

# Dennis S Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

872  
citations

759233

12  
h-index

940533

16  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observing crystal nucleation in four dimensions using atomic electron tomography. Nature, 2019, 570, 500-503.	27.8	219
2	Determining the three-dimensional atomic structure of an amorphous solid. Nature, 2021, 592, 60-64.	27.8	193
3	Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. Nature Materials, 2020, 19, 867-873.	27.5	96
4	Separating the configurational and vibrational entropy contributions in metallic glasses. Nature Physics, 2017, 13, 900-905.	16.7	83
5	Nuclear quantum effect with pure anharmonicity and the anomalous thermal expansion of silicon. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1992-1997.	7.1	68
6	Phonon anharmonicity in silicon from 100 to 1500 K. Physical Review B, 2015, 91, .	3.2	47
7	Three-dimensional atomic packing in amorphous solids with liquid-like structure. Nature Materials, 2022, 21, 95-102.	27.5	44
8	Intrinsic exciton transitions in GaN. Journal of Applied Physics, 1998, 83, 455-461.	2.5	43
9	Temperature-dependent phonon lifetimes and thermal conductivity of silicon by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2020, 102, .	3.2	18
10	Phonon quarticity induced by changes in phonon-tracked hybridization during lattice expansion and its stabilization of rutile $\text{TiO}_2$ . Physical Review B, 2015, 92, .	3.2	16
11	Ptychographic atomic electron tomography: Towards three-dimensional imaging of individual light atoms in materials. Physical Review B, 2020, 102, .	3.2	14
12	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. Science Advances, 2021, 7, eabi6699.	10.3	13
13	Temperature dependence of phonons in $\text{FeGe}_2$ . Physical Review Materials, 2018, 2, .	2.4	9
14	Thermal expansion and phonon anharmonicity of cuprite studied by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2022, 105, .	3.2	5
15	The Influence of Cr-Additives on the Polarization Resistance of Praseodymium-Doped Ceria Cathodes for Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2022, 169, 044530.	2.9	3
16	Determining the 3D Atomic Coordinates and Crystal Defects in 2D Materials with Picometer Precision. Microscopy and Microanalysis, 2019, 25, 404-405.	0.4	1
17	Atomic Electron Tomography: Adding a New Dimension to See Single Atoms in Materials. Microscopy and Microanalysis, 2018, 24, 558-559.	0.4	0
18	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. Microscopy and Microanalysis, 2019, 25, 398-399.	0.4	0

#	ARTICLE	IF	CITATIONS
19	4D Atomic Electron Tomography. Microscopy and Microanalysis, 2019, 25, 1814-1815.	0.4	0