

Daniel A Rehn

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

290
citations

1039880

9
h-index

887953

17
g-index

23
all docs

23
docs citations

23
times ranked

445
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytic framework for students'™ use of mathematics in upper-division physics. Physical Review Physics Education Research, 2013, 9, .	1.7	47
2	Defect-Mediated Alloying of Monolayer Transition-Metal Dichalcogenides. ACS Nano, 2018, 12, 12795-12804.	7.3	42
3	Theoretical potential for low energy consumption phase change memory utilizing electrostatically-induced structural phase transitions in 2D materials. Npj Computational Materials, 2018, 4, .	3.5	40
4	Reversible Electrochemical Phase Change in Monolayer to Bulk-like MoTe ₂ by Ionic Liquid Gating. ACS Nano, 2020, 14, 2894-2903.	7.3	37
5	NJOY21: Next generation nuclear data processing capabilities. EPJ Web of Conferences, 2017, 146, 09040.	0.1	18
6	Spectrum of Exfoliable 1D van der Waals Molecular Wires and Their Electronic Properties. ACS Nano, 2021, 15, 9851-9859.	7.3	16
7	Highly Efficient Uniaxial In-Plane Stretching of a 2D Material via Ion Insertion. Advanced Materials, 2021, 33, e2101875.	11.1	16
8	Multiphase tin equation of state using density functional theory. Physical Review B, 2021, 103, .	1.1	14
9	First-principles investigation of uranium mononitride (UN): Effect of magnetic ordering, spin-orbit interactions and exchange correlation functional. Journal of Nuclear Materials, 2022, 559, 153401.	1.3	14
10	Memristors with distorted structures. Nature Materials, 2019, 18, 8-9.	13.3	9
11	Affordances of play for student agency and student-centered pedagogy. AIP Conference Proceedings, 2013, , .	0.3	7
12	Dirac's equation and its implications for density functional theory based calculations of materials containing heavy elements. Physical Review B, 2020, 101, .	1.1	7
13	ODE integration schemes for plane-wave real-time time-dependent density functional theory. Journal of Chemical Physics, 2019, 150, 014101.	1.2	6
14	Refrigeration in 2D: Electrostaticaloric effect in monolayer materials. Physical Review Materials, 2018, 2, .	0.9	5
15	New Assembly-Free Bulk Layered Inorganic Vertical Heterostructures with Infrared and Optical Bandgaps. Nano Letters, 2019, 19, 142-149.	4.5	3
16	Effect of ionic disorder on the principal shock Hugoniot. Physical Review E, 2021, 104, 055208.	0.8	2
17	Electrochemistry in an MeV UED System: The Structural Dynamics of In Situ Lithium-intercalated WTe ₂ . Microscopy and Microanalysis, 2020, 26, 1152-1154.	0.2	1
18	Constructing a Multiple-choice Assessment for Upper-division Quantum Physics from an Open-ended Tool. , 0, , .		0