

Alexander Kaiser

List of Publications by Year in descending order

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46
papers

786
citations

623574

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docs citations

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times ranked

995
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold physics and chemistry: Collisions, ionization and reactions inside helium nanodroplets close to zero K. <i>Physics Reports</i> , 2018, 751, 1-90.	10.3	113
2	Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. <i>Nuclear Fusion</i> , 2017, 57, 116041.	1.6	75
3	Ethylene glycol revisited: Molecular dynamics simulations and visualization of the liquid and its hydrogen-bond network. <i>Journal of Molecular Liquids</i> , 2014, 189, 20-29.	2.3	59
4	Adsorption of hydrogen on neutral and charged fullerene: Experiment and theory. <i>Journal of Chemical Physics</i> , 2013, 138, 074311.	1.2	56
5	On enhanced hydrogen adsorption on alkali (cesium) doped C ₆₀ and effects of the quantum nature of the H ₂ molecule on physisorption energies. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3078-3086.	3.8	33
6	Adsorption of Polar and Nonpolar Molecules on Isolated Cationic C ₆₀ , C ₇₀ , and Their Aggregates. <i>ChemPlusChem</i> , 2013, 78, 910-920.	1.3	29
7	Hydrogen Bonding and Dielectric Spectra of Ethylene Glycol-Water Mixtures from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10515-10523.	1.2	27
8	Isomeric Broadening of C ₆₀ ⁺ Electronic Excitation in Helium Droplets: Experiments Meet Theory. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1237-1242.	2.1	26
9	Communication: Dopant-induced solvation of alkalis in liquid helium nanodroplets. <i>Journal of Chemical Physics</i> , 2016, 145, 181101.	1.2	25
10	Methane Adsorption on Graphitic Nanostructures: Every Molecule Counts. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2598-2603.	2.1	24
11	Methane Adsorption on Aggregates of Fullerenes: Site-Selective Storage Capacities and Adsorption Energies. <i>ChemSusChem</i> , 2013, 6, 1235-1244.	3.6	21
12	Experimental evidence for the influence of charge on the adsorption capacity of carbon dioxide on charged fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3048-3055.	1.3	19
13	Vibrational Predissociation Spectroscopy of Cold Protonated Tryptophan with Different Messenger Tags. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8037-8046.	1.1	17
14	Surface binding energies of beryllium/tungsten alloys. <i>Journal of Nuclear Materials</i> , 2016, 472, 76-81.	1.3	16
15	Electron impact ionization cross sections of beryllium and beryllium hydrides. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	15
16	s -wave scattering for deep potentials with attractive tails falling off faster than r^{-1} . <i>Physical Review A</i> , 2011, 84, .	1.0	14
17	Ordered phases of ethylene adsorbed on charged fullerenes and their aggregates. <i>Carbon</i> , 2014, 69, 206-220.	5.4	14
18	Building Carbon Bridges on and between Fullerenes in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1440-1445.	2.1	14

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19	Ion formation upon electron collisions with valine embedded in helium nanodroplets. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	13
20	Electron impact ionization cross sections of beryllium-tungsten clusters. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	11
21	Cs ⁺ Solvated in Hydrogenâ€”Evidence for Several Distinct Solvation Shells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10887-10892.	1.5	11
22	Iterative training set refinement enables reactive molecular dynamics via machine learned forces. <i>RSC Advances</i> , 2020, 10, 4293-4299.	1.7	11
23	Ion-neutral reaction of the $C_2H_2^+$ cation with C_2H_2 : An experimental and theoretical study. <i>Molecular Astrophysics</i> , 2016, 2, 1-11.	1.7	10
24	Spin filter properties of armchair graphene nanoribbons with substitutional Fe atoms. <i>Molecular Physics</i> , 2017, 115, 2231-2241.	0.8	10
25	Magic Numbers for Packing Adamantane in Helium Droplets: Cluster Cations, Dications, and Trications. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10767-10772.	1.5	10
26	Highly Stable $[C_{60}AuC_{60}]^+$ Dumbbells. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2703-2706.	2.1	10
27	Sputtering of the beryllium tungsten alloy Be_2W by deuterium atoms: molecular dynamics simulations using machine learned forces. <i>Nuclear Fusion</i> , 2021, 61, 016031.	1.6	10
28	Uptake and accommodation of water clusters by adamantane clusters in helium droplets: interplay between magic number clusters. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21573-21579.	1.3	9
29	Electron-Induced Chemistry of Cobalt Tricarbonyl Nitrosyl ($Co(CO)_3NO$) in Liquid Helium Nanodroplets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20917-20922.	1.5	8
30	Performance of DFT functionals for properties of small molecules containing beryllium, tungsten and hydrogen. <i>Nuclear Materials and Energy</i> , 2020, 22, 100731.	0.6	8
31	Quantization rule for highly excited vibrational states of H. <i>Molecular Physics</i> , 2013, 111, 878-887.	0.8	7
32	Addendum to s -wave scattering for deep potentials with attractive tails falling off faster than \hat{a}^{-1} . <i>Physical Review A</i> , 2011, 84, .	1.0	6
33	Decorating $(C_{60})_n$, $n=1-3$, with CO_2 at low temperatures: Sterically enhanced physisorption. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 271-274.	0.7	6
34	Aggregates of PCBM molecules: A computational study. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 225-231.	0.7	6
35	Vacancy patterning and patterning vacancies: controlled self-assembly of fullerenes on metal surfaces. <i>Nanoscale</i> , 2014, 6, 10850-10858.	2.8	6
36	Energetics and reactivity of small beryllium deuterides. <i>Journal of Molecular Modeling</i> , 2017, 23, 203.	0.8	6

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37	Beryllium, tungsten and their alloys Be ₂ W and Be ₁₂ W: Surface defect energetics from density functional theory calculations. Nuclear Materials and Energy, 2018, 16, 149-157.	0.6	6
38	Influence of higher-order dispersion coefficients on near-threshold bound and continuum states: Application to Sr ²⁸⁸ . Journal of Chemical Physics, 2011, 135, 214302.	1.2	5
39	Dynamics of proton transfer from ArH ⁺ to CO. International Journal of Mass Spectrometry, 2019, 438, 175-185.	0.7	5
40	Modelling the sputtering and reflection from a beryllium surface: atomistic analysis. Nuclear Fusion, 2021, 61, 086013.	1.6	5
41	A neural network interface for DL_POLY and its application to liquid water. Molecular Simulation, 2021, 47, 113-118.	0.9	4
42	Charge dependent adsorption of carbon dioxide on fullerenes. Journal of Physics: Conference Series, 2015, 635, 072048.	0.3	2
43	Chiral recognition via abundances of mixed chiral clusters. International Journal of Mass Spectrometry, 2019, 446, 116215.	0.7	2
44	Clusters of betaine with positive and negative ions: Evidence for the betaine tetramer being magic. Journal of Chemical Physics, 2019, 151, 184303.	1.2	1
45	Time-Dependent Perspective for the Intramolecular Couplings of the N-H Stretches of Protonated Tryptophan. Journal of Physical Chemistry A, 2020, 124, 4062-4067.	1.1	1
46	Combinations of density functionals for accurate molecular properties of Be/W/H compounds. Nuclear Materials and Energy, 2021, 28, 101026.	0.6	0