

# Gennady B Sushko

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | Atomistic simulation of the FEBID-driven growth of iron-based nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10807-10819.  | 2.8 | 2         |
| 2  | Multiscale modeling of stochastic dynamics processes with <sc>MBN Explorer</sc>. <i>Journal of Computational Chemistry</i> , 2022, 43, 1442-1458.  | 3.3 | 1         |
| 3  | 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        |
| 4  | Irradiation-driven molecular dynamics simulation of the FEBID process for Pt(PF <sub>3</sub> ) <sub>4</sub> . <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 1151-1172.                              | 2.8 | 5         |
| 5  | Multiscale simulation of the focused electron beam induced deposition process. <i>Scientific Reports</i> , 2020, 10, 20827.  | 3.3 | 16        |
| 6  | Modeling MesoBioNano systems with MBN Studio made easy. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 88, 247-260.  | 2.4 | 34        |
| 7  | Reactive molecular dynamics simulations of organometallic compound W(CO) <sub>6</sub> fragmentation., <i>European Physical Journal D</i> , 2019, 73, 1.  | 1.3 | 13        |
| 8  | Channeling and radiation of 855 MeV electrons and positrons in straight and bent tungsten (1 1 0) crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2018, 424, 26-36.               | 1.4 | 12        |
| 9  | Transonic Panel Flutter in Accelerating or Decelerating Flow Conditions. <i>AIAA Journal</i> , 2018, 56, 997-1010.   | 2.6 | 23        |
| 10 | Molecular dynamics for irradiation driven chemistry: application to the FEBID process*. <i>European Physical Journal D</i> , 2016, 70, 1.  | 1.3 | 30        |
| 11 | Simulation of channeling and radiation of 855 MeV electrons and positrons in a small-amplitude short-period bent crystal. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 387, 41-53. | 1.4 | 21        |
| 12 | 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         |
| 13 | 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        |
| 14 | 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         |
| 15 | 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         |
| 16 | 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         |
| 17 | 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         |
| 18 | Development of collisional data base for elementary processes of electron scattering by atoms and molecules. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 354, 90-95.              | 1.4 | 12        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Multi-GeV electron and positron channeling in bent silicon crystals. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 39-43.                                       | 1.4 | 18        |
| 20 | Radiation emission by electrons channeling in bent silicon crystals. European Physical Journal D, 2014, 68, 1.  | 1.3 | 17        |
| 21 | Validation of Classical Force Fields for the Description of Thermo-Mechanical Properties of Transition Metal Materials. Journal of Physical Chemistry A, 2014, 118, 8426-8436.    | 2.5 | 8         |
| 22 | Molecular Dynamics Simulation of Self-Diffusion Processes in Titanium in Bulk Material, on Grain Junctions and on Surface. Journal of Physical Chemistry A, 2014, 118, 6685-6691. | 2.5 | 14        |
| 23 | Benchmarking of classical force fields by ab initio calculations of atomic clusters: Ti and Ni-Ti case. Computational and Theoretical Chemistry, 2013, 1021, 101-108.             | 2.5 | 11        |
| 24 | Molecular dynamics simulations of the nanoindentation process of titanium crystal. Computational Materials Science, 2013, 76, 20-26.  | 3.0 | 65        |
| 25 | Simulation of ultra-relativistic electrons and positrons channeling in crystals with MBN Explorer. Journal of Computational Physics, 2013, 252, 404-418.                          | 3.8 | 48        |
| 26 | Kinetics of liquid-solid phase transition in large nickel clusters. Physical Review B, 2013, 88, .  | 3.2 | 12        |