

Frederick H Streit

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.

32
papers

2,337
citations

20
h-index

35
g-index

35
ext. papers

2,482
ext. citations

4.6
avg, IF

4.06
L-index

#	Paper	IF	Citations
32	Machine learning-driven multiscale modeling reveals lipid-dependent dynamics of RAS signaling proteins.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	4
31	ddcMD: A fully GPU-accelerated molecular dynamics program for the Martini force field. <i>Journal of Chemical Physics</i> , 2020 , 153, 045103	3.9	3
30	Large-scale molecular dynamics simulations of dense plasmas: The Cimarron Project. <i>High Energy Density Physics</i> , 2012 , 8, 105-131	1.2	87
29	Self-diffusivity and interdiffusivity of molten aluminum-copper alloys under pressure, derived from molecular dynamics. <i>Physical Review E</i> , 2012 , 85, 031202	2.4	12
28	Large-Scale Molecular Dynamics Simulation of Charged Particle Energy Deposition in Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2620-2621	1.3	2
27	Molecular dynamics simulations of electron-ion temperature equilibration in an SF6 plasma. <i>Physical Review Letters</i> , 2009 , 102, 205004	7.4	40
26	Molecular dynamic simulations with radiation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 214030	2	6
25	BlueGene/L applications: Parallelism On a Massive Scale. <i>International Journal of High Performance Computing Applications</i> , 2008 , 22, 33-51	1.8	3
24	Robust quantum-based interatomic potentials for multiscale modeling in transition metals. <i>Journal of Materials Research</i> , 2006 , 21, 563-573	2.5	42
23	Simulating solidification in metals at high pressure: The drive to petascale computing. <i>Journal of Physics: Conference Series</i> , 2006 , 46, 254-267	0.3	18
22	Beyond finite-size scaling in solidification simulations. <i>Physical Review Letters</i> , 2006 , 96, 225701	7.4	65
21	High-pressure tailored compression: Controlled thermodynamic paths. <i>Journal of Applied Physics</i> , 2006 , 100, 023508	2.5	32
20	Calculation of optical absorption in Al across the solid-to-liquid transition. <i>Physical Review B</i> , 2005 , 71,	3.3	9
19	Scaling physics and material science applications on a massively parallel Blue Gene/L system 2005 ,		3
18	Quantum-based atomistic simulation of materials properties in transition metals. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2825-2857	1.8	123
17	Energetics of aluminum vacancies in gamma alumina. <i>Physical Review B</i> , 1999 , 60, 773-777	3.3	62
16	Electrostatic-based model for alumina surfaces. <i>Thin Solid Films</i> , 1994 , 253, 179-184	2.2	13

15	Charge transfer and bonding in metallic oxides. <i>Journal of Adhesion Science and Technology</i> , 1994 , 8, 853-864	31
14	Electrostatic potentials for metal-oxide surfaces and interfaces. <i>Physical Review B</i> , 1994 , 50, 11996-12003	301
13	Surface-stress effects on elastic properties. II. Metallic multilayers. <i>Physical Review B</i> , 1994 , 49, 10707-10716	66
12	Surface-stress effects on elastic properties. I. Thin metal films. <i>Physical Review B</i> , 1994 , 49, 10699-10706	198
11	Elastic interactions of defects on (111) Au surfaces. <i>Physical Review B</i> , 1992 , 45, 11433-11436	3-3 2
10	Elastic properties of thin fcc films. <i>Physical Review B</i> , 1990 , 41, 12285-12287	3-3 46
9	Significance of plane versus chain sites in high-temperature oxide superconductors. <i>Nature</i> , 1988 , 332, 238-240	50.4 203
8	High-temperature superconductivity in tetragonal perovskite structures: Is oxygen-vacancy order important?. <i>Physical Review Letters</i> , 1988 , 60, 1446-1449	7.4 306
7	Superconductivity and magnetism in transition-element-substituted YBa ₂ Cu ₃ O ₇ compounds. <i>Journal of Applied Physics</i> , 1988 , 63, 4196-4198	2.5 17
6	Superconducting Au-YBa ₂ Cu ₃ O ₇ composites. <i>Applied Physics Letters</i> , 1988 , 52, 927-929	3.4 30
5	Electrical transport and superconductivity in a Au-YBa ₂ Cu ₃ O ₇ percolation system. <i>Physical Review B</i> , 1988 , 38, 776-779	3-3 67
4	Effect of noble metal buffer layers on superconducting YBa ₂ Cu ₃ O ₇ thin films. <i>Applied Physics Letters</i> , 1987 , 51, 2155-2157	3.4 40
3	Flux pinning and critical current density in YBa ₂ Cu ₃ O _{6+y} and EuBa ₂ Cu ₃ O _{6+y} superconductors. <i>Physical Review B</i> , 1987 , 36, 2382-2385	3-3 36
2	Effect of transition-metal elements on the superconductivity of Y-Ba-Cu-O. <i>Physical Review B</i> , 1987 , 35, 8782-8784	3-3 415
1	Magnetic characteristics of superconducting RBa ₂ Cu ₃ O _{6+y} (R = Nd, Sm, Eu, Gd, Dy, Ho, Er, Tm and Yb). <i>Solid State Communications</i> , 1987 , 63, 817-820	1.6 54