

Wen-Jay Lee

List of Publications by Year in descending order

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45
papers

372
citations

933447

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docs citations

45
times ranked

443
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine-learning and high-throughput studies for high-entropy materials. <i>Materials Science and Engineering Reports</i> , 2022, 147, 100645.	31.8	44
2	Molecular-weight and cooling-rate dependence of polymer thermodynamics in molecular dynamics simulation. <i>Polymer Journal</i> , 2021, 53, 455-462.	2.7	5
3	Impact of lattice plane orientation in TiO ₂ based resistive switching memory: A computational approach. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	3
4	Inherent Dipole Layer Formation Driven by Surface Energy at Nonplanar Dielectric Interface. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 294-298.	3.0	1
5	The mechanism underlying silicon oxide based resistive random-access memory (ReRAM). <i>Nanotechnology</i> , 2020, 31, 145709.	2.6	6
6	Subthreshold Swing Saturation of Nanoscale MOSFETs Due to Source-to-Drain Tunneling at Cryogenic Temperatures. <i>IEEE Electron Device Letters</i> , 2020, 41, 1296-1299.	3.9	20
7	Carrier Mobility Calculation for Monolayer Black Phosphorous. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 6821-6825.	0.9	2
8	Impact of Semiconductor Permittivity Reduction on Electrical Characteristics of Nanoscale MOSFETs. <i>IEEE Transactions on Electron Devices</i> , 2019, 66, 2509-2512.	3.0	4
9	An FET With a Source Tunneling Barrier Showing Suppressed Short-Channel Effects for Low-Power Applications. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 855-859.	3.0	3
10	Interfacial topography and properties of graphene sheets on different reconstructed silicon surfaces. <i>Carbon</i> , 2016, 96, 29-39.	10.3	2
11	Using a functional C ₈₄ monolayer to improve the mechanical properties and alter substrate deformation. <i>RSC Advances</i> , 2015, 5, 47498-47505.	3.6	1
12	Mechanical and structural properties of helical and non-helical silica nanowire. <i>Computational Materials Science</i> , 2014, 82, 165-171.	3.0	3
13	Investigation of the fracture mechanism of Cu-Al gradient structure. <i>RSC Advances</i> , 2014, 4, 11975.	3.6	2
14	Investigation into the formation of 13-6 helical multi-shell gold nanowires. <i>Computational Materials Science</i> , 2014, 82, 226-230.	3.0	1
15	Effect of Au nanotube size on molecular behavior of water/ethanol mixtures. <i>RSC Advances</i> , 2013, 3, 5860.	3.6	5
16	Influence of oriented topological defects on the mechanical properties of carbon nanotube heterojunctions. <i>Journal of Applied Physics</i> , 2013, 114, 144306.	2.5	2
17	Investigation into the mechanical properties of single-walled carbon nanotube heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11579.	2.8	6
18	Target Molecular Simulations of RecA Family Protein Filaments. <i>International Journal of Molecular Sciences</i> , 2012, 13, 7138-7148.	4.1	4

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19	Diffusion of the vacancy defect leading to the formation of multi-shell structures in the nanowire and nanobridge. <i>Journal of Applied Physics</i> , 2012, 112, 114301.	2.5	0
20	Plastic Deformation of a Nano-precipitate Strengthened Ni-base Alloy Investigated by Complementary In Situ Neutron Diffraction Measurements and Molecular Dynamics Simulations. <i>Advanced Engineering Materials</i> , 2012, 14, 902-908.	3.5	14
21	Mechanism of local stress release in armchair single-wall zinc oxide nanotube under tensile loading. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4749-4756.	1.9	1
22	The Interfacial Behavior of Water/PMMA Thin Film Under Normal Compression. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 7075-7078.	0.9	1
23	Electronic properties of a silicon carbide nanotube under uniaxial tensile strain: a density function theory study. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2919-2928.	1.9	12
24	Hydrogen-Bond Structure at the Interfaces between Water/Poly(methyl methacrylate), Water/Poly(methacrylic acid), and Water/Poly(2-aminoethylmethacrylamide). <i>Langmuir</i> , 2010, 26, 12640-12647.	3.5	41
25	Dynamical Property of Water Droplets of Different Sizes Adsorbed onto a Poly(methyl methacrylate) Surface. <i>Langmuir</i> , 2010, 26, 438-446.	3.5	6
26	Effect of Surface Structure on the Dynamical Behavior of an Aromatic Carboxylic Acid Molecule on Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5573-5584.	3.1	1
27	Chain-length and tacticity effects on the conformational behavior of MMA-oligomer thin films on an Au (111) substrate. <i>Computational Materials Science</i> , 2009, 45, 867-874.	3.0	3
28	Modeling of the polyethylene and poly(L-lactide) triblock copolymer: A dissipative particle dynamics study. <i>Journal of Chemical Physics</i> , 2009, 131, 124901.	3.0	16
29	Penetration and Adsorption of a Water Droplet Causing Local Deformation of the Poly(methyl Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	2.6	10
30	Combined Molecular Dynamics and Dissipative Particle Dynamics to Study of the Microstructure of Poly(L-lactide)/Polyethylene Blends. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 731-735.	0.9	1
31	Chain-Length Effects on Conformations of Methyl Methacrylate-Oligomer Thin Films on an Au(111) Substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1623-1626.	0.9	0
32	Temperature Effect on the Dynamic Behavior of Tricarboxylic Acid Derivatives in Two-Dimensional Network Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 889-892.	0.9	0
33	An investigation into the axial deformation of helical multi-shell gold nanowires. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 658-660.	4.0	2
34	Investigation of the adsorption mechanism of water nanocluster on the substrate: The size and interaction strength effect. <i>Applied Surface Science</i> , 2008, 254, 3606-3612.	6.1	2
35	Phonon spectra in ultrathin gold nanowire under stretching. <i>Computational Materials Science</i> , 2008, 42, 595-599.	3.0	4
36	Adsorption mechanism of water molecules surrounding Au nanoparticles of different sizes. <i>Journal of Chemical Physics</i> , 2008, 128, 154703.	3.0	25

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37	Lock and key behaviours of an aromatic carboxylic acid molecule with differing conformations on an Au (111) surface. <i>Molecular Physics</i> , 2008, 106, 2371-2380.	1.7	1
38	Dynamic behaviour of multi-shell 14-7-1 gold nanowire under different axial tensile strains. <i>Nanotechnology</i> , 2007, 18, 205706.	2.6	4
39	Molecular dynamics simulation of the dynamical behaviors of an aromatic carboxylic acid molecule with different conformations on a Au (111) surface. <i>Applied Physics Letters</i> , 2007, 90, 143112.	3.3	7
40	The behavior of water molecules nanoconfined between parallel Au plates. <i>Computational Materials Science</i> , 2007, 39, 359-364.	3.0	7
41	Hydrogen-bond dynamics of interior and surface molecules in a water nanocluster: temperature and size effects. <i>Molecular Physics</i> , 2007, 105, 429-436.	1.7	11
42	Molecular Dynamics Investigation into the Effect of Temperature on the Structure and Properties of Methyl Methacrylate Thin Films on a Au(111) Surface. <i>Langmuir</i> , 2007, 23, 8067-8073.	3.5	8
43	Strain rate effect on tensile behavior of the helical multi-shell gold nanowires. <i>Materials Chemistry and Physics</i> , 2006, 100, 48-53.	4.0	10
44	Dynamical behaviour of 7-1 gold nanowire under different axial tensile strains. <i>Nanotechnology</i> , 2006, 17, 3253-3258.	2.6	12
45	A molecular dynamics study of the tensile behaviour of ultrathin gold nanowires. <i>Nanotechnology</i> , 2004, 15, 1221-1225.	2.6	59