M Brooks Tellekamp

List of Publications by Year
in descending order

28	399	687363 13	794594 19
papers	citations	h-index	g-index

28	28	28	509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reactive phosphine combinatorial co-sputtering of cation disordered ZnGeP₂ films. Journal of Materials Chemistry C, 2022, 10, 870-879.	5.5	8
2	Heteroepitaxial ZnGeN₂ on AlN: Growth, Structure, and Optical Properties. Crystal Growth and Design, 2022, 22, 1270-1275.	3.0	4
3	Composition dependent electrochemical properties of earth-abundant ternary nitride anodes. APL Materials, 2022, 10, 041109.	5.1	2
4	Epitaxy of LiNbO3: Historical Challenges and Recent Success. Crystals, 2021, 11, 397.	2.2	11
5	Metal chalcogenides for neuromorphic computing: emerging materials and mechanisms. Nanotechnology, 2021, 32, 372001.	2.6	16
6	Ternary Nitride Materials: Fundamentals and Emerging Device Applications. Annual Review of Materials Research, 2021, 51, 591-618.	9.3	34
7	Temporal versatility from intercalation-based neuromorphic devices exhibiting 150â€‰mV non-volatile operation. Journal of Applied Physics, 2020, 127, .	2.5	12
8	Using resonant energy X-ray diffraction to extract chemical order parameters in ternary semiconductors. Journal of Materials Chemistry C, 2020, 8, 4350-4356.	5.5	13
9	Heteroepitaxial Integration of ZnGeN₂ on GaN Buffers Using Molecular Beam Epitaxy. Crystal Growth and Design, 2020, 20, 1868-1875.	3.0	24
10	Utilizing Site Disorder in the Development of New Energy-Relevant Semiconductors. ACS Energy Letters, 2020, 5, 2027-2041.	17.4	46
11	Combinatorial Synthesis of Magnesium Tin Nitride Semiconductors. Journal of the American Chemical Society, 2020, 142, 8421-8430.	13.7	42
12	Growth and characterization of homoepitaxial Î²-Ga₂O₃ layers. Journal Physics D: Applied Physics, 2020, 53, 484002.	2.8	7
13	Observation and mitigation of RF-plasma-induced damage to III-nitrides grown by molecular beam epitaxy. Journal of Applied Physics, 2019, 126, .	2.5	9
14	Thinâ€Film Lithium Niobites and Their Chemical Properties for Lithiumâ€Ion Storage and Diffusion. ChemElectroChem, 2019, 6, 5109-5115.	3.4	6
15	Diffuson-driven ultralow thermal conductivity in amorphous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math> thin	2.4	18
16	Blue-green emission from epitaxial yet cation-disordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>ZnGeN</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mi mathvariant="normal">O</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	2.4	23
17	Evidence of a second-order Peierls-driven metal-insulator transition in crystalline NbO2. Physical Review Materials, 2019, 3, .	2.4	18
18	Total-Ionizing-Dose Response of Nb₂O₅-Based MIM Diodes for Neuromorphic Computing Applications. IEEE Transactions on Nuclear Science, 2018, 65, 78-83.	2.0	4

#	Article	IF	Citations
19	Scalable Memdiodes Exhibiting Rectification and Hysteresis for Neuromorphic Computing. Scientific Reports, 2018, 8, 12935.	3.3	17
20	Molecular Beam Epitaxy of lithium niobium oxide multifunctional materials. Journal of Crystal Growth, 2017, 463, 156-161.	1.5	9
21	The crystallization and properties of sputter deposited lithium niobite. Thin Solid Films, 2016, 609, 6-11.	1.8	7
22	Molecular Beam Epitaxy Growth of High Crystalline Quality LiNbO3. Journal of Electronic Materials, 2016, 45, 6292-6299.	2.2	15
23	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
24	Self-Healing of Proton Damage in Lithium Niobite (<formula formulatype="inline"><tex) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 Science, 2015, 62, 542-547.	2.0	1
25	Evidence of ion intercalation mediated band structure modification and opto-ionic coupling in lithium niobite. Journal of Applied Physics, 2015, 117, .	2.5	9
26	Liquid Phase Electro-Epitaxy of Memristive LiNbO₂ Crystals. Crystal Growth and Design, 2014, 14, 2218-2222.	3.0	13
27	Radiation Effects on LiNbO$_2$ Memristors for Neuromorphic Computing Applications. IEEE Transactions on Nuclear Science, 2013, 60, 4555-4562.	2.0	15
28	Spatiotemporal drift-diffusion simulations of analog ionic memristors. Journal of Applied Physics, 2013, 114, .	2.5	8