

# Yongsoo Yang

## List of Publications by Year in descending order

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39  
papers

1,123  
citations

567281

15  
h-index

501196

28  
g-index

43  
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43  
docs citations

43  
times ranked

1857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of Three-Dimensional Atomic Structure of Twinned Metallic Nanoparticles and Their Catalytic Properties. <i>Nano Letters</i> , 2022, 22, 665-672.	9.1	17
2	A measure of active interfaces in supported catalysts for high-temperature reactions. <i>CheM</i> , 2022, 8, 815-835.	11.7	9
3	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. <i>Nature</i> , 2022, 603, 631-636.	27.8	31
4	Variance-aware weight quantization of multi-level resistive switching devices based on Pt/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
5	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. <i>ACS Nano</i> , 2021, 15, 3971-3995.	14.6	36
6	Single-atom level determination of 3-dimensional surface atomic structure via neural network-assisted atomic electron tomography. <i>Nature Communications</i> , 2021, 12, 1962.	12.8	16
7	Uncovering the Conformational Distribution of a Small Protein with Nanoparticle-Aided Cryo-Electron Microscopy Sampling. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6565-6573.	4.6	4
8	Capturing the Atomic Coordinates of Surface and Subsurface Structure in 4D with Atomic Electron Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 1794-1796.	0.4	0
9	Imaging Nucleation, Growth and Disorder at the Single-atom Level by Atomic Electron Tomography (AET). <i>Microscopy and Microanalysis</i> , 2020, 26, 1848-1850.	0.4	0
10	Atomic Electron Tomography: Past, Present and Future. <i>Microscopy and Microanalysis</i> , 2020, 26, 652-654.	0.4	1
11	Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. <i>Nature Materials</i> , 2020, 19, 867-873.	27.5	96
12	Atomic electron tomography in three and four dimensions. <i>MRS Bulletin</i> , 2020, 45, 290-297.	3.5	28
13	3D Structure Determination of Pt-based Nanocatalysts at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2019, 25, 398-399.	0.4	0
14	Determining the 3D Atomic Coordinates and Crystal Defects in 2D Materials with Picometer Precision. <i>Microscopy and Microanalysis</i> , 2019, 25, 404-405.	0.4	1
15	4D Atomic Electron Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1814-1815.	0.4	0
16	Data Acquisition in 4D Atomic Electron Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 1816-1817.	0.4	0
17	Observing crystal nucleation in four dimensions using atomic electron tomography. <i>Nature</i> , 2019, 570, 500-503.	27.8	219
18	GENFIRE: from Precisely Localizing Single Atoms in Materials to High Resolution 3D Imaging of Cellular Structures. <i>Microscopy and Microanalysis</i> , 2018, 24, 1446-1447.	0.4	0

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19	Atomic Electron Tomography: Adding a New Dimension to See Single Atoms in Materials. <i>Microscopy and Microanalysis</i> , 2018, 24, 558-559.	0.4	0
20	Single-shot 3D coherent diffractive imaging of core-shell nanoparticles with elemental specificity. <i>Scientific Reports</i> , 2018, 8, 8284.	3.3	10
21	Deciphering chemical order/disorder and material properties at the single-atom level. <i>Nature</i> , 2017, 542, 75-79.	27.8	243
22	GENFIRE: A generalized Fourier iterative reconstruction algorithm for high-resolution 3D imaging. <i>Scientific Reports</i> , 2017, 7, 10409.	3.3	71
23	GENFIRE: A Generalized Fourier Iterative Reconstruction Algorithm for High-Resolution 3D Electron and X-ray Imaging. <i>Microscopy and Microanalysis</i> , 2017, 23, 128-129.	0.4	0
24	3D Imaging of Nanoalloy Catalysts at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2017, 23, 2032-2033.	0.4	0
25	Atomic Electron Tomography: Probing 3D Structure and Material Properties at the Single-Atom Level. <i>Microscopy and Microanalysis</i> , 2017, 23, 1886-1887.	0.4	0
26	Stabilization of orthorhombic phase in single-crystal ZnSnN <sub>2</sub> films. <i>AIP Advances</i> , 2016, 6, .	1.3	38
27	Origin of thickness dependence of structural phase transition temperatures in highly strained BiFeO <sub>3</sub> thin films. <i>APL Materials</i> , 2016, 4, 036106.	5.1	7
28	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. <i>Scientific Data</i> , 2016, 3, 160041.	5.3	42
29	Three-Dimensional Determination of the Coordinates of Individual Atoms in Materials. <i>Microscopy and Microanalysis</i> , 2016, 22, 916-917.	0.4	0
30	Thin Films: Understanding Strain-Induced Phase Transformations in BiFeO <sub>3</sub> Thin Films ( <i>Adv. Sci.</i> 8/2015). <i>Advanced Science</i> , 2015, 2, .	11.2	1
31	Understanding Strain-Induced Phase Transformations in BiFeO <sub>3</sub> Thin Films. <i>Advanced Science</i> , 2015, 2, 1500041.	11.2	15
32	Three-dimensional coordinates of individual atoms in materials revealed by electron Tomography. <i>Nature Materials</i> , 2015, 14, 1099-1103.	27.5	172
33	Spatial Mapping of Morphology and Electronic Properties of Air-Printed Pentacene Thin Films. <i>Advanced Functional Materials</i> , 2014, 24, 3907-3916.	14.9	4
34	Organic Electronics: Spatial Mapping of Morphology and Electronic Properties of Air-Printed Pentacene Thin Films ( <i>Adv. Funct. Mater.</i> 25/2014). <i>Advanced Functional Materials</i> , 2014, 24, 3906-3906.	14.9	0
35	Growth and modelling of spherical crystalline morphologies of molecular materials. <i>Nature Communications</i> , 2014, 5, 5204.	12.8	5
36	Structural investigation of ZnO O-polar () surfaces and Schottky interfaces. <i>Surface Science</i> , 2013, 610, 22-26.	1.9	3

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37	Origin of stress and enhanced carrier transport in solution-cast organic semiconductor films. Journal of Applied Physics, 2013, 114, 093501.	2.5	17
38	Untilting BiFeO <sub>3</sub> : The influence of substrate boundary conditions in ultra-thin BiFeO <sub>3</sub> on SrTiO <sub>3</sub> . APL Materials, 2013, 1, .	5.1	18
39	The presence of a (1 Å <sup>-1</sup> - 1) oxygen overlayer on ZnO(0001) surfaces and at Schottky interfaces. Journal of Physics Condensed Matter, 2012, 24, 095007.	1.8	11