

Matthew Horton

List of Publications by Year in descending order

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37
papers

1,149
citations

394421

19
h-index

395702

33
g-index

39
all docs

39
docs citations

39
times ranked

1597
citing authors

#	ARTICLE	IF	CITATIONS
19	<i>ChemEnv</i> : a fast and robust coordination environment identification tool. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 683-695.	1.1	21
20	The Materials Project: Accelerating Materials Design Through Theory-Driven Data and Tools. , 2020, , 1751-1784.		14
21	Optical and structural properties of dislocations in InGaN. Journal of Applied Physics, 2019, 125, .	2.5	11
22	Materials design of perovskite solid solutions for thermochemical applications. Energy and Environmental Science, 2019, 12, 1369-1384.	30.8	122
23	The Materials Project: Accelerating Materials Design Through Theory-Driven Data and Tools. , 2018, , 1-34.		11
24	Atomic Resolution Imaging of Dislocations in AlGaN and the Efficiency of UV LEDs. Microscopy and Microanalysis, 2018, 24, 4-5.	0.4	0
25	Structure-Property Relationship of Low-Dimensional Layered GaSe _x Te _{1-x} Alloys. Chemistry of Materials, 2018, 30, 4226-4232.	6.7	16
26	Alloy fluctuations at dislocations in III-nitrides: identification and impact on optical properties. , 2018, , .		1
27	Carrier localization in the vicinity of dislocations in InGaN. Journal of Applied Physics, 2017, 121, .	2.5	44
28	Alloy composition fluctuations and percolation in semiconductor alloy quantum wells. Applied Physics Letters, 2017, 110, .	3.3	3
29	Dislocations in AlGaN: Core Structure, Atom Segregation, and Optical Properties. Nano Letters, 2017, 17, 4846-4852.	9.1	29
30	Atomate: A high-level interface to generate, execute, and analyze computational materials science workflows. Computational Materials Science, 2017, 139, 140-152.	3.0	223
31	3D Imaging of Dislocations. Physics Magazine, 2017, 10, .	0.1	2
32	Assessing Local Structure Motifs Using Order Parameters for Motif Recognition, Interstitial Identification, and Diffusion Path Characterization. Frontiers in Materials, 2017, 4, .	2.4	54
33	Dislocation core structures in (0001) InGaN. Journal of Applied Physics, 2016, 119, .	2.5	16
34	Dislocation core structures in Si-doped GaN. Applied Physics Letters, 2015, 107, .	3.3	15
35	Segregation of In to Dislocations in InGaN. Nano Letters, 2015, 15, 923-930.	9.1	54
36	Structure and electronic properties of mixed () dislocation cores in GaN. Journal of Applied Physics, 2014, 116, .	2.5	15

#	ARTICLE	IF	CITATIONS
37	Mg Doping Affects Dislocation Core Structures in GaN. Physical Review Letters, 2013, 111, 025502.	7.8	52