

# Klaus von Haeften

## List of Publications by Year in descending order

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64  
papers

1,348  
citations

430874

18  
h-index

345221

36  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1011  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple ionization of atom clusters by intense soft X-rays from a free-electron laser. <i>Nature</i> , 2002, 420, 482-485.	27.8	433
2	Discrete Visible Luminescence of Helium Atoms and Molecules Desorbing from Helium Clusters: The Role of Electronic, Vibrational, and Rotational Energy Transfer. <i>Physical Review Letters</i> , 1997, 78, 4371-4374.	7.8	76
3	Probing phonon-rotation coupling in helium nanodroplets: Infrared spectroscopy of CO and its isotopomers. <i>Physical Review B</i> , 2006, 73, .	3.2	72
4	Bubble Formation and Decay in H <sub>3</sub> and H <sub>4</sub> Clusters. <i>Physical Review Letters</i> , 2002, 88, 233401.	7.8	52
5	The electronically excited states of helium clusters: an unusual example for the presence of Rydberg states in condensed matter. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, S373-S386.	1.5	48
6	In situ passivation and blue luminescence of silicon clusters using a cluster beam/H <sub>2</sub> O codeposition production method. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	45
7	An intense source for cold cluster ions of a specific composition. <i>Review of Scientific Instruments</i> , 2020, 91, 033315.	1.3	38
8	High-Resolution Spectroscopy of NO in Helium Droplets: A Prototype for Open Shell Molecular Interactions in a Quantum Solvent. <i>Physical Review Letters</i> , 2005, 95, 215301.	7.8	37
9	Observation of Atomiclike Electronic Excitations in Pure H <sub>3</sub> and H <sub>4</sub> Clusters Studied by Fluorescence Excitation Spectroscopy. <i>Physical Review Letters</i> , 2001, 87, 153403.	7.8	32
10	Size and Isotope Effects of Helium Clusters and Droplets: Identification of Surface and Bulk-Volume Excitations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7316-7326.	2.5	31
11	Electronic and geometric structure of doped rare-gas clusters: surface, site and size effects studied with luminescence spectroscopy. <i>European Physical Journal D</i> , 2006, 38, 323-336.	1.3	30
12	Electron mobility in liquid and supercritical helium measured using corona discharges: a new semi-empirical model for cavity formation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 719-724.	2.8	22
13	Structure and magnetic properties of Fe/Fe oxide clusters. <i>Journal of Nanoparticle Research</i> , 2008, 10, 193-199.	1.9	21
14	Fluorescence excitation spectroscopy of Xenon doped Neon clusters: size and site effects, and cluster melting. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 40, 22-24.	1.0	20
15	Spectroscopic investigation of liquid helium excited by a corona discharge: evidence for bubbles and excited satellites. <i>EPJ Applied Physics</i> , 2009, 47, 22821.	0.7	20
16	A novel approach towards the production of luminescent silicon nanoparticles: sputtering, gas aggregation and co-deposition with H <sub>2</sub> O. <i>European Physical Journal D</i> , 2009, 52, 11-14.	1.3	19
17	Probing the Structure and Dynamics of Molecular Clusters Using Rotational Wave Packets. <i>Physical Review Letters</i> , 2014, 113, 043004.	7.8	19
18	A time resolved VUV fluorescence study of hydrogen clusters: evidence of a liquid phase. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2000, 106, 199-206.	1.7	18

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19	Photochemistry in rare gas clusters. <i>European Physical Journal D</i> , 1999, 9, 5-9.	1.3	15
20	Dissociation and suppressed ionization of H <sub>2</sub> O molecules embedded in He clusters: The role of the cluster as a cage. <i>Journal of Chemical Physics</i> , 2001, 115, 10248.	3.0	15
21	Evolution of the charge localization process in xenon cluster ions: From tetramer to dimer cores as a function of cluster size. <i>Journal of Chemical Physics</i> , 2002, 116, 7558-7563.	3.0	15
22	Character of tightly bound excitons in small argon clusters: Insights from size-dependent energy shifts. <i>Physical Review B</i> , 2002, 66, .	3.2	15
23	A Macroscopic Approach to Determine Electron Mobilities in Low-Density Helium. <i>Journal of Low Temperature Physics</i> , 2011, 162, 702-709.	1.4	15
24	Probing collective excitations in helium nanodroplets: Observation of phonon wings in the infrared spectrum of methane. <i>Journal of Chemical Physics</i> , 2007, 126, 124318.	3.0	14
25	Luminescence from Liquid Helium Excited by Corona Discharges. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2009, 16, 742-750.	2.9	14
26	Modelling the mobility of positive ion clusters in normal liquid helium over large pressure ranges. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18535-18540.	2.8	14
27	Energy relaxation and quenching processes of doped rare-gas clusters with a shell-like geometric structure. <i>Journal of Chemical Physics</i> , 2003, 118, 3043-3051.	3.0	13
28	A quantum chemical approach towards the electronically excited states of helium clusters. <i>European Physical Journal D</i> , 2007, 43, 121-124.	1.3	12
29	Lineshape of rotational spectrum of CO in He <sub>4</sub> droplets. <i>Journal of Chemical Physics</i> , 2008, 128, 094303.	3.0	12
30	Photochemical processes in doped argon-neon core-shell clusters: The effect of cage size on the dissociation of molecular oxygen. <i>Journal of Chemical Physics</i> , 2008, 128, 014502.	3.0	12
31	Size-selecting effect of water on fluorescent silicon clusters. <i>Nanotechnology</i> , 2011, 22, 315711.	2.6	12
32	Photochemistry with fast sample renewal using cluster beams: formation of rare-gas halides in charge-transfer reactions in NF <sub>3</sub> -doped rare-gas clusters. <i>Chemical Physics Letters</i> , 1999, 305, 327-333.	2.6	11
33	Formation of coherent rotational wavepackets in small molecule-helium clusters using impulsive alignment. <i>Faraday Discussions</i> , 2014, 171, 195-218.	3.2	11
34	ELECTRONIC ENERGY DISSIPATION PROCESSES IN DOPED RARE GAS CLUSTERS WITH A SHELL-LIKE STRUCTURE. <i>Surface Review and Letters</i> , 2002, 09, 111-116.	1.1	10
35	Novel gas-stabilized iron clusters: synthesis, structure and magnetic behaviour. <i>Nanotechnology</i> , 2008, 19, 505602.	2.6	10
36	Formation of Positively Charged Liquid Helium Clusters in Supercritical Helium and their Solidification upon Compression. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3036-3040.	4.6	10

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37	Theoretical modeling of electron mobility in superfluid 4He. Journal of Chemical Physics, 2016, 145, 044105.	3.0	10
38	Generation of the simplest rotational wave packet in a diatomic molecule: Tracing a two-level superposition in the time domain. Physical Review A, 2012, 85, .	2.5	9
39	Excimers in the Lowest Rotational Quantum State in Liquid Helium. Journal of Physical Chemistry Letters, 2016, 7, 4666-4670.	4.6	8
40	A thermodynamic model to predict electron mobility in superfluid helium. Physical Chemistry Chemical Physics, 2017, 19, 15821-15832.	2.8	8
41	Nanoscale stripe arrays templated on Moiré patterns in graphite. Surface Science, 2016, 646, 108-113.	1.9	7
42	Silver nanoparticles by atomic vapour deposition on an alcohol micro-jet. Nanoscale Advances, 2019, 1, 4041-4051.	4.6	7
43	Electronic structure and excited state dynamics of clusters: What can we learn from experiments with synchrotron radiation?. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 185-191.	1.7	6
44	Measurement of cluster-cluster interaction in liquids by deposition and AFM of silicon clusters onto HOPG surfaces. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	5
45	Towards biosensing via fluorescent surface sites of nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	4
46	Line broadening of excimers bound to the surface of 4He clusters investigated by comparison with corona discharge excitation spectra. European Physical Journal D, 2013, 67, 1.	1.3	4
47	Fluorescence of silicon nanoparticles suspended in water: reactive co-deposition for the control of surface properties of clusters. , 2010, , .		3
48	Atomic fluorescence emitted from a corona discharge in helium above and below saturated vapour pressure. European Physical Journal D, 2018, 72, 1.	1.3	3
49	Nonmonotonic distribution of population of the $a^3\Sigma_u^+$ triplet state rotational levels in corona discharge in cryogenic helium gas. High Temperature, 2017, 55, 326-333.	1.0	2
50	AFM induced self-assembling and self-healing mechanism of silicon oxide nanoparticle linear array domains templated on Moiré superlattice patterns on HOPG. Surface Science, 2019, 679, 230-239.	1.9	2
51	Atomic and molecular spectra of normal liquid 4He excited by corona discharges. Low Temperature Physics, 2011, 37, 378-383.	0.6	1
52	A new model for the density-dependence of positive ion mobility in liquid helium. , 2011, , .		1
53	Shape of atomic lines emitted by cryoplasma in Helium. Journal of Physics: Conference Series, 2012, 397, 012066.	0.4	1
54	Excited atoms in cavities of liquid He I: long-range interatomic repulsion and broadening of atomic lines. EPJ Applied Physics, 2013, 61, 24302.	0.7	1

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55	Production of Fe clusters by collisions of metal vapour with supersonic argon beams. European Physical Journal D, 2013, 67, 1.	1.3	1
56	Chemical reaction dynamics I and electron dynamics in molecules: general discussion. Faraday Discussions, 2014, 171, 145-168.	3.2	1
57	Fluorescence excitation spectroscopy of Xenon doped Neon clusters: size and site effects, and cluster melting. , 1997, , 22-24.		1
58	Hundert Jahre drahtlose Telegrafie. Physik Journal, 1995, 51, 1183-1183.	0.1	0
59	Spectra emitted by helium excited by corona discharge. , 2011, , .		0
60	Molecular and atomic spectra emitted by normal liquid and supercritical $\text{He}$ excited by corona discharge. , 2014, , .		0
61	Mobility of positively charged ions in supercritical helium. , 2014, , .		0
62	Chemical reaction dynamics II and Correlated systems, surfaces and catalysis: general discussion. Faraday Discussions, 2014, 171, 323-356.	3.2	0
63	Advanced spectral diagnostics to study electrical discharges in dense fluids. , 2017, , .		0
64	Photochemistry in rare gas clusters. , 1999, , 5-9.		0