

Sylvain Picaud

List of Publications by Year in descending order

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times ranked

2188
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#	ARTICLE	IF	CITATIONS
1	Water monolayers on MgO(100): structural investigations by LEED experiments, tensor LEED dynamical analysis and potential calculations. <i>Surface Science</i> , 1998, 409, 101-116.	1.9	88
2	Determination of the Adsorption Isotherm of Methanol on the Surface of Ice. An Experimental and Grand Canonical Monte Carlo Simulation Study. <i>Journal of the American Chemical Society</i> , 2006, 128, 15300-15309.	13.7	72
3	CLATHRATION OF VOLATILES IN THE SOLAR NEBULA AND IMPLICATIONS FOR THE ORIGIN OF TITAN'S ATMOSPHERE. <i>Astrophysical Journal</i> , 2009, 691, 1780-1786.	4.5	70
4	Possible evidence for a methane source in Enceladus' ocean. <i>Geophysical Research Letters</i> , 2015, 42, 1334-1339.	4.0	65
5	Volatile inventories in clathrate hydrates formed in the primordial nebula. <i>Faraday Discussions</i> , 2010, 147, 509.	3.2	62
6	Methane Clathrates in the Solar System. <i>Astrobiology</i> , 2015, 15, 308-326.	3.0	62
7	A molecular dynamics study of the structure of water layers adsorbed on MgO(100). <i>Journal of Chemical Physics</i> , 1998, 109, 3245-3254.	3.0	59
8	Adsorption of acetone molecules on proton ordered ice. A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2000, 112, 9898-9908.	3.0	54
9	Molecular dynamics simulations of polarizable nanotubes interacting with water. <i>Physical Review B</i> , 2005, 71, .	3.2	52
10	Adsorption Isotherm of Formic Acid on the Surface of Ice, as Seen from Experiments and Grand Canonical Monte Carlo Simulation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8976-8987.	3.1	51
11	Ab initio study of the water adsorption on hydroxylated graphite surfaces. <i>Chemical Physics Letters</i> , 2005, 406, 430-435.	2.6	49
12	Theoretical study of the monolayer structures of CO adsorbed on NaCl(100). <i>Surface Science</i> , 1993, 294, 149-160.	1.9	48
13	Geometry and dynamics of formic and acetic acids adsorbed on ice. <i>Chemical Physics Letters</i> , 2002, 365, 1-7.	2.6	48
14	Adsorption of Phenanthrene on Natural Snow. <i>Environmental Science & Technology</i> , 2007, 41, 6033-6038.	10.0	48
15	Adsorption of acetic acid on ice: Experiments and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2005, 122, 194707.	3.0	46
16	Adsorption of polar molecules on substrates with strong electric surface fields: from aggregates to monolayers. <i>Chemical Physics Letters</i> , 1993, 209, 340-346.	2.6	45
17	Free-Energy Profile of Small Solute Molecules at the Free Surfaces of Water and Ice, as Determined by Cavity Insertion Widom Calculations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9407-9416.	3.1	45
18	Theoretical Study of the Adsorption of Water on a Model Soot Surface: II. Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5410-5415.	2.6	44

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19	Clathrate hydrates as a sink of noble gases in Titan's atmosphere. <i>Astronomy and Astrophysics</i> , 2007, 474, L17-L20.	5.1	44
20	Theoretical Study of the Adsorption of Water on a Model Soot Surface: I. Quantum Chemical Calculations. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5405-5409.	2.6	43
21	Variability of the methane trapping in martian subsurface clathrate hydrates. <i>Planetary and Space Science</i> , 2009, 57, 42-47.	1.7	42
22	Investigation of the adsorption behaviour of acetone at the surface of ice. A grand canonical Monte Carlo simulation study. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6369.	2.8	41
23	Volatile Trapping in Martian Clathrates. <i>Space Science Reviews</i> , 2013, 174, 213-250.	8.1	39
24	ON THE VOLATILE ENRICHMENTS AND HEAVY ELEMENT CONTENT IN HD189733b. <i>Astrophysical Journal</i> , 2011, 727, 77.	4.5	38
25	Adsorption of Aromatic Hydrocarbon Molecules at the Surface of Ice, As Seen by Grand Canonical Monte Carlo Simulation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6719-6729.	3.1	38
26	Experimental and Theoretical Adsorption Study of Ethanol on Ice Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17425-17432.	2.6	37
27	Calculation of the Adsorption Isotherm of Formaldehyde on Ice by Grand Canonical Monte Carlo Simulation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14170-14178.	3.1	37
28	Comparison between methanol and formaldehyde adsorption on ice: a molecular dynamics study. <i>Chemical Physics Letters</i> , 2004, 393, 457-463.	2.6	36
29	Grand canonical Monte Carlo simulation of the adsorption isotherms of water molecules on model soot particles. <i>Journal of Chemical Physics</i> , 2007, 127, 164719.	3.0	36
30	A theoretical investigation into the trapping of noble gases by clathrates on Titan. <i>Planetary and Space Science</i> , 2008, 56, 1607-1617.	1.7	36
31	Water adsorption isotherms on porous onionlike carbonaceous particles. Simulations with the grand canonical Monte Carlo method. <i>Journal of Chemical Physics</i> , 2010, 133, 144702.	3.0	36
32	Geometry of (NH ₃) _n and (H ₂ O) _n aggregates adsorbed on well characterized MgO(100) and Si(111)-(1 × 1) surfaces. <i>Journal of Chemical Physics</i> , 2009, 130, 164702.	1.9	35
33	Adsorption of water molecules on partially oxidized graphite surfaces: a molecular dynamics study of the competition between OH and COOH sites. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6998.	2.8	35
34	Interaction of water molecules with defective carbonaceous clusters: An ab initio study. <i>Surface Science</i> , 2010, 604, 1666-1673.	1.9	34
35	The effect of anaesthetics on the properties of a lipid membrane in the biologically relevant phase: a computer simulation study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14750-14760.	2.8	31
36	NH ₃ physisorption on MgO(100) substrate. Potential calculations revisited. <i>Journal of Chemical Physics</i> , 1993, 98, 3488-3495.	3.0	30

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37	Molecular Dynamics Simulation Study of Water Adsorption on Hydroxylated Graphite Surfaces. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8398-8408.	2.6	30
38	Adsorption of Benzaldehyde at the Surface of Ice, Studied by Experimental Method and Computer Simulation. <i>Langmuir</i> , 2010, 26, 9596-9606.	3.5	29
39	REMOVAL OF TITAN'S ATMOSPHERIC NOBLE GASES BY THEIR SEQUESTRATION IN SURFACE CLATHRATES. <i>Astrophysical Journal Letters</i> , 2011, 740, L9.	8.3	28
40	A Comparative Study of the Geometry of CO ₂ Monolayers Adsorbed on the Ionic Substrates NaCl and MgO(100). <i>Europhysics Letters</i> , 1994, 25, 131-136.	2.0	27
41	Anesthetic molecules embedded in a lipid membrane: a computer simulation study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12956.	2.8	27
42	Structure of CO monolayer adsorbed on NaCl(100) from molecular dynamics. <i>Journal of Chemical Physics</i> , 1996, 105, 8453-8462.	3.0	26
43	Adsorption of water on MgO(100): A singular behavior. <i>Physical Review B</i> , 1998, 57, 11931-11934.	3.2	26
44	Monolayers of acetone and methanol molecules on ice. <i>Surface Science</i> , 2000, 454-456, 178-182.	1.9	26
45	Dynamics of ice layers deposited on MgO(001): Quasielastic neutron scattering experiments and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2001, 114, 6371-6381.	3.0	26
46	Clustering of water molecules on model soot particles: an ab initio study. <i>Computing Letters</i> , 2005, 1, 277-287.	0.5	26
47	A theoretical characterization of the interaction of water with oxidized carbonaceous clusters. <i>Carbon</i> , 2010, 48, 1570-1579.	10.3	26
48	Adsorption of ortho and para H ₂ on NaCl(001). <i>Journal of Chemical Physics</i> , 1998, 109, 6435-6449.	3.0	25
49	A grand canonical Monte-Carlo simulation study of water adsorption on a model soot particle. <i>Molecular Simulation</i> , 2006, 32, 487-493.	2.0	25
50	Adsorption of Acetaldehyde on Ice As Seen from Computer Simulation and Infrared Spectroscopy Measurements. <i>Langmuir</i> , 2012, 28, 4198-4207.	3.5	25
51	Molecular adsorption on ionic substrates: Characterization of terrace and step sites. <i>Chemical Physics</i> , 1995, 194, 65-80.	1.9	24
52	Structure and dynamics of ice Ih films upon HCl adsorption between 190 and 270 K. II. Molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2002, 116, 5150.	3.0	24
53	Adsorption of HF and HCl molecules on ice at 190 and 235 K from molecular dynamics simulations: Free energy profiles and residence times. <i>Journal of Chemical Physics</i> , 2003, 118, 9814-9823.	3.0	24
54	Dynamics of TIP5P and TIP4P/ice potentials. <i>Journal of Chemical Physics</i> , 2006, 125, 174712.	3.0	24

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55	Water adsorption around oxalic acid aggregates: a molecular dynamics simulation of water nucleation on organic aerosols. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19830.	2.8	24
56	Molecular Dynamics Simulations of the Interaction between Water Molecules and Aggregates of Acetic or Propionic Acid Molecules. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15662-15674.	2.6	24
57	Adsorption of atmospheric oxidants at divacancy sites of graphene: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2013, 1016, 22-27.	2.5	23
58	Monolayers of ortho-H ₂ , para-H ₂ , para-D ₂ and normal-H ₂ adsorbed on NaCl(001) single crystal surfaces. <i>Journal of Chemical Physics</i> , 1999, 110, 2566-2578.	3.0	22
59	A $\sim 1/4$ 32 K FORMATION TEMPERATURE RANGE FOR THE ICE GRAINS AGGLOMERATED BY COMET 67 P/CHURYUMOV Gerasimenko. <i>Astrophysical Journal Letters</i> , 2015, 805, L1.	8.3	22
60	A Grand Canonical Monte Carlo Study of the N ₂ , CO, and Mixed N ₂ CO Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18432-18444.	3.1	22
61	Structure and dynamics of ice Ih films upon HCl adsorption between 190 and 270 K. I. Neutron diffraction and quasielastic neutron scattering experiments. <i>Journal of Chemical Physics</i> , 2002, 116, 5143.	3.0	21
62	First-Principles Study of the Interaction between NO and Large Carbonaceous Clusters Modeling the Soot Surface. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1443-1450.	2.5	21
63	Adsorption of Organic Molecules on Onion-like Carbons: Insights on the Formation of Interstellar Hydrocarbons. <i>Astrophysical Journal</i> , 2018, 867, 133.	4.5	21
64	On the difficulty for finding the orientational geometries of adsorbed monolayers: illustration with the system. <i>Surface Science</i> , 1996, 360, 261-270.	1.9	20
65	Molecular dynamics study of diffusion of formaldehyde in ice. <i>Chemical Physics Letters</i> , 2006, 432, 78-83.	2.6	20
66	Optical properties of soot nanoparticles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1791-1801.	2.3	20
67	Incorporation of argon, krypton and xenon into clathrates on Mars. <i>Icarus</i> , 2009, 203, 66-70.	2.5	20
68	Ammonia Clathrate Hydrate As Seen from Grand Canonical Monte Carlo Simulations. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 521-531.	2.7	20
69	The Ice-Vapor Interface and the Melting Point of Ice _{1h} for the Polarizable POL3 Water Model. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5973-5982.	2.5	19
70	Calculations of the mass absorption cross sections for carbonaceous nanoparticles modeling soot. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 164, 69-81.	2.3	19
71	Adsorption of Fluorinated Methane Derivatives at the Surface of Ice under Tropospheric Conditions, As Seen from Grand Canonical Monte Carlo Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17386-17399.	3.1	19
72	Structure and reactivity of carbon multivacancies in graphene. <i>Computational and Theoretical Chemistry</i> , 2012, 990, 159-166.	2.5	18

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73	Interpretation of the polarization infrared spectrum of CO ₂ monolayers adsorbed on ionic substrates. <i>Journal of Chemical Physics</i> , 1995, 102, 7229-7237.	3.0	17
74	A possible mechanism for pressure reversal of general anaesthetics from molecular simulations. <i>Chemical Physics Letters</i> , 2007, 438, 294-297.	2.6	17
75	Molecular dynamics simulations of the water adsorption around malonic acid aerosol models. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10942.	2.8	17
76	Water and formic acid aggregates: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2014, 141, 104701.	3.0	17
77	A semi-empirical potential model for calculating interactions between large aromatic molecules and graphite surfaces. <i>Computational and Theoretical Chemistry</i> , 2006, 772, 1-12.	1.5	16
78	Martian zeolites as a source of atmospheric methane. <i>Icarus</i> , 2016, 278, 1-6.	2.5	16
79	Formation of Interstellar Complex Polycyclic Aromatic Hydrocarbons: Insights from Molecular Dynamics Simulations of Dehydrogenated Benzene. <i>Astrophysical Journal</i> , 2020, 900, 188.	4.5	16
80	Water Adsorption on Oxidized Single Atomic Vacancies Present at the Surface of Small Carbonaceous Nanoparticles Modeling Soot. <i>ChemPhysChem</i> , 2010, 11, 4088-4096.	2.1	15
81	Pressure reversal of general anaesthetics: A possible mechanism from molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2009, 147, 128-134.	4.9	14
82	Molecular Dynamics Simulation of the Adsorption of Oxalic Acid on an Ice Surface. <i>ChemPhysChem</i> , 2010, 11, 3971-3979.	2.1	14
83	Mars cryosphere: A potential reservoir for heavy noble gases?. <i>Icarus</i> , 2012, 218, 80-87.	2.5	14
84	On the Abundances of Noble and Biologically Relevant Gases in Lake Vostok, Antarctica. <i>Astrobiology</i> , 2013, 13, 380-390.	3.0	14
85	Adsorption of Methylene Fluoride and Methylene Chloride at the Surface of Ice under Tropospheric Conditions: A Grand Canonical Monte Carlo Simulation Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17243-17252.	3.1	14
86	Adsorption of Methylamine on Amorphous Ice under Interstellar Conditions. A Grand Canonical Monte Carlo Simulation Study. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3398-3412.	2.5	14
87	Adsorption of Formamide at the Surface of Amorphous and Crystalline Ices under Interstellar and Tropospheric Conditions. A Grand Canonical Monte Carlo Simulation Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2935-2948.	2.5	14
88	Dynamical model for the interpretation of the geometry of the (4Å ⁻²) CO layer adsorbed on MgO (001). <i>Physical Review B</i> , 1996, 53, 16615-16620.	3.2	13
89	Phonon-libron dynamics of acetylene adsorbed on NaCl(001). <i>Physical Review B</i> , 1998, 57, 10090-10099.	3.2	13
90	Adsorption of small polar molecules as a probe of the surface electric field created by water layers supported by MgO(100): a theoretical study. <i>Chemical Physics</i> , 1999, 244, 227-249.	1.9	13

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91	Analysis of Mixed Formic and Acetic Acid Aggregates Interacting With Water: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13863-13875.	3.1	13
92	Vibrational infrared spectrum of NH ₃ adsorbed on MgO(100). II. Interatomic potential calculations. <i>Chemical Physics</i> , 1995, 201, 73-85.	1.9	12
93	Experimental and theoretical studies of the monolayer structure of OCS adsorbed on NaCl(001): Coexistence of orientationally inequivalent phases. <i>Journal of Chemical Physics</i> , 1997, 106, 5271-5283.	3.0	12
94	Quantum description of the hindered rotor motion of CH ₄ adsorbed on MgO(100) and He-bound state analysis. <i>Physical Review B</i> , 1999, 60, 8333-8342.	3.2	12
95	Time study of pollutants at the surface of ice at 200 K. <i>Chemical Physics Letters</i> , 2000, 329, 331-335.	2.6	12
96	Experimental and theoretical studies of acetylene layers adsorbed on KCl(001). <i>Physical Review B</i> , 2000, 61, 14028-14036.	3.2	12
97	Adsorption of H ₂ O ₂ at the surface of Ih ice, as seen from grand canonical Monte Carlo simulations. <i>Chemical Physics Letters</i> , 2014, 600, 73-78.	2.6	12
98	A simple van der Hoff law for calculating Langmuir constants in clathrate hydrates. <i>Chemical Physics</i> , 2015, 448, 53-60.	1.9	12
99	Adsorption of Methylamine at the Surface of Ice. A Grand Canonical Monte Carlo Simulation Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23480-23489.	3.1	12
100	Molecular physisorption on atom-adsorbed unreconstructed (111) silicon surfaces. <i>Surface Science</i> , 1991, 258, 210-224.	1.9	11
101	Adsorption of Hydroxyacetone on Pure Ice Surfaces. <i>ChemPhysChem</i> , 2010, 11, 3921-3927.	2.1	11
102	He-diffraction investigation of the (1 Å ⁻¹) CO phase on NaCl(100): a fully quantum study. <i>Surface Science</i> , 1996, 347, 128-142.	1.9	9
103	IMPACT REGIMES AND POST-FORMATION SEQUESTRATION PROCESSES: IMPLICATIONS FOR THE ORIGIN OF HEAVY NOBLE GASES IN TERRESTRIAL PLANETS. <i>Astrophysical Journal</i> , 2010, 714, 1418-1423.	4.5	9
104	Hydrogen chloride adsorption on large defective PAHs modeling soot surfaces and influence on water trapping: A DFT and AIMD study. <i>Chemical Physics</i> , 2019, 523, 18-27.	1.9	9
105	Photodissociation of a HCl molecule adsorbed on ice at T=210K. <i>Surface Science</i> , 2007, 601, 3034-3041.	1.9	8
106	Sensitivity of predicted gas hydrate occupancies on treatment of intermolecular interactions. <i>Journal of Chemical Physics</i> , 2010, 132, 104510.	3.0	8
107	Adsorption of Chlorinated Methane Derivatives at the Ice Surface: A Grand Canonical Monte Carlo Simulation Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7782-7793.	3.1	8
108	Molecular-scale simulations of organic compounds on ice: application to atmospheric and interstellar sciences. <i>Molecular Simulation</i> , 2019, 45, 403-416.	2.0	8

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109	Phonon-libron dynamics of a commensurate molecular monolayer: (2Å-1)CO ₂ /NaCl(100). Physical Review B, 1995, 52, 2144-2153.	3.2	7
110	The passage of small molecules through a water film supported by MgO(100): Transfer times from molecular dynamics simulations. Journal of Chemical Physics, 2000, 113, 1184-1193.	3.0	7
111	Molecular dynamics simulations of chloroform on ice. Physical Chemistry Chemical Physics, 2004, 6, 1970-1974.	2.8	7
112	Molecular Selectivity of CO ₂ Mixed Hydrates: Raman Spectroscopy and GCMC Studies. Journal of Physical Chemistry C, 2020, 124, 11886-11891.	3.1	7
113	Molecule-step interactions in the aggregation of admolecules on ionic substrates. Chemical Physics Letters, 1995, 242, 212-220.	2.6	6
114	The structure of the c(4Å-2) CO/MgO() monolayer revisited by neutron diffraction. Surface Science, 2001, 494, 206-212.	1.9	6
115	Bottom-up multi-step approach to study the relations between the structure and the optical properties of carbon soot nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1615-1627.	2.3	6
116	Adsorption of C ₂ -C ₅ alcohols on ice: A grand canonical Monte Carlo simulation study. Journal of Chemical Physics, 2022, 156, .	3.0	6
117	Combined elastic neutron scattering experiments and molecular dynamics simulations on the concentrated liquid electrolyte NaAl ₃ .3NH ₃ . Journal of Molecular Liquids, 2003, 108, 1-19.	4.9	4
118	Dependence of the adsorption of halogenated methane derivatives at the ice surface on their chemical structure. Journal of Molecular Liquids, 2017, 245, 17-26.	4.9	4
119	Adsorption of organic compounds at the surface of Enceladus TM ice grains. A grand canonical Monte Carlo simulation study. Molecular Simulation, 2022, 48, 19-30.	2.0	4
120	Structure of the neopentane monolayer adsorbed on MgO(001): experiments and calculations. Surface Science, 2004, 550, 133-139.	1.9	3
121	A new semi-empirical model for the oxidation of polycyclic aromatic hydrocarbon (PAHs) molecules physisorbed on soot. II. Application to the reaction PAH+OH for a series of large PAH molecules. Computational and Theoretical Chemistry, 2011, 965, 259-267.	2.5	3
122	A DFT study of the interaction between large PAHs and atomic chlorine or hydrogen chloride molecule: Toward a modelling of the influence of chlorinated species on the trapping of water by soot. Chemical Physics, 2017, 483-484, 46-55.	1.9	3
123	Multiscale Modeling of Interfacial Oxidation Mechanism at Air/Organic Interface: Reactions of CH ₂ -Terminated Self-Assembled Monolayer with OH [•] , O ₃ , and HO ₂ [•] . Journal of Physical Chemistry C, 2018, 122, 9886-9898.	3.1	3
124	Adsorption of CO and N ₂ molecules at the surface of solid water. A grand canonical Monte Carlo study. Journal of Chemical Physics, 2020, 153, 204502.	3.0	3
125	Molecular Selectivity of CH ₄ -C ₂ H ₆ Mixed Hydrates: A GCMC Study. ACS Earth and Space Chemistry, 2021, 5, 1782-1791.	2.7	3
126	Ammonia and water physisorption on a H-passivated Si(111) surface: a study of admolecule motions. Surface Science, 1992, 272, 172-181.	1.9	2

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127	The effect of HCl adsorption on the structure and dynamics of the ice surface. Canadian Journal of Physics, 2003, 81, 415-422.	1.1	2
128	A molecular dynamics simulation of the electrical conductivity behaviors of highly concentrated liquid ammoniates NH_4^+NH_3 : Comparison with experimental measurements. Journal of Chemical Physics, 2005, 122, 171102.	3.0	2
129	Molecular Dynamics and Monte Carlo Simulations of Organic Compounds Adsorbed on Ice Surfaces. AIP Conference Proceedings, 2007, , .	0.4	2
130	A new semi-empirical model for the oxidation of PAHs physisorbed on soot. I. Application to the reaction $\text{C}_{60}\text{H}_{60} + \text{OH}$. Molecular Simulation, 2009, 35, 1130-1139.	2.0	2
131	Formation of atmospheric molecular clusters from organic waste products and sulfuric acid molecules: a DFT study. Environmental Science Atmospheres, 2021, 1, 267-275.	2.4	2
132	Influence of Onion-like Carbonaceous Particles on the Aggregation Process of Hydrocarbons. ACS Omega, 2021, 6, 27898-27904.	3.5	2
133	DFT Study of the Formation of Atmospheric Aerosol Precursors from the Interaction between Sulfuric Acid and Benzenedicarboxylic Acid Molecules. Journal of Physical Chemistry A, 2022, 126, 1211-1220.	2.5	2