Young Kuk

List of Publications by Year
in descending order

51 papers	3,586 citations	304743 22 h-index	206112 48 g-index
51 all docs	51 docs citations	51 times ranked	6181 citing authors

#	Article	IF	Citations
1	Full-colour quantum dot displays fabricated by transfer printing. Nature Photonics, 2011, 5, 176-182.	31.4	997
2	Bandgap modulation of carbon nanotubes by encapsulated metallofullerenes. Nature, 2002, 415, 1005-1008.	27.8	452
3	Conformational Molecular Switch of the Azobenzene Molecule: A Scanning Tunneling Microscopy Study. Physical Review Letters, 2006, 96, 156106.	7.8	358
4	n-Type Nanostructured Thermoelectric Materials Prepared from Chemically Synthesized Ultrathin Bi₂Te₃ Nanoplates. Nano Letters, 2012, 12, 640-647.	9.1	239
5	Experimental Evidence for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi></mml:math>-Wave Pairing Symmetry in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Cu</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Bi</mml:mi><mml:mi> Crystals Using a Scanning Tunneling Microscope. Physical Review Letters, 2013, 110, 117001.	7.8	202
6	High-resolution tunnelling spectroscopy of a graphene quartet. Nature, 2010, 467, 185-189.	27.8	171
7	Field Ion-Scanning Tunneling Microscopy Study of C60on the Si(100) Surface. Japanese Journal of Applied Physics, 1992, 31, L880-L883.	1.5	146
8	StressedC60layers on Au(001). Physical Review Letters, 1993, 70, 1948-1951.	7.8	118
9	Invited Review Article: A 10 mK scanning probe microscopy facility. Review of Scientific Instruments, 2010, 81, 121101.	1.3	106
10	Quantum Interference Channeling at Graphene Edges. Nano Letters, 2010, 10, 943-947.	9.1	101
11	Direct Observation of Localized Defect States in Semiconductor Nanotube Junctions. Physical Review Letters, 2003, 90, 216107.	7.8	100
12	Paired Gap States in a Semiconducting Carbon Nanotube: Deep and Shallow Levels. Physical Review Letters, 2005, 95, 166402.	7.8	59
13	Nanoscale control of phonon excitations in graphene. Nature Communications, 2015, 6, 7528.	12.8	48
14	Formation of unconventional standing waves at graphene edges by valley mixing and pseudospin rotation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18622-18625.	7.1	45
15	Visualizing a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>a</mml:mi><mml:mo>Ã—</mml:mo> charge-density-wave phase in transition-metal dichalcogenide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi mathvariant="normal">T</mml:mi><mml:mtext>â€“</mml:mtext><mml:mi>VS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mm. Physical Review Materials, 2017, 1, .	2.4	42
16	Scanning tunneling spectroscopy of proximity superconductivity in epitaxial multilayer graphene. Physical Review B, 2016, 93, .	3.2	35
17	Patterning of ferroelectric nanodot arrays using a silicon nitride shadow mask. Applied Physics Letters, 2005, 87, 113114.	3.3	34
18	Enhanced Carrier Transport along Edges of Graphene Devices. Nano Letters, 2012, 12, 1839-1844.	9.1	33

#	Article	IF	Citations
19	Device fabrication with solidâ€“liquidâ€“solid grown silicon nanowires. Nanotechnology, 2008, 19, 185701.	2.6	31
20	Scanning tunneling microscopy of gate tunable topological insulator Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>thin films. Physical Review B, 2013, 87, .	3.2	30
21	Cobaltâ€“polypyrroleâ€“cobalt nanowire field-effect transistors. Applied Physics Letters, 2005, 86, 213113.	3.3	29
22	Control of Molecular Rotors by Selection of Anchoring Sites. Physical Review Letters, 2011, 106, 146101.	7.8	26
23	Quasiparticle scattering from topological crystalline insulator SnTe (001) surface states. Physical Review B, 2014, 89, .	3.2	22
24	Switching Magnetism and Superconductivity with Spin-Polarized Current in Iron-Based Superconductor. Physical Review Letters, 2017, 119, 227001.	7.8	20
25	One-Dimensional Molecular Zippers. Journal of the American Chemical Society, 2011, 133, 9236-9238.	13.7	19
26	Achieving Î¼eV tunneling resolution in an in-operando scanning tunneling microscopy, atomic force microscopy, and magnetotransport system for quantum materials research. Review of Scientific Instruments, 2020, 91, 071101.	1.3	17
27	Optical emission from Ga ionization at a field emitter. Applied Physics Letters, 1980, 36, 957-959.	3.3	13
28	Mapping Atomic Contact between Pentacene and a Au Surface using Scanning Tunneling Spectroscopy. Nano Letters, 2010, 10, 996-999.	9.1	13
29	Silicon-based field-effect-transistor cantilever for surface potential mapping. Applied Physics Letters, 2003, 83, 386-388.	3.3	10
30	Creating nanostructured superconductors on demand by local current annealing. Physical Review B, 2015, 92, .	3.2	10
31	Donor and acceptor-like electronic states in a one-dimensional semiconductor. Surface Science, 2006, 600, 4937-4940.	1.9	7
32	Tuning magnetostatic interaction in single-crystalline nanodot arrays with in-plane easy axes. Applied Physics Letters, 2010, 96, 073106.	3.3	6
33	One-dimensional growth of MgO film on SrTiO3(100). Nanotechnology, 2007, 18, 175304.	2.6	5
34	Characterization of Bimetallic Cantilever for Chemical Sensor Application. Japanese Journal of Applied Physics, 1999, 38, 6555-6557.	1.5	4
35	Coulomb interaction among transporting charge carriers confined in two dimensions. Journal of Applied Physics, 2008, 104, 083716.	2.5	4
36	Strain relaxation induced spin reorientation in Fe films on W(110). Applied Physics Letters, 2011, 99, 182501.	3.3	4

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37	Modified gap states in Fe/MgO/SrTiO3 interfaces studied with scanning tunneling microscopy. Current Applied Physics, 2014, 14, 1692-1695.	2.4	4
38	Visualization of the inverse layer-plus-island growth in Fe islands on W(110) substrate. Current Applied Physics, 2015, 15, 1042-1046.	2.4	4
39	Superstructures of Se adsorbates on Au(111): Scanning tunneling microscopy and spectroscopy study. Surface Science, 2019, 685, 19-23.	1.9	4
40	Mapping subsurface structure through atomically thin bismuth films on Si(111)â^'(7Ã—7) with scanning tunneling microscope. Surface Science, 2008, 602, 3352-3357.	1.9	3
41	Growth of niobium on the three-dimensional topological insulator Bi2Te1.95Se1.05. Applied Surface Science, 2016, 361, 185-189.	6.1	3
42	Geometric and Electronic Structure of Passive CuN Monolayer on Cu(111) : A Scanning Tunneling Microscopy and Spectroscopy Study. Journal of the Korean Physical Society, 2010, 56, 620-624.	0.7	3
43	Note: Development of a wideband amplifier for cryogenic scanning tunneling microscopy. Review of Scientific Instruments, 2017, 88, 066109.	1.3	2
44	Surface reconstruction and charge modulation in BaFe2As2 superconducting film. Journal of Physics Condensed Matter, 2018, 30, 315001.	1.8	2
45	Dimensionality Control of Self-Assembled Azobenzene Derivatives on a Gold Surface. Journal of Physical Chemistry C, 2019, 123, 8859-8864.	3.1	2
46	Functionalized One-Dimensional Wires and their Interconnections. Japanese Journal of Applied Physics, 2003, 42, 4780-4782.	1.5	1
47	Atomic-level strain-relieving mechanism and local electronic structure of a wetting film. Applied Physics Letters, 2005, 87, 123112.	3.3	1
48	Heini Rohrer, A Reductionist. E-Journal of Surface Science and Nanotechnology, 2014, 12, 133-135.	0.4	1
49	Molecular freeze frame. Nature Nanotechnology, 2007, 2, 391-392.	31.5	0
50	Selective resolution of phonon modes in STM-IETS on clean and oxygen-adsorbed Cu(100) surfaces. Surface Science, 2019, 689, 121451.	1.9	0
51	Magnetic states of atomic vacancies in graphite probed by scanning tunneling microscopy. AIP Advances, 2020, 10, 085325.	1.3	0