## Kai Henrik Nordlund

#### List of Publications by Citations

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 551
 19,989
 68
 118

 papers
 citations
 h-index
 g-index

 579
 21,860
 3.1
 7

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
551	Ion and electron irradiation-induced effects in nanostructured materials. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 071301	2.5	759
550	Defect production in collision cascades in elemental semiconductors and fcc metals. <i>Physical Review B</i> , <b>1998</b> , 57, 7556-7570	3.3	671
549	Recent progress in research on tungsten materials for nuclear fusion applications in Europe.  Journal of Nuclear Materials, 2013, 432, 482-500	3.3	494
548	Evidence for native-defect donors in n-type ZnO. <i>Physical Review Letters</i> , <b>2005</b> , 95, 225502	7.4	420
547	Magnetic properties and diffusion of adatoms on a graphene sheet. <i>Physical Review Letters</i> , <b>2003</b> , 91, 017202	7.4	391
546	Molecular dynamics simulation of ion ranges in the 1000 keV energy range. <i>Computational Materials Science</i> , <b>1995</b> , 3, 448-456	3.2	337
545	Effects of ion bombardment on a two-dimensional target: Atomistic simulations of graphene irradiation. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	303
544	Mechanical properties of carbon nanotubes with vacancies and related defects. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	303
543	Formation of Ion Irradiation-Induced Small-Scale Defects on Graphite Surfaces. <i>Physical Review Letters</i> , <b>1996</b> , 77, 699-702	7.4	281
542	Formation of ion-irradiation-induced atomic-scale defects on walls of carbon nanotubes. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	267
541	Molecular dynamics investigations of surface damage produced by kiloelectronvolt self-bombardment of solids. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1999</b> , 79, 795-820		258
540	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. <i>Physical Review Letters</i> , <b>2016</b> , 116, 135504	7.4	250
539	Fine structure in swift heavy ion tracks in amorphous SiO2. <i>Physical Review Letters</i> , <b>2008</b> , 101, 175503	7.4	220
538	Analytical interatomic potential for modeling nonequilibrium processes in the WIII system. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 123520	2.5	213
537	Primary radiation damage: A review of current understanding and models. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 512, 450-479	3.3	208
536	Production of defects in supported carbon nanotubes under ion irradiation. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	183
535	Hydrogen interaction with point defects in tungsten. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	182

### (2017-2004)

534	Irradiation effects in carbon nanotubes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 216, 355-366	1.2	181	
533	Comparison of empirical interatomic potentials for iron applied to radiation damage studies. <i>Journal of Nuclear Materials</i> , <b>2010</b> , 406, 19-38	3.3	179	
532	Energetics, structure, and long-range interaction of vacancy-type defects in carbon nanotubes: Atomistic simulations. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	178	
531	Two-band modeling of prime phase formation in Fe-Cr. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	175	
530	Modelling of compound semiconductors: analytical bond-order potential for gallium, nitrogen and gallium nitride. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 5649-5662	1.8	174	
529	Molecular dynamics of single-particle impacts predicts phase diagrams for large scale pattern formation. <i>Nature Communications</i> , <b>2011</b> , 2, 276	17.4	149	
528	High-energy collision cascades in tungsten: Dislocation loops structure and clustering scaling laws. <i>Europhysics Letters</i> , <b>2013</b> , 103, 46003	1.6	147	
527	Improving atomic displacement and replacement calculations with physically realistic damage models. <i>Nature Communications</i> , <b>2018</b> , 9, 1084	17.4	146	
526	Determination of strain fields and composition of self-organized quantum dots using x-ray diffraction. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	143	
525	Review on the EFDA programme on tungsten materials technology and science. <i>Journal of Nuclear Materials</i> , <b>2011</b> , 417, 463-467	3.3	139	
524	Coherent displacement of atoms during ion irradiation. <i>Nature</i> , <b>1999</b> , 398, 49-51	50.4	138	
523	Molecular dynamics simulations of threshold displacement energies in Fe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 246, 322-332	1.2	135	
522	Difference in formation of hydrogen and helium clusters in tungsten. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 163113	3.4	134	
521	Point defect movement and annealing in collision cascades. <i>Physical Review B</i> , <b>1997</b> , 56, 2421-2431	3.3	131	
520	Modeling the metal-semiconductor interaction: Analytical bond-order potential for platinum-carbon. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	130	
519	Ion-irradiation-induced welding of carbon nanotubes. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	128	
518	Improved mechanical load transfer between shells of multiwalled carbon nanotubes. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	126	
517	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 102001	3.3	125	

516	Repulsive interatomic potentials calculated using Hartree-Fock and density-functional theory methods. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1997</b> , 132, 45-54	1.2	121
515	Threshold defect production in silicon determined by density functional theory molecular dynamics simulations. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	120
514	Comparison of TOF-ERDA and nuclear resonance reaction techniques for range profile measurements of keV energy implants. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 119, 533-542	1.2	120
513	Modeling of compound semiconductors: Analytical bond-order potential for Ga, As, and GaAs. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	119
512	Molecular dynamics simulations of helium cluster formation in tungsten. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2006</b> , 244, 377-391	1.2	112
511	Atomic-level heterogeneity and defect dynamics in concentrated solid-solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , <b>2017</b> , 21, 221-237	12	110
510	Swift chemical sputtering of amorphous hydrogenated carbon. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	110
509	Adsorption and migration of carbon adatoms on carbon nanotubes: Density-functional ab initio and tight-binding studies. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	102
508	Burrowing of Co Nanoparticles on Clean Cu and Ag Surfaces. <i>Physical Review Letters</i> , <b>1999</b> , 83, 1163-17	16 <b>6</b> .4	102
507	Displacement cascades in FeIIr: A molecular dynamics study. <i>Journal of Nuclear Materials</i> , <b>2006</b> , 349, 119-132	3.3	97
506	Strings and interstitials in liquids, glasses and crystals. <i>Europhysics Letters</i> , <b>2005</b> , 71, 625-631	1.6	87
505	Molecular dynamics study of damage accumulation in GaN during ion beam irradiation. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	87
504	Recent advances in modeling and simulation of the exposure and response of tungsten to fusion energy conditions. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 092008	3.3	85
503	Comparative study of cascade damage in Fe simulated with recent potentials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 259, 853-860	1.2	85
502	B and N ion implantation into carbon nanotubes: Insight from atomistic simulations. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	84
501	Effect of the interatomic potential on the features of displacement cascades in 于e: A molecular dynamics study. <i>Journal of Nuclear Materials</i> , <b>2006</b> , 351, 65-77	3.3	83
500	Ion-irradiation-induced defects in bundles of carbon nanotubes. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2002</b> , 193, 603-608	1.2	83
499	Formation Mechanism of Fe Nanocubes by Magnetron Sputtering Inert Gas Condensation. <i>ACS Nano</i> , <b>2016</b> , 10, 4684-94	16.7	81

498	Pair potential for Felle. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 382, 143-146	3.3	81
497	Direct observation of size scaling and elastic interaction between nano-scale defects in collision cascades. <i>Europhysics Letters</i> , <b>2015</b> , 110, 36001	1.6	80
496	Tracks and voids in amorphous Ge induced by swift heavy-ion irradiation. <i>Physical Review Letters</i> , <b>2013</b> , 110, 245502	7.4	76
495	Amorphization mechanism and defect structures in ion-beam-amorphized Si, Ge, and GaAs. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	74
494	Role of electron-phonon coupling on collision cascade development in Ni, Pd, and Pt. <i>Physical Review B</i> , <b>1998</b> , 57, R13965-R13968	3.3	74
493	Ion ranges and irradiation-induced defects in multiwalled carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 2864-2871	2.5	73
492	Structural investigation of keV Ar-ion-induced surface ripples in Si by cross-sectional transmission electron microscopy. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	73
491	Role of Self-Interstitial Atoms on the High Temperature Properties of Metals. <i>Physical Review Letters</i> , <b>1998</b> , 80, 4201-4204	7.4	73
490	Inverse Kirkendall mixing in collision cascades. <i>Physical Review B</i> , <b>1999</b> , 59, 20-23	3.3	73
489	Fast three dimensional migration of He clusters in bcc Fe and Fettralloys. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 103509	2.5	72
488	Loop punching and bubble rupture causing surface roughening A model for W fuzz growth. <i>Europhysics Letters</i> , <b>2014</b> , 105, 25002	1.6	71
487	Molecular dynamics simulations of swift heavy ion induced defect recovery in SiC. <i>Computational Materials Science</i> , <b>2013</b> , 67, 261-265	3.2	71
486	Atomistic simulation of the interface structure of Si nanocrystals embedded in amorphous silica. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	70
485	Combined experimental and computational study of the recrystallization process induced by electronic interactions of swift heavy ions with silicon carbide crystals. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	69
484	The nature of high-energy radiation damage in iron. Journal of Physics Condensed Matter, 2013, 25, 125	4028	68
483	The EU programme for modelling radiation effects in fusion reactor materials: An overview of recent advances and future goals. <i>Journal of Nuclear Materials</i> , <b>2009</b> , 386-388, 1-7	3.3	66
482	Simulations of cementite: An analytical potential for the Fe-C system. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	66
481	Heterogeneous Gas-Phase Synthesis and Molecular Dynamics Modeling of Janus and CoreBatellite SiAg Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 13869-13875	3.8	65

Mechanisms of ion beam mixing in metals and semiconductors. Journal of Applied Physics, 1998, 83, 123&:1246 65 480 Development of interatomic ReaxFF potentials for Au-S-C-H systems. Journal of Physical Chemistry 2.8 64 A, 2011, 115, 10315-22 Cratering-energy regimes: From linear collision cascades to heat spikes to macroscopic impacts. 478 64 3.3 Physical Review B, 2001, 64, Formation of stacking-fault tetrahedra in collision cascades. Applied Physics Letters, 1999, 74, 2720-27223.4 64 477 Historical review of computer simulation of radiation effects in materials. Journal of Nuclear 476 63 3.3 Materials, 2019, 520, 273-295 A brief summary of the progress on the EFDA tungsten materials program. Journal of Nuclear 3.3 63 475 Materials, 2013, 442, S173-S180 Modelling radiation effects using the ab-initio based tungsten and vanadium potentials. Nuclear 63 1.2 474 Instruments & Methods in Physics Research B, 2009, 267, 3204-3208 Radiation damage production in massive cascades initiated by fusion neutrons in tungsten. Journal 3.3 62 473 of Nuclear Materials, 2014, 455, 207-211 Enhanced sputtering yields from single-ion impacts on gold nanorods. Physical Review Letters, 2013 61 7.4 472 , 111, 065504 Carbon nanotube mats and fibers with irradiation-improved mechanical characteristics: a 60 471 7.4 theoretical model. Physical Review Letters, 2004, 93, 215503 Plastic deformation of single nanometer-sized crystals. Physical Review Letters, 2008, 101, 156101 470 7.4 59 Nondislocation origin of GaAs nanoindentation pop-in event. *Physical Review Letters*, **2007**, 98, 045502 7.4 469 58 468 Large fraction of crystal directions leads to ion channeling. Physical Review B, 2016, 94, 58 3.3 Enhanced sputtering from nanoparticles and thin films: Size effects. Europhysics Letters, 2008, 82, 26002<sub>1.6</sub> 467 57 Analytic bond-order potential for atomistic simulations of zinc oxide. Journal of Physics Condensed 466 1.8 57 Matter, 2006, 18, 6585-6605 465 Chemical sputtering of Be due to D bombardment. New Journal of Physics, 2009, 11, 123017 56 2.9 The effect of Cr concentration on radiation damage in FeIIr alloys. Journal of Nuclear Materials, 464 56 3.3 2008, 382, 24-30 Overview of the JET preparation for deuterium Britium operation with the ITER like-wall. Nuclear 463 3.3 55 Fusion, **2019**, 59, 112021

462	MD simulations of onset of tungsten fuzz formation under helium irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 303, 156-161	1.2	54
461	Atomistic simulation of the transition from atomistic to macroscopic cratering. <i>Physical Review Letters</i> , <b>2008</b> , 101, 027601	7.4	54
460	Multiscale modeling of dislocation-precipitate interactions in Fe: From molecular dynamics to discrete dislocations. <i>Physical Review E</i> , <b>2016</b> , 93, 013309	2.4	53
459	Development of a ReaxFF description for gold. European Physical Journal B, 2008, 66, 75-79	1.2	53
458	Molecular dynamics study of defect formation in GaN cascades. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 202, 93-99	1.2	53
457	Origin of complex impact craters on native oxide coated silicon surfaces. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	52
456	Simulations of dynamical stabilization of Aglu nanocomposites by ion-beam processing. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 2917-2923	2.5	52
455	A quantitative and comparative study of sputtering yields in Au. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 239, 331-346	1.2	51
454	Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating. <i>Nature Physics</i> , <b>2017</b> , 13, 973-978	16.2	50
453	Simulation of displacement cascades in Fe90Cr10 using a two band model potential. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 372, 312-317	3.3	50
452	Simulations of the Initial Stages of Blistering in Helium Implanted Tungsten. <i>Physica Scripta</i> , <b>2004</b> , 95	2.6	50
451	PlasmaWall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 116041	3.3	50
450	Radiation damage buildup and dislocation evolution in Ni and equiatomic multicomponent Ni-based alloys. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 490, 323-332	3.3	49
449	Fusion materials modeling: Challenges and opportunities. MRS Bulletin, 2011, 36, 216-222	3.2	49
448	The Depths of Hydrogen and Helium Bubbles in Tungsten: A Comparison. <i>Fusion Science and Technology</i> , <b>2006</b> , 50, 43-57	1.1	49
447	Stability of irradiation-induced point defects on walls of carbon nanotubes. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 728		49
446	Defect production in tungsten: A comparison between field-ion microscopy and molecular-dynamics simulations. <i>Physical Review B</i> , <b>1998</b> , 58, 2361-2364	3.3	47
445	Suppression of carbon erosion by hydrogen shielding during high-flux hydrogen bombardment. <i>Physical Review B</i> , <b>1999</b> , 60, R14005-R14008	3.3	47

444	Non-equilibrium properties of interatomic potentials in cascade simulations in tungsten. <i>Journal of Nuclear Materials</i> , <b>2016</b> , 470, 119-127	3.3	46
443	Multiwalled carbon nanotubes as apertures and conduits for energetic ions. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	46
442	Adsorption and migration of carbon adatoms on zigzag carbon nanotubes. <i>Carbon</i> , <b>2004</b> , 42, 1021-1025	10.4	45
441	Gas-Phase Synthesis of Trimetallic Nanoparticles. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2151-2163	9.6	44
440	Cascade fragmentation: deviation from power law in primary radiation damage. <i>Materials Research Letters</i> , <b>2017</b> , 5, 357-363	<i>7</i> ⋅4	44
439	Measurement of two solvation regimes in water-ethanol mixtures using x-ray compton scattering. <i>Physical Review Letters</i> , <b>2011</b> , 107, 197401	7.4	44
438	Grazing incidence diffuse x-ray scattering investigation of the properties of irradiation-induced point defects in silicon. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	44
437	Screening and engineering of colour centres in diamond. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 483002	3	44
436	Gas Phase Synthesis of Multifunctional Fe-Based Nanocubes. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605328	15.6	43
435	Creating nanoporous graphene with swift heavy ions. <i>Carbon</i> , <b>2017</b> , 114, 511-518	10.4	43
435	Creating nanoporous graphene with swift heavy ions. <i>Carbon</i> , <b>2017</b> , 114, 511-518  Multiscale modelling of plasmaWall interactions in fusion reactor conditions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224018	10.4	43
	Multiscale modelling of plasmaWall interactions in fusion reactor conditions. <i>Journal Physics D:</i>		
434	Multiscale modelling of plasmaWall interactions in fusion reactor conditions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224018  Production of defects in hexagonal boron nitride monolayer under ion irradiation. <i>Nuclear</i>	3	43
434	Multiscale modelling of plasmaWall interactions in fusion reactor conditions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224018  Production of defects in hexagonal boron nitride monolayer under ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1327-1331	3	43
434 433 432	Multiscale modelling of plasmaWall interactions in fusion reactor conditions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224018  Production of defects in hexagonal boron nitride monolayer under ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1327-1331  Interatomic potentials for the Be-C-H system. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 445002  Influence of the picosecond defect distribution on damage accumulation in irradiated Fe. <i>Physical</i>	3 1.2 1.8	43 43 43
434 433 432 431	Multiscale modelling of plasmalwall interactions in fusion reactor conditions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224018  Production of defects in hexagonal boron nitride monolayer under ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1327-1331  Interatomic potentials for the Be-C-H system. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 445002  Influence of the picosecond defect distribution on damage accumulation in irradiated Fe. <i>Physical Review B</i> , <b>2012</b> , 85,  Defect clustering during ion irradiation of GaAs: Insight from molecular dynamics simulations.	3 1.2 1.8	43 43 43
434 433 432 431 430	Multiscale modelling of plasmalwall interactions in fusion reactor conditions. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 224018  Production of defects in hexagonal boron nitride monolayer under ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1327-1331  Interatomic potentials for the Be-C-H system. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 445002  Influence of the picosecond defect distribution on damage accumulation in irradiated Fe. <i>Physical Review B</i> , <b>2012</b> , 85,  Defect clustering during ion irradiation of GaAs: Insight from molecular dynamics simulations. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 1710-1717  Atomistic simulations of stainless steels: a many-body potential for the Fe-Cr-C system. <i>Journal of</i>	3 1.2 1.8 3.3	<ul><li>43</li><li>43</li><li>43</li><li>43</li><li>43</li></ul>

# (2009-2011)

426	Atomistic modeling of metal surfaces under electric fields: direct coupling of electric fields to a molecular dynamics algorithm. <i>Physical Review E</i> , <b>2011</b> , 83, 026704	2.4	41
425	Anisotropic elasticity of IVB transition-metal mononitrides determined by ab initio calculations. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	41
424	Contact epitaxy by deposition of Cu, Ag, Au, Pt, and Ni nanoclusters on (100) surfaces: Size limits and mechanisms. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	41
423	Relative abundance of single and double vacancies in irradiated single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 173109	3.4	41
422	Strain-induced Kirkendall mixing at semiconductor interfaces. <i>Computational Materials Science</i> , <b>2000</b> , 18, 283-294	3.2	41
421	Recoils, flows and explosions: surface damage mechanisms in metals and semiconductors during 50 eVB0 keV ion bombardment. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 148, 74-82	1.2	41
420	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> , <b>2013</b> , 25, 055801	1.8	40
419	Modelling irradiation effects in fusion materials. Fusion Engineering and Design, 2007, 82, 2413-2421	1.7	40
418	Irradiation-induced stiffening of carbon nanotube bundles. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 228, 142-145	1.2	40
417	Machine-learning interatomic potential for radiation damage and defects in tungsten. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	39
416	Radiation effects in nuclear materials: Role of nuclear and electronic energy losses and their synergy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 307, 43-48	1.2	39
415	Electronic effects in high-energy radiation damage in iron. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 085401	1.8	39
414	Molecular dynamics simulations of the structure of latent tracks in quartz and amorphous SiO2. <i>Nuclear Instruments &amp; Methods in Physics Research B,</i> <b>2009</b> , 267, 1456-1459	1.2	39
413	Comparison of molecular dynamics and binary collision approximation simulations for atom displacement analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 297, 23-28	1.2	38
412	A One-Dimensional Particle-in-Cell Model of Plasma Build-Up in Vacuum Arcs. <i>Contributions To Plasma Physics</i> , <b>2011</b> , 51, 5-21	1.4	38
411	The diffusion of carbon atoms inside carbon nanotubes. <i>New Journal of Physics</i> , <b>2008</b> , 10, 023022	2.9	38
410	Local segregation versus irradiation effects in high-entropy alloys: Steady-state conditions in a driven system. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 105106	2.5	36
409	Assessment of the relation between ion beam mixing, electronphonon coupling and damage production in Fe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 1830-1836	1.2	36

408	Sticking of atomic hydrogen on the tungsten (0 0 1) surface. Surface Science, 2006, 600, 3167-3174	1.8	36
407	Carbon nanotubes as masks against ion irradiation: An insight from atomistic simulations. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 1101-1103	3.4	36
406	Surface effects and statistical laws of defects in primary radiation damage: Tungsten vs. iron. <i>Europhysics Letters</i> , <b>2016</b> , 115, 36001	1.6	36
405	Swift Heavy Ion Shape Transformation of Au Nanocrystals Mediated by Molten Material Flow and Recrystallization. <i>Materials Research Letters</i> , <b>2014</b> , 2, 37-42	7.4	35
404	Bond-breaking mechanism of sputtering. <i>Europhysics Letters</i> , <b>2000</b> , 52, 504-510	1.6	35
403	Defect structures and statistics in overlapping cascade damage in fusion-relevant bcc metals. Journal of Nuclear Materials, 2018, 511, 64-74	3.3	35
402	Cooperative effect of electronic and nuclear stopping on ion irradiation damage in silica. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 505305	3	34
401	SAXS investigations of the morphology of swift heavy ion tracks in Equartz. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 045006	1.8	34
400	Mechanism of vacancy formation induced by hydrogen in tungsten. AIP Advances, 2013, 3, 122111	1.5	34
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242	Bond order potential for gold. European Physical Journal B, 2012, 85, 1	1.2	12
241	Atomistic simulation of damage production by atomic and molecular ion irradiation in GaN. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 043517	2.5	12
240	Partial melting mechanisms of embedded nanocrystals. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	12
239	Modeling of film growth by cluster deposition: The effect of size and energy. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	12
238	Au irradiation by 25-keV Aun (n=185600) clusters. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 212, 286-290	1.2	12
237	Molecular dynamics simulations of CH3 sticking on carbon first wall structures. <i>Journal of Nuclear Materials</i> , <b>2003</b> , 313-316, 52-55	3.3	12
236	MD and BCA simulations of He and H bombardment of fuzz in bcc elements. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 492, 113-121	3.3	11
235	Simple analytical model of nanocluster coalescence for porous thin film design. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2015</b> , 23, 015008	2	11
234	Interatomic Fe-H potential for irradiation and embrittlement simulations. <i>Computational Materials Science</i> , <b>2016</b> , 111, 525-531	3.2	11
233	Interaction of Dislocations with Carbides in BCC Fe Studied by Molecular Dynamics. <i>Fusion Science and Technology</i> , <b>2014</b> , 66, 283-288	1.1	11
232	Atomistic simulations of MeV ion irradiation of silica. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 303, 129-132	1.2	11
231	Electrostatic-elastoplastic simulations of copper surface under high electric fields. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2014</b> , 17,		11
230	Atomistic Simulation of the Explosion Welding Process. Advanced Engineering Materials, 2012, 14, 265-2	<b>6</b> 85	11
229	Atomistic simulations of fracture in silica glass through hypervelocity impact. <i>Europhysics Letters</i> , <b>2011</b> , 96, 16005	1.6	11

228	Molecular dynamics simulations of collision cascades in FeCrHe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 3420-3423	1.2	11
227	Analytical model of dislocation nucleation on a near-surface void under tensile surface stress. <i>Philosophical Magazine</i> , <b>2012</b> , 92, 3994-4010	1.6	11
226	Electronic stopping power calculation method for molecular dynamics simulations using local Firsov and free electron-gas models. <i>Radiation Effects and Defects in Solids</i> , <b>2006</b> , 161, 511-521	0.9	11
225	Monte Carlo simulations of multiple scattering effects in ERD measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 219-220, 1058-1061	1.2	11
224	Molecular dynamics simulations of CH3 sticking on carbon surfaces, angular and energy dependence. <i>Journal of Nuclear Materials</i> , <b>2004</b> , 334, 65-70	3.3	11
223	Signatures of irradiation-induced defects in scanning-tunneling microscopy images of carbon nanotubes. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 470-472	0.8	11
222	Nonequilibrium self-organization in alloys under irradiation leading to the formation of nanocomposites. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 202, 206-216	1.2	11
221	Non-equilibrium properties of GaAs interatomic potentials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 159, 183-186	1.2	11
220	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET-ILW and PISCES-B experience. <i>Nuclear Materials and Energy</i> , <b>2019</b> , 19, 510-515	2.1	10
219	Insights into the primary radiation damage of silicon by a machine learning interatomic potential. <i>Materials Research Letters</i> , <b>2020</b> , 8, 364-372	7.4	10
218	Graphitization of amorphous carbon by swift heavy ion impacts: Molecular dynamics simulation. <i>Diamond and Related Materials</i> , <b>2018</b> , 83, 134-140	3.5	10
217	Damage production in nanoparticles under light ion irradiation. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	10
216	Transition from atomistic to macroscopic cluster stopping in Au. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 2980-2986	1.2	10
215	Pinning of size-selected Co clusters on highly ordered pyrolytic graphite. <i>European Physical Journal D</i> , <b>2009</b> , 52, 107-110	1.3	10
214	Molecular Dynamic simulations of a double-walled carbon nanotube motor subjected to a sinusoidally varying electric field. <i>Computational Materials Science</i> , <b>2009</b> , 44, 979-987	3.2	10
213	Energy dependence of processing and breakdown properties of Cu and Mo. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2011</b> , 14,		10
212	Emergence of non-linear effects in nanocluster collision cascades in amorphous silicon. <i>New Journal of Physics</i> , <b>2008</b> , 10, 023013	2.9	10
211	Radiation damage in WC studied with MD simulations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 257, 614-617	1.2	10

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210	Dynamic Monte-Carlo modeling of hydrogen isotope reactivediffusive transport in porous graphite. <i>Journal of Nuclear Materials</i> , <b>2007</b> , 367-370, 1238-1242	3.3	10
209	Effects of heavy-ion and light-ion irradiation on the room temperature carrier dynamics of InGaAs/GaAs quantum wells. <i>Semiconductor Science and Technology</i> , <b>2006</b> , 21, 661-664	1.8	10
208	Contact epitaxy in multiple cluster deposition. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 253109	3.4	10
207	Segregation in SiGe clusters. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 228, 51-56	1.2	10
206	Defect creation by low-energy ion bombardment on GaAs (001) and Ge (001) surfaces. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 153, 209-212	1.2	10
205	Gaussian approximation potentials for body-centered-cubic transition metals. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	10
204	Modelling of crater formation on anode surface by high-current vacuum arcs. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 183302	2.5	10
203	Sputtering and redeposition of ion irradiated Au nanoparticle arrays: direct comparison of simulations to experiments. <i>New Journal of Physics</i> , <b>2017</b> , 19, 013023	2.9	9
202	Analytical bond order potential for simulations of BeO 1D and 2D nanostructures and plasma-surface interactions. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 135001	1.8	9
201	A model of defect cluster creation in fragmented cascades in metals based on morphological analysis. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 405701	1.8	9
200	Cascade overlap with vacancy-type defects in Fe. European Physical Journal B, 2019, 92, 1	1.2	9
199	Molecular dynamics simulation of helium ion implantation into silicon and its migration. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 456, 53-59	1.2	9
198	Angular and velocity distributions of tungsten sputtered by low energy argon ions. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 496, 18-23	3.3	9
197	Thermal response of nanoscale cylindrical inclusions of amorphous silica embedded in Equartz. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9
196	Atomistic simulation of Er irradiation induced defects in GaN nanowires. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 124313	2.5	9
195	Amorphous defect clusters of pure Si and type inversion in Si detectors. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	9
194	Crater annihilation on silver by cluster ion impacts. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 255, 259-264	1.2	9
193	Atomistic simulation of radiation effects in carbon-based materials and nitrides. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 218, 9-18	1.2	9

192	Cooperative mixing induced surface roughening in bilayer metals: a possible novel surface damage mechanism. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 222, 525-532	1.2	9
191	Obtaining Distributions of Plasma Impurities Using Atomistic Simulations. <i>Contributions To Plasma Physics</i> , <b>2002</b> , 42, 458-463	1.4	9
190	Implantation angle dependence of ion irradiation damage in GaN. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2003</b> , 105, 111-113	3.1	9
189	Heat spike and ballistic contributions to mixing in Si. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 153, 378-382	1.2	9
188	Atomistic simulations of field assisted evaporation in atom probe tomography. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 045302	3	9
187	Radiation damage in tungsten from cascade overlap with voids and vacancy clusters. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 405402	1.8	9
186	Simulation of redistributive and erosive effects in a-Si under Ar+ irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 414, 133-140	1.2	9
185	Effect of random surface orientation on W sputtering yields. <i>Nuclear Materials and Energy</i> , <b>2018</b> , 17, 113-122	2.1	9
184	Mechanistic details of the formation and growth of nanoscale voids in Ge under extreme conditions within an ion track. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 225302	3	8
183	Capacity of graphite's layered structure to suppress the sputtering yield: A molecular dynamics study. <i>Applied Surface Science</i> , <b>2015</b> , 337, 6-11	6.7	8
182	Effect of ion irradiation on structural properties of Cu64Zr36 metallic glass. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 341, 22-26	1.2	8
181	Impact of keV-energy argon clusters on diamond and graphite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 282, 112-115	1.2	8
180	Modification of Pt/Co/Pt film properties by ion irradiation. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	8
179	Molecular dynamics investigation of the interaction of dislocations with carbides in BCC Fe. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 352, 77-80	1.2	8
178	Kinetic Monte Carlo simulations of proton conductivity. <i>Physical Review E</i> , <b>2014</b> , 90, 012135	2.4	8
177	Molecular dynamics simulations of nanoscale metal tips under electric fields. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1748-1751	1.2	8
176	Mechanism of swift chemical sputtering: Comparison of Be/C/W dimer bond breaking. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1257-1261	1.2	8
175	The effect of plasma impurities on the sputtering of tungsten carbide. <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 085002	1.8	8

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174	Light and heavy ion effects on damage clustering in GaAs quantum wells. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2007</b> , 257, 324-327	1.2	8	
173	Chemical sputtering of amorphous silicon carbide under hydrogen bombardment. <i>Applied Surface Science</i> , <b>2001</b> , 184, 387-390	6.7	8	
172	lons mimic the impact of meteorites. <i>Physics World</i> , <b>2001</b> , 14, 22-24	0.5	8	
171	Reduced chemical sputtering of carbon by silicon doping. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 2216-221	182.5	8	
170	Diffuse x-ray scattering from 311 defects in Si. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 2978-2983	2.5	8	
169	Molecular dynamics simulations of thermally activated edge dislocation unpinning from voids in Fe. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	8	
168	Formation and emission mechanisms of Ag nanoclusters in the Ar matrix assembly cluster source. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	8	
167	Nanocutting mechanism of 6H-SiC investigated by scanning electron microscope online observation and stress-assisted and ion implant-assisted approaches. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 106, 3869-3880	3.2	8	
166	MD simulation of stress-assisted nanometric cutting mechanism of 3C silicon carbide. <i>Industrial Lubrication and Tribology</i> , <b>2019</b> , 71, 686-691	1.3	8	
165	Probing electron beam effects with chemoresistive nanosensors during in situ environmental transmission electron microscopy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 094103	3.4	7	
164	Defect clustering in irradiation of GaN by single and molecular ions. <i>Vacuum</i> , <b>2014</b> , 105, 88-90	3.7	7	
163	Irradiation effects in high-density polyethylene. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 312, 54-59	1.2	7	
162	Roughness scaling in titanium thin films: A three-dimensional molecular dynamics study of rotational and static glancing angle deposition. <i>Applied Surface Science</i> , <b>2013</b> , 268, 270-273	6.7	7	
161	Atomistic simulations of Be irradiation on W: mixed layer formation and erosion. <i>Nuclear Fusion</i> , <b>2014</b> , 54, 083001	3.3	7	
160	Low-energy irradiation effects in cellulose. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 023521	2.5	7	
159	Effects of defect clustering on optical properties of GaN by single and molecular ion irradiation. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 183511	2.5	7	
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157	Optimization of large amorphous silicon and silica structures for molecular dynamics simulations of energetic impacts. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1568-1571	1.2	7	

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154	Atomic-scale effects behind structural instabilities in Si lamellae during ion beam thinning. <i>AIP Advances</i> , <b>2012</b> , 2, 012186	1.5	7
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152	Low energy cluster deposition of nanoalloys. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 063516	2.5	7
151	Explicit phase shift factor stopping model for multi-component targets. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 212, 118-122	1.2	7
150	Vaporlike phase of amorphous SiO2 is not a prerequisite for the core/shell ion tracks or ion shaping. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	7
149	Data on erosion and hydrogen fuel retention in Beryllium plasma-facing materials. <i>Nuclear Materials and Energy</i> , <b>2021</b> , 27, 100994	2.1	7
148	MD simulation study on defect evolution and doping efficiency of p-type doping of 3C-SiC by Al ion implantation with subsequent annealing. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2258-2275	7.1	7
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146	Elongation mechanism of the ion shaping of embedded gold nanoparticles under swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 451, 42-48	1.2	6
145	Molecular dynamics simulation of the effects of swift heavy ion irradiation on multilayer graphene and diamond-like carbon. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146495	6.7	6
144	Direct observation of ion-induced self-organization and ripple propagation processes in atomistic simulations. <i>Materials Research Letters</i> , <b>2020</b> , 8, 110-116	7.4	6
143	Molecular Dynamics Simulations of Heavy Ion Induced Defects in SiC Schottky Diodes. <i>IEEE Transactions on Device and Materials Reliability</i> , <b>2018</b> , 18, 481-483	1.6	6
142	Velocity-dependent dark matter interactions in single-electron resolution semiconductor detectors with directional sensitivity. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	6
141	Molecular dynamics simulation of radiation damage in CaCd6 quasicrystal cubic approximant up to 10 keV. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 234505	3.9	6
140	Conditions for forming composite carbon nanotube-diamond like carbon material that retain the good properties of both materials. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 194306	2.5	6
139	Modelling of W <b>B</b> e mixed material sputtering under D irradiation. <i>Physica Scripta</i> , <b>2014</b> , T159, 014059	2.6	6

138	Defects in carbon implanted silicon calculated by classical potentials and first-principles methods. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	6
137	Fully Atomistic Analysis of Diffuse X-Ray Scattering Spectra of Silicon Defects. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 469, 199		6
136	MD simulations of the cluster beam deposition of porous Ge. European Physical Journal D, 2007, 43, 165	5-1.68	6
135	Molecular dynamics for ion beam analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 1886-1891	1.2	6
134	Ultrafast dynamics of Ni+-irradiated and annealed GaInAs/InP multiple quantum wells. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 2659-2663	3	6
133	Major elemental asymmetry and recombination effects in irradiated WC. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	6
132	Enhanced erosion of tungsten by atom clusters. <i>Journal of Nuclear Materials</i> , <b>2002</b> , 305, 60-65	3.3	6
131	The effect of interatomic potential in molecular dynamics simulation of low energy ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 228, 240-244	1.2	6
130	Glancing incidence diffuse X-ray scattering studies of implantation damage in Si. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 147, 399-409	1.2	6
129	Molecular dynamics investigations of surface damage produced by kiloelectronvolt self-bombardment of solids		6
128	Origin of increased helium density inside bubbles in Ni(1½)Fe alloys. <i>Scripta Materialia</i> , <b>2021</b> , 191, 1-6	5.6	6
127	Dependence of ion channeling on relative atomic number in compounds. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 435, 61-69	1.2	6
126	Parameter-free quantitative simulation of high-dose microstructure and hydrogen retention in ion-irradiated tungsten. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	6
125	Atomic force microscope adhesion measurements and atomistic molecular dynamics simulations at different humidities. <i>Measurement Science and Technology</i> , <b>2017</b> , 28, 034004	2	5
124	Optimization of single crystal mirrors for ITER diagnostics. <i>Fusion Engineering and Design</i> , <b>2019</b> , 146, 1450-1453	1.7	5
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122	Radiation stability of nanocrystalline single-phase multicomponent alloys. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 854-866	2.5	5
121	Influence of alkane chain length on adsorption on an 🖶 lumina surface by MD simulations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2015</b> , 352, 206-209	1.2	5

120	Cu self-sputtering MD simulations for 0.18 keV ions at elevated temperatures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 415, 31-40	1.2	5
119	Effects of crystallographic and geometric orientation on ion beam sputtering of gold nanorods. <i>Scientific Reports</i> , <b>2018</b> , 8, 512	4.9	5
118	Modified embedded-atom method used to derive interatomic potentials for defects and phase formation in the W-C system. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	5
117	Atomistic simulation of the measurement of mechanical properties of gold nanorods by AFM. <i>Scientific Reports</i> , <b>2017</b> , 7, 16257	4.9	5
116	Nuclear stopping power of antiprotons. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	5
115	Orientation dependent annealing kinetics of ion tracks in c-SiO2. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 224305	2.5	5
114	Nanoindentation of gold nanorods with an atomic force microscope. <i>Materials Research Express</i> , <b>2014</b> , 1, 045042	1.7	5
113	The effect of beryllium on deuterium implantation in tungsten by atomistic simulations. <i>Nuclear Fusion</i> , <b>2014</b> , 54, 123021	3.3	5
112	Hillock formation on ion-irradiated graphite surfaces. <i>Radiation Effects and Defects in Solids</i> , <b>1997</b> , 142, 459-469	0.9	5
111	Binding a carbon nanotube to the Si(100) surface using ion irradiation atomistic simulation study. <i>New Journal of Physics</i> , <b>2006</b> , 8, 115-115	2.9	5
110	Atomistic simulations of plasmal/vall interactions in fusion reactors. <i>Physica Scripta</i> , <b>2006</b> , T124, 53-57	2.6	5
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108	Low-energy deposition of Co onto Co islands on Ag(100): Effect on submonolayer growth. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	5
107	On the classification and quantification of crystal defects after energetic bombardment by machine learned molecular dynamics simulations. <i>Nuclear Materials and Energy</i> , <b>2020</b> , 22, 100724	2.1	5
106	Computational study of crystal defect formation in Mo by a machine learning molecular dynamics potential. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2021</b> , 29, 055001	2	5
105	Machine-learning interatomic potential for W-Mo alloys. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	5
104	Experimental study and MD simulation of damage formation in GaN under atomic and molecular ion irradiation. <i>Vacuum</i> , <b>2016</b> , 129, 166-169	3.7	5
103	Absence of single critical dose for the amorphization of quartz under ion irradiation. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 015403	1.8	5

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101	Molecular dynamics simulation of beryllium oxide irradiated by deuterium ions: sputtering and reflection. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 185001	1.8	4
100	Low energy sputtering of Mo surfaces. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 539, 152274	3.3	4
99	Sputtering of beryllium oxide by deuterium at various temperatures simulated with molecular dynamics. <i>Physica Scripta</i> , <b>2020</b> , T171, 014024	2.6	4
98	Irradiation cascades in cementite: 0.1🛮 0 keV Fe recoils. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 277, 136-139	1.2	4
97	Swift heavy ion effects on DLC-nanotube-diamond thin films. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 355301	3	4
96	Single and molecular ion irradiation-induced effects in GaN: experiment and cumulative MD simulations. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 505110	3	4
95	Experimental and numerical study of submonolayer sputter deposition of polystyrene fragments on silver for the storing matter technique. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11217-25	7.8	4
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93	Implantation of keV-energy argon clusters and radiation damage in diamond. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	4
92	Annihilation of craters: Molecular dynamic simulations on a silver surface. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	4
91	Fusion tritons and plasma-facing components in a fusion reactor. <i>Europhysics Letters</i> , <b>2007</b> , 78, 65002	1.6	4
90	Measurement of Si 311 defect properties using x-ray scattering. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 073529	2.5	4
89	Molecular dynamics with phase-shift-based electronic stopping for calibration of ion implantation profiles in crystalline silicon. <i>Thin Solid Films</i> , <b>2006</b> , 504, 121-125	2.2	4
88	Tight-Binding Atomistic Simulations of Hydrocarbon Sputtering by Hyperthermal Ions in Tokamak Divertors. <i>Contributions To Plasma Physics</i> , <b>2002</b> , 42, 451-457	1.4	4
87	He, Ne, Ar-bombardment of carbon first wall structures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2005</b> , 228, 319-324	1.2	4
86	Chemical effects in collision cascades. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2001</b> , 175-177, 31-35	1.2	4
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83	Modeling refractory high-entropy alloys with efficient machine-learned interatomic potentials: Defects and segregation. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	4
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79	The relationship between gross and net erosion of beryllium at elevated temperature. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 463, 777-780	3.3	3
78	Structural properties of protective diamond-like-carbon thin films grown on multilayer graphene. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 505703	1.8	3
77	Mechanical and elastic changes in cementite Fe3C subjected to cumulative 1 keV Fe recoils. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 338, 119-125	1.2	3
76	Sputtering of Be/C/W compounds in molecular dynamics and ERO simulations. <i>Journal of Nuclear Materials</i> , <b>2013</b> , 438, S589-S593	3.3	3
75	Molecular dynamics simulations of cascades in strained carbide inclusions embedded in $\Box$ ron. <i>AIP Advances</i> , <b>2015</b> , 5, 117152	1.5	3
74	Comparison of low-energy #adiation effects in polyethylene and cellulose by molecular dynamics simulations. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 174-177	1.2	3
73	Structure of Si/Ge nanoclusters: Kinetics and thermodynamics. <i>Computational Materials Science</i> , <b>2011</b> , 50, 1504-1508	3.2	3
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71	Molecular dynamics study on stopping powers of channeled He and Li ions in Si. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 217, 25-32	1.2	3
70	Ion beam induced coherent displacement in Al on Au system. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2004</b> , 216, 308-312	1.2	3
69	Heat spike effect on the straggling of cluster implants. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 206, 61-65	1.2	3
68	Self-Interstitial Atoms at High Temperatures in Dense Metals. <i>Defect and Diffusion Forum</i> , <b>2001</b> , 188-190, 59-70	0.7	3
67	Strain effects in Ge surface cascades. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2000</b> , 164-165, 482-486	1.2	3

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66	Channeling in Manufacturing Sharp Junctions: a Molecular Dynamics Study. <i>Physica Scripta</i> , <b>1999</b> , T79, 272	2.6	3
65	Diffuse X-Ray Scattering Study of Defects Created by KeV Ion Implants in Si. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 439, 89		3
64	Absence of a Crystal Direction Regime in which Sputtering Corresponds to Amorphous Material. <i>Physical Review Letters</i> , <b>2020</b> , 125, 225502	7.4	3
63	Adsorption of maleic anhydride on Pt(111). Surface Science, <b>2014</b> , 620, 9-16	1.8	2
62	Atomistic simulation of irradiation effects in GaN nanowires. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 326, 15-18	1.2	2
61	The effect of hydrocarbon chemistry on sputtering in mixed BeIIH materials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2013</b> , 303, 188-191	1.2	2
60	Simulations of electromechanical shape transformations of Au nanoparticles. <i>Physica Status Solidi</i> (B): Basic Research, <b>2015</b> , 252, 144-148	1.3	2
59	Molecular dynamics simulation of Cr-precipitate demixing in FeCr alloys. <i>Radiation Effects and Defects in Solids</i> , <b>2014</b> , 169, 646-654	0.9	2
58	On the molecular effect in hydrogen molecular ions penetration through thin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2012</b> , 287, 46-50	1.2	2
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56	Improvement of surface processes modelling in the ERO code. <i>Journal of Nuclear Materials</i> , <b>2009</b> , 390-391, 175-178	3.3	2
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54	Application of molecular dynamics for low-energy ion implantation in crystalline silicon. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2006</b> , 24, 462		2
53	Multi-scale modeling of hydrogen isotope transport in porous graphite. <i>Journal of Plasma Physics</i> , <b>2006</b> , 72, 799	2.7	2
52	Molecular dynamics simulation of Ge surface segregation. <i>Thin Solid Films</i> , <b>2004</b> , 464-465, 95-98	2.2	2
51	Molecular dynamics simulation method for calculating fluence-dependent range profiles. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2003</b> , 202, 132-137	1.2	2
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49	Point Defects in Metals <b>2005</b> , 1855-1876		2

48	Nanopatterning of the (001) surface of crystalline Ge by ion irradiation at off-normal incidence: Experiment and simulation. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
47	An interatomic potential for WN interactions. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2016</b> , 24, 065007	2	2
46	Atomistic simulations of deuterium irradiation on iron-based alloys in future fusion reactors. <i>Nuclear Materials and Energy</i> , <b>2016</b> , 9, 571-575	2.1	2
45	Simulation Study of Al Channeling in 4H-SiC <b>2018</b> ,		2
44	Solar neutrinos and dark matter detection with diurnal modulation. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	2
43	Interface effects on heat dynamics in embedded metal nanoparticles during swift heavy ion irradiation. <i>Journal Physics D: Applied Physics</i> ,	3	2
42	New developments in the simulation of Rutherford backscattering spectrometry in channeling mode using arbitrary atom structures. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2020</b> , 28, 075005	2	1
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40	Comment on Nanoindentation hardness anisotropy of alumina crystal: A molecular dynamics study[[Appl. Phys. Lett. 92, 161904 (2008)]. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 146101	3.4	1
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38	Atomistic modelling of the interface structure of Si nanocrystals in silica. <i>Journal of Physics:</i> Conference Series, <b>2008</b> , 100, 052023	0.3	1
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35	Deposition energy dependence in cluster-assembled thin film densities. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 908, 1		1
34	Diffuse X-Ray Scattering Study of Defects Created by keV Ion Implants in Si. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 438, 77		1
33	Defect and density evolution under high-fluence ion irradiation of Si/SiO2 heterostructures. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	1
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31	Computational study of tungsten sputtering by nitrogen. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 542, 1524	<b>65</b> 3.3	1

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30	Gradient-based training and pruning of radial basis function networks with an application in materials physics. <i>Neural Networks</i> , <b>2021</b> , 133, 123-131	9.1	1
29	Molecular Dynamics Simulations of Non-equilibrium Systems <b>2018</b> , 1-33		1
28	Temperature effect on irradiation damage in equiatomic multi-component alloys. <i>Computational Materials Science</i> , <b>2021</b> , 197, 110571	3.2	1
27	MD simulation of two-temperature model in ion irradiation of 3C-SiC: Effects of electronic and nuclear stopping coupling, ion energy and crystal orientation. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 557, 153313	3.3	1
26	Molecular dynamics simulations of high-dose damage production and defect evolution in tungsten. Journal of Nuclear Materials, <b>2021</b> , 556, 153158	3.3	1
25	Recent Developments in Monte Carlo Codes for Edge Plasma Studies <b>2002</b> , 42, 145		1
24	Obtaining Distributions of Plasma Impurities Using Atomistic Simulations <b>2002</b> , 42, 458		1
23	Nanorod orientation control by swift heavy ion irradiation. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 171602	3.4	1
22	Slowing down of 100 keV antiprotons in Al foils. <i>Results in Physics</i> , <b>2018</b> , 8, 683-685	3.7	O
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19	Modeling of Radiation Damage in Materials: Best Practices and Future Directions <b>2019</b> , 1-13		
18	Optimizing the sputter deposition process of polymers for the Storing Matter technique using PMMA. <i>Journal of Mass Spectrometry</i> , <b>2016</b> , 51, 889-899	2.2	
17	Self-assembly of oxide-supported metal clusters into ring-like structures. <i>Nanotechnology</i> , <b>2013</b> , 24, 03	85 <u>6.Q</u> 2	
16	First-principles and empirical potential simulation study of intrinsic and carbon-related defects in silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2012</b> , 9, 1968-1973		
15	Adaptive molecular decomposition: large-scale quantum chemistry for liquids. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 104108	3.9	
14	Contribution of Electronic Energy Deposition to the Atomic Cascade Damage in Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1264, 1		
13	Ion irradiation effects in silicon nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1354, 59		

12	Growing multiple layers of porous semiconductors A molecular-dynamics study. <i>Europhysics Letters</i> , <b>2010</b> , 91, 26002	1.6
11	Atomic-scale simulations of radiation effects in GaN and carbon nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 792, 440	
10	Ion irradiation-induced welding of a carbon nanotube to a Si (100) surface. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 908, 1	
9	Effects of Ion Irradiation on Supported Carbon Nanotubes and Nanotube-Substrate Interfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 706, 1	
8	Surface Smoothing upon Deposition of Nanoparticles on Single Crystalline Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 585, 21	
7	Effect of cascade overlap and C15 clusters on the damage evolution in Fe: An OKMC study. <i>Materialia</i> , <b>2022</b> , 21, 101344	3.2
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