Xi-Jing Ning

List of Publications by Year
in descending order

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Version: 2024-02-01

57	550	623734	794594
papers	citations	14	19
		h-index	g-index

57	57	57	498
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic Band Structure and Sub-band-gap Absorption of Nitrogen Hyperdoped Silicon. Scientific Reports, 2015, 5, 10513.	3.3	31
2	Photovoltaic Self-Powered Gas Sensing: A Review. IEEE Sensors Journal, 2021, 21, 5628-5644.	4.7	29
3	Pulling long linear atomic chains from graphene: Molecular dynamics simulations. Physical Review B, 2009, 80, .	3.2	28
4	Preparation of long monatomic carbon chains: Molecular dynamics studies. Physical Review B, 2007, 76, .	3.2	27
5	â€œInfinite Sensitivityâ€•of Black Silicon Ammonia Sensor Achieved by Optical and Electric Dual Drives. ACS Applied Materials & Interfaces, 2018, 10, 5061-5071.	8.0	27
6	Light stimulated and regulated gas sensing ability for ammonia using sulfur-hyperdoped silicon. Sensors and Actuators B: Chemical, 2019, 291, 345-353.	7.8	25
7	A new molecular dynamics method for simulating trapping site structures in cryogenic matrices. Journal of Chemical Physics, 1999, 110, 4920-4928.	3.0	19
8	Rapid and Wide-Range Detection of NO_x Gas by N-Hyperdoped Silicon with the Assistance of a Photovoltaic Self-Powered Sensing Mode. ACS Sensors, 2019, 4, 3056-3065.	7.8	19
9	Isomers of C36 and free energy criteria for cluster growth. Journal of Chemical Physics, 2007, 126, 174309.	3.0	17
10	Global optimization method for cluster structures. Physical Review E, 2008, 78, 026708.	2.1	17
11	Spectral properties of aV-type three-level atom driven by two bichromatic fields. Physical Review A, 2006, 74, .	2.5	16
12	A scheme for fabricating single wall carbon nanocones standing on metal surfaces and an evaluation of their stability. Carbon, 2012, 50, 2651-2656.	10.3	15
13	Evaluating the ability to form single crystal. Journal of Chemical Physics, 2009, 130, 164711.	3.0	14
14	Statistical model for small clusters transforming from one isomer to another. Journal of Chemical Physics, 2010, 132, 064103.	3.0	14
15	Tuning the electronic and optical properties of monatomic carbon chains. Carbon, 2014, 68, 487-492.	10.3	14
16	Isomer abundance of small carbon clusters formed in buffer He gas. Journal of Chemical Physics, 2004, 121, 2013-2015.	3.0	13
17	Shape prediction of two-dimensional adatom islands on crystal surfaces during homoepitaxial growth. Applied Physics Letters, 2009, 94, 183107.	3.3	13
18	Evolution spectrum of C[sub 60] isomers in buffer gas. Journal of Chemical Physics, 2004, 121, 7701.	3.0	12

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19	Atomistic mechanism for graphene based gaseous sensor working. Applied Surface Science, 2019, 470, 448-453.	6.1	12
20	Light-optimized photovoltaic self-powered NO2 gas sensing based on black silicon. Sensors and Actuators B: Chemical, 2021, 340, 129985.	7.8	12
21	Mobility of oxygen atoms generated from photolysis of O3 isolated in argon matrices. Journal of Chemical Physics, 2000, 112, 386-395.	3.0	11
22	Decay mechanism of double-layer Cu islands on Cu(111). Surface Science, 2004, 553, 181-188.	1.9	11
23	Photoluminescence responses of Si nanocrystal to differing pumping conditions. Journal of Applied Physics, 2011, 110, 013502.	2.5	11
24	Trapping site structures of O3 isolated in argon matrices. Journal of Chemical Physics, 1999, 111, 7047-7052.	3.0	10
25	A New Model to Predict Optimum Conditions for Growth of 2D Materials on a Substrate. Nanomaterials, 2019, 9, 978.	4.1	10
26	Electronic rectification devices from carbon nanocones. Applied Physics Letters, 2012, 100, 063119.	3.3	9
27	Migrating and clustering of He atoms in Ti3SiC2: First-principles calculations. Computational Materials Science, 2017, 137, 327-331.	3.0	9
28	Stripe domains in epitaxial BiFeO3 thin films on (100) SrTiO3 substrates. Journal of Applied Physics, 2018, 123, 044102.	2.5	8
29	Enhanced responsivity of co-hyperdoped silicon photodetectors fabricated by femtosecond laser irradiation in a mixed SF₆/NF₃ atmosphere. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 730.	2.1	8
30	Reversible atomic modification of nanostructures on surfaces using direction-depended tip-surface interaction with a trimer-apex tip. Applied Physics Letters, 2009, 95, 073105.	3.3	7
31	Mass dependence of the Soret coefficient for atomic diffusion in condensed matter. Physical Review E, 2013, 87, 062311.	2.1	7
32	Comparison of Two Efficient Methods for Calculating Partition Functions. Entropy, 2019, 21, 1050.	2.2	7
33	Decay mechanism of double-layer islands on close-packed surfaces: Silver on Ag(111) and copper on Cu(111). Thin Solid Films, 2005, 493, 146-151.	1.8	6
34	Conductivity of graphene affected by metal adatoms. AIP Advances, 2017, 7, .	1.3	6
35	Which phase of Ta₂O₅ being of the largest dielectric constant. Journal of the American Ceramic Society, 2021, 104, 6413-6423.	3.8	6
36	How accurate for phonon models to predict the thermodynamics properties of crystals. Journal of Physics Condensed Matter, 2021, 33, 085901.	1.8	6

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37	MOLECULAR DYNAMICS SIMULATION OF PULSED LASER ABLATION. International Journal of Modern Physics B, 2011, 25, 543-550.	2.0	5
38	Tuning the conductance of monatomic carbon chain. Journal of Applied Physics, 2013, 114, 154309.	2.5	5
39	Matrix effects on the mobility of oxygen atoms in different states. Journal of Chemical Physics, 2001, 114, 9969-9974.	3.0	4
40	The effects of He clusters on the mechanical properties of Ti₃AC₂ (A = Ge, Si): first-principles studies. RSC Advances, 2017, 7, 48437-48443.	3.6	4
41	Charge-Transfer-Induced Interfacial Exchange Coupling at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mi>Fe</mml:mi> mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:math> Interface. Physical Review Applied, 2019, 12, .	4.6	4
42	Efficient approaches to solutions of partition function for condensed matters. Journal of Physics Condensed Matter, 2021, 33, 115901.	1.8	4
43	C72 (or C120) cluster growth from C36 (or C60) clusters. Computational and Theoretical Chemistry, 2007, 807, 201-206.	1.5	3
44	What retards the response of graphene based gaseous sensor. Sensors and Actuators A: Physical, 2019, 295, 188-192.	4.1	3
45	A statistical model for predicting thermal chemical reaction rate. Chinese Physics B, 2014, 23, 050501.	1.4	2
46	Site-selective substitutional doping with atomic precision on stepped Al (111) surface by single-atom manipulation. Nanoscale Research Letters, 2014, 9, 235.	5.7	2
47	A Scheme for the Growth of Graphene Sheets Embedded with Nanocones. Crystals, 2017, 7, 35.	2.2	2
48	Diffusion and Aggregation of He Atoms Generated from T Decay in Cu Crystals*. Journal of the Physical Society of Japan, 2004, 73, 943-949.	1.6	1
49	ISOMERS OF COPPER CLUSTERS OBTAINED BY A MOLECULAR DYNAMICS MODEL. International Journal of Modern Physics B, 2005, 19, 2359-2364.	2.0	1
50	Doping influence on the ability to form single crystals. Chemical Physics Letters, 2011, 501, 330-334.	2.6	1
51	Simple statistical model for predicting thermal atom diffusion on crystal surfaces. Chinese Physics B, 2013, 22, 116802.	1.4	1
52	Al-doping influence on crystal growth of Niâ€“Al alloy: Experimental testing of a theoretical model. Chinese Physics B, 2015, 24, 128706.	1.4	1
53	A universal function of creep rate. Chinese Physics B, 2015, 24, 093401.	1.4	1
54	Molecular dynamics simulation of O3 photolysis by ultraviolet light in solid argon. Journal of Computational Chemistry, 1999, 20, 623-628.	3.3	0

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55	ISOMER SPECTRUM OF C30 CLUSTER AND THE GROWTH DYNAMICS. International Journal of Modern Physics B, 2010, 24, 1441-1448.	2.0	0
56	Reliable Lateral Atom Manipulation by Thermal Activation on Metal fcc(001) Surfaces. Journal of the Physical Society of Japan, 2013, 82, 104602.	1.6	0
57	A diffusion model for solute atoms diffusing and aggregating in nuclear structural materials. Chinese Physics B, 2017, 26, 126601.	1.4	0