Julien Godet

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/5186939/julien-godet-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45	747	17	26
papers	citations	h-index	g-index
51 ext. papers	802 ext. citations	3.1 avg, IF	3.92 L-index

#	Paper	IF	Citations
45	Stacking fault formation created by plastic deformation at low temperature and small scales in silicon. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
44	Empirical potential optimization for the investigation of lithiation-delithiation cycles of amorphous Si nanowires. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
43	Plastic behaviour and deformation mechanisms in silicon nano-objects. <i>Journal of Physics:</i> Conference Series, 2019 , 1190, 012004	0.3	1
42	Propagation of stacking faults from Domposite dislocation cores at low temperature in silicon nanostructures. <i>Journal of Physics: Conference Series</i> , 2019 , 1190, 012007	0.3	2
41	A fully molecular dynamics-based method for modeling nanoporous gold. <i>Computational Materials Science</i> , 2019 , 161, 135-142	3.2	9
40	Molecular dynamics study of mechanical behavior of gold-silicon core-shell nanowires under cyclic loading. <i>Materialia</i> , 2019 , 5, 100204	3.2	3
39	Influence of strain on dislocation core in silicon. <i>Philosophical Magazine</i> , 2018 , 98, 1151-1169	1.6	2
38	Atomic scale mechanisms and brittle to ductile transition at low size in silicon. <i>Materials Today: Proceedings</i> , 2018 , 5, 14693-14704	1.4	1
37	Low-temperature intrinsic plasticity in silicon at small scales. <i>Acta Materialia</i> , 2018 , 161, 54-60	8.4	19
36	HRTEM study of structural defects and related deformation mechanisms induced by nanocompression of silicon 2016 , 261-262		
35	Uniform tensile elongation in Außi coreßhell nanowires. <i>Extreme Mechanics Letters</i> , 2016 , 8, 151-159	3.9	11
34	Atomistic simulations of \square <1 1 0> screw dislocation core in magnesium oxide. <i>Computational Materials Science</i> , 2015 , 103, 250-255	3.2	16
33	Surface effects on the mechanical behavior of silicon nanowires: Consequence on the brittle to ductile transition at low scale and low temperature. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1643-1648	1.6	10
32	Onset of ductility and brittleness in silicon nanowires mediated by dislocation nucleation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 025010	2	13
31	A new parametrization of the Stillinger-Weber potential for an improved description of defects and plasticity of silicon. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 055801	1.8	40
30	Properties of threading screw dislocation core in wurtzite GaN studied by Heyd-Scuseria-Ernzerhof hybrid functional. <i>Applied Physics Letters</i> , 2013 , 103, 262107	3.4	13
29	Plasticity in crystalline-amorphous core-shell Si nanowires controlled by native interface defects. <i>Physical Review B</i> , 2013 , 87,	3.3	20

(2007-2011)

28	Dislocation cores in silicon: new aspects from numerical simulations. <i>Journal of Physics: Conference Series</i> , 2011 , 281, 012002	0.3	7	
27	Unexpected slip mechanism induced by the reduced dimensions in silicon nanostructures: Atomistic study. <i>Acta Materialia</i> , 2011 , 59, 7464-7472	8.4	17	
26	Investigation of Plasticity in Silicon Nanowires by Molecular Dynamics Simulations. <i>Key Engineering Materials</i> , 2011 , 465, 89-92	0.4	2	
25	Comment on "Bulk dislocation core dissociation probed by coherent x rays in silicon". <i>Physical Review Letters</i> , 2011 , 107, 199601; discussion 199602	7.4	O	
24	Deformation of silicon nanowires studied by molecular dynamics simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2011 , 19, 074003	2	22	
23	Determination of activation parameters for the core transformation of the screw dislocation in silicon. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010 , 18, 065001	2	10	
22	Theoretical study of hydrogen stability and aggregation in dislocation cores in silicon. <i>Physical Review B</i> , 2010 , 82,	3.3	8	
21	MgO/metal interfaces at low coverage: An order N, semiempirical Hartree-Fock simulation. <i>Physical Review B</i> , 2010 , 81,	3.3	12	
20	Investigation of the interaction between hydrogen and screw dislocation in silicon by first-principles calculations. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 035803	1.8	5	
19	Elastic limit for surface step dislocation nucleation in face-centered cubic metals: Temperature and step height dependence. <i>Acta Materialia</i> , 2010 , 58, 4182-4190	8.4	48	
18	First principles investigation of defect energy levels at semiconductor-oxide interfaces: Oxygen vacancies and hydrogen interstitials in the SiBiO2HfO2 stack. <i>Journal of Applied Physics</i> , 2009 , 105, 061603	2.5	38	
17	Glissile dislocations with transient cores in silicon. <i>Physical Review Letters</i> , 2009 , 103, 065505	7.4	36	
16	Dislocation nucleation from surface step in silicon: The glide set versus the shuffle set. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1885-1891	1.6	15	
15	Determination of activation parameters for dislocation formation from a surface in fcc metals by atomistic simulations. <i>Physical Review B</i> , 2008 , 78,	3.3	22	
14	Proton Diffusion in Amorphous SiO2 and Hafnium Silicate by Ab Initio Molecular Dynamics. <i>AIP Conference Proceedings</i> , 2007 ,	О	2	
13	Protons at the Si-SiO2 interface: a first principle investigation. <i>Microelectronic Engineering</i> , 2007 , 84, 2035-2038	2.5	3	
12	Hydrogen in Si(100)BiO2⊞fO2 gate stacks: Relevant charge states and their location. <i>Applied Physics Letters</i> , 2007 , 91, 262901	3.4	21	
11	Proton-induced fixed positive charge at the Si(100)-SiO2 interface. <i>Physical Review Letters</i> , 2007 , 99, 126102	7.4	20	

10	Proton diffusion mechanism in amorphous SiO2. <i>Physical Review Letters</i> , 2006 , 97, 155901	7.4	54
9	Dislocation formation from a surface step in semiconductors: An ab initio study. <i>Physical Review B</i> , 2006 , 73,	3.3	41
8	Ab initio study of charged states of H in amorphous SiO2. <i>Microelectronic Engineering</i> , 2005 , 80, 288-29	12.5	20
7	A Theoretical Study of Dislocation Formation at Surfaces in Covalent Materials: Effect of Step Geometry and Reactivity. <i>Solid State Phenomena</i> , 2005 , 108-109, 193-198	0.4	
6	Theoretical study of dislocation nucleation from simple surface defects in semiconductors. <i>Physical Review B</i> , 2004 , 70,	3.3	70
5	Computer study of microtwins forming from surface steps of silicon. <i>Computational Materials Science</i> , 2004 , 30, 16-20	3.2	19
4	Atomistic Simulation of Dislocation Generation at Surface Steps in Metals and Silicon. <i>Solid Mechanics and Its Applications</i> , 2004 , 129-138	0.4	1
3	Comparison between classical potentials andab initiomethods for silicon under large shear. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 6943-6953	1.8	35
2	Surface step effects on Si (100) under uniaxial tensile stress, by atomistic calculations. <i>Scripta Materialia</i> , 2002 , 47, 481-486	5.6	9
1	Onset of Plasticity in Crystalline Nanomaterials61-82		