Michael Probst

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Representation of Intermolecular Potential Functions by Neural Networks. Journal of Physical Chemistry A, 1998, 102, 4596-4605.	2.5	105
2	Mass Spectrometric Investigation of Anions Formed upon Free Electron Attachment to Nucleobase Molecules and Clusters Embedded in Superfluid Helium Droplets. Physical Review Letters, 2006, 97, 043201.	7.8	94
3	Coordinatively Unsaturated Metal–Organic Frameworks M ₃ (btc) ₂ (M = Cr, Fe,) Tj E Inorganic Chemistry, 2017, 56, 14005-14012.	ETQq1 1 0.7 4.0	784314 rgBT 77
4	Adsorption and Tautomerization Reaction of Acetone on Acidic Zeolites: The Confinement Effect in Different Types of Zeolites. Journal of Physical Chemistry C, 2010, 114, 15061-15067.	3.1	62
5	Ethylene glycol revisited: Molecular dynamics simulations and visualization of the liquid and its hydrogen-bond network. Journal of Molecular Liquids, 2014, 189, 20-29.	4.9	59
6	On the performance of molecular polarization methods. II. Water and carbon tetrachloride close to a cation. Journal of Chemical Physics, 2005, 123, 164505.	3.0	58
7	Computational study of hydrated phosphate anions. Journal of Molecular Liquids, 2005, 118, 15-25.	4.9	39
8	Ethylene Epoxidation with Nitrous Oxide over Fe–BTC Metal–Organic Frameworks: A DFT Study. ChemPhysChem, 2016, 17, 3416-3422.	2.1	39
9	On the performance of molecular polarization methods. I. Water and carbon tetrachloride close to a point charge. Journal of Chemical Physics, 2004, 121, 7362-7378.	3.0	38
10	X-ray and neutron diffraction studies and molecular dynamics simulations of liquid DMSO. Physical Chemistry Chemical Physics, 2004, 6, 2136-2144.	2.8	34
11	Structure and adsorption of a basic probe molecule on H-ZSM-5 nanostructured zeolite: An embedded ONIOM study. Journal of Molecular Graphics and Modelling, 2006, 25, 219-225.	2.4	33
12	Quantum chemical study of the interaction of nitrate anion with water. International Journal of Quantum Chemistry, 1998, 70, 877-886.	2.0	29
13	A DFT Study of Tungsten–Methylidene Formation on a W/ZSMâ€5 Zeolite: The Metathesis Active Site. ChemPhysChem, 2015, 16, 3334-3339.	2.1	28
14	Polarization damping in halide–water dimers. Chemical Physics Letters, 2006, 420, 267-270.	2.6	27
15	Hydrogen Bonding and Dielectric Spectra of Ethylene Glycol–Water Mixtures from Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2016, 120, 10515-10523.	2.6	27
16	Density Functional Theory Study of the Dehydrogenation of Ethanol to Acetaldehyde over the Au-Exchanged ZSM-5 Zeolite: Effect of Surface Oxygen. Journal of Physical Chemistry C, 2014, 118, 18564-18572.	3.1	22
17	Molecular dynamics study of an aqueous potassium nitrate solution. International Journal of Quantum Chemistry, 1999, 75, 805-814.	2.0	21
18	Data on erosion and hydrogen fuel retention in Beryllium plasma-facing materials. Nuclear Materials and Energy, 2021, 27, 100994.	1.3	21

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19	Pyridine adsorbed on H-Faujasite zeolite: Electrostatic effect of the infinite crystal lattice calculated from a point charge representation. International Journal of Quantum Chemistry, 2005, 105, 898-905.	2.0	20
20	Total and partial electron impact ionization cross sections of fusion-relevant diatomic molecules. Journal of Chemical Physics, 2019, 150, 024306.	3.0	20
21	Structural investigation of lithium iodide in liquid dimethyl sulfoxide: Comparison between experiment and computation. Chemical Physics, 2006, 321, 100-110.	1.9	19
22	Chapter 3 The Semiempirical Deutsch–MÃ✿ Formalism. Advances in Atomic, Molecular and Optical Physics, 2009, 57, 87-155.	2.3	19
23	Furfural to Furfuryl Alcohol: Computational Study of the Hydrogen Transfer on Lewis Acidic BEA Zeolites and Effects of Cation Exchange and Tetravalent Metal Substitution. Inorganic Chemistry, 2018, 57, 6599-6605.	4.0	19
24	Quantum chemical study of the molecular dynamics of hydrated Li+ And Be2+ cations. International Journal of Quantum Chemistry, 1997, 65, 803-816.	2.0	18
25	Molecular dynamics simulation of lithium iodide in liquid dimethylsulfoxide. Chemical Physics Letters, 2005, 401, 217-222.	2.6	17
26	Carbonic acid revisited: Vibrational spectra, energetics and the possibility of detecting an elusive molecule. AIP Advances, 2012, 2, .	1.3	17
27	Thermal stabilization of thin gold nanowires by surfactant-coating: a molecular dynamics study. Nanoscale, 2012, 4, 585-590.	5.6	16
28	Surface binding energies of beryllium/tungsten alloys. Journal of Nuclear Materials, 2016, 472, 76-81.	2.7	16
29	Electron impact ionization cross sections of beryllium and beryllium hydrides. European Physical Journal D, 2013, 67, 1.	1.3	15
30	Ordered phases of ethylene adsorbed on charged fullerenes and their aggregates. Carbon, 2014, 69, 206-220.	10.3	14
31	Hydration of Carbon Dioxide in Copper-Alkoxide Functionalized Metal–Organic Frameworks: A DFT Study. Journal of Physical Chemistry C, 2015, 119, 3564-3571.	3.1	13
32	Comparison of methods for point-charge representation of electrostatic fields. International Journal of Quantum Chemistry, 2004, 96, 17-22.	2.0	12
33	Ethane C–H bond activation on the Fe(<scp>iv</scp>)–oxo species in a Zn-based cluster of metal–organic frameworks: a density functional theory study. Physical Chemistry Chemical Physics, 2017, 19, 3782-3791.	2.8	12
34	Electron impact ionization cross sections of beryllium-tungsten clusters. European Physical Journal D, 2016, 70, 1.	1.3	11
35	Iterative training set refinement enables reactive molecular dynamics via machine learned forces. RSC Advances, 2020, 10, 4293-4299.	3.6	11
36	Spin filter properties of armchair graphene nanoribbons with substitutional Fe atoms. Molecular Physics, 2017, 115, 2231-2241.	1.7	10

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37	Sputtering of the beryllium tungsten alloy Be ₂ W by deuterium atoms: molecular dynamics simulations using machine learned forces. Nuclear Fusion, 2021, 61, 016031.	3.5	10
38	Understanding the interactions between lithium polysulfides and anchoring materials in advanced lithium–sulfur batteries using density functional theory. Physical Chemistry Chemical Physics, 2022, 24, 8604-8623.	2.8	10
39	Medium and Interfacial Effects in the Multistep Reduction of Binuclear Complexes with Robson-Type Ligand. Inorganic Chemistry, 2008, 47, 6659-6673.	4.0	9
40	Interfacial Bond-Breaking Electron Transfer in Mixed Water–Ethylene Glycol Solutions: Reorganization Energy and Interplay between Different Solvent Modes. Journal of Physical Chemistry B, 2013, 117, 8793-8801.	2.6	9
41	Dehydrogenation of ethanol to acetaldehyde with nitrous oxide over the metal–organic framework NU-1000: a density functional theory study. Physical Chemistry Chemical Physics, 2020, 22, 13622-13628.	2.8	9
42	Permeation of low-Z atoms through carbon sheets: Density functional theory study on energy barriers and deformation effects. AIP Advances, 2013, 3, 122104.	1.3	8
43	Electron impact ionisation cross sections of iron oxides. European Physical Journal D, 2017, 71, 1.	1.3	8
44	Correlation between intramolecular bond distances and stretching vibrations for polar molecules: An ab initio study. International Journal of Quantum Chemistry, 1997, 63, 537-546.	2.0	7
45	Electron impact ionisation cross sections of iron hydrogen clusters. European Physical Journal D, 2016, 70, 1.	1.3	7
46	Confinement Effect on Heterogeneous Electron Transfer in Aqueous Solutions inside Conducting Nanotubes. ChemElectroChem, 2021, 8, 563-569.	3.4	7
47	Ab initio study of the interaction of dimethylsulfoxide with the ions Li+ and lâ^'. International Journal of Mass Spectrometry, 2003, 223-224, 263-270.	1.5	6
48	On the performance of molecular polarization methods close to a point charge. Computer Physics Communications, 2005, 169, 331-334.	7.5	6
49	Vacancy patterning and patterning vacancies: controlled self-assembly of fullerenes on metal surfaces. Nanoscale, 2014, 6, 10850-10858.	5.6	6
50	Energetics and reactivity of small beryllium deuterides. Journal of Molecular Modeling, 2017, 23, 203.	1.8	6
51	Electron impact ionisation cross sections of <i>cis</i> and <i>trans</i> -diamminedichloridoplatinum(II) and its hydrolysis products. Molecular Physics, 2019, 117, 2233-2240.	1.7	6
52	Insights into glyphosate adsorption on Lewis acidic zeolites from theoretical modelling. Microporous and Mesoporous Materials, 2022, , 112083.	4.4	6
53	Phenol Tautomerization Catalyzed by Acidâ€Base Pairs in Lewis Acidic Beta Zeolites: A Computational Study. ChemPhysChem, 2019, 20, 2122-2126.	2.1	5
54	Modelling the sputtering and reflection from a beryllium surface: atomistic analysis. Nuclear Fusion, 2021, 61, 086013.	3.5	5

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55	Modeling the intrusion of molecules into graphite: Origin and shape of the barriers. International Journal of Mass Spectrometry, 2014, 365-366, 248-254.	1.5	4
56	A neural network interface for DL_POLY and its application to liquid water. Molecular Simulation, 2021, 47, 113-118.	2.0	4
57	Ligand and solvent effects on the kinetics of the electrochemical reduction of Ni(II) complexes: Experiment and quantum chemical modeling. Electrochimica Acta, 2021, 395, 139138.	5.2	4
58	Numerical investigation of the elastic scattering of hydrogen (isotopes) and helium at graphite (0001) surfaces at beam energies of 1 to 4ÂeV using a split-step Fourier method. Theoretical Chemistry Accounts, 2013, 132, 1337.	1.4	3
59	Potential energy surface and molecular dynamics simulation of gold(I) in liquid nitromethane. Journal of Molecular Liquids, 2009, 147, 64-70.	4.9	2
60	Au(CN)2(CH3NO2)n cluster anions: Energetics and geometrical features. Journal of Molecular Liquids, 2011, 159, 38-41.	4.9	2
61	Electronic structure and reactivity of tirapazamine as a radiosensitizer. Journal of Molecular Modeling, 2021, 27, 177.	1.8	2
62	Sputtering and reflection from a beryllium surface: effects of hydrogen isotope mass, impact position and surface binding energy. Nuclear Fusion, 2022, 62, 066024.	3.5	2
63	CALCULATION OF PROCESSES RELEVANT TO REACTIONS BETWEEN NUCLEIC ACIDS AND FREE ELECTRONS. Chemical Engineering Communications, 2008, 195, 1371-1381.	2.6	1
64	Halfâ€Metallic Devices from Armchair Graphene Nanoribbons with Transition Metal Guest Atoms. ChemistrySelect, 2021, 6, 347-358.	1.5	1
65	Inside Cover: Oxidative Dehydrogenation of Propane over a VO2-Exchanged MCM-22 Zeolite: A DFT Study (ChemPhysChem 16/2010). ChemPhysChem, 2010, 11, 3370-3370.	2.1	0
66	A gold cyano complex in nitromethane: MD simulation and X-ray diffraction. Chemical Physics Letters, 2012, 539-540, 24-29.	2.6	0
67	Electron-impact ionization cross sections of small molecules containing Fe and Cr ^{â^—} . Journal of Physics Condensed Matter, 2022, 34, 374001.	1.8	0