

Ya-chang Chou

List of Publications by Year in descending order

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25
papers

184
citations

1307594

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1125743

13
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26
all docs

26
docs citations

26
times ranked

136
citing authors

#	ARTICLE	IF	CITATIONS
1	Nano-oxidation of silicon nitride films with an atomic force microscope: Chemical mapping, kinetics, and applications. Journal of Applied Physics, 2001, 89, 2465-2472.	2.5	55
2	Direct Three-Dimensional Patterson Inversion of Low-Energy Electron Diffraction I(E) Curves. Physical Review Letters, 1999, 83, 2580-2583.	7.8	21
3	Enhancement of resonance Raman scattering from crystal violet deposited on island silver films. Journal of Raman Spectroscopy, 1986, 17, 481-484.	2.5	18
4	Electrical characterization of tunnel insulator in metal/insulator tunnel transistors fabricated by atomic force microscope. Applied Physics Letters, 2005, 87, 243506.	3.3	14
5	Packaging of granular bead chain. Europhysics Letters, 2011, 96, 44005.	2.0	11
6	Dynamic model of the force driving kinesin to move along microtubule—Simulation with a model system. Physica A: Statistical Mechanics and Its Applications, 2015, 433, 66-73.	2.6	8
7	HOLOGRAPHIC IMAGES OF ADATOMS, DIMERS AND REST ATOMS ON THE Si(111)-(7 Å— 7) SURFACE. Surface Review and Letters, 1999, 06, 97-101.	1.1	7
8	Coulomb blockade oscillations in ultrathin gate oxide silicon single-electron transistors. Journal of Applied Physics, 2005, 97, 116106.	2.5	7
9	Torque generation through the random movement of an asymmetric rotor: A potential rotational mechanism of the γ subunit of F_1F_0 ATPase. Physical Review E, 2016, 93, 022408.	2.1	7
10	Elasticity transition and loop formation in vibrated bead chains: A simulation of polymer chains. European Physical Journal E, 2009, 29, 157-161.	1.6	5
11	Force generation by granular chains moving randomly on periodic ratchet plates. Physical Review E, 2013, 87, 012711.	2.1	5
12	SERS study of the conformational transition of the ordering of lipid molecules deposited on a silver electrode. Journal of Raman Spectroscopy, 1992, 23, 425-430.	2.5	4
13	Collapse kinetics of vibrated granular chains. Journal of Chemical Physics, 2011, 135, 244903.	3.0	4
14	Dynamical mechanism of stepping of the molecular motor myosin V along actin filament and simulation in an actual system. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 399-405.	2.6	4
15	Sieving DNA molecules by length dependence in artificial nano-channel matrices. Journal of Applied Physics, 2013, 113, 024701.	2.5	3
16	A mechanical mechanism for translocation of ring-shaped helicases on DNA and its demonstration in a macroscopic simulation system. Journal Physics D: Applied Physics, 2018, 51, 135401.	2.8	3
17	A Dynamic Model for the Processive Motion of Dynein on Microtubules. Advances in Biological Chemistry, 2016, 06, 43-54.	0.6	3
18	DIRECT OBSERVATIONS OF THE SURFACE ATOMIC STRUCTURE OF THE Si(111)-(7 Å— 7) RECONSTRUCTED SURFACE WITH KIKUCHI ELECTRON HOLOGRAPHY. Surface Review and Letters, 1999, 06, 967-976.	1.1	2

#	ARTICLE	IF	CITATIONS
19	Entropic force on granular chains self-extracting from one-dimensional confinement. Journal of Chemical Physics, 2014, 140, 024912.	3.0	2
20	Observations of metastable states of the free swelling knots and directional motion of tensioned knots in vibrated bead chains. European Physical Journal E, 2019, 42, 79.	1.6	1
21	A Simple Method for Fabricating Silicon Single Electron Devices for Metrology Applications. , 2004, , .		0
22	A simple method to fabricate single electron devices. , 0, , .		0
23	Fabrication of single-electron transistors based on proximity effects of electron-beam lithography. , 0, , .		0
24	Mechanical mechanism for the translocation of hexameric and nonstructural helicases: Dependence on physical parameters. European Physical Journal E, 2020, 43, 21.	1.6	0
25	A physical mechanism underlying the torque generation of the bacterial flagellar motor. European Physical Journal E, 2022, 45, 34.	1.6	0