

Kyung Song

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8968736/publications.pdf>

Version: 2024-02-01

51
papers

1,783
citations

331670

21
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

3735
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of room-temperature ferroelectricity at reduced dimensions. <i>Science</i> , 2015, 349, 1314-1317.	12.6	259
2	Coplanar semiconductor metal circuitry defined on few-layer MoTe ₂ via polymorphic heteroepitaxy. <i>Nature Nanotechnology</i> , 2017, 12, 1064-1070.	31.5	210
3	Isostructural metal-insulator transition in VO ₂ . <i>Science</i> , 2018, 362, 1037-1040.	12.6	158
4	Enhancement of the anisotropic photocurrent in ferroelectric oxides by strain gradients. <i>Nature Nanotechnology</i> , 2015, 10, 972-979.	31.5	134
5	Sharpened VO ₂ Phase Transition via Controlled Release of Epitaxial Strain. <i>Nano Letters</i> , 2017, 17, 5614-5619.	9.1	93
6	Writing monolithic integrated circuits on a two-dimensional semiconductor with a scanning light probe. <i>Nature Electronics</i> , 2018, 1, 512-517.	26.0	74
7	Transmission electron microscopy and thermodynamic studies of CaO-added AZ31 Mg alloys. <i>Acta Materialia</i> , 2013, 61, 3267-3277.	7.9	55
8	Surface hardening of aluminum alloy by shot peening treatment with Zn based ball. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 543, 44-49.	5.6	43
9	Wafer-scale and selective-area growth of high-quality hexagonal boron nitride on Ni(111) by metal-organic chemical vapor deposition. <i>Scientific Reports</i> , 2019, 9, 5736.	3.3	42
10	Direct observation of asymmetric domain wall motion in a ferroelectric capacitor. <i>Acta Materialia</i> , 2013, 61, 6765-6777.	7.9	41
11	Electric-field-induced spin disorder-to-order transition near a multiferroic triple phase point. <i>Nature Physics</i> , 2017, 13, 189-196.	16.7	41
12	Surface hardening of shot peened H13 steel by enhanced nitrogen diffusion. <i>Surface and Coatings Technology</i> , 2013, 232, 912-919.	4.8	40
13	Direct imaging of the electron liquid at oxide interfaces. <i>Nature Nanotechnology</i> , 2018, 13, 198-203.	31.5	40
14	Enhanced Self-Biased Magnetoelectric Coupling in Laser-Annealed Pb(Zr,Ti)O ₃ Thick Film Deposited on Ni Foil. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11018-11025.	8.0	34
15	The selective immobilization of curcumin onto the internal surface of mesoporous hollow silica particles by covalent bonding and its controlled release. <i>Journal of Materials Chemistry</i> , 2011, 21, 3641.	6.7	33
16	Enhanced power conversion efficiency of dye-sensitized solar cells with multifunctional photoanodes based on a three-dimensional TiO ₂ nanohelix array. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 47-55.	6.2	33
17	Tunable high-temperature itinerant antiferromagnetism in a van der Waals magnet. <i>Nature Communications</i> , 2021, 12, 2844.	12.8	29
18	Strain-driven disproportionation at a correlated oxide metal-insulator transition. <i>Physical Review B</i> , 2020, 101, .	3.2	26

#	ARTICLE	IF	CITATIONS
19	Flexopiezoelectricity at ferroelastic domain walls in WO ₃ films. Nature Communications, 2020, 11, 4898.	12.8	25
20	Inverse size-dependence of piezoelectricity in single BaTiO ₃ nanoparticles. Nano Energy, 2019, 58, 78-84.	16.0	23
21	Electronic and Structural Transitions of LaAlO ₃ /SrTiO ₃ Heterostructure Driven by Polar Field-Assisted Oxygen Vacancy Formation at the Surface. Advanced Science, 2021, 8, e2002073.	11.2	23
22	Enhanced surface hardening of AISI D2 steel by atomic attrition during ion nitriding. Surface and Coatings Technology, 2014, 251, 115-121.	4.8	21
23	Pressure-Dependent Growth of Wafer-Scale Few-layer h-BN by Metal-Organic Chemical Vapor Deposition. Crystal Growth and Design, 2017, 17, 2569-2575.	3.0	21
24	Directional ionic transport across the oxide interface enables low-temperature epitaxy of rutile TiO ₂ . Nature Communications, 2020, 11, 1401.	12.8	20
25	Cooperative evolution of polar distortion and nonpolar rotation of oxygen octahedra in oxide heterostructures. Science Advances, 2021, 7, .	10.3	20
26	<i>In situ</i> TEM observation of void formation and migration in phase change memory devices with confined nanoscale Ge ₂ Sb ₂ Te ₅ . Nanoscale Advances, 2020, 2, 3841-3848.	4.6	19
27	Microstructure-dependent DC set switching behaviors of GeSbTe-based phase-change random access memory devices accessed by <i>in situ</i> TEM. NPG Asia Materials, 2015, 7, e194-e194.	7.9	18
28	Correlative High-Resolution Mapping of Strain and Charge Density in a Strained Piezoelectric Multilayer. Advanced Materials Interfaces, 2015, 2, 1400281.	3.7	18
29	Epitaxial antiperovskite/perovskite heterostructures for materials design. Science Advances, 2020, 6, eaba4017.	10.3	18
30	Enhanced power conversion efficiency of quantum dot sensitized solar cells with near single-crystalline TiO ₂ nanohelices used as photoanodes. Optics Express, 2014, 22, A867.	3.4	16
31	Control of coherent acoustic phonon generation with external bias in InGaN/GaN multiple quantum wells. Applied Physics Letters, 2012, 100, 101105.	3.3	14
32	Disordered ferroelectricity in the PbTiO ₃ /SrTiO ₃ superlattice thin film. APL Materials, 2017, 5, 066104.	5.1	14
33	Ferroelastically protected polarization switching pathways to control electrical conductivity in strain-graded ferroelectric nanoplates. Physical Review Materials, 2018, 2, .	2.4	14
34	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
35	Self-Propagating Heat Synthetic Reactivity of Fine Aluminum Particles via Spontaneously Coated Nickel Layer. Scientific Reports, 2019, 9, 1033.	3.3	12
36	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr ₂ Fe _{1+Re} 1-O ₆ . Ultramicroscopy, 2018, 193, 137-142.	1.9	11

#	ARTICLE	IF	CITATIONS
37	A suspended nanogap formed by field-induced atomically sharp tips. Applied Physics Letters, 2012, 101, .	3.3	10
38	Structure analysis of inorganic crystals by energy-filtered precession electron diffraction. Journal of Electron Microscopy, 2010, 59, 273-283.	0.9	9
39	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
40	Non-Ohmic conduction in exfoliated La _{0.7} Ca _{0.3} MnO ₃ thin films. Applied Physics Letters, 2020, 116, 022401.	3.3	8
41	Strain-induced indium clustering in non-polar a-plane InGaN quantum wells. Acta Materialia, 2018, 145, 109-122.	7.9	7
42	Application of theta-scan precession electron diffraction to structure analysis of hydroxyapatite nanopowder. Microscopy (Oxford, England), 2012, 61, 9-15.	1.5	6
43	Electron "Lattice Coupling in Correlated Materials of Low Electron Occupancy. Nano Letters, 2017, 17, 5458-5463.	9.1	6
44	In-situ Observation of Domain Wall Motion in Electroplated Ni ₈₀ -Fe ₂₀ Thin Film by Lorentz TEM and DPC Imaging. Journal of Magnetism, 2017, 22, 563-569.	0.4	6
45	Self-assembly of correlated (Ti, V)O ₂ superlattices with tunable lamella periods by kinetically enhanced spinodal decomposition. NPG Asia Materials, 2019, 11, .	7.9	4
46	Charge density wave modulation in superconducting $\text{BaPb}_{1-x}\text{Bi}_x\text{O}_3$ superlattices. Physical Review B, 2020, 101, .	3.2	4
47	Electroluminescence from h-BN by using Al ₂ O ₃ /h-BN multiple heterostructure. Optics Express, 2019, 27, 19692.	3.4	4
48	Electron Holography: Correlative High-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
49	Electroplating of Copper-Nickel Thin Films and Narrow Trenches. Electrochemical and Solid-State Letters, 2011, 14, H483.	2.2	2
50	Two-dimensional mapping of strain and piezoelectric polarization in InGaN/GaN MQWs by electron dark-field holography. , 2015, , .		0
51	Direct mapping of strain state in nonpolar InGaN/GaN multilayers using dark-field inline electron holography. , 2015, , .		0