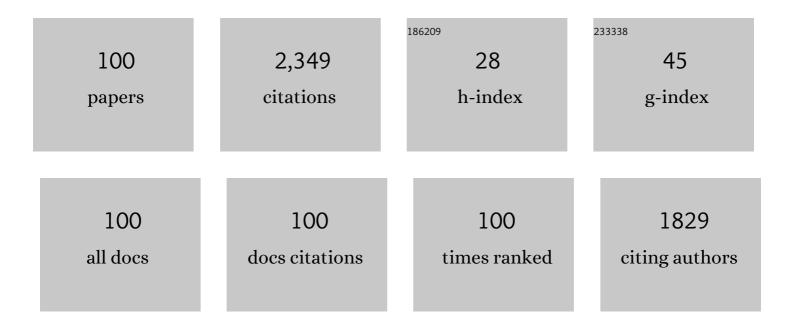
Ing-Shouh Hwang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Direct measurement of diffusion by hot tunneling microscopy: Activation energy, anisotropy, and long jumps. Physical Review Letters, 1992, 68, 1567-1570.	2.9	202
2	Preparation and Characterization of Single-Atom Tips. Nano Letters, 2004, 4, 2379-2382.	4.5	124
3	Submonolayer phases of Pb on Si(111). Physical Review B, 1991, 43, 7316-7319.	1.1	113
4	Dynamic Behavior of Si Magic Clusters on Si(111) Surfaces. Physical Review Letters, 1999, 83, 120-123.	2.9	82
5	Molecular Layer of Gaslike Domains at a Hydrophobic–Water Interface Observed by Frequency-Modulation Atomic Force Microscopy. Langmuir, 2012, 28, 12691-12695.	1.6	82
6	The Glycine-Alanine Dipeptide Repeat from C9orf72 Hexanucleotide Expansions Forms Toxic Amyloids Possessing Cell-to-Cell Transmission Properties. Journal of Biological Chemistry, 2016, 291, 4903-4911.	1.6	73
7	Diffusion of Single Hydrogen Atoms on Si(111)-(7×7) Surfaces. Physical Review Letters, 1998, 80, 5584-5587.	2.9	72
8	Site Hopping of Single Chemisorbed Oxygen Molecules on Si(111)-(7×7)Surfaces. Physical Review Letters, 1997, 78, 4797-4800.	2.9	68
9	Noble Metal/W(111) Single-Atom Tips and Their Field Electron and Ion Emission Characteristics. Japanese Journal of Applied Physics, 2006, 45, 8972-8983.	0.8	61
10	A fully coherent electron beam from a noble-metal covered W(111) single-atom emitter. Nanotechnology, 2009, 20, 115401.	1.3	61
11	Exchange-Barrier Effects on Nucleation and Growth of Surfactant-Mediated Epitaxy. Physical Review Letters, 1998, 80, 4229-4232.	2.9	59
12	Method of electrochemical etching of tungsten tips with controllable profiles. Review of Scientific Instruments, 2012, 83, 083704.	0.6	56
13	Interface-Induced Ordering of Gas Molecules Confined in a Small Space. Scientific Reports, 2014, 4, 7189.	1.6	56
14	Direct Observation of Reaction-Limited Aggregation on Semiconductor Surfaces. Physical Review Letters, 1999, 83, 1191-1194.	2.9	50
15	Nucleation processes of nanobubbles at a solid/water interface. Scientific Reports, 2016, 6, 24651.	1.6	48
16	Gas field ion source from an Irâ^•WâŸ 111⟩ single-atom tip. Applied Physics Letters, 2008, 92, .	1.5	47
17	Measurement of Cantilever Displacement Using a Compact Disk/Digital Versatile Disk Pickup Head. Japanese Journal of Applied Physics, 2006, 45, 2368-2371.	0.8	46
18	High coverage phases of Pb on the Si(111) surface: structures and phase transitions. Surface Science, 1995, 323, 241-257.	0.8	45

#	Article	IF	CITATIONS
19	Imaging of soft matter with tapping-mode atomic force microscopy and non-contact-mode atomic force microscopy. Nanotechnology, 2007, 18, 084009.	1.3	44
20	Atomic force microscopy study of nitrogen molecule self-assembly at the HOPG–water interface. Applied Surface Science, 2014, 304, 56-64.	3.1	40
21	Real-time detection of linear and angular displacements with a modified DVD optical head. Nanotechnology, 2008, 19, 115501.	1.3	38
22	Observation of Finite-Size Effects on a Structural Phase Transition of 2D Nanoislands. Physical Review Letters, 2004, 93, 106101.	2.9	37
23	High throughput label-free platform for statistical bio-molecular sensing. Lab on A Chip, 2011, 11, 2411.	3.1	37
24	Tunneling microscope observation of a structural surface phase transition: Structure, fluctuations, and local effects. Physical Review Letters, 1993, 71, 255-258.	2.9	36
25	Imaging surface nanobubbles at graphite–water interfaces with different atomic force microscopy modes. Journal of Physics Condensed Matter, 2013, 25, 184010.	0.7	36
26	Diffusion by bond hopping of hydrogen atoms on the Si(111)-7×7 surface. Physical Review B, 1998, 58, 9867-9875.	1.1	32
27	Direct comparison between subnanometer hydration structures on hydrophilic and hydrophobic surfaces <i>via</i> three-dimensional scanning force microscopy. Physical Chemistry Chemical Physics, 2018, 20, 23522-23527.	1.3	31
28	Direct Observation of Electromigration of Si Magic Clusters on Si(111) Surfaces. Physical Review Letters, 2000, 84, 5792-5795.	2.9	30
29	Galectin-1 Restricts Vascular Smooth Muscle Cell Motility Via Modulating Adhesion Force and Focal Adhesion Dynamics. Scientific Reports, 2018, 8, 11497.	1.6	28
30	A single-atom sharp iridium tip as an emitter of gas field ion sources. Nanotechnology, 2009, 20, 335701.	1.3	27
31	High-Resolution Characterization of Preferential Gas Adsorption at the Graphene–Water Interface. Langmuir, 2016, 32, 11164-11171.	1.6	25
32	Imaging initial formation processes of nanobubbles at the graphite–water interface through high-speed atomic force microscopy. Applied Surface Science, 2018, 434, 913-917.	3.1	22
33	Soft incommensurate reconstruction on Pb/Si(111): Structure, stress modulation, and phase transition. Physical Review B, 1995, 51, 10193-10196.	1.1	20
34	Formation of Si clusters and their role in homoepitaxial growth on Si(111)-7×7 surfaces. Surface Science, 2004, 564, 93-107.	0.8	20
35	Phase transition of monolayer Pb/Ge(111): β-â^š3 × â^š3 R30°⇆1×1 at â^¼180 °C. Physical Review B, 19 18535-18542.	94, 50, 1.1	18
36	Self-Assembly of MinE on the Membrane Underlies Formation of the MinE Ring to Sustain Function of the Escherichia coli Min System. Journal of Biological Chemistry, 2014, 289, 21252-21266.	1.6	18

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37	C-AFM study on multi - resistive switching modes observed in metal–organic frameworks thin films. Organic Electronics, 2021, 93, 106136.	1.4	18
38	Dynamic behavior of Si magic clusters on Si(111) surfaces. Surface Science, 2002, 514, 309-318.	0.8	17
39	Demountable Single-Atom Electron Source. E-Journal of Surface Science and Nanotechnology, 2005, 3, 412-416.	0.1	17
40	Soft-contact imaging in liquid with frequency-modulation torsion resonance mode atomic force microscopy. Nanotechnology, 2010, 21, 065710.	1.3	17
41	Atomic Force Microscopy Characterization of Protein Fibrils Formed by the Amyloidogenic Region of the Bacterial Protein MinE on Mica and a Supported Lipid Bilayer. PLoS ONE, 2015, 10, e0142506.	1.1	17
42	Growth mechanism and morphology of Ge on Pb covered Si(111) surfaces. Surface Science, 1998, 410, L741-L747.	0.8	16
43	Nucleation and Growth of Ge at Pb/Si(111) Surfaces: Reaction-Limited Aggregation. Japanese Journal of Applied Physics, 2000, 39, 4100-4109.	0.8	16
44	Three-dimensional surface topography of graphene by divergent beam electron diffraction. Nature Communications, 2017, 8, 14440.	5.8	16
45	Preparation of Single-Atom Tips and Their Field Emission Behaviors. E-Journal of Surface Science and Nanotechnology, 2006, 4, 233-238.	0.1	15
46	Assembling an ion channel: ORF 3a from SARS oV. Biopolymers, 2013, 99, 628-635.	1.2	15
47	Continuous-time observation of pseudo-vacancy diffusion at Si(111)-7 × 7 surfaces. Surface Science, 1996, 367, L47-L53.	0.8	14
48	Complete dissociation of water on hot silicon ()–7×7 surface––direct observation of hopping oxygen atom. Surface Science, 2003, 530, L302-L306.	0.8	14
49	Adsorption and motion ofC60molecules on the Pb-covered Si(111) surface. Physical Review B, 2008, 77, .	1.1	13
50	Investigation of single-walled carbon nanotubes with a low-energy electron point projection microscope. New Journal of Physics, 2013, 15, 043015.	1.2	13
51	Observation of single oxygen atoms decomposed from water molecules on aSi(111)â^7Ă—7surface. Physical Review B, 2006, 73, .	1.1	12
52	Postfitting Control Scheme for Periodic Piezoscanner Driving. Japanese Journal of Applied Physics, 2006, 45, 1917-1921.	0.8	11
53	Low-voltage and high-performance buzzer-scanner based streamlined atomic force microscope system. Nanotechnology, 2013, 24, 455503.	1.3	11
54	Electron and atom dynamics at solid surfaces and relation to epitaxy. Journal of Physics and Chemistry of Solids, 2001, 62, 1689-1730.	1.9	10

#	Article	IF	CITATIONS
55	Nucleation and growth of Si on Pb monolayer covered Si(111) surfaces. Surface Science, 2011, 605, 1249-1256.	0.8	10
56	lmaging soft matters in water with torsional mode atomic force microscopy. Ultramicroscopy, 2013, 135, 121-125.	0.8	10
57	Xenon gas field ion source from a single-atom tip. Nanotechnology, 2017, 28, 255301.	1.3	10
58	Study of the dynamics of point defects at Si(111)-7×7 surfaces with scanning tunneling microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2632-2640.	0.9	9
59	Model for surfactant-mediated growth of Ge on Pb-covered Si(111) surfaces. Physical Review B, 2000, 63, .	1.1	9
60	Hydrogen-Adsorption Induced Atomic Rearrangement of a Pb Monolayer on Si(111). Physical Review Letters, 2005, 94, 045505.	2.9	9
61	Nanomechanical recognition of prognostic biomarker suPAR with DVD-ROM optical technology. Nanotechnology, 2013, 24, 444011.	1.3	9
62	Optical imaging module for astigmatic detection system. Review of Scientific Instruments, 2016, 87, 053706.	0.6	9
63	Study of two types of Ir or Rh covered single atom pyramidal W tips. Surface Science, 2007, 601, 3992-3995.	0.8	8
64	Lateral Force Microscopy of Interfacial Nanobubbles: Friction Reduction and Novel Frictional Behavior. Scientific Reports, 2018, 8, 3125.	1.6	8
65	High-sensitivity imaging with lateral resonance mode atomic force microscopy. Nanoscale, 2016, 8, 18421-18427.	2.8	7
66	Emerging Roles of Air Gases in Lipid Bilayers. Small, 2018, 14, e1802133.	5.2	7
67	Multiparametric characterization of heterogeneous soft materials using contact point detection-based atomic force microscopy. Applied Surface Science, 2020, 522, 146423.	3.1	7
68	Investigating states of gas in water encapsulated between graphene layers. Chemical Science, 2021, 12, 2635-2645.	3.7	7
69	Structural and Optical Identification of Planar Side-Chain Stacking P3HT Nanowires. Macromolecules, 2021, 54, 10750-10757.	2.2	7
70	Analysis of island morphology in a model for Pb-mediated growth of Ge on Si(111). Physical Review B, 2001, 64, .	1.1	6
71	Self-assembly of hen egg white lysozyme fibrils doped with magnetic particles. Journal of Magnetism and Magnetic Materials, 2019, 471, 400-405.	1.0	6
72	Low-cost, open-source XYZ nanopositioner for high-precision analytical applications. HardwareX, 2022, 11, e00317.	1.1	6

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73	Biased diffusion of Si magic clusters on Si(111) surface. Journal of Applied Physics, 2005, 97, 023522.	1.1	5
74	High stability and electronic structures of noble-metal covered W(111) atom perfect pyramidal tips. Physical Review B, 2010, 81, .	1.1	5
75	Effects of boundaries and point defects on energetics and dynamics of domain walls. Physical Review B, 2011, 83, .	1.1	5
76	High-performance spinning device for DVD-based micromechanical signal transduction. Journal of Micromechanics and Microengineering, 2013, 23, 045016.	1.5	5
77	Torsional resonance mode atomic force microscopy in liquid with Lorentz force actuation. Nanotechnology, 2013, 24, 305702.	1.3	5
78	Probing dynamics of a phase transition of two-dimensional nano-domains with STM imaging and manipulation. Surface Science, 2004, 572, L331-L337.	0.8	4
79	Low-voltage coherent electron microscopy based on a highly coherent electron source built from a nanoemitter. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	0.6	4
80	A horizontal-type scanning near-field optical microscope with torsional mode operation toward high-resolution and non-destructive imaging of soft materials. Review of Scientific Instruments, 2020, 91, 073703.	0.6	4
81	A nanoemitter based on a superconducting material. Applied Physics Letters, 2016, 108, .	1.5	3
82	Low-kilovolt coherent electron diffractive imaging instrument based on a single-atom electron source. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	3
83	Low-energy electron point projection microscopy/diffraction study of suspended graphene. Applied Surface Science, 2017, 423, 266-274.	3.1	3
84	Manipulation of single Si adatoms and observation of fast diffusion of Si dimers on a Pb-covered Si(111) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 041405.	0.9	3
85	Morphology of ramified islands in growth of Ge on Si(111) using Pb as surfactant. Surface Science, 2002, 507-510, 281-284.	0.8	2
86	Adsorption and dynamics of Si atoms at the monolayer Pb/Si(111) surface. Physical Review B, 2017, 95, .	1.1	2
87	Non-classical nucleation pathways revealed by scanning tunneling microscopy of epitaxy of covalent materials. Applied Surface Science, 2020, 500, 143986.	3.1	2
88	SMM actuator for nanoscale positioning. , 2004, , .		1
89	Comment on "Direct Identification of Critical Clusters in Chemical Vapor Deposition― Physical Review Letters, 2006, 97, 089601; discussion 089602.	2.9	1
90	AFM pickup head with holographic optical element (HOE). , 2010, , .		1

AFM pickup head with holographic optical element (HOE). , 2010, , . 90

#	Article	IF	CITATIONS
91	Effects of Dissolved Gases on the Amyloid Fibril Morphology. Langmuir, 2021, 37, 516-523.	1.6	1
92	Direct Observation of a Surface Phase Transition by hot Tunneling Microscopy. Materials Research Society Symposia Proceedings, 1992, 280, 377.	0.1	0
93	Metastable Structural Surface Excitations and Concerted ad Atom Motions: A Stm Study of Atomic Motions Within a Semiconductor Surface. Materials Research Society Symposia Proceedings, 1992, 280, 79.	0.1	Ο
94	Metastable Structural Surface Excitations and Concerted Adatom Motions: a STM Study of Atomic Motions Within a Semiconductor Surface. Materials Research Society Symposia Proceedings, 1992, 295, 41.	0.1	0
95	A Soft Incommensurate Reconstruction on PB/SI(111). Materials Research Society Symposia Proceedings, 1994, 355, 153.	0.1	Ο
96	Noble-Metal Covered W(111) Single-Atom Electron Sources. ECS Transactions, 2009, 25, 3-18.	0.3	0
97	Fabrication of ultra-sharp single atom tips. , 2010, , .		О
98	Fabrication of CoPt Ultra-Sharp Single Atom Tips. Journal of Nanoscience and Nanotechnology, 2011, 11, 10687-10690.	0.9	0
99	An electron source possessing spatial and temporal coherence: A niobium nanoemitter. , 2016, , .		О
100	Transmission Electron Microscopy of Gas-Supersaturated Water Encapsulated in Graphene Liquid Cells. Microscopy and Microanalysis, 2019, 25, 1742-1743.	0.2	0