

# See-Chen Ying

## List of Publications by Year in descending order

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32  
papers

469  
citations

759233

12  
h-index

677142

22  
g-index

32  
all docs

32  
docs citations

32  
times ranked

389  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the Na/Cu(001) Potential Energy Surface from Helium Scattering Studies of the Surface Dynamics. <i>Physical Review Letters</i> , 1997, 78, 3900-3903.	7.8	61
2	Vibrational states of a H monolayer on the Pt(111) surface. <i>Physical Review B</i> , 2003, 68, .	3.2	58
3	Phase transformations of the H/W(110) and H/Mo(110) surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 1045-1048.	2.1	55
4	Non-Arrhenius Behavior of Surface Diffusion near a Phase Transition Boundary. <i>Physical Review Letters</i> , 1997, 79, 257-260.	7.8	42
5	Consistent Hydrodynamics for Phase Field Crystals. <i>Physical Review Letters</i> , 2016, 116, 024303.	7.8	41
6	Dynamics of chainlike molecules on surfaces. <i>Physical Review E</i> , 1998, 57, 1864-1872.	2.1	25
7	Spin-orbit torque switching of chiral magnetization across a synthetic antiferromagnet. <i>Communications Physics</i> , 2021, 4, .	5.3	23
8	Energetics and atomic mechanisms of dislocation nucleation in strained epitaxial layers. <i>Physical Review B</i> , 2003, 68, .	3.2	16
9	Minimum energy paths for dislocation nucleation in strained epitaxial layers. <i>Physical Review B</i> , 2002, 65, .	3.2	15
10	Single skyrmion true random number generator using local dynamics and interaction between skyrmions. <i>Nature Communications</i> , 2022, 13, 722.	12.8	14
11	Searching for transition paths in multidimensional space with a fixed repulsive bias potential. <i>Physical Review B</i> , 2004, 69, .	3.2	13
12	Quantum Theory of Desorption of Adatoms from Solid Surfaces. <i>Journal of Vacuum Science and Technology</i> , 1972, 9, 804-807.	1.9	12
13	Spin torque effect on topological defects and transitions of magnetic domain phases in Ta/CoFeB/MgO. <i>Physical Review B</i> , 2019, 99, .	3.2	12
14	Nonexponential decay of velocity correlations in surface diffusion: The role of interactions and ordering. <i>Journal of Chemical Physics</i> , 2000, 113, 10284-10292.	3.0	9
15	Equilibrium shape and dislocation nucleation in strained epitaxial nanoislands. <i>Physical Review B</i> , 2005, 72, .	3.2	9
16	Non-Monotonic Velocity Dependence of Atomic Friction. <i>Tribology Letters</i> , 2010, 39, 229-233.	2.6	9
17	Modeling buckling and topological defects in stacked two-dimensional layers of graphene and hexagonal boron nitride. <i>Physical Review Materials</i> , 2021, 5, .	2.4	9
18	Manipulation of the interlayer exchange coupling in perpendicular magnetized thin films via tunable magnetic-layer and spacer thicknesses. <i>Physical Review B</i> , 2020, 102, .	3.2	8

#	ARTICLE	IF	CITATIONS
19	Summary Abstract: Model for the surface reconstruction phase transition of clean and hydrogen adsorbed W(001) surface and approximate solution. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1984, 2, 894-895.	2.1	7
20	Striped, honeycomb, and twisted moiré patterns in surface adsorption systems with highly degenerate commensurate ground states. Physical Review B, 2017, 96, .	3.2	6
21	SHOT NOISE SUPPRESSION IN QUANTUM POINT CONTACT STRUCTURES. Modern Physics Letters B, 1995, 09, 573-583.	1.9	4
22	Step effects on diffusion near a substrate reconstructive phase transition: $\hbar$ on W(100). Physical Review B, 2003, 68, .	3.2	4
23	Evolution of Non-equilibrium Profile in Adsorbate Layer Under Compressive Strain. Tribology Letters, 2012, 48, 83-88.	2.6	4
24	Dynamic scaling of out-of-plane fluctuations in freestanding graphene. Physical Review B, 2022, 105, .	3.2	4
25	Equilibrium shape and size of supported heteroepitaxial nanoislands. European Physical Journal B, 2008, 66, 175-183.	1.5	3
26	Summary Abstract: Effect of substrate distortion on the ordered phases of chemisorption systems. Journal of Vacuum Science and Technology, 1981, 18, 500-501.	1.9	2
27	ANOMALOUS DIFFUSION NEAR STRUCTURAL PHASE TRANSITIONS. Modern Physics Letters B, 1992, 06, 1099-1103.	1.9	2
28	DIFFUSION OF LIGHT ADATOMS ON SOLID SURFACES. Modern Physics Letters B, 1995, 09, 307-318.	1.9	1
29	Hydrodynamic response of inhomogeneous metallic systems. , 1974, 23, 270.		1
30	Summary Abstract: Surface spin susceptibility of vanadium. Journal of Vacuum Science and Technology, 1981, 18, 646-647.	1.9	0
31	DIFFUSIVE AND FRUSTRATED TRANSLATIONAL MODES OF ADATOM DYNAMICS. Modern Physics Letters B, 1994, 08, 843-857.	1.9	0
32	Mass transport of adsorbates near a discontinuous structural phase transition. Physical Review B, 2016, 94, .	3.2	0