

Alexander Kaiser

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

597
citations

13
h-index

22
g-index

46
ext. papers

699
ext. citations

4
avg. IF

3.7
L-index

#	Paper	IF	Citations
46	Sputtering of the beryllium tungsten alloy Be ₂ W by deuterium atoms: molecular dynamics simulations using machine learned forces. <i>Nuclear Fusion</i> , 2021 , 61, 016031	3.3	4
45	Modelling the sputtering and reflection from a beryllium surface: atomistic analysis. <i>Nuclear Fusion</i> , 2021 , 61, 086013	3.3	1
44	A neural network interface for DL_POLY and its application to liquid water. <i>Molecular Simulation</i> , 2021 , 47, 113-118	2	4
43	Combinations of density functionals for accurate molecular properties of Be/W/H compounds. <i>Nuclear Materials and Energy</i> , 2021 , 28, 101026	2.1	
42	Iterative training set refinement enables reactive molecular dynamics machine learned forces.. <i>RSC Advances</i> , 2020 , 10, 4293-4299	3.7	6
41	Performance of DFT functionals for properties of small molecules containing beryllium, tungsten and hydrogen. <i>Nuclear Materials and Energy</i> , 2020 , 22, 100731	2.1	3
40	Time-Dependent Perspective for the Intramolecular Couplings of the N-H Stretches of Protonated Tryptophan. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 4062-4067	2.8	1
39	Chiral recognition via abundances of mixed chiral clusters. <i>International Journal of Mass Spectrometry</i> , 2019 , 446, 116215	1.9	1
38	Clusters of betaine with positive and negative ions: Evidence for the betaine tetramer being magic. <i>Journal of Chemical Physics</i> , 2019 , 151, 184303	3.9	
37	Dynamics of proton transfer from ArH ⁺ to CO. <i>International Journal of Mass Spectrometry</i> , 2019 , 438, 175-185	1.9	4
36	Isomeric Broadening of C Electronic Excitation in Helium Droplets: Experiments Meet Theory. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1237-1242	6.4	23
35	Highly Stable [CAuC] Dumbbells. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2703-2706	6.4	6
34	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	3.6	5
33	Beryllium, tungsten and their alloys Be ₂ W and Be ₁₂ W: Surface defect energetics from density functional theory calculations. <i>Nuclear Materials and Energy</i> , 2018 , 16, 149-157	2.1	2
32	Vibrational Predissociation Spectroscopy of Cold Protonated Tryptophan with Different Messenger Tags. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 8037-8046	2.8	12
31	Cold physics and chemistry: Collisions, ionization and reactions inside helium nanodroplets close to zero K. <i>Physics Reports</i> , 2018 , 751, 1-90	27.7	83
30	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	6.7	27

29	Spin filter properties of armchair graphene nanoribbons with substitutional Fe atoms. <i>Molecular Physics</i> , 2017 , 115, 2231-2241	1.7	8
28	Energetics and reactivity of small beryllium deuterides. <i>Journal of Molecular Modeling</i> , 2017 , 23, 203	2	4
27	Cs ⁺ Solvated in Hydrogen Evidence for Several Distinct Solvation Shells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10887-10892	3.8	10
26	Magic Numbers for Packing Adamantane in Helium Droplets: Cluster Cations, Dications, and Trications. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10767-10772	3.8	7
25	Plasma Wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification. <i>Nuclear Fusion</i> , 2017 , 57, 116041	3.3	50
24	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	3.4	16
23	Ion formation upon electron collisions with valine embedded in helium nanodroplets. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	11
22	Surface binding energies of beryllium/tungsten alloys. <i>Journal of Nuclear Materials</i> , 2016 , 472, 76-81	3.3	10
21	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, 3048-55	3.6	10
20	Electron impact ionization cross sections of beryllium-tungsten clusters. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	10
19	Communication: Dopant-induced solvation of alkalis in liquid helium nanodroplets. <i>Journal of Chemical Physics</i> , 2016 , 145, 181101	3.9	21
18	Ion-neutral reaction of the C ₂ H ₂ N ⁺ cation with C ₂ H ₂ : An experimental and theoretical study. <i>Molecular Astrophysics</i> , 2016 , 2, 1-11	1.7	9
17	Building Carbon Bridges on and between Fullerenes in Helium Nanodroplets. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1440-5	6.4	14
16	Electron-Induced Chemistry of Cobalt Tricarbonyl Nitrosyl (Co(CO)NO) in Liquid Helium Nanodroplets. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20917-20922	3.8	6
15	Charge dependent adsorption of carbon dioxide on fullerenes. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 072048	0.3	1
14	Vacancy patterning and patterning vacancies: controlled self-assembly of fullerenes on metal surfaces. <i>Nanoscale</i> , 2014 , 6, 10850-8	7.7	5
13	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	6	49
12	Ordered phases of ethylene adsorbed on charged fullerenes and their aggregates. <i>Carbon</i> , 2014 , 69, 206-220	10.4	12

11	Aggregates of PCBM molecules: A computational study. <i>International Journal of Mass Spectrometry</i> , 2014 , 365-366, 225-231	1.9	5
10	Adsorption of Polar and Nonpolar Molecules on Isolated Cationic C ₆₀ , C ₇₀ , and Their Aggregates. <i>ChemPlusChem</i> , 2013 , 78, 910-920	2.8	27
9	Decorating (C ₆₀) _n -3, with CO at low temperatures: Sterically enhanced physisorption. <i>International Journal of Mass Spectrometry</i> , 2013 , 354-355, 271-274	1.9	6
8	Electron impact ionization cross sections of beryllium and beryllium hydrides. <i>European Physical Journal D</i> , 2013 , 67, 1	1.3	14
7	Methane adsorption on aggregates of fullerenes: site-selective storage capacities and adsorption energies. <i>ChemSusChem</i> , 2013 , 6, 1235-44	8.3	18
6	Quantization rule for highly excited vibrational states of H. <i>Molecular Physics</i> , 2013 , 111, 878-887	1.7	4
5	Adsorption of hydrogen on neutral and charged fullerene: experiment and theory. <i>Journal of Chemical Physics</i> , 2013 , 138, 074311	3.9	49
4	Methane Adsorption on Graphitic Nanostructures: Every Molecule Counts. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2598-2603	6.4	21
3	Addendum to ℓ -wave scattering for deep potentials with attractive tails falling off faster than $1/r^2$. <i>Physical Review A</i> , 2011 , 84,	2.6	4
2	s -wave scattering for deep potentials with attractive tails falling off faster than $1/r^2$. <i>Physical Review A</i> , 2011 , 84,	2.6	12
1	Influence of higher-order dispersion coefficients on near-threshold bound and continuum states: application to 88Sr2. <i>Journal of Chemical Physics</i> , 2011 , 135, 214302	3.9	2