

Sabine M Neumayer

List of Publications by Year in descending order

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41
papers

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516710

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times ranked

1174
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable quadruple-well ferroelectric van der Waals crystals. <i>Nature Materials</i> , 2020, 19, 43-48.	27.5	140
2	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
3	Room-Temperature Electrocaloric Effect in Layered Ferroelectric CuInP_2S_6 for Solid-State Refrigeration. <i>ACS Nano</i> , 2019, 13, 8760-8765.	14.6	69
4	Locally Controlled Cu-Ion Transport in Layered Ferroelectric CuInP_2S_6 . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27188-27194.	8.0	68
5	Piezoelectric domain walls in van der Waals antiferroelectric $\text{CuInP}_2\text{Se}_6$. <i>Nature Communications</i> , 2020, 11, 3623.	12.8	47
6	Giant negative electrostriction and dielectric tunability in a van der Waals layered ferroelectric. <i>Physical Review Materials</i> , 2019, 3, .	2.4	47
7	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
8	Biocompatible chitosan-based composites with properties suitable for hyperthermia therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1256-1265.	5.8	35
9	Alignment of Polarization against an Electric Field in van der Waals Ferroelectrics. <i>Physical Review Applied</i> , 2020, 13, .	3.8	34
10	Toward Electrochemical Studies on the Nanometer and Atomic Scales: Progress, Challenges, and Opportunities. <i>ACS Nano</i> , 2019, 13, 9735-9780.	14.6	32
11	Piezoresponse amplitude and phase quantified for electromechanical characterization. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	31
12	The Concept of Negative Capacitance in Ionically Conductive Van der Waals Ferroelectrics. <i>Advanced Energy Materials</i> , 2020, 10, 2001726.	19.5	30
13	Surface Chemistry Controls Anomalous Ferroelectric Behavior in Lithium Niobate. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29153-29160.	8.0	20
14	Imaging mechanism for hyperspectral scanning probe microscopy via Gaussian process modelling. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	19
15	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
16	Thickness, humidity, and polarization dependent ferroelectric switching and conductivity in Mg doped lithium niobate. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	17
17	Bioferroelectricity in Nanostructured Glycine and Thymine: Molecular Modeling and Ferroelectric Properties at the Nanoscale. <i>Ferroelectrics</i> , 2015, 475, 107-126.	0.6	16
18	Ionic Control over Ferroelectricity in 2D Layered van der Waals Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 3018-3026.	8.0	16

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19	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
20	Local Strain and Polarization Mapping in Ferrielectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38546-38553.	8.0	14
21	To switch or not to switch – a machine learning approach for ferroelectricity. <i>Nanoscale Advances</i> , 2020, 2, 2063-2072.	4.6	12
22	Nanoscale Control of Polar Surface Phases in Layered van der Waals CuInP_2S_6 . <i>ACS Nano</i> , 2022, 16, 2452-2460.	14.6	12
23	Local piezoresponse and polarization switching in nucleobase thymine microcrystals. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	11
24	Interface and thickness dependent domain switching and stability in Mg doped lithium niobate. <i>Journal of Applied Physics</i> , 2015, 118, 224101.	2.5	10
25	Influence of annealing on the photodeposition of silver on periodically poled lithium niobate. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	10
26	Maximizing Information: A Machine Learning Approach for Analysis of Complex Nanoscale Electromechanical Behavior in Defect-Rich PZT Films. <i>Small Methods</i> , 2021, 5, e2100552.	8.6	9
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	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
30	Super-resolution and signal separation in contact Kelvin probe force microscopy of electrochemically active ferroelectric materials. <i>Journal of Applied Physics</i> , 2020, 128, 055101.	2.5	6
31	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
32	Strain-driven autonomous control of cation distribution for artificial ferroelectrics. <i>Science Advances</i> , 2021, 7, .	10.3	5
33	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
34	Domains and Topological Defects in Layered Ferrielectric Materials: Implications for Nanoelectronics. <i>ACS Applied Nano Materials</i> , 2020, 3, 8161-8166.	5.0	4
35	Simultaneous mapping of nanoscale dielectric, electrochemical, and ferroelectric surface properties of van der Waals layered ferroelectric via advanced SPM. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	4
36	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

#	ARTICLE	IF	CITATIONS
37	Lowering of χ 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
38	Interface modulated currents in periodically proton exchanged Mg doped lithium niobate. Journal of Applied Physics, 2016, 119, 114103.	2.5	2
39	Piezoresponse Force Microscopy for Bioelectromechanics. , 2016, , 435-450.		1
40	Estimating Preisach Density via Subset Selection. IEEE Access, 2020, 8, 61767-61774.	4.2	1
41	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