

# Arthur P Smith

## List of Publications by Year in descending order

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30  
papers

1,010  
citations

567281

15  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1015  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudopotentials and quasicrystals. <i>Physical Review Letters</i> , 1987, 59, 1365-1368.	7.8	178
2	Investigation of the reliability of density functional methods: Reaction and activation energies for Si-Si bond cleavage and H <sub>2</sub> elimination from silanes. <i>Journal of Chemical Physics</i> , 1996, 104, 148-158.	3.0	112
3	Experimental and Theoretical Study of the Rotation of Si Ad-dimers on the Si(100) Surface. <i>Physical Review Letters</i> , 1996, 77, 2518-2521.	7.8	102
4	Achieving human and machine accessibility of cited data in scholarly publications. <i>PeerJ Computer Science</i> , 2015, 1, e1.	4.5	89
5	Diffusion of Ge below the Si(100) Surface: Theory and Experiment. <i>Physical Review Letters</i> , 2000, 84, 2441-2444.	7.8	78
6	Si adatom binding and diffusion on the Si(100) surface: Comparison of ab initio, semiempirical and empirical potential results. <i>Journal of Chemical Physics</i> , 1995, 102, 1044-1056.	3.0	71
7	Quasiparticle effective mass and enhanced g factor for a two-dimensional electron gas at intermediate magnetic fields. <i>Physical Review B</i> , 1992, 45, 8829-8832.	3.2	66
8	Atomic structure of $\sqrt{2}$ -SiC(100) surfaces: an ab initio study. <i>Surface Science</i> , 1995, 330, 265-275.	1.9	65
9	Dimer and String Formation during Low Temperature Silicon Deposition on Si(100). <i>Physical Review Letters</i> , 1996, 77, 1326-1329.	7.8	45
10	Fluctuating pseudoatoms in metallic fluids. <i>Journal of Chemical Physics</i> , 1989, 91, 1843-1854.	3.0	25
11	The sphere packing problem in quasicrystals. <i>Journal of Non-Crystalline Solids</i> , 1993, 153-154, 258-263.	3.1	21
12	Rapid convergence of lattice sums and structural integrals in ordered and disordered systems. <i>Physical Review B</i> , 1988, 38, 12942-12947.	3.2	20
13	Optical properties of C <sub>60</sub> vibrations. <i>Physical Review B</i> , 1995, 52, 7876-7878.	3.2	18
14	The journal as an overlay on preprint databases. <i>Learned Publishing</i> , 2000, 13, 43-48.	1.7	17
15	Stable one-component quasicrystals. <i>Physical Review B</i> , 1991, 43, 11635-11641.	3.2	16
16	Electrostatic energy of a one-component quasicrystal. <i>Physical Review B</i> , 1990, 42, 1189-1199.	3.2	15
17	Quasi-two-dimensional quantum states of H <sub>2</sub> in stage-2 Rb-intercalated graphite. <i>Physical Review B</i> , 1996, 53, 10187-10199.	3.2	14
18	Kinetics of the complex order parameter in the Landau-Ginzburg model of spontaneous phase transitions. <i>Physical Review B</i> , 1987, 36, 2190-2203.	3.2	9

#	ARTICLE	IF	CITATIONS
19	Charge transfer in Rb-intercalated graphites. Physical Review B, 1994, 49, 7786-7789.	3.2	9
20	From PACS to PhySH. Nature Reviews Physics, 2019, 1, 8-11.	26.6	7
21	Comment on "icosahedral quasiperiodic ground states". Physical Review Letters, 1989, 63, 2768-2768.		6
22	Effect of semicore banding on heavy-alkali-metal lattice constants: Corrections to the frozen-core approximation. Physical Review B, 1993, 47, 16101-16106.	3.2	6
23	COMMENT ON "FALSIFICATION OF THE ATMOSPHERIC CO <sub>2</sub> GREENHOUSE EFFECTS WITHIN THE FRAME OF PHYSICS". International Journal of Modern Physics B, 2010, 24, 1309-1332.	2.0	6
24	A critical effect in the Rayleigh-wing spectrum of argon. Chemical Physics Letters, 1984, 107, 83-85.	2.6	4
25	Optical properties of the vibrations in charged C <sub>60</sub> molecules. Physical Review B, 1996, 53, 7002-7005.	3.2	4
26	Atomic potentials for Rb and K graphite intercalation compounds. Physical Review B, 1994, 49, 5050-5053.	3.2	3
27	Physics Subject Headings (PhySH). Knowledge Organization, 2020, 47, 257-266.	0.2	2
28	The role of fluctuations in spontaneous metamagnetism. Journal of Applied Physics, 1988, 64, 5633-5635.	2.5	1
29	Silicon AD-Dimer Binding on Si(100). Materials Research Society Symposia Proceedings, 1995, 389, 35.	0.1	1
30	Energy Possibilities: Windows, Windmills, and Satellites. Physics Today, 2002, 55, 75-75.	0.3	0