Kyung Song

List of Publications by Year
in descending order

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51	1,783	331670 21	276875 41
papers	citations	h-index	g-index

53	53	53	3735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simultaneously Improved Cubic Phase Stability and Li-Ion Conductivity in Garnet-Type Solid Electrolytes Enabled by Controlling the Al Occupation Sites. ACS Applied Materials & Interfaces, 2022, 14, 12331-12339.	8.0	9
2	Cooperative evolution of polar distortion and nonpolar rotation of oxygen octahedra in oxide heterostructures. Science Advances, 2021, 7, .	10.3	20
3	Electronic and Structural Transitions of LaAlO₃/SrTiO₃ Heterostructure Driven by Polar Fieldâ€Assisted Oxygen Vacancy Formation at the Surface. Advanced Science, 2021, 8, e2002073.	11.2	23
4	Tunable high-temperature itinerant antiferromagnetism in a van der Waals magnet. Nature Communications, 2021, 12, 2844.	12.8	29
5	Flexopiezoelectricity at ferroelastic domain walls in WO3 films. Nature Communications, 2020, 11, 4898.	12.8	25
6	Epitaxial antiperovskite/perovskite heterostructures for materials design. Science Advances, 2020, 6, eaba4017.	10.3	18
7	Directional ionic transport across the oxide interface enables low-temperature epitaxy of rutile TiO2. Nature Communications, 2020, 11, 1401.	12.8	20
8	Strain-driven disproportionation at a correlated oxide metal-insulator transition. Physical Review B, 2020, 101, .	3.2	26
9	In situ TEM observation of void formation and migration in phase change memory devices with confined nanoscale Ge₂Sb₂Te₅. Nanoscale Advances, 2020, 2, 3841-3848.	4.6	19
10	Charge density wave modulation in superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaPb</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mo>/</mml:mo><mml:mrow><mml:mi>Ba mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> superlattices. Physical Review B, 2020, 101, .	3.2	4
11	Non-Ohmic conduction in exfoliated La0.7Ca0.3MnO3 thin films. Applied Physics Letters, 2020, 116, 022401.	3.3	8
12	Self-assembly of correlated (Ti, V)O2 superlattices with tunable lamella periods by kinetically enhanced spinodal decomposition. NPG Asia Materials, 2019, 11, .	7.9	4
13	Wafer-scale and selective-area growth of high-quality hexagonal boron nitride on Ni(111) by metal-organic chemical vapor deposition. Scientific Reports, 2019, 9, 5736.	3.3	42
14	Inverse size-dependence of piezoelectricity in single BaTiO3 nanoparticles. Nano Energy, 2019, 58, 78-84.	16.0	23
15	Self-Propagating Heat Synthetic Reactivity of Fine Aluminum Particles via Spontaneously Coated Nickel Layer. Scientific Reports, 2019, 9, 1033.	3.3	12
16	Electroluminescence from h-BN by using Al2O3/h-BN multiple heterostructure. Optics Express, 2019, 27, 19692.	3.4	4
17	Direct imaging of the electron liquid at oxide interfaces. Nature Nanotechnology, 2018, 13, 198-203.	31.5	40
18	Enhanced Self-Biased Magnetoelectric Coupling in Laser-Annealed Pb(Zr,Ti)O₃ Thick Film Deposited on Ni Foil. ACS Applied Materials & Interfaces, 2018, 10, 11018-11025.	8.0	34

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19	Strain-induced indium clustering in non-polar a-plane InGaN quantum wells. Acta Materialia, 2018, 145, 109-122.	7.9	7
20	Isostructural metal-insulator transition in VO ₂. Science, 2018, 362, 1037-1040.	12.6	158
21	Writing monolithic integrated circuits on a two-dimensional semiconductor with a scanning light probe. Nature Electronics, 2018, 1, 512-517.	26.0	74
22	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr2Fe1+Re1-O6. Ultramicroscopy, 2018, 193, 137-142.	1.9	11
23	Ferroelastically protected polarization switching pathways to control electrical conductivity in strain-graded ferroelectric nanoplates. Physical Review Materials, 2018, 2, .	2.4	14
24	Pressure-Dependent Growth of Wafer-Scale Few-layer h-BN by Metalâ€“Organic Chemical Vapor Deposition. Crystal Growth and Design, 2017, 17, 2569-2575.	3.0	21
25	Electronâ€“Lattice Coupling in Correlated Materials of Low Electron Occupancy. Nano Letters, 2017, 17, 5458-5463.	9.1	6
26	Coplanar semiconductorâ€“metal circuitry defined on few-layer MoTe2 via polymorphic heteroepitaxy. Nature Nanotechnology, 2017, 12, 1064-1070.	31.5	210
27	Sharpened VO₂ Phase Transition via Controlled Release of Epitaxial Strain. Nano Letters, 2017, 17, 5614-5619.	9.1	93
28	Disordered ferroelectricity in the PbTiO₃/SrTiO₃ superlattice thin film. APL Materials, 2017, 5, 066104.	5.1	14
29	Electric-field-induced spin disorder-to-order transition near a multiferroic triple phase point. Nature Physics, 2017, 13, 189-196.	16.7	41
30	In-situ Observation of Domain Wall Motion in Electroplated Ni80-Fe20 Thin Film by Lorentz TEM and DPC Imaging. Journal of Magnetics, 2017, 22, 563-569.	0.4	6
31	Electron Holography: Correlative Highâ€Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer (Adv. Mater. Interfaces 1/2015). Advanced Materials Interfaces, 2015, 2, .	3.7	3
32	Microstructure-dependent DC set switching behaviors of Geâ€“Sbâ€“Te-based phase-change random access memory devices accessed by in situ TEM. NPG Asia Materials, 2015, 7, e194-e194.	7.9	18
33	Two-dimensional mapping of strain and piezoelectric polarization in InGaN/GaN MQWs by electron dark-field holography. , 2015, , .		0
34	Direct mapping of strain state in nonpolar InGaN/GaN multilayers using dark-field inline electron holography. , 2015, , .		0
35	Correlative Highâ€Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer. Advanced Materials Interfaces, 2015, 2, 1400281.	3.7	18
36	Enhancement of the anisotropic photocurrent in ferroelectric oxides by strain gradients. Nature Nanotechnology, 2015, 10, 972-979.	31.5	134

#	Article	IF	Citations
37	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	12.6	259
38	Enhanced power conversion efficiency of dye-sensitized solar cells with multifunctional photoanodes based on a three-dimensional TiO2 nanohelix array. Solar Energy Materials and Solar Cells, 2015, 132, 47-55.	6.2	33
39	Enhanced power conversion efficiency of quantum dot sensitized solar cells with near single-crystalline TiO_2 nanohelixes used as photoanodes. Optics Express, 2014, 22, A867.	3.4	16
40	Enhanced surface hardening of AISI D2 steel by atomic attrition during ion nitriding. Surface and Coatings Technology, 2014, 251, 115-121.	4.8	21
41	Direct observation of asymmetric domain wall motion in a ferroelectric capacitor. Acta Materialia, 2013, 61, 6765-6777.	7.9	41
42	Surface hardening of shot peened H13 steel by enhanced nitrogen diffusion. Surface and Coatings Technology, 2013, 232, 912-919.	4.8	40
43	Strain mapping of LED devices by dark-field inline electron holography: Comparison between deterministic and iterative phase retrieval approaches. Ultramicroscopy, 2013, 127, 119-125.	1.9	13
44	Transmission electron microscopy and thermodynamic studies of CaO-added AZ31 Mg alloys. Acta Materialia, 2013, 61, 3267-3277.	7.9	55
45	Control of coherent acoustic phonon generation with external bias in InGaN/GaN multiple quantum wells. Applied Physics Letters, 2012, 100, 101105.	3.3	14
46	Application of theta-scan precession electron diffraction to structure analysis of hydroxyapatite nanopowder. Microscopy (Oxford, England), 2012, 61, 9-15.	1.5	6
47	A suspended nanogap formed by field-induced atomically sharp tips. Applied Physics Letters, 2012, 101, .	3.3	10
48	Surface hardening of aluminum alloy by shot peening treatment with Zn based ball. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 44-49.	5.6	43
49	The selective immobilization of curcumin onto the internal surface of mesoporous hollow silica particles by covalent bonding and its controlled release. Journal of Materials Chemistry, 2011, 21, 3641.	6.7	33
50	Electroplating of Copper-Nickel Thin Films and Narrow Trenches. Electrochemical and Solid-State Letters, 2011, 14, H483.	2.2	2
51	Structure analysis of inorganic crystals by energy-filtered precession electron diffraction. Journal of Electron Microscopy, 2010, 59, 273-283.	0.9	9