Jung-Woo Lee

List of Publications by Year
in descending order

41 papers	794 citations	566801 15 h-index	525886 27 g-index
41 all docs	41 docs citations	41 times ranked	1451 citing authors

#	Article	IF	Citations
1	Optical control of polarization in ferroelectric heterostructures. Nature Communications, 2018, 9, 3344.	5.8	119
2	Polarization-Mediated Modulation of Electronic and Transport Properties of Hybrid MoS₂â€“BaTiO₃â€“SrRuO₃ Tunnel Junctions. Nano Letters, 2017, 17, 922-927.	4.5	75
3	New approaches for achieving more perfect transition metal oxide thin films. APL Materials, 2020, 8, .	2.2	64
4	Imprint Control of BaTiO₃ Thin Films via Chemically Induced Surface Polarization Pinning. Nano Letters, 2016, 16, 2400-2406.	4.5	56
5	Quantized Ballistic Transport of Electrons and Electron Pairs in LaAlO₃/SrTiO₃ Nanowires. Nano Letters, 2018, 18, 4473-4481.	4.5	50
6	Pascal conductance series in ballistic one-dimensional LaAlO ₃ /SrTiO ₃ channels. Science, 2020, 367, 769-772.	6.0	43
7	One-Dimensional Nature of Superconductivity at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaAlO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub Interface. Physical Review Letters, 2018, 120, 147001.	2.9	34
8	Tailoring LaAlO₃/SrTiO₃ Interface Metallicity by Oxygen Surface Adsorbates. Nano Letters, 2016, 16, 2739-2743.	4.5	32
9	Tunneling Hot Spots in Ferroelectric SrTiO₃. Nano Letters, 2018, 18, 491-497.	4.5	30
10	Origin of the emergence of higher T c than bulk in iron chalcogenide thin films. Scientific Reports, 2017, 7, 9994.	1.6	24
11	Oxygen Stoichiometry Effect on Polar Properties of LaAlO₃/SrTiO₃. Advanced Functional Materials, 2018, 28, 1707159.	7.8	22
12	Probing vacancy behavior across complex oxide heterointerfaces. Science Advances, 2019, 5, eaau8467.	4.7	21
13	Cooperative evolution of polar distortion and nonpolar rotation of oxygen octahedra in oxide heterostructures. Science Advances, 2021, 7, .	4.7	20
14	Charge Transfer to LaAlO₃/SrTiO₃ Interfaces Controlled by Surface Water Adsorption and Proton Hopping. Advanced Functional Materials, 2016, 26, 5453-5459.	7.8	19
15	Shubnikovâ€“de Haasâ€“like Quantum Oscillations in Artificial One-Dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaAlO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub Electron Channels. Physical Review Letters, 2018, 120, 076801.	2.9	19
16	Control of Epitaxial BaFe₂As₂ Atomic Configurations with Substrate Surface Terminations. Nano Letters, 2018, 18, 6347-6352.	4.5	16
17	Electronically reconfigurable complex oxide heterostructure freestanding membranes. Science Advances, 2021, 7, .	4.7	15
18	Identification of a functional point defect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2018, 2, .	0.9	14

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19	Roomâ€Temperature Quantum Transport Signatures in Graphene/LaAlO₃/SrTiO₃ Heterostructures. Advanced Materials, 2017, 29, 1603488.	11.1	12
20	Engineered spin-orbit interactions in LaAlO ₃ /SrTiO ₃ -based 1D serpentine electron waveguides. Science Advances, 2020, 6, .	4.7	10
21	Microstructure analysis of GdBa2Cu3O7-Î´ coated conductors by the RCE-DR process. Materials Research Society Symposia Proceedings, 2012, 1434, 23.	0.1	9
22	Tailoring the Doping Mechanisms at Oxide Interfaces in Nanoscale. Nano Letters, 2017, 17, 5620-5625.	4.5	9
23	One-dimensional Kronigâ€"Penney superlattices at the LaAlO3/SrTiO3 interface. Nature Physics, 2021, 17, 782-787.	6.5	9
24	Electrostatically tuned dimensional crossover in LaAlO₃/SrTiO₃ heterostructures. APL Materials, 2017, 5, 106107.	2.2	6
25	Electronâ€"Lattice Coupling in Correlated Materials of Low Electron Occupancy. Nano Letters, 2017, 17, 5458-5463.	4.5	6
26	Graphene-Complex-Oxide Nanoscale Device Concepts. ACS Nano, 2018, 12, 6128-6136.	7.3	6
27	Over 100-THz bandwidth selective difference frequency generation at LaAlO3/SrTiO3 nanojunctions. Light: Science and Applications, 2019, 8, 24.	7.7	6
28	Gate-Tunable Optical Nonlinearities and Extinction in Graphene/LaAlO3/SrTiO3 Nanostructures. Nano Letters, 2020, 20, 6966-6973.	4.5	6
29	Large and Reconfigurable Infrared Photothermoelectric Effect at Oxide Interfaces. Nano Letters, 2019, 19, 7149-7154.	4.5	5
30	Inhomogeneous energy landscape in LaAlO₃/SrTiO₃ nanostructures. Nanoscale Horizons, 2019, 4, 1194-1201.	4.1	5
31	Reconfigurable edge-state engineering in graphene using LaAlO3/SrTiO3 nanostructures. Applied Physics Letters, 2019, 114, .	1.5	5
32	Longâ€Range Nonâ€Coulombic Electronâ€"Electron Interactions between LaAlO 3 /SrTiO 3 Nanowires. Advanced Materials Interfaces, 2019, 6, 1900301.	1.9	5
33	Nanoscale control of LaAlO3/SrTiO3 metalâ€"insulator transition using ultra-low-voltage electron-beam lithography. Applied Physics Letters, 2020, 117, .	1.5	5
34	Enhanced Pinning Properties of <inline-formula> <tex-math notation="LaTeX">${GdBa}_{2}{Cu}_{3}{O}_{7-delta}$</tex-math> </inline-formula> Coated Conductors via a Post-Annealing Process. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-6.	1.1	4
35	Direct imaging of sketched conductive nanostructures at the LaAlO3/SrTiO3 interface. Applied Physics Letters, 2017, 111, 233104.	1.5	4
36	Relaxation timescales and electron-phonon coupling in optically pumped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>YBa</mml:mi><mml:mn>2</mml:mn></mml mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>6</mml:mn><mml:mo>+</mml:mo><mml:mi>x</mml:mi></mml:mrow></m revealed by time-resolved Raman scattering. Physical Review B, 2021, 104, .	1.1	4

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37	Enhanced Flux Pinning Properties of MOD-Processed $ hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{7 - delta}$ Thin Films With $hbox{BaZrO}_{3}$ Nanoparticles Using a Ba-Deficient Coating Solution. IEEE Transactions on Applied Superconductivity, 2013, 23, 8002704-8002704.	1.1	3
38	Strong Aharonov-Bohm quantum interference in simply connected <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> structures. Physical Review B, 2019, 100, .	1.1	1
39	Nanoscale interplay of native point defects near Sr-deficient SrxTiO3/SrTiO3 interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	1
40	Coupled Nanowires: Longâ€Range Nonâ€Coulombic Electronâ€"Electron Interactions between LaAlO₃/SrTiO₃ Nanowires (Adv. Mater. Interfaces 15/2019). Advanced Materials Interfaces, 2019, 6, 1970098.	1.9	0
41	Direct Observation of Field-induced Modulation of Two-dimensional Electron Gas at Oxide Interfaces. Microscopy and Microanalysis, 2019, 25, 1848-1849.	0.2	0