

Gennady B Sushko

List of Publications by Year in descending order

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26
papers

434
citations

759233

12
h-index

713466

21
g-index

28
all docs

28
docs citations

28
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulations of the nanoindentation process of titanium crystal. <i>Computational Materials Science</i> , 2013, 76, 20-26.	3.0	65
2	Simulation of ultra-relativistic electrons and positrons channeling in crystals with MBN Explorer. <i>Journal of Computational Physics</i> , 2013, 252, 404-418.	3.8	48
3	Modeling MesoBioNano systems with MBN Studio made easy. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 88, 247-260.	2.4	34
4	Studying chemical reactions in biological systems with MBN Explorer: implementation of molecular mechanics with dynamical topology. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	33
5	Molecular dynamics for irradiation driven chemistry: application to the FEBID process*. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	30
6	Transonic Panel Flutter in Accelerating or Decelerating Flow Conditions. <i>AIAA Journal</i> , 2018, 56, 997-1010.	2.6	23
7	Simulation of channeling and radiation of 855 MeV electrons and positrons in a small-amplitude short-period bent crystal. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 387, 41-53.	1.4	21
8	Multi-GeV electron and positron channeling in bent silicon crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 355, 39-43.	1.4	18
9	Radiation emission by electrons channeling in bent silicon crystals. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	17
10	Multiscale simulation of the focused electron beam induced deposition process. <i>Scientific Reports</i> , 2020, 10, 20827.	3.3	16
11	Molecular Dynamics Simulation of Self-Diffusion Processes in Titanium in Bulk Material, on Grain Junctions and on Surface. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6685-6691.	2.5	14
12	Reactive molecular dynamics simulations of organometallic compound W(CO) ₆ fragmentation,. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	13
13	All-atom relativistic molecular dynamics simulations of channeling and radiation processes in oriented crystals. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	13
14	Kinetics of liquid-solid phase transition in large nickel clusters. <i>Physical Review B</i> , 2013, 88, .	3.2	12
15	Development of collisional data base for elementary processes of electron scattering by atoms and molecules. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 354, 90-95.	1.4	12
16	Channeling and radiation of 855 MeV electrons and positrons in straight and bent tungsten (1 1 0) crystals. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 424, 26-36.	1.4	12
17	Benchmarking of classical force fields by ab initio calculations of atomic clusters: Ti and Ni–Ti case. <i>Computational and Theoretical Chemistry</i> , 2013, 1021, 101-108.	2.5	11
18	Reconciling simulated melting and ground-state properties of metals with a modified embedded-atom method potential. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 145201.	1.8	9

#	ARTICLE	IF	CITATIONS
19	Validation of Classical Force Fields for the Description of Thermo-Mechanical Properties of Transition Metal Materials. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8426-8436.	2.5	8
20	A small-amplitude crystalline undulator based on 20 GeV electrons and positrons: Simulations. <i>St Petersburg Polytechnical University Journal Physics and Mathematics</i> , 2015, 1, 341-345.	0.3	7
21	Irradiation-driven molecular dynamics simulation of the FEBID process for Pt(PF ₃) ₄ . <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 1151-1172.	2.8	5
22	Toward the Exploration of the NiTi Phase Diagram with a Classical Force Field. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25043-25052.	3.1	4
23	Channeling of ultra-relativistic positrons in bent diamond crystals. <i>St Petersburg Polytechnical University Journal Physics and Mathematics</i> , 2015, 1, 212-218.	0.3	3
24	Electron and positron propagation in straight and periodically bent axial and planar silicon channels. <i>St Petersburg Polytechnical University Journal Physics and Mathematics</i> , 2015, 1, 332-340.	0.3	3
25	Atomistic simulation of the FEBID-driven growth of iron-based nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10807-10819.	2.8	2
26	Multiscale modeling of stochastic dynamics processes with <sc>MBN Explorer</sc>. <i>Journal of Computational Chemistry</i> , 2022, 43, 1442-1458.	3.3	1