Kevin R Talley

List of Publications by Year
in descending order

14	380	759233 12	1058476 14
papers	citations	h-index	g-index

16	16	16	393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Piezoelectric Response of AlN via CrN Alloying. Physical Review Applied, 2018, 9, .	3.8	57
2	COMBIgor: Data-Analysis Package for Combinatorial Materials Science. ACS Combinatorial Science, 2019, 21, 537-547.	3.8	52
3	Implications of heterostructural alloying for enhanced piezoelectric performance of (Al,Sc)N. Physical Review Materials, 2018, 2, .	2.4	47
4	Thin Film Synthesis of Semiconductors in the Mgâ€“Sbâ€“N Materials System. Chemistry of Materials, 2019, 31, 8717-8724.	6.7	46
5	Synthesis of LaWN ₃ nitride perovskite with polar symmetry. Science, 2021, 374, 1488-1491.	12.6	43
6	Composition, structure, and semiconducting properties of Mg _x Zr_{2â‹’x}N₂ thin films. Japanese Journal of Applied Physics, 2019, 58, SC1015.	1.5	22
7	Understanding Reproducibility of SputterâEDeposited Metastable Ferroelectric Wurtzite Al_{0.6}Sc_{0.4}N Films Using In Situ Optical Emission Spectrometry. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100043.	2.4	20
8	Research data infrastructure for high-throughput experimental materials science. Patterns, 2021, 2, 100373.	5.9	19
9	Automated algorithms for band gap analysis from optical absorption spectra. Materials Discovery, 2017, 10, 43-52.	3.3	17
10	Synthesis of Lanthanum Tungsten Oxynitride Perovskite Thin Films. Advanced Electronic Materials, 2019, 5, 1900214.	5.1	15
11	Review of high-throughput approaches to search for piezoelectric nitrides. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	14
12	Combinatorial Nitrogen Gradients in Sputtered Thin Films. ACS Combinatorial Science, 2018, 20, 436-442.	3.8	13
13	Influence of hydrogen and oxygen on the structure and properties of sputtered magnesium zirconium oxynitride thin films. Journal of Materials Chemistry A, 2020, 8, 9364-9372.	10.3	11
14	Instrument for spatially resolved, temperature-dependent electrochemical impedance spectroscopy of thin films under locally controlled atmosphere. Review of Scientific Instruments, 2021, 92, 065105.	1.3	4