

Jung-Woo Lee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nanoscale interplay of native point defects near Sr-deficient Sr _x TiO ₃ /SrTiO ₃ interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	1
2	Cooperative evolution of polar distortion and nonpolar rotation of oxygen octahedra in oxide heterostructures. Science Advances, 2021, 7, .	4.7	20
3	One-dimensional Kronig-Penney superlattices at the LaAlO ₃ /SrTiO ₃ interface. Nature Physics, 2021, 17, 782-787.	6.5	9
4	Electronically reconfigurable complex oxide heterostructure freestanding membranes. Science Advances, 2021, 7, .	4.7	15
5	Relaxation timescales and electron-phonon coupling in optically pumped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ revealed by time-resolved Raman scattering. Physical Review B, 2021, 104, .		
6	Engineered spin-orbit interactions in LaAlO ₃ /SrTiO ₃ -based 1D serpentine electron waveguides. Science Advances, 2020, 6, .	4.7	10
7	Gate-Tunable Optical Nonlinearities and Extinction in Graphene/LaAlO ₃ /SrTiO ₃ Nanostructures. Nano Letters, 2020, 20, 6966-6973.	4.5	6
8	Nanoscale control of LaAlO ₃ /SrTiO ₃ metal-insulator transition using ultra-low-voltage electron-beam lithography. Applied Physics Letters, 2020, 117, .	1.5	5
9	New approaches for achieving more perfect transition metal oxide thin films. APL Materials, 2020, 8, .	2.2	64
10	Pascal conductance series in ballistic one-dimensional LaAlO ₃ /SrTiO ₃ channels. Science, 2020, 367, 769-772.	6.0	43
11	Coupled Nanowires: Long-Range Non-Coulombic Electron-Electron Interactions between LaAlO ₃ /SrTiO ₃ Nanowires (Adv. Mater. Interfaces 15/2019). Advanced Materials Interfaces, 2019, 6, 1970098.	1.9	0
12	Direct Observation of Field-induced Modulation of Two-dimensional Electron Gas at Oxide Interfaces. Microscopy and Microanalysis, 2019, 25, 1848-1849.	0.2	0
13	Large and Reconfigurable Infrared Photothermoelectric Effect at Oxide Interfaces. Nano Letters, 2019, 19, 7149-7154.	4.5	5
14	Strong Aharonov-Bohm quantum interference in simply connected $\text{LaAlO}_3/\text{SrTiO}_3$ structures. Physical Review B, 2019, 100, .		1
15	Inhomogeneous energy landscape in LaAlO ₃ /SrTiO ₃ nanostructures. Nanoscale Horizons, 2019, 4, 1194-1201.	4.1	5
16	Reconfigurable edge-state engineering in graphene using LaAlO ₃ /SrTiO ₃ nanostructures. Applied Physics Letters, 2019, 114, .	1.5	5
17	Over 100-THz bandwidth selective difference frequency generation at LaAlO ₃ /SrTiO ₃ nanojunctions. Light: Science and Applications, 2019, 8, 24.	7.7	6
18	Long-Range Non-Coulombic Electron-Electron Interactions between LaAlO ₃ /SrTiO ₃ Nanowires. Advanced Materials Interfaces, 2019, 6, 1900301.	1.9	5

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19	Probing vacancy behavior across complex oxide heterointerfaces. <i>Science Advances</i> , 2019, 5, eaau8467.	4.7	21
20	Oxygen Stoichiometry Effect on Polar Properties of LaAlO ₃ /SrTiO ₃ . <i>Advanced Functional Materials</i> , 2018, 28, 1707159.	7.8	22
21	One-Dimensional Nature of Superconductivity at the $\text{LaAlO}_3/\text{SrTiO}_3$ Interface. <i>Physical Review Letters</i> , 2018, 120, 147001.	2.9	34
22	Shubnikov-de Haas-like Quantum Oscillations in Artificial One-Dimensional Electron Channels. <i>Physical Review Letters</i> , 2018, 120, 076801.	2.9	19
23	Tunneling Hot Spots in Ferroelectric SrTiO ₃ . <i>Nano Letters</i> , 2018, 18, 491-497.	4.5	30
24	Quantized Ballistic Transport of Electrons and Electron Pairs in LaAlO ₃ /SrTiO ₃ Nanowires. <i>Nano Letters</i> , 2018, 18, 4473-4481.	4.5	50
25	Control of Epitaxial BaFe ₂ As ₂ Atomic Configurations with Substrate Surface Terminations. <i>Nano Letters</i> , 2018, 18, 6347-6352.	4.5	16
26	Graphene-Complex-Oxide Nanoscale Device Concepts. <i>ACS Nano</i> , 2018, 12, 6128-6136.	7.3	6
27	Optical control of polarization in ferroelectric heterostructures. <i>Nature Communications</i> , 2018, 9, 3344.	5.8	119
28	Identification of a functional point defect in SrTiO ₃ . <i>Physical Review Materials</i> , 2018, 2, .	0.9	14
29	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS ₂ /BaTiO ₃ /SrRuO ₃ Tunnel Junctions. <i>Nano Letters</i> , 2017, 17, 922-927.	4.5	75
30	Room-Temperature Quantum Transport Signatures in Graphene/LaAlO ₃ /SrTiO ₃ Heterostructures. <i>Advanced Materials</i> , 2017, 29, 1603488.	11.1	12
31	Electrostatically tuned dimensional crossover in LaAlO ₃ /SrTiO ₃ heterostructures. <i>APL Materials</i> , 2017, 5, 106107.	2.2	6
32	Electron Lattice Coupling in Correlated Materials of Low Electron Occupancy. <i>Nano Letters</i> , 2017, 17, 5458-5463.	4.5	6
33	Origin of the emergence of higher T _c than bulk in iron chalcogenide thin films. <i>Scientific Reports</i> , 2017, 7, 9994.	1.6	24
34	Tailoring the Doping Mechanisms at Oxide Interfaces in Nanoscale. <i>Nano Letters</i> , 2017, 17, 5620-5625.	4.5	9
35	Direct imaging of sketched conductive nanostructures at the LaAlO ₃ /SrTiO ₃ interface. <i>Applied Physics Letters</i> , 2017, 111, 233104.	1.5	4
36	Charge Transfer to LaAlO ₃ /SrTiO ₃ Interfaces Controlled by Surface Water Adsorption and Proton Hopping. <i>Advanced Functional Materials</i> , 2016, 26, 5453-5459.	7.8	19

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37	Enhanced Pinning Properties of $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Coated Conductors via a Post-Annealing Process. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	4
38	Imprint Control of BaTiO_3 Thin Films via Chemically Induced Surface Polarization Pinning. Nano Letters, 2016, 16, 2400-2406.	4.5	56
39	Tailoring $\text{LaAlO}_3/\text{SrTiO}_3$ Interface Metallicity by Oxygen Surface Adsorbates. Nano Letters, 2016, 16, 2739-2743.	4.5	32
40	Enhanced Flux Pinning Properties of MOD-Processed $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films With BaZrO_3 Nanoparticles Using a Ba-Deficient Coating Solution. IEEE Transactions on Applied Superconductivity, 2013, 23, 8002704-8002704.	1.1	3
41	Microstructure analysis of $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ coated conductors by the RCE-DR process. Materials Research Society Symposia Proceedings, 2012, 1434, 23.	0.1	9