

Harald S W Friedrich

List of Publications by Year in descending order

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54
papers

1,687
citations

586496

16
h-index

312153

41
g-index

61
all docs

61
docs citations

61
times ranked

773
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple Reactions. Graduate Texts in Physics, 2017, , 287-401.	0.1	0
2	Atomic Spectra. Graduate Texts in Physics, 2017, , 159-286.	0.1	0
3	Review of Quantum Mechanics. Graduate Texts in Physics, 2017, , 1-92.	0.1	0
4	Elastic Scattering by a Conservative Potential. , 2016, , 23-135.		0
5	Considerations on Hund's first rule in a planar two-electron quantum dot. Physical Review A, 2013, 87, .	1.0	17
6	Elastic Scattering by a Conservative Potential. Lecture Notes in Physics, 2013, , 23-135.	0.3	2
7	Quantization rule for highly excited vibrational states of H. Molecular Physics, 2013, 111, 878-887.	0.8	7
8	Influence of retardation in the scattering of ultracold atoms by conducting nanowires. Physical Review A, 2012, 85, .	1.0	5
9	Near-threshold Feshbach resonances in interatomic collisions and spectra. Physical Review A, 2012, 85, .	1.0	6
10	Scattering of ultracold atoms by an absorbing nanowire. European Physical Journal D, 2011, 63, 33-39.	0.6	3
11	Addendum to s -wave scattering for deep potentials with attractive tails falling off faster than \hat{a}^{-1} . Physical Review A, 2011, 84, .	1.0	6
12	s -wave scattering for deep potentials with attractive tails falling off faster than \hat{a}^{-1} . Physical Review A, 2011, 84, .	1.0	14
13	Publisher's Note: Near-threshold quantization for potentials with inverse-cube tails [Phys. Rev. A 83, 022701 (2011)]. Physical Review A, 2011, 83, .	1.0	0
14	Near-threshold quantization for potentials with inverse-cube tails. Physical Review A, 2011, 83, .	1.0	12
15	Influence of higher-order dispersion coefficients on near-threshold bound and continuum states: Application to Sr288. Journal of Chemical Physics, 2011, 135, 214302.	1.2	5
16	s -wave scattering of a polarizable atom by an absorbing nanowire. Physical Review A, 2010, 81, .	1.0	5
17	Smoothness properties of the quantum-mechanical and WKB phase shifts for two-dimensional scattering. Physical Review A, 2009, 80, .	1.0	2
18	Comment on "Nonuniqueness of the Phase Shift in Central Scattering due to Monodromy". Physical Review Letters, 2009, 102, 188901; author reply 188902.	2.9	3

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19	Quantization function for potentials with $\hat{V}(x) = V_0 \exp(-\alpha x)$. Physical Review A, 2009, 80, .	1.0	16
20	Near-threshold quantization and scattering lengths. Physical Review A, 2008, 77, .	1.0	9
21	Quantization function for deep potentials with attractive tails. Physical Review A, 2008, 78, .	1.0	19
22	Near-threshold scattering, quantum reflection, and quantization in two dimensions. Physical Review A, 2008, 78, .	1.0	14
23	Jost functions and singular attractive potentials. Physical Review A, 2008, 77, .	1.0	5
24	Scattering of ultracold atoms by absorbing nanospheres. Physical Review A, 2007, 75, .	1.0	13
25	Influence of realistic atom wall potentials in quantum reflection traps. Physical Review A, 2007, 75, .	1.0	17
26	Two-dimensional quantum-reflection traps. Physical Review A, 2007, 75, .	1.0	2
27	Effective-range theory for quantum reflection amplitudes. Physical Review A, 2006, 74, .	1.0	35
28	Realistic model for a quantum reflection trap. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 230-235.	0.9	17
29	Phases of the amplitudes for transmission and near-side quantum reflection in attractive potential tails. Physical Review A, 2006, 74, .	1.0	2
30	Quantum reflection of metastable hydrogen atoms by a conducting surface. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 335, 43-49.	0.9	6
31	Dissociation of Feshbach molecules into different partial waves. Physical Review A, 2005, 72, .	1.0	20
32	Quantum Reflection Times for Attractive Potential Tails. Physical Review Letters, 2004, 92, 103202.	2.9	33
33	Quantum reflection times and space shifts for Casimir-van der Waals potential tails. Physical Review A, 2004, 70, .	1.0	52
34	Working with WKB waves far from the semiclassical limit. Physics Reports, 2004, 397, 359-449.	10.3	160
35	Quantum reflection shields ultracold atoms. Physics World, 2004, 17, 20-21.	0.0	2
36	Quenching of curve crossing probabilities by quantum reflection. Radiation Physics and Chemistry, 2003, 68, 211-214.	1.4	1

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37	Quantum reflection by coupled-channel potentials. Physical Review A, 2002, 66, .	1.0	3
38	Quantum reflection by Casimir-van der Waals potential tails. Physical Review A, 2002, 65, .	1.0	173
39	Threshold properties of attractive and repulsive $1/r^2$ potentials. Physical Review A, 2001, 63, .	1.0	36
40	Near-threshold quantization and level densities for potential wells with weak inverse-square tails. Physical Review A, 2001, 64, .	1.0	11
41	Near-threshold quantization and scattering for deep potentials with attractive tails. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 4033-4051.	0.6	34
42	Quantum-mechanical deflection function. Physical Review A, 1999, 60, 853-860.	1.0	9
43	Scattering by a Coulomb field in two dimensions. American Journal of Physics, 1998, 66, 274-274.	0.3	9
44	Theoretical Atomic Physics. Advanced Texts in Physics, 1998, , .	0.5	74
45	Atomic Spectra. Advanced Texts in Physics, 1998, , 121-197.	0.5	0
46	Field induced chaos and chaotic scattering. , 1997, , 97-123.		1
47	Atomare Spektren. , 1994, , 117-190.		0
48	Spezielle Themen. , 1994, , 249-299.		0
49	Paths to chaos. Physics World, 1992, 5, 32-37.	0.0	3
50	Atomic Spectra. , 1991, , 117-190.		2
51	Atomare Spektren. Springer-Lehrbuch, 1990, , 117-190.	0.1	0
52	Spezielle Themen. Springer-Lehrbuch, 1990, , 249-299.	0.1	0
53	The hydrogen atom in a uniform magnetic field - An example of chaos. Physics Reports, 1989, 183, 37-79.	10.3	622
54	Microscopic nucleus-nucleus potentials. Physics Reports, 1981, 74, 209-275.	10.3	116