

M Brooks Tellekamp

List of Publications by Year in descending order

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28
papers

399
citations

687363

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28
all docs

28
docs citations

28
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilizing Site Disorder in the Development of New Energy-Relevant Semiconductors. ACS Energy Letters, 2020, 5, 2027-2041.	17.4	46
2	Combinatorial Synthesis of Magnesium Tin Nitride Semiconductors. Journal of the American Chemical Society, 2020, 142, 8421-8430.	13.7	42
3	Ternary Nitride Materials: Fundamentals and Emerging Device Applications. Annual Review of Materials Research, 2021, 51, 591-618.	9.3	34
4	Heteroepitaxial Integration of ZnGeN ₂ on GaN Buffers Using Molecular Beam Epitaxy. Crystal Growth and Design, 2020, 20, 1868-1875.	3.0	24
5	Blue-green emission from epitaxial yet cation-disordered ZnGeN ₂ O. Diffusion-Driven Ultralow thermal conductivity in amorphous ZnGeN ₂ O thin films. Physical Review Materials, 2019, 3, .	2.4	23
6	Evidence of a second-order Peierls-driven metal-insulator transition in crystalline NbO ₂ . Physical Review Materials, 2019, 3, .	2.4	18
7	Scalable Memdiodes Exhibiting Rectification and Hysteresis for Neuromorphic Computing. Scientific Reports, 2018, 8, 12935.	2.4	18
8	Metal chalcogenides for neuromorphic computing: emerging materials and mechanisms. Nanotechnology, 2021, 32, 372001.	3.3	17
9	Radiation Effects on LiNbO ₃ Memristors for Neuromorphic Computing Applications. IEEE Transactions on Nuclear Science, 2013, 60, 4555-4562.	2.6	16
10	Molecular Beam Epitaxy Growth of High Crystalline Quality LiNbO ₃ . Journal of Electronic Materials, 2016, 45, 6292-6299.	2.0	15
11	Liquid Phase Electro-Epitaxy of Memristive LiNbO ₂ Crystals. Crystal Growth and Design, 2014, 14, 2218-2222.	2.2	15
12	Using resonant energy X-ray diffraction to extract chemical order parameters in ternary semiconductors. Journal of Materials Chemistry C, 2020, 8, 4350-4356.	3.0	13
13	Temporal versatility from intercalation-based neuromorphic devices exhibiting 150 mV non-volatile operation. Journal of Applied Physics, 2020, 127, .	5.5	13
14	Epitaxy of LiNbO ₃ : Historical Challenges and Recent Success. Crystals, 2021, 11, 397.	2.5	12
15	Evidence of ion intercalation mediated band structure modification and opto-ionic coupling in lithium niobite. Journal of Applied Physics, 2015, 117, .	2.2	11
16	Molecular Beam Epitaxy of lithium niobium oxide multifunctional materials. Journal of Crystal Growth, 2017, 463, 156-161.	2.5	9
17	Observation and mitigation of RF-plasma-induced damage to III-nitrides grown by molecular beam epitaxy. Journal of Applied Physics, 2019, 126, .	1.5	9
18		2.5	9

#	ARTICLE	IF	CITATIONS
19	Spatiotemporal drift-diffusion simulations of analog ionic memristors. Journal of Applied Physics, 2013, 114, .	2.5	8
20	Molecular beam epitaxy growth of niobium oxides by solid/liquid state oxygen source and lithium assisted metal-halide chemistry. Journal of Crystal Growth, 2015, 425, 225-229.	1.5	8
21	Reactive phosphine combinatorial co-sputtering of cation disordered ZnGeP ₂ films. Journal of Materials Chemistry C, 2022, 10, 870-879.	5.5	8
22	The crystallization and properties of sputter deposited lithium niobite. Thin Solid Films, 2016, 609, 6-11.	1.8	7
23	Growth and characterization of homoepitaxial $\text{In}^{2+}\text{-Ga}_{2}\text{O}_{3}$ layers. Journal Physics D: Applied Physics, 2020, 53, 484002.	2.8	7
24	Thin-Film Lithium Niobites and Their Chemical Properties for Lithium-Ion Storage and Diffusion. ChemElectroChem, 2019, 6, 5109-5115.	3.4	6
25	Total-Ionizing-Dose Response of Nb ₂ O ₅ -Based MIM Diodes for Neuromorphic Computing Applications. IEEE Transactions on Nuclear Science, 2018, 65, 78-83.	2.0	4
26	Heteroepitaxial ZnGeN ₂ on AlN: Growth, Structure, and Optical Properties. Crystal Growth and Design, 2022, 22, 1270-1275.	3.0	4
27	Composition dependent electrochemical properties of earth-abundant ternary nitride anodes. APL Materials, 2022, 10, 041109.	5.1	2
28	Self-Healing of Proton Damage in Lithium Niobite (LiNbO_3) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 Science, 2015, 62, 542-547.	2.0	1