# Kai Henrik Nordlund

# List of Publications by Year in Descending Order

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

 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	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	
550	Nanorod orientation control by swift heavy ion irradiation. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 171602	3.4	1
549	Primary radiation damage in silicon from the viewpoint of a machine learning interatomic potential. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	1
548	Nuclear stopping powers for DFT potentials. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2021</b> , 508, 10-18	1.2	0
547	Unravelling the secrets of the resistance of GaN to strongly ionising radiation. <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	15
546	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
545	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
544	Machine-learning interatomic potential for W-Mo alloys. <i>Journal of Physics Condensed Matter</i> , <b>2021</b> , 33,	1.8	5
543	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
542	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
541	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
540	Nano-vault architecture mitigates stress in silicon-based anodes for lithium-ion batteries. <i>Communications Materials</i> , <b>2021</b> , 2,	6	4
539	Temperature effect on irradiation damage in equiatomic multi-component alloys. <i>Computational Materials Science</i> , <b>2021</b> , 197, 110571	3.2	1
538	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
537	Solar neutrinos and dark matter detection with diurnal modulation. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	2
536	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
535	The cluster species effect on the noble gas cluster interaction with solid surfaces. <i>Surfaces and Interfaces</i> , <b>2021</b> , 26, 101397	4.1	O

#### (2020-2021)

534	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
533	Molecular dynamics simulations of high-dose damage production and defect evolution in tungsten. <i>Journal of Nuclear Materials</i> , <b>2021</b> , 556, 153158	3.3	1
532	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
531	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
530	Segregation of Ni at early stages of radiation damage in NiCoFeCr solid solution alloys. <i>Acta Materialia</i> , <b>2020</b> , 196, 44-51	8.4	18
529	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
528	Low energy sputtering of Mo surfaces. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 539, 152274	3.3	4
527	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
526	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
525	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
524	Gaussian approximation potentials for body-centered-cubic transition metals. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	10
523	Molecular Dynamics Simulations of Non-equilibrium Systems <b>2020</b> , 2161-2192		
522	Modeling of Radiation Damage in Materials: Best Practices and Future Directions <b>2020</b> , 2367-2379		
521	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
520	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
519	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
518	On the mechanism of the shape elongation of embedded nanoparticles. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2020</b> , 475, 44-48	1.2	4
517	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

516	Computational study of tungsten sputtering by nitrogen. Journal of Nuclear Materials, 2020, 542, 1524	6 <b>5</b> .3	1
515	Defect accumulation and evolution during prolonged irradiation of Fe and FeCr alloys. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 528, 151843	3.3	13
514	Modeling of high-fluence irradiation of amorphous Si and crystalline Al by linearly focused Ar ions. Journal of Physics Condensed Matter, <b>2019</b> , 31, 075302	1.8	3
513	Modeling of Radiation Damage in Materials: Best Practices and Future Directions <b>2019</b> , 1-13		
512	Overview of the JET preparation for deuterium <b>E</b> ritium operation with the ITER like-wall. <i>Nuclear Fusion</i> , <b>2019</b> , 59, 112021	3.3	55
511	Historical review of computer simulation of radiation effects in materials. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 520, 273-295	3.3	63
510	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
509	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
508	Optimization of single crystal mirrors for ITER diagnostics. <i>Fusion Engineering and Design</i> , <b>2019</b> , 146, 1450-1453	1.7	5
507	Channeling maps for Si ions in Si: Assessing the binary collision approximation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2019</b> , 449, 17-21	1.2	3
507 506		1.2	3
	& Methods in Physics Research B, <b>2019</b> , 449, 17-21  Site-Specific Wetting of Iron Nanocubes by Gold Atoms in Gas-Phase Synthesis. Advanced Science,		
506	& Methods in Physics Research B, <b>2019</b> , 449, 17-21  Site-Specific Wetting of Iron Nanocubes by Gold Atoms in Gas-Phase Synthesis. Advanced Science, <b>2019</b> , 6, 1900447	13.6	28
506 505	& Methods in Physics Research B, 2019, 449, 17-21  Site-Specific Wetting of Iron Nanocubes by Gold Atoms in Gas-Phase Synthesis. Advanced Science, 2019, 6, 1900447  Gas-Phase Synthesis of Trimetallic Nanoparticles. Chemistry of Materials, 2019, 31, 2151-2163  Analytical interatomic bond-order potential for simulations of oxygen defects in iron. Journal of	13.6 9.6	28
506 505 504	& Methods in Physics Research B, 2019, 449, 17-21  Site-Specific Wetting of Iron Nanocubes by Gold Atoms in Gas-Phase Synthesis. Advanced Science, 2019, 6, 1900447  Gas-Phase Synthesis of Trimetallic Nanoparticles. Chemistry of Materials, 2019, 31, 2151-2163  Analytical interatomic bond-order potential for simulations of oxygen defects in iron. Journal of Physics Condensed Matter, 2019, 31, 215401  Reflection of hydrogen and deuterium atoms from the beryllium, carbon, tungsten surfaces.	13.6 9.6 1.8	28 44 3
506 505 504 503	& Methods in Physics Research B, 2019, 449, 17-21  Site-Specific Wetting of Iron Nanocubes by Gold Atoms in Gas-Phase Synthesis. Advanced Science, 2019, 6, 1900447  Gas-Phase Synthesis of Trimetallic Nanoparticles. Chemistry of Materials, 2019, 31, 2151-2163  Analytical interatomic bond-order potential for simulations of oxygen defects in iron. Journal of Physics Condensed Matter, 2019, 31, 215401  Reflection of hydrogen and deuterium atoms from the beryllium, carbon, tungsten surfaces. Nuclear Instruments & Methods in Physics Research B, 2019, 460, 4-9  Radiation stability of nanocrystalline single-phase multicomponent alloys. Journal of Materials	13.6 9.6 1.8	28 44 3
<ul><li>506</li><li>505</li><li>504</li><li>503</li><li>502</li></ul>	& Methods in Physics Research B, 2019, 449, 17-21  Site-Specific Wetting of Iron Nanocubes by Gold Atoms in Gas-Phase Synthesis. Advanced Science, 2019, 6, 1900447  Gas-Phase Synthesis of Trimetallic Nanoparticles. Chemistry of Materials, 2019, 31, 2151-2163  Analytical interatomic bond-order potential for simulations of oxygen defects in iron. Journal of Physics Condensed Matter, 2019, 31, 215401  Reflection of hydrogen and deuterium atoms from the beryllium, carbon, tungsten surfaces. Nuclear Instruments & Methods in Physics Research B, 2019, 460, 4-9  Radiation stability of nanocrystalline single-phase multicomponent alloys. Journal of Materials Research, 2019, 34, 854-866  Molecular dynamics simulation of beryllium oxide irradiated by deuterium ions: sputtering and	13.6 9.6 1.8 1.2	28 44 3 5

# (2018-2019)

498	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
497	Machine-learning interatomic potential for radiation damage and defects in tungsten. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	39
496	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
495	Collision cascades overlapping with self-interstitial defect clusters in Fe and W. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 245402	1.8	18
494	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
493	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
492	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
491	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
490	Nanoscale density variations induced by high energy heavy ions in amorphous silicon nitride and silicon dioxide. <i>Nanotechnology</i> , <b>2018</b> , 29, 144004	3.4	19
489	Slowing down of 100 keV antiprotons in Al foils. <i>Results in Physics</i> , <b>2018</b> , 8, 683-685	3.7	О
488	Cu self-sputtering MD simulations for 0.15 keV ions at elevated temperatures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 415, 31-40	1.2	5
487	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
486	Effects of precipitates and dislocation loops on the yield stress of irradiated iron. <i>Scientific Reports</i> , <b>2018</b> , 8, 6914	4.9	30
485	Improving atomic displacement and replacement calculations with physically realistic damage models. <i>Nature Communications</i> , <b>2018</b> , 9, 1084	17.4	146
484	Directional Sensitivity in Light-Mass Dark Matter Searches with Single-Electron-Resolution Ionization Detectors. <i>Physical Review Letters</i> , <b>2018</b> , 120, 111301	7.4	20
483	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
482	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
481	Effects of the short-range repulsive potential on cascade damage in iron. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 508, 530-539	3.3	33

480	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
479	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
478	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
477	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
476	Simulation Study of Al Channeling in 4H-SiC <b>2018</b> ,		2
475	Effect of random surface orientation on W sputtering yields. <i>Nuclear Materials and Energy</i> , <b>2018</b> , 17, 113-122	2.1	9
474	Molecular Dynamics Simulations of Non-equilibrium Systems <b>2018</b> , 1-33		1
473	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
472	Screening and engineering of colour centres in diamond. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 483002	3	44
471	Defect structures and statistics in overlapping cascade damage in fusion-relevant bcc metals. Journal of Nuclear Materials, <b>2018</b> , 511, 64-74	3.3	35
470	Defect Creation in Crystals: A Portal to Directional Dark Matter Searches. <i>Journal of Low Temperature Physics</i> , <b>2018</b> , 193, 1146-1150	1.3	
469	Pattern formation on ion-irradiated Si surface at energies where sputtering is negligible. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 235108	2.5	17
468	Gas Phase Synthesis of Multifunctional Fe-Based Nanocubes. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605328	15.6	43
467	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
466	Spatial distribution of particles sputtered from single crystals by gas cluster ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 406, 518-522	1.2	4
465	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
464	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
463	Atomistic simulation of ion irradiation of semiconductor heterostructures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 409, 14-18	1.2	6

# (2017-2017)

462	Comparison of repulsive interatomic potentials calculated with an all-electron DFT approach with experimental data. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 406, 511-517	1.2	20
461	Multi-scale modelling to relate beryllium surface temperature, deuterium concentration and erosion in fusion reactor environment. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 204003	3	12
460	Temperature dependence of underdense nanostructure formation in tungsten under helium irradiation. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 490, 108-114	3.3	33
459	Radiation damage buildup by athermal defect reactions in nickel and concentrated nickel alloys. <i>Materials Research Letters</i> , <b>2017</b> , 5, 433-439	7.4	21
458	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
457	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
456	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
455	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
454	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
453	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
452	Creating nanoporous graphene with swift heavy ions. <i>Carbon</i> , <b>2017</b> , 114, 511-518	10.4	43
451	Damage buildup and edge dislocation mobility in equiatomic multicomponent alloys. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 393, 114-117	1.2	17
450	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
449	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
448	Swift heavy ion effects on DLC-nanotube-diamond thin films. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 355301	3	4
447	Cascade fragmentation: deviation from power law in primary radiation damage. <i>Materials Research Letters</i> , <b>2017</b> , 5, 357-363	7.4	44
446	Overview of the JET results in support to ITER. <i>Nuclear Fusion</i> , <b>2017</b> , 57, 102001	3.3	125
445	ERO modelling of tungsten erosion in the linear plasma device PSI-2. <i>Nuclear Materials and Energy</i> , <b>2017</b> , 12, 253-260	2.1	13

444	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
443	Cascade debris overlap mechanism of <100> dislocation loop formation in Fe and FeCr. <i>Europhysics Letters</i> , <b>2017</b> , 119, 56003	1.6	33
442	Nuclear stopping power of antiprotons. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	5
441	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
440	Thermal Oxidation of Size-Selected Pd Nanoparticles Supported on CuO Nanowires: The Role of the CuOPd Interface. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6153-6160	9.6	19
439	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
438	Tuning the onset of ferromagnetism in heterogeneous bimetallic nanoparticles by gas phase doping. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	19
437	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
436	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
435	Subcascade formation and defect cluster size scaling in high-energy collision events in metals. <i>Europhysics Letters</i> , <b>2016</b> , 115, 26001	1.6	30
434	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
433	Mechanism of Radiation Damage Reduction in Equiatomic Multicomponent Single Phase Alloys. <i>Physical Review Letters</i> , <b>2016</b> , 116, 135504	7.4	250
432	Simulation of Rutherford backscattering spectrometry from arbitrary atom structures. <i>Physical Review E</i> , <b>2016</b> , 94, 043319	2.4	24
431	Improved ERO modelling for spectroscopy of physically and chemically assisted eroded beryllium from the JET-ILW. <i>Nuclear Materials and Energy</i> , <b>2016</b> , 9, 604-609	2.1	14
430	Molecular dynamics simulations of ballistic He penetration into W fuzz. <i>Nuclear Fusion</i> , <b>2016</b> , 56, 12601	53.3	16
429	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	
428	Ru/Al Multilayers Integrate Maximum Energy Density and Ductility for Reactive Materials. <i>Scientific Reports</i> , <b>2016</b> , 6, 19535	4.9	13
427	Formation Mechanism of Fe Nanocubes by Magnetron Sputtering Inert Gas Condensation. <i>ACS Nano</i> , <b>2016</b> , 10, 4684-94	16.7	81

# (2015-2016)

426	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	
425	Interatomic Fe-H potential for irradiation and embrittlement simulations. <i>Computational Materials Science</i> , <b>2016</b> , 111, 525-531	3.2	11	
424	An interatomic potential for WN interactions. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2016</b> , 24, 065007	2	2	
423	Atomistic simulations of field assisted evaporation in atom probe tomography. <i>Journal Physics D: Applied Physics,</i> <b>2016</b> , 49, 045302	3	9	
422	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	
421	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	
420	Large fraction of crystal directions leads to ion channeling. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	58	
419	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	
418	Dependence of short and intermediate-range order on preparation in experimental and modeled pure a-Si. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 438, 26-36	3.9	14	
417	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	
416	Crystallization of silicon nanoclusters with inert gas temperature control. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	31	
415	Atomistic two-temperature modelling of ion track formation in silicon dioxide. <i>Europhysics Letters</i> , <b>2015</b> , 110, 16004	1.6	24	
414	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	
413	Surface Segregation in Chromium-Doped NiCr Alloy Nanoparticles and Its Effect on Their Magnetic Behavior. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3216-3225	9.6	31	
412	Electronic effects in high-energy radiation damage in tungsten. <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 135401	1.8	29	
411	Cluster analysis of Dairy Herd Improvement data to discover trends in performance characteristics in large Upper Midwest dairy herds. <i>Journal of Dairy Science</i> , <b>2015</b> , 98, 3059-70	4	16	
410	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	
409	Atomistic simulations of the effect of reactor-relevant parameters on be sputtering. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 463, 805-809	3.3	14	

408	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
407	Tensile testing of Fe and FeCr nanowires using molecular dynamics simulations. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 014313	2.5	20
406	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
405	IonBolid interactions at the extremes of electronic energy loss: Examples for amorphous semiconductors and embedded nanostructures. <i>Current Opinion in Solid State and Materials Science</i> , <b>2015</b> , 19, 29-38	12	21
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243	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
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