.	14.6	69
22	Eco-friendly preparation of electrically conductive chitosan - reduced graphene oxide flexible bionanocomposites for food packaging and biological applications. <i>Composites Science and Technology</i> , 2019, 173, 53-60.	7.8	90
23	Deep neural networks for understanding noisy data applied to physical property extraction in scanning probe microscopy. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	43
24	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , 2019, 3, .	2.4	47
25	Electromechanical-mnemonic effects in BiFeO_3 for electric field history-dependent crystallographic phase patterning. <i>Journal of Materials Science</i> , 2018, 53, 10231-10239.	3.7	5
26	Dynamic Modes in Kelvin Probe Force Microscopy: Band Excitation and G-Mode. <i>Springer Series in Surface Sciences</i> , 2018, , 49-99.	0.3	3
27	Decoupling Mesoscale Functional Response in PLZT across the Ferroelectric–Relaxor Phase Transition with Contact Kelvin Probe Force Microscopy and Machine Learning. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42674-42680.	8.0	8
28	Revealing the Interplay of Structural Phase Transitions and Ferroelectric Switching in Mixed Phase BiFeO_3 . <i>Advanced Materials Interfaces</i> , 2018, 5, 1801019.	3.7	7
29	Surface Chemistry Controls Anomalous Ferroelectric Behavior in Lithium Niobate. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29153-29160.	8.0	20
30	Locally Controlled Cu-Ion Transport in Layered Ferroelectric $\text{CuInP}_{2}\text{S}_{6}$. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27188-27194.	8.0	68
31	Thermal and aqueous stability improvement of graphene oxide enhanced diphenylalanine nanocomposites. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 172-179.	6.1	18
32	Non-destructive determination of collagen fibril width in extruded collagen fibres by piezoresponse force microscopy. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 055004.	1.2	4
33	Functional and structural effects of layer periodicity in chemical solution-deposited $\text{Pb}(\text{Zr,Ti})\text{O}_3$ thin films. <i>Journal of the American Ceramic Society</i> , 2017, 100, 5561-5572.	3.8	6
34	Biocompatible Gold Nanoparticle Arrays Photodeposited on Periodically Proton Exchanged Lithium Niobate. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1351-1356.	5.2	15
35	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	10
36	Interface modulated currents in periodically proton exchanged Mg doped lithium niobate. <i>Journal of Applied Physics</i> , 2016, 119, 114103.	2.5	2

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37	Piezoresponse Force Microscopy for Bioelectromechanics. , 2016, , 435-450.		1
38	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, 224101.	2.5	10
39	Local piezoresponse and polarization switching in nucleobase thymine microcrystals. Journal of Applied Physics, 2015, 118, .	2.5	11
40	Thickness, humidity, and polarization dependent ferroelectric switching and conductivity in Mg doped lithium niobate. Journal of Applied Physics, 2015, 118, .	2.5	17
41	Bioferroelectricity in Nanostructured Glycine and Thymine: Molecular Modeling and Ferroelectric Properties at the Nanoscale. Ferroelectrics, 2015, 475, 107-126.	0.6	16