

# Tong Li

## List of Publications by Year in descending order

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55  
papers

3,783  
citations

159525

30  
h-index

175177

52  
g-index

56  
all docs

56  
docs citations

56  
times ranked

5077  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen production from formic acid decomposition at room temperature using a Ag@Pd core-shell nanocatalyst. <i>Nature Nanotechnology</i> , 2011, 6, 302-307.	15.6	1,028
2	$\beta$ phase acts as a switch between dislocation channeling and joint twinning- and transformation-induced plasticity in a metastable $\beta^2$ titanium alloy. <i>Acta Materialia</i> , 2018, 151, 67-77.	3.8	187
3	Sequencing of metals in multivariate metal-organic frameworks. <i>Science</i> , 2020, 369, 674-680.	6.0	165
4	Atomic-scale insights into surface species of electrocatalysts in three dimensions. <i>Nature Catalysis</i> , 2018, 1, 300-305.	16.1	161
5	New insights into the phase transformations to isothermal $\beta$ and $\beta'$ -assisted $\beta$ in near $\beta^2$ -Ti alloys. <i>Acta Materialia</i> , 2016, 106, 353-366.	3.8	155
6	Degradation of iridium oxides via oxygen evolution from the lattice: correlating atomic scale structure with reaction mechanisms. <i>Energy and Environmental Science</i> , 2019, 12, 3548-3555.	15.6	147
7	Nanojunction-Mediated Photocatalytic Enhancement in Heterostructured CdS/ZnO, CdSe/ZnO, and CdTe/ZnO Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7838-7842.	7.2	133
8	Atom probe tomography. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	131
9	Non-syngas direct steam reforming of methanol to hydrogen and carbon dioxide at low temperature. <i>Nature Communications</i> , 2012, 3, 1230.	5.8	129
10	Chemical boundary engineering: A new route toward lean, ultrastrong yet ductile steels. <i>Science Advances</i> , 2020, 6, eaay1430.	4.7	120
11	Characterizing solute hydrogen and hydrides in pure and alloyed titanium at the atomic scale. <i>Acta Materialia</i> , 2018, 150, 273-280.	3.8	81
12	3D atomic-scale imaging of mixed Co-Fe spinel oxide nanoparticles during oxygen evolution reaction. <i>Nature Communications</i> , 2022, 13, 179.	5.8	77
13	The mechanism of $\beta$ -assisted $\beta'$ phase formation in near $\beta^2$ -Ti alloys. <i>Scripta Materialia</i> , 2015, 104, 75-78.	2.6	75
14	Superelasticity and Tunable Thermal Expansion across a Wide Temperature Range. <i>Journal of Materials Science and Technology</i> , 2016, 32, 705-709.	5.6	72
15	The evolution of microstructure and mechanical properties of Ti-5Al-5Mo-5V-2Cr-1Fe during ageing. <i>Journal of Alloys and Compounds</i> , 2015, 629, 260-273.	2.8	56
16	New approaches to nanoparticle sample fabrication for atom probe tomography. <i>Ultramicroscopy</i> , 2015, 159, 413-419.	0.8	56
17	Why Tin-Doping Enhances the Efficiency of Hematite Photoanodes for Water Splitting? The Full Picture. <i>Advanced Functional Materials</i> , 2018, 28, 1804472.	7.8	53
18	Atomic Imaging of Carbon-Supported Pt, Pt/Co, and Ir@Pt Nanocatalysts by Atom-Probe Tomography. <i>ACS Catalysis</i> , 2014, 4, 695-702.	5.5	50

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19	Elastically confined martensitic transformation at the nano-scale in a multifunctional titanium alloy. <i>Acta Materialia</i> , 2017, 135, 330-339.	3.8	50
20	Effect of tool wear evolution on chip formation during dry machining of Ti-6Al-4V alloy. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 126, 13-17.	6.2	47
21	On the role of chemical heterogeneity in phase transformations and mechanical behavior of flash annealed quenching & partitioning steels. <i>Acta Materialia</i> , 2020, 201, 266-277.	3.8	47
22	Tracing the coupled atomic shear and shuffle for a cubic to a hexagonal crystal transition. <i>Scripta Materialia</i> , 2017, 133, 70-74.	2.6	43
23	Unveiling the interface characteristics and their influence on the heat transfer behavior of hot-forged Cu-Cr/Diamond composites. <i>Carbon</i> , 2021, 172, 390-401.	5.4	43
24	Characterization of oxidation and reduction of a platinum-rhodium alloy by atom-probe tomography. <i>Catalysis Today</i> , 2011, 175, 552-557.	2.2	41
25	Acidity enhancement through synergy of penta- and tetra-coordinated aluminum species in amorphous silica networks. <i>Nature Communications</i> , 2020, 11, 225.	5.8	40
26	The influence of partitioning on the growth of intragranular $\beta$ in near- $\beta^2$ Ti alloys. <i>Journal of Alloys and Compounds</i> , 2015, 643, 212-222.	2.8	39
27	Characterization of Oxidation and Reduction of Pt-Ru and Pt-Rh-Ru Alloys by Atom Probe Tomography and Comparison with Pt-Rh. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17633-17640.	1.5	38
28	The role of $\beta$ in the precipitation of $\beta$ in near- $\beta^2$ Ti alloys. <i>Scripta Materialia</i> , 2016, 117, 92-95.	2.6	37
29	Rapid Interchangeable Hydrogen, Hydride, and Proton Species at the Interface of Transition Metal Atom on Oxide Surface. <i>Journal of the American Chemical Society</i> , 2021, 143, 9105-9112.	6.6	37
30	A review of the metastable omega phase in beta titanium alloys: the phase transformation mechanisms and its effect on mechanical properties. <i>International Materials Reviews</i> , 2023, 68, 26-45.	9.4	35
31	Nucleation driving force for $\beta$ -assisted formation of $\beta$ and associated $\beta$ morphology in $\beta^2$ -Ti alloys. <i>Scripta Materialia</i> , 2018, 155, 149-154.	2.6	31
32	Composition of the nanosized orthorhombic $O\alpha^2$ phase and its direct transformation to fine $\beta$ during ageing in metastable $\beta^2$ -Ti alloys. <i>Scripta Materialia</i> , 2019, 170, 183-188.	2.6	30
33	Characterization of Oxidation and Reduction of a Palladium-Rhodium Alloy by Atom-Probe Tomography. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4760-4766.	1.5	28
34	Sintering and biocompatibility of blended elemental Ti-xNb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103691.	1.5	27
35	Enhanced propylene oxide selectivity for gas phase direct propylene epoxidation by lattice expansion of silver atoms on nickel nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 304-312.	10.8	26
36	Direct Detection of Surface Species Formed on Iridium Electrocatalysts during the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21396-21403.	7.2	26

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37	Stabilizing the body centered cubic crystal in titanium alloys by a nano-scale concentration modulation. <i>Journal of Alloys and Compounds</i> , 2017, 700, 155-158.	2.8	25
38	Defect Segregation and Its Effect on the Photoelectrochemical Properties of Ti-Doped Hematite Photoanodes for Solar Water Splitting. <i>Chemistry of Materials</i> , 2020, 32, 1031-1040.	3.2	23
39	Precipitation of the $\beta$ -phase in an ultrafine grained beta-titanium alloy processed by severe plastic deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 605, 144-150.	2.6	22
40	Atomic-Precision Tailoring of Au-Ag Core-Shell Composite Nanoparticles for Direct Electrochemical-Plasmonic Hydrogen Evolution in Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2102517.	7.8	21
41	Continuous and reversible atomic rearrangement in a multifunctional titanium alloy. <i>Materialia</i> , 2018, 2, 1-8.	1.3	20
42	Insights into the Formation, Chemical Stability, and Activity of Transient Ni <sub>y</sub> P@NiO <sub>x</sub> Core-Shell Heterostructures for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 2304-2309.	2.5	20
43	Stabilization of an iridium oxygen evolution catalyst by titanium oxides. <i>JPhys Energy</i> , 2021, 3, 034006.	2.3	19
44	Point-by-point compositional analysis for atom probe tomography. <i>MethodsX</i> , 2014, 1, 12-18.	0.7	17
45	Atomic engineering of platinum alloy surfaces. <i>Ultramicroscopy</i> , 2013, 132, 205-211.	0.8	16
46	Elemental distributions within multiphase quaternary Pb chalcogenide thermoelectric materials determined through three-dimensional atom probe tomography. <i>Nano Energy</i> , 2016, 26, 157-163.	8.2	15
47	Direct Detection of Surface Species Formed on Iridium Electrocatalysts during the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2021, 133, 21566-21573.	1.6	10
48	Synthesis and Characterization of Platinum Nanoparticle Catalysts Capped with Isolated Zinc Species in SBA-15 Channels: The Wall Effect. <i>ACS Applied Nano Materials</i> , 2018, 1, 6603-6612.	2.4	7
49	Titanium-Doped Copper-Diamond Composites Fabricated by Hot-Forging of Powder Mixtures or Cold-Pressed Powder Preforms. <i>Jom</i> , 2019, 71, 4867-4871.	0.9	7
50	Sintering Activated Atomic Palladium Catalysts with High-Temperature Tolerance of $\sim 1,000^\circ\text{C}$ . <i>Cell Reports Physical Science</i> , 2021, 2, 100287.	2.8	7
51	Atom Probe Tomography. <i>Praktische Metallographie/Practical Metallography</i> , 2018, 55, 515-526.	0.1	2
52	Multiscale Characterization of Microstructure in Near-Surface Regions of a 16MnCr5 Gear Wheel After Cyclic Loading. <i>Jom</i> , 2018, 70, 1758-1764.	0.9	0
53	Atomic-scale characterisation of catalyst nanoparticles in ionic liquids by atom probe tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 2530-2531.	0.2	0
54	The effect of laser energy on the measurement of oxide stoichiometry of Co <sub>2</sub> FeO <sub>4</sub> nanoparticles by atom probe tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 990-991.	0.2	0

#	ARTICLE	IF	CITATIONS
55	Tuning Fundamental Properties of Ir-Based Materials to Enhance Their Electrocatalytic Performance in the Oxygen Evolution Reaction. ECS Meeting Abstracts, 2020, MA2020-01, 1557-1557.	0.0	0