Friedrich Huisken

List of Publications by Year
in descending order

66	3,285	172207	143772
papers	citations	29 h-index	57 g-index

68	68	68	2372
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Growth and Destruction of PAH Molecules in Reactions with Carbon Atoms. Astrophysical Journal, 2017, 836, 32.	1.6	14
2	Quantitative Structureâ€“Retention Relationships for Polycyclic Aromatic Hydrocarbons and their Oligoalkynylâ€Substituted Derivatives. ChemistryOpen, 2017, 6, 519-525.	0.9	3
3	Photoluminescence properties of silicon nanocrystals interacting with gold nanoparticles via exciton-plasmon coupling. Physical Review B, 2015, 91, .	1.1	8
4	Resonant two-photon ionization spectroscopy of Al atoms and dimers solvated in helium nanodroplets. Journal of Chemical Physics, 2015, 142, 084311.	1.2	11
5	Ultra-low-temperature reactions of C(3P) atoms with benzene molecules in helium droplets. Journal of Chemical Physics, 2014, 141, 214306.	1.2	16
6	Reactivity of Iron Atoms at Low Temperature. Journal of Physical Chemistry A, 2014, 118, 2612-2617.	1.1	11
7	Chemical reactions studied at ultra-low temperature in liquid helium clusters. , 2012, , .		0
8	EXPERIMENTAL AND THEORETICAL STUDY ON THE INFRARED SPECTROSCOPY OF ASTROPHYSICALLY RELEVANT POLYCYCLIC AROMATIC HYDROCARBON DERIVATIVES 2- AND 9-VINYLANTHRACENE. Astrophysical Journal, 2012, 755, 120.	1.6	11
9	Measurement of Vibrational Modes in SingleSiO2Nanoparticles Using a Tunable Metal Resonator with Optical Subwavelength Dimensions. Physical Review Letters, 2012, 109, 223902.	2.9	21
10	Radiative exciton recombination and defect luminescence observed in single silicon nanocrystals. Physical Review B, 2012, 86, .	1.1	55
11	Low-Temperature Chemistry in Helium Droplets: Reactions of Aluminum Atoms with O₂ and H₂O. Journal of Physical Chemistry A, 2011, 115, 7120-7126.	1.1	45
12	Dielectric effects on the optical properties of single silicon nanocrystals. Journal of Applied Physics, 2011, 110, .	1.1	17
13	Spectroscopy of Dibenzorubicene: Experimental Data for a Search in Interstellar Spectra. ChemPhysChem, 2011, 12, 2131-2137.	1.0	6
14	Dynamical effects of defect photoluminescence from single SiO2 and Si nanoparticles. Physics Procedia, 2011, 13, 28-32.	1.2	5
15	Fluorescence Imaging and Spectroscopy of Single Si and SiO[sub 2] Nanoparticles Using Confocal Microscopy. , 2010, , .		3
16	Photoluminescence Studies of Ge-Doped Silicon Nanocrystals and Silicon Oxide Nanoparticles. , 2010, , .		1
17	Silicon nanocrystals as matrix material for the desorption of biomoleculeâ€“water complexes. Chemical Physics Letters, 2010, 484, 100-103.	1.2	1
18	Ultra-Low-Temperature Reactions of Mg Atoms with O₂ Molecules in Helium Droplets. Journal of Physical Chemistry A, 2010, 114, 7292-7300.	1.1	33

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19	Oxidative Reactions of Silicon Atoms and Clusters at Ultralow Temperature in Helium Droplets. Journal of Physical Chemistry A, 2010, 114, 13045-13049.	1.1	23
20	Layer growth and connectivity calculations based on a stick-ball model: Application to silicon nanocrystals. Journal of Applied Physics, 2009, 106, 034308.	1.1	3
21	Confocal microscopy and spectroscopy of defect photoluminescence in single SiO 2 nanoparticles. Proceedings of SPIE, 2009, , .	0.8	4
22	Imaging and Spectroscopy of Defect Luminescence and Electronâ^'Phonon Coupling in Single SiO₂ Nanoparticles. Nano Letters, 2009, 9, 3239-3244.	4.5	48
23	UV/visible spectroscopy of matrix-isolated hexa-peri-hexabenzocoronene: Interacting electronic states and astrophysical context. Journal of Chemical Physics, 2009, 131, 204311.	1.2	28
24	Cavity Ring-Down Laser Absorption Spectroscopy of Jet-Cooled L-Tryptophan. Journal of Physical Chemistry A, 2009, 113, 8187-8194.	1.1	14
25	IR, Raman, and UV/Vis Spectra of Corannulene for Use in Possible Interstellar Identification. ChemPhysChem, 2008, 9, 2085-2091.	1.0	33
26	Electronâ^'Phonon Coupling and Localization of Excitons in Single Silicon Nanocrystals. Nano Letters, 2008, 8, 656-660.	4.5	90
27	Infrared Vibrational Predissociation Spectroscopy of Small Size-Selected Clusters. Advances in Chemical Physics, 2007, , 63-140.	0.3	32
28	Electronic spectroscopy of anthracene molecules trapped in helium nanodroplets. Chemical Physics Letters, 2005, 406, 386-392.	1.2	42
29	Strong visible photoluminescence from hollow silica nanoparticles. Nanotechnology, 2004, 15, L1-L4.	1.3	42
30	Origin of the multi-exponential decay dynamics in light-emitting silicon nanocrystals. Materials Research Society Symposia Proceedings, 2004, 832, 227.	0.1	2
31	Ultraviolet spectroscopy of pyrene in a supersonic jet and in liquid helium droplets. Journal of Chemical Physics, 2004, 120, 6028-6034.	1.2	35
32	Photoinduced Processes in Silicon Nanoparticles. Israel Journal of Chemistry, 2004, 44, 341-351.	1.0	8
33	Stacked Structure of the Glycine Dimer Is More Stable than the Cyclic Planar Geometry with Two Oâ^'HÂ·Â·Â·O Hydrogen Bonds:â€‰ Concerted Action of Empirical, High-Level Nonempirical ab Initio, and Experimental Studies. Journal of Physical Chemistry A, 2002, 106, 11540-11549.	1.1	29
34	Effect of passivation and aging on the photoluminescence of silicon nanocrystals. Applied Physics Letters, 2001, 79, 4028-4030.	1.5	99
35	Anharmonic treatment of the lowest-energy conformers of glycine: A theoretical study. Journal of Chemical Physics, 2000, 113, 4629-4635.	1.2	64
36	Infrared Spectroscopy of Size-Selected Water and Methanol Clusters. Chemical Reviews, 2000, 100, 3863-3890.	23.0	624

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37	Vibrational Spectroscopy of Methanol Molecules Adsorbed on Water Clusters. , 2000, , 301-307.		0
38	Matrix Spectroscopy in Molecular Beams: A Vibrational Study of Hydrogen-Bonded Complexes Embedded in Rare Gas Host Clusters. , 2000, , 229-247.		0
39	Gas-phase characterization of silicon nanoclusters produced by laser pyrolysis of silane. Physical Review B, 1999, 59, 2975-2985.	1.1	97
40	Structured films of light-emitting silicon nanoparticles produced by cluster beam deposition. Applied Physics Letters, 1999, 74, 3776-3778.	1.5	60
41	Vibrational spectroscopy of single methanol molecules attached to liquid water clusters. Chemical Physics, 1998, 239, 11-22.	0.9	36
42	Rotationally resolved IR spectroscopy of ammonia trapped in cold helium clusters. Journal of Chemical Physics, 1998, 109, 5914-5920.	1.2	58
43	CO2 laser spectroscopy of ammonia molecules and complexes adsorbed on large argon host clusters. Journal of Chemical Physics, 1997, 107, 1045-1056.	1.2	11
44	Vibrational spectra of isomeric hydrogen-bonded complexes of (HF) 2 H 2 O. , 1997, 3090, 180.		5
45	Vibrational Spectroscopy of Ethanol Molecules and Complexes Selectively Prepared in the Gas Phase and Adsorbed on Large Argon Clusters. Journal of Physical Chemistry A, 1997, 101, 7768-7777.	1.1	60
46	Experimental study of the Oâ€“H ring vibrations of the methanol trimer. Journal of Chemical Physics, 1996, 105, 8965-8968.	1.2	82
47	Infrared spectroscopy of small sizeâ€selected water clusters. Journal of Chemical Physics, 1996, 104, 17-25.	1.2	430
48	Intracluster reactions: The formation of hydrazine complexes from ammonia clusters following ArF excimer laser excitation. Journal of Chemical Physics, 1996, 104, 4865-4868.	1.2	5
49	Vibrational spectroscopy of small water complexes embedded in large liquid helium clusters. Journal of Chemical Physics, 1996, 105, 6128-6140.	1.2	144
50	Vibrational frequency shift of HF in helium clusters: Quantum simulation and experiment. Journal of Chemical Physics, 1996, 105, 8666-8683.	1.2	120
51	Vibrational frequency shifts and thermodynamic stabilities of (HF)n isomers (n=4â€“8). Chemical Physics Letters, 1995, 245, 319-325.	1.2	32
52	Vibrational spectroscopy of small (HF)nclusters (n=4â€“8) in sizeâ€selected molecular beams. Journal of Chemical Physics, 1995, 103, 5366-5377.	1.2	56
53	Enhanced production of unprotonated hydrogen-bonded cluster ions. International Journal of Mass Spectrometry and Ion Processes, 1993, 123, R1-R5.	1.9	12
54	The experimental determination of vibrational transition moments for HF dimer. Journal of Chemical Physics, 1993, 98, 5982-5984.	1.2	9

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55	Infrared spectroscopy of methanol clusters adsorbed on large Arxhost clusters. Journal of Chemical Physics, 1993, 98, 7680-7691.	1.2	57
56	Dissociation of small methanol clusters after excitation of the Oâ€“H stretch vibration at 2.7 Î¼. Journal of Chemical Physics, 1991, 95, 3924-3929.	1.2	151
57	On the structure of the methanolâ€”water dimer. Chemical Physics Letters, 1991, 180, 332-338.	1.2	44
58	Investigation of librational motions in gas-phase CO2 clusters by coherent Raman spectroscopy. Chemical Physics Letters, 1990, 169, 198-203.	1.2	18
59	Vibrational predissociation of size-selected SF6 clusters. Chemical Physics, 1989, 132, 351-362.	0.9	24
60	Infrared photodissociation of small methanol clusters. Chemical Physics Letters, 1988, 144, 391-395.	1.2	79
61	Infrared photodissociation of size-selected small ammonia clusters. Chemical Physics, 1988, 126, 215-228.	0.9	66
62	The HeNe interatomic potential from multiproperty fits and Hartreeâ€“Fock calculations. Journal of Chemical Physics, 1988, 89, 2866-2880.	1.2	27
63	CAMAC timeâ€ofâ€flight analyzer for molecular beam diagnostics. Review of Scientific Instruments, 1987, 58, 1038-1041.	0.6	27
64	Infrared photodissociation and clusterâ€specific detection of internally cold (C2H4)nvan der Waals complexes. Journal of Chemical Physics, 1987, 86, 106-113.	1.2	46
65	CARS spectroscopy in supersonic jets of ammonia monomers and clusters. Journal of Chemical Physics, 1987, 87, 2549-2559.	1.2	29
66	Coherent anti-stokes Raman spectroscopy of ammonia in supersonic molecular beams. Chemical Physics Letters, 1986, 123, 99-101.	1.2	17