

# Sylvain Picaud

## List of Publications by Year in descending order

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133  
papers

3,075  
citations

126907

33  
h-index

254184

43  
g-index

133  
all docs

133  
docs citations

133  
times ranked

2188  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Adsorption of organic compounds at the surface of Enceladus™ ice grains. A grand canonical Monte Carlo simulation study. <i>Molecular Simulation</i> , 2022, 48, 19-30.   | 2.0 | 4         |
| 2  | DFT Study of the Formation of Atmospheric Aerosol Precursors from the Interaction between Sulfuric Acid and Benzenedicarboxylic Acid Molecules. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1211-1220.  | 2.5 | 2         |
| 3  | Adsorption of C <sub>2</sub> -C <sub>5</sub> alcohols on ice: A grand canonical Monte Carlo simulation study. <i>Journal of Chemical Physics</i> , 2022, 156, .   | 3.0 | 6         |
| 4  | Formation of atmospheric molecular clusters from organic waste products and sulfuric acid molecules: a DFT study. <i>Environmental Science Atmospheres</i> , 2021, 1, 267-275.  | 2.4 | 2         |
| 5  | Molecular Selectivity of CH <sub>4</sub> -C <sub>2</sub> H <sub>6</sub> Mixed Hydrates: A GCMC Study. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1782-1791.  | 2.7 | 3         |
| 6  | Influence of Onion-like Carbonaceous Particles on the Aggregation Process of Hydrocarbons. <i>ACS Omega</i> , 2021, 6, 27898-27904.   | 3.5 | 2         |
| 7  | Adsorption of CO and N <sub>2</sub> molecules at the surface of solid water. A grand canonical Monte Carlo study. <i>Journal of Chemical Physics</i> , 2020, 153, 204502.   | 3.0 | 3         |
| 8  | Molecular Selectivity of CO-N <sub>2</sub> Mixed Hydrates: Raman Spectroscopy and GCMC Studies. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11886-11891.  | 3.1 | 7         |
| 9  | 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        |
| 10 | 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         |
| 11 | 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        |
| 12 | 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         |
| 13 | Multiscale Modeling of Interfacial Oxidation Mechanism at Air/Organic Interface: Reactions of CH <sub>2</sub> -CH-Terminated Self-Assembled Monolayer with OH <sup>•</sup> , O <sub>3</sub> , and HO <sub>2</sub> <sup>•</sup> . <i>Journal of Physical Chemistry C</i> , 2018, 122, 9886-9898. | 3.1 | 3         |
| 14 | 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        |
| 15 | 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        |
| 16 | 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        |
| 17 | A Grand Canonical Monte Carlo Study of the N <sub>2</sub> , CO, and Mixed N <sub>2</sub> -CO Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18432-18444.   | 3.1 | 22        |
| 18 | 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        |

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|----|---|-----|-----------|
| 19 | Dependence of the adsorption of halogenated methane derivatives at the ice surface on their chemical structure. <i>Journal of Molecular Liquids</i> , 2017, 245, 17-26.   | 4.9 | 4         |
| 20 | 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         |
| 21 | 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. <i>Chemical Physics</i> , 2017, 483-484, 46-55. | 1.9 | 3         |
| 22 | 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        |
| 23 | 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        |
| 24 | Martian zeolites as a source of atmospheric methane. <i>Icarus</i> , 2016, 278, 1-6.  | 2.5 | 16        |
| 25 | A $\sim 70$ 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        |
| 26 | Methane Clathrates in the Solar System. <i>Astrobiology</i> , 2015, 15, 308-326.  | 3.0 | 62        |
| 27 | 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        |
| 28 | 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        |
| 29 | Possible evidence for a methane source in Enceladus' ocean. <i>Geophysical Research Letters</i> , 2015, 42, 1334-1339.  | 4.0 | 65        |
| 30 | 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        |
| 31 | A simple van't Hoff law for calculating Langmuir constants in clathrate hydrates. <i>Chemical Physics</i> , 2015, 448, 53-60.   | 1.9 | 12        |
| 32 | 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        |
| 33 | Water and formic acid aggregates: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2014, 141, 104701.   | 3.0 | 17        |
| 34 | Adsorption of H <sub>2</sub> O <sub>2</sub> 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        |
| 35 | 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        |
| 36 | On the Abundances of Noble and Biologically Relevant Gases in Lake Vostok, Antarctica. <i>Astrobiology</i> , 2013, 13, 380-390.   | 3.0 | 14        |

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|----|--|-----|-----------|
| 37 | Adsorption of atmospheric oxidants at divacancy sites of graphene: A DFT study. Computational and Theoretical Chemistry, 2013, 1016, 22-27.  | 2.5 | 23        |
| 38 | Adsorption of Aromatic Hydrocarbon Molecules at the Surface of Ice, As Seen by Grand Canonical Monte Carlo Simulation. Journal of Physical Chemistry C, 2013, 117, 6719-6729.  | 3.1 | 38        |
| 39 | Molecular dynamics simulations of the water adsorption around malonic acid aerosol models. Physical Chemistry Chemical Physics, 2013, 15, 10942.   | 2.8 | 17        |
| 40 | Volatile Trapping in Martian Clathrates. Space Science Reviews, 2013, 174, 213-250.  | 8.1 | 39        |
| 41 | Anesthetic molecules embedded in a lipid membrane: a computer simulation study. Physical Chemistry Chemical Physics, 2012, 14, 12956.  | 2.8 | 27        |
| 42 | Adsorption of Acetaldehyde on Ice As Seen from Computer Simulation and Infrared Spectroscopy Measurements. Langmuir, 2012, 28, 4198-4207.  | 3.5 | 25        |
| 43 | Structure and reactivity of carbon multivacancies in graphene. Computational and Theoretical Chemistry, 2012, 990, 159-166.  | 2.5 | 18        |
| 44 | Mars cryosphere: A potential reservoir for heavy noble gases?. Icarus, 2012, 218, 80-87.   | 2.5 | 14        |
| 45 | The Ice-Vapor Interface and the Melting Point of Ice $\langle i \rangle_{\text{sub}} \langle i \rangle_{\text{h}} \langle /i \rangle$ for the Polarizable POL3 Water Model. Journal of Physical Chemistry A, 2011, 115, 5973-5982.                             | 2.5 | 19        |
| 46 | Water adsorption around oxalic acid aggregates: a molecular dynamics simulation of water nucleation on organic aerosols. Physical Chemistry Chemical Physics, 2011, 13, 19830.   | 2.8 | 24        |
| 47 | ON THE VOLATILE ENRICHMENTS AND HEAVY ELEMENT CONTENT IN HD189733b. Astrophysical Journal, 2011, 727, 77.  | 4.5 | 38        |
| 48 | REMOVAL OF TITAN'S ATMOSPHERIC NOBLE GASES BY THEIR SEQUESTRATION IN SURFACE CLATHRATES. Astrophysical Journal Letters, 2011, 740, L9.   | 8.3 | 28        |
| 49 | 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         |
| 50 | IMPACT REGIMES AND POST-FORMATION SEQUESTRATION PROCESSES: IMPLICATIONS FOR THE ORIGIN OF HEAVY NOBLE GASES IN TERRESTRIAL PLANETS. Astrophysical Journal, 2010, 714, 1418-1423.   | 4.5 | 9         |
| 51 | Water Adsorption on Oxidized Single Atomic Vacancies Present at the Surface of Small Carbonaceous Nanoparticles Modeling Soot. ChemPhysChem, 2010, 11, 4088-4096.  | 2.1 | 15        |
| 52 | Molecular Dynamics Simulation of the Adsorption of Oxalic Acid on an Ice Surface. ChemPhysChem, 2010, 11, 3971-3979.   | 2.1 | 14        |
| 53 | Adsorption of Hydroxyacetone on Pure Ice Surfaces. ChemPhysChem, 2010, 11, 3921-3927.  | 2.1 | 11        |
| 54 | Interaction of water molecules with defective carbonaceous clusters: An ab initio study. Surface Science, 2010, 604, 1666-1673.  | 1.9 | 34        |

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|----|--|------|-----------|
| 55 | A theoretical characterization of the interaction of water with oxidized carbonaceous clusters. Carbon, 2010, 48, 1570-1579.   | 10.3 | 26        |
| 56 | Sensitivity of predicted gas hydrate occupancies on treatment of intermolecular interactions. Journal of Chemical Physics, 2010, 132, 104510.  | 3.0  | 8         |
| 57 | Water adsorption isotherms on porous onionlike carbonaceous particles. Simulations with the grand canonical Monte Carlo method. Journal of Chemical Physics, 2010, 133, 144702.  | 3.0  | 36        |
| 58 | Adsorption of Benzaldehyde at the Surface of Ice, Studied by Experimental Method and Computer Simulation. Langmuir, 2010, 26, 9596-9606.   | 3.5  | 29        |
| 59 | Volatile inventories in clathrate hydrates formed in the primordial nebula. Faraday Discussions, 2010, 147, 509.   | 3.2  | 62        |
| 60 | CLATHRATION OF VOLATILES IN THE SOLAR NEBULA AND IMPLICATIONS FOR THE ORIGIN OF TITAN'S ATMOSPHERE. Astrophysical Journal, 2009, 691, 1780-1786.   | 4.5  | 70        |
| 61 | Pressure reversal of general anaesthetics: A possible mechanism from molecular dynamics simulations. Journal of Molecular Liquids, 2009, 147, 128-134.   | 4.9  | 14        |
| 62 | Incorporation of argon, krypton and xenon into clathrates on Mars. Icarus, 2009, 203, 66-70.   | 2.5  | 20        |
| 63 | 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         |
| 64 | Variability of the methane trapping in martian subsurface clathrate hydrates. Planetary and Space Science, 2009, 57, 42-47.  | 1.7  | 42        |
| 65 | A new semi-empirical model for the oxidation of PAHs physisorbed on soot. I. Application to the reaction $C_{60}H_{60} + OH$ . Molecular Simulation, 2009, 35, 1130-1139.  | 2.0  | 2         |
| 66 | Optical properties of soot nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1791-1801.   | 2.3  | 20        |
| 67 | A theoretical investigation into the trapping of noble gases by clathrates on Titan. Planetary and Space Science, 2008, 56, 1607-1617.   | 1.7  | 36        |
| 68 | Adsorption of water molecules on partially oxidized graphite surfaces: a molecular dynamics study of the competition between OH and COOH sites. Physical Chemistry Chemical Physics, 2008, 10, 6998.                   | 2.8  | 35        |
| 69 | Investigation of the adsorption behaviour of acetone at the surface of ice. A grand canonical Monte Carlo simulation study. Physical Chemistry Chemical Physics, 2008, 10, 6369.                                       | 2.8  | 41        |
| 70 | Adsorption Isotherm of Formic Acid on the Surface of Ice, as Seen from Experiments and Grand Canonical Monte Carlo Simulation. Journal of Physical Chemistry C, 2008, 112, 8976-8987.                                  | 3.1  | 51        |
| 71 | Molecular Dynamics and Monte Carlo Simulations of Organic Compounds Adsorbed on Ice Surfaces. AIP Conference Proceedings, 2007, , .  | 0.4  | 2         |
| 72 | Grand canonical Monte Carlo simulation of the adsorption isotherms of water molecules on model soot particles. Journal of Chemical Physics, 2007, 127, 164719.   | 3.0  | 36        |

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|----|---|------|-----------|
| 73 | Adsorption of Phenanthrene on Natural Snow. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6033-6038.  | 10.0 | 48        |
| 74 | 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        |
| 75 | 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        |
| 76 | Clathrate hydrates as a sink of noble gases in Titan's atmosphere. <i>Astronomy and Astrophysics</i> , 2007, 474, L17-L20.  | 5.1  | 44        |
| 77 | A possible mechanism for pressure reversal of general anaesthetics from molecular simulations. <i>Chemical Physics Letters</i> , 2007, 438, 294-297.  | 2.6  | 17        |
| 78 | Photodissociation of a HCl molecule adsorbed on ice at T=210K. <i>Surface Science</i> , 2007, 601, 3034-3041.   | 1.9  | 8         |
| 79 | 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        |
| 80 | Molecular dynamics study of diffusion of formaldehyde in ice. <i>Chemical Physics Letters</i> , 2006, 432, 78-83.   | 2.6  | 20        |
| 81 | 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        |
| 82 | Dynamics of TIP5P and TIP4P/ice potentials. <i>Journal of Chemical Physics</i> , 2006, 125, 174712.   | 3.0  | 24        |
| 83 | 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        |
| 84 | 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        |
| 85 | Ab initio study of the water adsorption on hydroxylated graphite surfaces. <i>Chemical Physics Letters</i> , 2005, 406, 430-435.  | 2.6  | 49        |
| 86 | Molecular dynamics simulations of polarizable nanotubes interacting with water. <i>Physical Review B</i> , 2005, 71, .  | 3.2  | 52        |
| 87 | Adsorption of acetic acid on ice: Experiments and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2005, 122, 194707.   | 3.0  | 46        |
| 88 | Clustering of water molecules on model soot particles: an ab initio study. <i>Computing Letters</i> , 2005, 1, 277-287.   | 0.5  | 26        |
| 89 | A molecular dynamics simulation of the electrical conductivity behaviors of highly concentrated liquid ammoniates $\text{NH}_4^+\text{NH}_3$ : Comparison with experimental measurements. <i>Journal of Chemical Physics</i> , 2005, 122, 171102. | 3.0  | 2         |
| 90 | Structure of the neopentane monolayer adsorbed on MgO(001): experiments and calculations. <i>Surface Science</i> , 2004, 550, 133-139.  | 1.9  | 3         |

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|-----|--|-----|-----------|
| 91  | Comparison between methanol and formaldehyde adsorption on ice: a molecular dynamics study. <i>Chemical Physics Letters</i> , 2004, 393, 457-463.  | 2.6 | 36        |
| 92  | Molecular dynamics simulations of chloroform on ice. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1970-1974.  | 2.8 | 7         |
| 93  | 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        |
| 94  | 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        |
| 95  | Experimental and Theoretical Adsorption Study of Ethanol on Ice Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17425-17432.   | 2.6 | 37        |
| 96  | Combined elastic neutron scattering experiments and molecular dynamics simulations on the concentrated liquid electrolyte NaAl <sub>3</sub> NH <sub>3</sub> . <i>Journal of Molecular Liquids</i> , 2003, 108, 1-19. | 4.9 | 4         |
| 97  | The effect of HCl adsorption on the structure and dynamics of the ice surface. <i>Canadian Journal of Physics</i> , 2003, 81, 415-422.   | 1.1 | 2         |
| 98  | 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        |
| 99  | 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        |
| 100 | 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        |
| 101 | Geometry and dynamics of formic and acetic acids adsorbed on ice. <i>Chemical Physics Letters</i> , 2002, 365, 1-7.  | 2.6 | 48        |
| 102 | The structure of the c(4 $\times$ 2) CO/MgO(001) monolayer revisited by neutron diffraction. <i>Surface Science</i> , 2001, 494, 206-212.  | 1.9 | 6         |
| 103 | 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        |
| 104 | Time study of pollutants at the surface of ice at 200 K. <i>Chemical Physics Letters</i> , 2000, 329, 331-335.   | 2.6 | 12        |
| 105 | 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        |
| 106 | Experimental and theoretical studies of acetylene layers adsorbed on KCl(001). <i>Physical Review B</i> , 2000, 61, 14028-14036.   | 3.2 | 12        |
| 107 | Monolayers of acetone and methanol molecules on ice. <i>Surface Science</i> , 2000, 454-456, 178-182.  | 1.9 | 26        |
| 108 | The passage of small molecules through a water film supported by MgO(100): Transfer times from molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2000, 113, 1184-1193.                            | 3.0 | 7         |

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|-----|--|-----|-----------|
| 109 | Monolayers of ortho-H <sub>2</sub> , para-H <sub>2</sub> , para-D <sub>2</sub> and normal-H <sub>2</sub> adsorbed on NaCl(001) single crystal surfaces. <i>Journal of Chemical Physics</i> , 1999, 110, 2566-2578. | 3.0 | 22        |
| 110 | Quantum description of the hindered rotor motion of CH <sub>4</sub> adsorbed on MgO(100) and He-bound state analysis. <i>Physical Review B</i> , 1999, 60, 8333-8342.  | 3.2 | 12        |
| 111 | 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        |
| 112 | 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        |
| 113 | Adsorption of ortho and para H <sub>2</sub> on NaCl(001). <i>Journal of Chemical Physics</i> , 1998, 109, 6435-6449.   | 3.0 | 25        |
| 114 | Adsorption of water on MgO(100): A singular behavior. <i>Physical Review B</i> , 1998, 57, 11931-11934.  | 3.2 | 26        |
| 115 | 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        |
| 116 | Phonon-libron dynamics of acetylene adsorbed on NaCl(001). <i>Physical Review B</i> , 1998, 57, 10090-10099.   | 3.2 | 13        |
| 117 | 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        |
| 118 | He-diffraction investigation of the (1 Å <sup>-1</sup> ) CO phase on NaCl(100): a fully quantum study. <i>Surface Science</i> , 1996, 347, 128-142.  | 1.9 | 9         |
| 119 | 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        |
| 120 | Structure of CO monolayer adsorbed on NaCl(100) from molecular dynamics. <i>Journal of Chemical Physics</i> , 1996, 105, 8453-8462.  | 3.0 | 26        |
| 121 | Dynamical model for the interpretation of the geometry of the (4 Å <sup>-1</sup> ) CO layer adsorbed on MgO (001). <i>Physical Review B</i> , 1996, 53, 16615-16620.   | 3.2 | 13        |
| 122 | Molecule-step interactions in the aggregation of admolecules on ionic substrates. <i>Chemical Physics Letters</i> , 1995, 242, 212-220.  | 2.6 | 6         |
| 123 | Molecular adsorption on ionic substrates: Characterization of terrace and step sites. <i>Chemical Physics</i> , 1995, 194, 65-80.  | 1.9 | 24        |
| 124 | Vibrational infrared spectrum of NH <sub>3</sub> adsorbed on MgO(100). II. Interatomic potential calculations. <i>Chemical Physics</i> , 1995, 201, 73-85.   | 1.9 | 12        |
| 125 | Phonon-libron dynamics of a commensurate molecular monolayer: (2 Å <sup>-1</sup> )CO <sub>2</sub> /NaCl(100). <i>Physical Review B</i> , 1995, 52, 2144-2153.  | 3.2 | 7         |
| 126 | Interpretation of the polarization infrared spectrum of CO <sub>2</sub> monolayers adsorbed on ionic substrates. <i>Journal of Chemical Physics</i> , 1995, 102, 7229-7237.  | 3.0 | 17        |



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|-----|---|-----|-----------|
| 127 | A Comparative Study of the Geometry of CO <sub>2</sub> Monolayers Adsorbed on the Ionic Substrates NaCl and MgO(100). Europhysics Letters, 1994, 25, 131-136.                                     | 2.0 | 27        |
| 128 | Adsorption of polar molecules on substrates with strong electric surface fields: from aggregates to monolayers. Chemical Physics Letters, 1993, 209, 340-346.                                     | 2.6 | 45        |
| 129 | Theoretical study of the monolayer structures of CO adsorbed on NaCl(100). Surface Science, 1993, 294, 149-160.   | 1.9 | 48        |
| 130 | NH <sub>3</sub> physisorption on MgO(100) substrate. Potential calculations revisited. Journal of Chemical Physics, 1993, 98, 3488-3495.  | 3.0 | 30        |
| 131 | Geometry of (NH <sub>3</sub> ) <sub>n</sub> and (H <sub>2</sub> O) <sub>n</sub> aggregates adsorbed on well characterized MgO(100) and Si(111)-(1 Å <sup>-1</sup> ) Tj ETQq1 1 0.784314 rgBf / 35 | 1.9 | 35        |
| 132 | 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         |
| 133 | Molecular physisorption on atom-adsorbed unreconstructed (111) silicon surfaces. Surface Science, 1991, 258, 210-224.   | 1.9 | 11        |