

Ai Leen Koh

List of Publications by Year in descending order

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73
papers

9,390
citations

87843

38
h-index

95218

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73
all docs

73
docs citations

73
times ranked

16594
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Resolution Observation of the Oxidation of Niobium Oxide Nanowires: Implications for Renewable Energy Applications. ACS Applied Nano Materials, 2020, 3, 9285-9292.	2.4	4
2	Pro-ferrocyclic nanoparticles are specifically taken up by lesional macrophages and prevent atherosclerosis. Nature Nanotechnology, 2020, 15, 154-161.	15.6	173
3	High Resolution In Situ and Transmission Environmental Electron Microscopy of Material Reactions. Microscopy and Microanalysis, 2019, 25, 3-4.	0.2	1
4	Understanding the Active Sites of CO Hydrogenation on Pt-Co Catalysts Prepared Using Atomic Layer Deposition. Journal of Physical Chemistry C, 2018, 122, 2184-2194.	1.5	29
5	Rare-Earth-Doped Nanoparticles for Short-Wave Infrared Fluorescence Bioimaging and Molecular Targeting of $I\pm V I^2 3$ -Expressing Tumors. Molecular Imaging, 2018, 17, 153601211879913.	0.7	10
6	Using Liquid Electrolytes in Dielectric Reliability Studies. , 2018, , .		0
7	Visualizing Facet-Dependent Hydrogenation Dynamics in Individual Palladium Nanoparticles. Nano Letters, 2018, 18, 5357-5363.	4.5	31
8	Contributions to High Resolution and In Situ Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 10-11.	0.2	1
9	Clean Transfer of Large Graphene Single Crystals for High-Contactness Suspended Membranes and Liquid Cells. Advanced Materials, 2017, 29, 1700639.	11.1	80
10	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. Nano Research, 2017, 10, 1163-1177.	5.8	66
11	Rapid Flame Synthesis of Atomically Thin MoO_3 down to Monolayer Thickness for Effective Hole Doping of WSe_2 . Nano Letters, 2017, 17, 3854-3861.	4.5	120
12	Distinguishing Oxygen Vacancy Electromigration and Conductive Filament Formation in TiO_2 Resistance Switching Using Liquid Electrolyte Contacts. Nano Letters, 2017, 17, 4390-4399.	4.5	50
13	Assessing and ameliorating the influence of the electron beam on carbon nanotube oxidation in environmental transmission electron microscopy. Ultramicroscopy, 2017, 176, 132-138.	0.8	14
14	Atomic structure of sensitive battery materials and interfaces revealed by cryo-electron microscopy. Science, 2017, 358, 506-510.	6.0	1,039
15	Unveiling the Atomistic Processes of the Accelerated Decomposition of 8.5 mol% Y_2O_3 -stabilized ZrO_2 by Environmental TEM. Microscopy and Microanalysis, 2017, 23, 2034-2035.	0.2	0
16	Intrinsic Chirality Origination in Carbon Nanotubes. ACS Nano, 2017, 11, 9941-9949.	7.3	23
17	Nature and Distribution of Stable Subsurface Oxygen in Copper Electrodes During Electrochemical CO_2 Reduction. Journal of Physical Chemistry C, 2017, 121, 25003-25009.	1.5	98
18	Synthesis and characterization of graphite-encapsulated iron nanoparticles from ball milling-assisted low-pressure chemical vapor deposition. Carbon, 2017, 124, 170-179.	5.4	16

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19	In Situ Field Emission of Carbon Nanotubes in Oxygen Using Environmental TEM and the Influence of the Imaging Electron Beam. <i>Microscopy and Microanalysis</i> , 2017, 23, 910-911.	0.2	1
20	Structure Determination of a Water-Soluble 144-Gold Atom Particle at Atomic Resolution by Aberration-Corrected Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 11866-11871.	7.3	47
21	Revealing Nanoscale Passivation and Corrosion Mechanisms of Reactive Battery Materials in Gas Environments. <i>Nano Letters</i> , 2017, 17, 5171-5178.	4.5	88
22	Antiphase Ordered Domains and Optical Diffraction for Copper-Gold and Samarium-doped Ceria: Reflections on Gareth Thomas. <i>Microscopy and Microanalysis</i> , 2016, 22, 1238-1239.	0.2	2
23	Tuning Chemical Potential Difference across Alternately Doped Graphene p-n Junctions for High-Efficiency Photodetection. <i>Nano Letters</i> , 2016, 16, 4094-4101.	4.5	34
24	Reconstructing solute-induced phase transformations within individual nanocrystals. <i>Nature Materials</i> , 2016, 15, 768-774.	13.3	72
25	The dissipation of field emitting carbon nanotubes in an oxygen environment as revealed by in situ transmission electron microscopy. <i>Nanoscale</i> , 2016, 8, 16405-16415.	2.8	19
26	Evolution of Plasmonic Metamolecule Modes in the Quantum Tunneling Regime. <i>ACS Nano</i> , 2016, 10, 1346-1354.	7.3	51
27	Surface Monocrystallization of Copper Foil for Fast Growth of Large Single-Crystal Graphene under Free Molecular Flow. <i>Advanced Materials</i> , 2016, 28, 8968-8974.	11.1	128
28	Parallel preparation of plan-view transmission electron microscopy specimens by vapor-phase etching with integrated etch stops. <i>Ultramicroscopy</i> , 2016, 166, 39-47.	0.8	5
29	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. <i>Advanced Materials</i> , 2016, 28, 4671-4677.	11.1	69
30	Torsional Deformations in Subnanometer MoS Interconnecting Wires. <i>Nano Letters</i> , 2016, 16, 1210-1217.	4.5	30
31	Chemical and Phase Evolution of Amorphous Molybdenum Sulfide Catalysts for Electrochemical Hydrogen Production. <i>ACS Nano</i> , 2016, 10, 624-632.	7.3	109
32	Kinetic Study of Hydrogen Evolution Reaction over Strained MoS ₂ with Sulfur Vacancies Using Scanning Electrochemical Microscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 5123-5129.	6.6	244
33	Surface Engineering of Copper Foils for Growing Centimeter-Sized Single-Crystalline Graphene. <i>ACS Nano</i> , 2016, 10, 2922-2929.	7.3	89
34	Oxidation of Carbon Nanotubes in an Ionizing Environment. <i>Nano Letters</i> , 2016, 16, 856-863.	4.5	34
35	Activating and optimizing MoS ₂ basal planes for hydrogen evolution through the formation of strained sulphur vacancies. <i>Nature Materials</i> , 2016, 15, 48-53.	13.3	2,021
36	Preliminary Investigations of Chemical & Morphological Inhomogeneities in La _{0.6} Sr _{0.4} CoO _{3-δ} Single-Crystalline Perovskite Thin Films by ACTEM and STEM-EELS. <i>Microscopy and Microanalysis</i> , 2015, 21, 1055-1056.	0.2	4

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37	Efficient Radioisotope Energy Transfer by Gold Nanoclusters for Molecular Imaging. <i>Small</i> , 2015, 11, 4002-4008.	5.2	23
38	Evaluating Adhesion Layers for Plasmonic Nanostructures with Monochromated STEM-EELS and Surface Enhanced Raman Spectroscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 2055-2056.	0.2	1
39	Rotating Anisotropic Crystalline Silicon Nanoclusters in Graphene. <i>ACS Nano</i> , 2015, 9, 9497-9506.	7.3	15
40	van Hove Singularity Enhanced Photochemical Reactivity of Twisted Bilayer Graphene. <i>Nano Letters</i> , 2015, 15, 5585-5589.	4.5	59
41	High-Density 2D Homo- and Hetero- Plasmonic Dimers with Universal Sub-10-nm Gaps. <i>ACS Nano</i> , 2015, 9, 9331-9339.	7.3	51
42	X-ray-Induced Shortwave Infrared Biomedical Imaging Using Rare-Earth Nanoprobes. <i>Nano Letters</i> , 2015, 15, 96-102.	4.5	120
43	The Stanford Nanocharacterization Laboratory (SNL) and Recent Applications of an Aberration-Corrected Environmental Transmission Electron Microscope. <i>Advanced Engineering Materials</i> , 2014, 16, 476-481.	1.6	8
44	Controlling sulphur precursor addition for large single crystal domains of WS ₂ . <i>Nanoscale</i> , 2014, 6, 12096-12103.	2.8	149
45	Electron microscopy of gold nanoparticles at atomic resolution. <i>Science</i> , 2014, 345, 909-912.	6.0	269
46	In situ detection of hydrogen-induced phase transitions in individual palladium nanocrystals. <i>Nature Materials</i> , 2014, 13, 1143-1148.	13.3	261
47	Construction and Validation of Nano Gold Tripods for Molecular Imaging of Living Subjects. <i>Journal of the American Chemical Society</i> , 2014, 136, 3560-3571.	6.6	170
48	Imaging Perpendicular Magnetic Domains in Plan-view Using Lorentz Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2014, 20, 286-287.	0.2	0
49	A Metafluid Exhibiting Strong Optical Magnetism. <i>Nano Letters</i> , 2013, 13, 4137-4141.	4.5	121
50	Spatial Variation of Available Electronic Excitations within Individual Quantum Dots. <i>Nano Letters</i> , 2013, 13, 716-721.	4.5	13
51	Observation of Quantum Tunneling between Two Plasmonic Nanoparticles. <i>Nano Letters</i> , 2013, 13, 564-569.	4.5	472
52	Observations of Carbon Nanotube Oxidation in an Aberration-Corrected Environmental Transmission Electron Microscope. <i>ACS Nano</i> , 2013, 7, 2566-2572.	7.3	56
53	Aberration-Corrected TEM Imaging of Oxygen Occupancy in YSZ. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1156-1160.	2.1	22
54	Oxidation Studies of Carbon Nanotubes for Applications as X-Ray Field Emitters Using an Aberration-Corrected, Environmental TEM. <i>Microscopy and Microanalysis</i> , 2013, 19, 466-467.	0.2	0

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55	3D Reconstruction of VZV Infected Cell Nuclei and PML Nuclear Cages by Serial Section Array Scanning Electron Microscopy and Electron Tomography. <i>PLoS Pathogens</i> , 2012, 8, e1002740.	2.1	46
56	Aberration-Corrected Transmission Electron Microscopy of the Intergranular Phase in Magnetic Recording Media. <i>Nano Letters</i> , 2012, 12, 2595-2598.	4.5	3
57	Quantum plasmon resonances of individual metallic nanoparticles. <i>Nature</i> , 2012, 483, 421-427.	13.7	991
58	Deciphering Surface Enhanced Raman Scattering Activity of Gold Nanoworms through Optical Correlations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20515-20522.	1.5	11
59	Fabrication of planar, layered nanoparticles using tri-layer resist templates. <i>Nanotechnology</i> , 2011, 22, 185302.	1.3	22
60	High-Resolution Mapping of Electron-Beam-Excited Plasmon Modes in Lithographically Defined Gold Nanostructures. <i>Nano Letters</i> , 2011, 11, 1323-1330.	4.5	253
61	Scanning Electron Microscopy and Surface Enhanced Raman Spectroscopy Correlation Studies of Functionalized Composite Organic-Inorganic SERS Nanoparticles on Cancer Cells. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1316, 1.	0.1	0
62	A Novel Method for Detection of Phosphorylation in Single Cells by Surface Enhanced Raman Scattering (SERS) using Composite Organic-Inorganic Nanoparticles (COINs). <i>PLoS ONE</i> , 2009, 4, e5206.	1.1	39
63	Particle Size, Surface Coating, and PEGylation Influence the Biodistribution of Quantum Dots in Living Mice. <i>Small</i> , 2009, 5, 126-134.	5.2	418
64	Formation and properties of magnetic chains for 100nm nanoparticles used in separations of molecules and cells. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1452-1458.	1.0	24
65	Electron Energy-Loss Spectroscopy (EELS) of Surface Plasmons in Single Silver Nanoparticles and Dimers: Influence of Beam Damage and Mapping of Dark Modes. <i>ACS Nano</i> , 2009, 3, 3015-3022.	7.3	322
66	Cys-diabody Quantum Dot Conjugates (ImmunoQdots) for Cancer Marker Detection. <i>Bioconjugate Chemistry</i> , 2009, 20, 1474-1481.	1.8	52
67	TEM analyses of synthetic anti-ferromagnetic (SAF) nanoparticles fabricated using different release layers. <i>Ultramicroscopy</i> , 2008, 108, 1490-1494.	0.8	7
68	Electron microscopy localization and characterization of functionalized composite organic-inorganic SERS nanoparticles on leukemia cells. <i>Ultramicroscopy</i> , 2008, 109, 111-121.	0.8	48
69	Synthesis and characterization of PVP-coated large core iron oxide nanoparticles as an MRI contrast agent. <i>Nanotechnology</i> , 2008, 19, 165101.	1.3	108
70	Improved QD-BRET conjugates for detection and imaging. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 388-394.	1.0	61
71	Multiplex Detection of Protease Activity with Quantum Dot Nanosensors Prepared by Intein-Mediated Specific Bioconjugation. <i>Analytical Chemistry</i> , 2008, 80, 8649-8655.	3.2	163
72	Real-Time Intravital Imaging of RGD ⁺ Quantum Dot Binding to Luminal Endothelium in Mouse Tumor Neovasculature. <i>Nano Letters</i> , 2008, 8, 2599-2606.	4.5	207

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73	TEM Observations of Bio-Conjugated Streptavidin-Gold Nanoparticles. Materials Research Society Symposia Proceedings, 2007, 1019, 1.	0.1	3