Christophe Ramseyer

List of Publications by Year
in descending order

87 papers	1,792 citations	257450 24 h-index	315739 38 g-index
89 all docs	89 docs citations	89 times ranked	2621 citing authors

#	Article	IF	Citations
1	The asymmetry of plasma membranes and their cholesterol content influence the uptake of cisplatin. Scientific Reports, 2019, 9, 5627.	3.3	95
2	Conjugation of squalene to gemcitabine as unique approach exploiting endogenous lipoproteins for drug delivery. Nature Communications, 2017, 8, 15678.	12.8	86
3	Molecular selectivity due to adsorption properties in nanotubes. Physical Review B, 2004, 69, .	3.2	80
4	The influence of curvature on the properties of the plasma membrane. Insights from atomistic molecular dynamics simulations. Scientific Reports, 2017, 7, 16078.	3.3	67
5	Insertion of Short Amino-Functionalized Single-Walled Carbon Nanotubes into Phospholipid Bilayer Occurs by Passive Diffusion. PLoS ONE, 2012, 7, e40703.	2.5	67
6	Affinity of C₆₀ Neat Fullerenes with Membrane Proteins: A Computational Study on Potassium Channels. ACS Nano, 2010, 4, 4158-4164.	14.6	63
7	How do functionalized carbon nanotubes land on, bind to and pierce through model and plasma membranes. Nanoscale, 2013, 5, 10242.	5.6	61
8	Direct growth of the multi-walled carbon nanotubes as a tool to detect ammonia at room temperature. Chemical Physics Letters, 2006, 433, 175-181.	2.6	55
9	New Bioinspired Membrane Made of a Biological Ion Channel Confined into the Cylindrical Nanopore of a Solid-State Polymer.. Nano Letters, 2011, 11, 712-716.	9.1	51
10	Molecular dynamics study of the KcsA channel at 2.0-Ã... resolution: stability and concerted motions within the pore. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1661, 26-39.	2.6	45
11	Numerical studies of the membrane fluorescent dyes dynamics in ground and excited states. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1724-1734.	2.6	42
12	Comparative study ofab initioand tight-binding electronic structure calculations applied to platinum surfaces. Physical Review B, 2004, 70, .	3.2	40
13	About the structural role of disulfide bridges in serum albumins: Evidence from protein simulated unfolding. Biopolymers, 2012, 97, 889-898.	2.4	37
14	Uptake and Translocation Mechanisms of Cationic Amino Derivatives Functionalized on Pristine C60 by Lipid Membranes: A Molecular Dynamics Simulation Study. ACS Nano, 2011, 5, 8571-8578.	14.6	36
15	Will C-Laurdan Dethrone Laurdan in Fluorescent Solvent Relaxation Techniques for Lipid Membrane Studies?. Langmuir, 2013, 29, 1174-1182.	3.5	35
16	Targeted molecular dynamics of an open-state KcsA channel. Journal of Chemical Physics, 2005, 122, 134707.	3.0	34
17	Curvature increases permeability of the plasma membrane for ions, water and the anti-cancer drugs cisplatin and gemcitabine. Scientific Reports, 2019, 9, 17214.	3.3	34
18	Confinement effects on the growth of adsorbates: Interpretation of the formation of monoatomic Ag wires on Pt(997). Physical Review B, 2000, 61, 16154-16162.	3.2	33

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19	A Stable Roomâ€Temperature Molecular Assembly of Zwitterionic Organic Dipoles Guided by a Si(111)â€7Ã—7 Template Effect. Angewandte Chemie - International Edition, 2007, 46, 9287-9290.	13.8	32
20	Novel aminotetrazole derivatives as selective STAT3 non-peptide inhibitors. European Journal of Medicinal Chemistry, 2015, 103, 163-174.	5.5	32
21	Growth of composition-modulated Ag/Co wires on Pt(997). Physical Review B, 2001, 64, .	3.2	31
22	Low-Density Lipoproteins and Human Serum Albumin as Carriers of Squalenoylated Drugs: Insights from Molecular Simulations. Molecular Pharmaceutics, 2018, 15, 585-591.	4.6	29
23	Relaxation effects on the magnetism of decorated step edges:Coâ•Pt(664). Physical Review B, 2006, 73, .	3.2	28
24	How long a functionalized carbon nanotube can passively penetrate a lipid membrane. Carbon, 2012, 50, 5301-5308.	10.3	26
25	Determination of mean and Gaussian curvatures of highly curved asymmetric lipid bilayers: the case study of the influence of cholesterol on the membrane shape. Physical Chemistry Chemical Physics, 2014, 16, 17052.	2.8	26
26	Oxidation of Zincâ€“Thiolate Complexes of Biological Interest by Hydrogen Peroxide: A Theoretical Study. Inorganic Chemistry, 2011, 50, 5407-5416.	4.0	25
27	Controlling potassium selectivity and proton blocking in a hybrid biological/solid-state polymer nanoporous membrane. Nanoscale, 2013, 5, 3961.	5.6	24
28	Ab initio investigation of the atomic charges in the KcsA channel selectivity filter. Chemical Physics Letters, 2004, 397, 510-515.	2.6	23
29	Incidence of partial charges on ion selectivity in potassium channels. Journal of Chemical Physics, 2006, 124, 044703.	3.0	23
30	Ion conductance vs. pore gating and selectivity in KcsA channel: Modeling achievements and perspectives. Journal of Molecular Modeling, 2007, 13, 699-713.	1.8	23
31	Characterization of theCu(110)â^'(2Ã—1)Oreconstruction by means of molecular adsorption. Physical Review B, 1998, 58, 9998-10002.	3.2	22
32	Model for thermal desorption of hydrogen atoms from a graphite surface based on kinetic Monte Carlo simulations. Physical Review B, 2008, 77, .	3.2	22
33	Quantum-well resonances and image states in the Ar/Cu() system. Surface Science, 2003, 540, 457-473.	1.9	21
34	Adsorption and structure of N2 on Pt(111). Surface Science, 2000, 444, 163-179.	1.9	20
35	Empirical force field for cisplatin based on quantum dynamics data: case study of new parameterization scheme for coordination compounds. Journal of Molecular Modeling, 2015, 21, 268.	1.8	20
36	A principal component analysis of the dynamics of subdomains and binding sites in human serum albumin. Biopolymers, 2014, 101, 561-572.	2.4	18

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37	Interaction of C₆₀ fullerenes with asymmetric and curved lipid membranes: a molecular dynamics study. Physical Chemistry Chemical Physics, 2016, 18, 278-284.	2.8	18
38	Formation of one-dimensional ordered alloy at step edges: An atomistic study of the (2Ã—1) Ni/Pt alloy on the Pt(997) surface. Surface Science, 2011, 605, 917-922.	1.9	17
39	Selective Inhibition of STAT3 with Respect to STAT1: Insights from Molecular Dynamics and Ensemble Docking Simulations. Journal of Chemical Information and Modeling, 2016, 56, 1588-1596.	5.4	17
40	N2monolayer and bilayer adsorbed on Ag(110) at 15 K: Structure and orientational ordering. Physical Review B, 1998, 58, 4111-4119.	3.2	16
41	Selective adsorption and structure formation ofN2on the nanostructured Cu-CuO stripe phase. Physical Review B, 2002, 66, .	3.2	15
42	Image states on a free-electron metal surface covered by an atomically thin insulator layer. Surface Science, 2003, 528, 78-83.	1.9	15
43	Theoretical insights into the mechanism of redox switch in heat shock protein Hsp33. Journal of Biological Inorganic Chemistry, 2015, 20, 555-562.	2.6	15
44	Effect of the diffusion anisotropy on the nucleation and growth of xenon on Cu(110). Surface Science, 2000, 446, L113-L119.	1.9	14
45	Structure of Xe adsorbed on the highly corrugatedCu(110)â^'(2Ã—1)Osurface. Physical Review B, 1998, 57, 13149-13157.	3.2	13
46	Growth of perfect and smooth Ag and Co monatomic wires on Pt vicinal surfaces: A kinetic Monte Carlo study. Surface Science, 2009, 603, 22-26.	1.9	13
47	Oxidation reactivity of zincâ€“cysteine clusters in metallothionein. Journal of Biological Inorganic Chemistry, 2013, 18, 333-342.	2.6	13
48	Role of water molecules in the KcsA protein channel by molecular dynamics calculations. Physical Chemistry Chemical Physics, 2005, 7, 4138.	2.8	12
49	Insight into the origins of the barrier-less knock-on conduction in the KcsA channel: molecular dynamics simulations and ab initio calculations. Physical Chemistry Chemical Physics, 2007, 9, 1219.	2.8	12
50	Dielectric constant of electrolyte solutions confined in a charged nanofiltration membrane. Desalination, 2006, 200, 125-126.	8.2	10
51	Squalene versus cholesterol: Which is the best nanocarrier for the delivery to cells of the anticancer drug gemcitabine?. Comptes Rendus Chimie, 2018, 21, 974-986.	0.5	10
52	Stacking as a Key Property for Creating Nanoparticles with Tunable Shape: The Case of Squalenoyl-Doxorubicin. ACS Nano, 2019, 13, 12870-12879.	14.6	10
53	First-principles investigation of Co wires at Pt(111) step-edges. Surface Science, 2006, 600, 4301-4304.	1.9	9
54	Determination of the charge profile in the KcsA selectivity filter using ab initio calculations and molecular dynamics simulations. Physical Chemistry Chemical Physics, 2009, 11, 8606.	2.8	9

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55	Scaling of submonolayer island sizes in Ag growth on stepped Pt surfaces. Surface Science, 2010, 604, 1576-1583.	1.9	9
56	Structures of single, double and triple layers of lipids adsorbed on graphene: Insights from all-atom molecular dynamics simulations. Carbon, 2017, 118, 358-369.	10.3	9
57	Albumin-driven disassembly of lipidic nanoparticles: the specific case of the squalene-adenosine nanodrug. Nanoscale, 2020, 12, 2793-2809.	5.6	9
58	Structure of N2 adlayers on the highly corrugated Cu(110)â€“(2Ã—1)O surface. Surface Science, 1999, 423, 175-188.	1.9	8
59	Atomic diffusion inside a STM junction: simulations by kinetic Monte Carlo coupled to tunneling current calculations. Surface Science, 2003, 523, 267-278.	1.9	8
60	Determination of the single wall carbon nanotube opening ratio by means of rare gas adsorption. Chemical Physics Letters, 2006, 423, 183-186.	2.6	8
61	Fate of cisplatin and its main hydrolysed forms in the presence of thiolates: a comprehensive computational and experimental study. Metallomics, 2019, 11, 833-844.	2.4	8
62	Grating formation in step flow heterogeneous growth and wavelength selection induced by confinement. Surface Science, 2004, 553, L68-L74.	1.9	7
63	A molecular dynamics study of catestatin docked on nicotinic acetylcholine receptors to identify amino acids potentially involved in the binding of chromogranin A fragments. Physical Chemistry Chemical Physics, 2015, 17, 17454-17460.	2.8	7
64	Negative ion resonance of a molecule adsorbed on a metal surface covered with a rare gas monolayer. Surface Science, 2006, 600, 803-814.	1.9	6
65	Stability of the gramicidin-A channel structure in view of nanofiltration: a computational and experimental study. Soft Matter, 2011, 7, 10651.	2.7	6
66	Dynamics of confined Xe monolayers adsorbed on the Pt(997) vicinal surface. Surface Science, 1998, 400, 176-188.	1.9	5
67	Resonant electron scattering by N2 molecules on Ag(110): study of the orientational ordering of the N2 physisorbed layers. Surface Science, 2000, 465, 138-148.	1.9	5
68	Efficiency of the monofunctionalized C60fullerenes as membrane targeting agents studied by all-atom molecular dynamics simulations. Molecular Membrane Biology, 2013, 30, 338-345.	2.0	5
69	Enhanced potassium selectivity in a bioinspired solid nanopore. Physical Chemistry Chemical Physics, 2013, 15, 19601.	2.8	5
70	Lipoproteins LDL versus HDL as nanocarriers to target either cancer cells or macrophages. JCI Insight, 2020, 5, .	5.0	5
71	Zip gating of the KcsA channel studied by targeted molecular dynamics. Chemical Physics Letters, 2005, 407, 199-204.	2.6	4
72	Alignment of single-wall carbon nanotubes by inclusion of dipolar wires. Physical Review B, 2005, 72, .	3.2	4

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73	Is the mobility of the pore walls and water molecules in the selectivity filter of KcsA channel functionally important?. Physical Chemistry Chemical Physics, 2008, 10, 2249.	2.8	4
74	Insertion kinetics of small nucleotides through single walled carbon nanotube. Journal of Biotechnology, 2013, 164, 13-18.	3.8	4
75	Membrane Environment Modulates Ligand-Binding Propensity of P2Y12 Receptor. Pharmaceutics, 2021, 13, 524.	4.5	4
76	First stages of epitaxial growth in the presence of an extended defect: Kinetic Monte Carlo simulations versus rate equation study on a vicinal surface. Physical Review B, 2007, 76, .	3.2	3
77	Conditions for organized nanoring growth using kinetic Monte Carlo simulations. Physical Review B, 2008, 77, .	3.2	3
78	Influence of step geometry and orientation on the growth of adsorbates. Surface Science, 2000, 454-456, 106-111.	1.9	2
79	Ordering of nitrogen molecules on the nanostructured Cu(110)/Cu(110)â€“(2Ã—1)O stripe phase. Surface Science, 2001, 482-485, 1379-1384.	1.9	2
80	Reply to â€œComment on â€˜Effect of the structural anisotropy and lateral strain on the surface phonons of monolayer xenon on Cu(110)â€™ â€• Physical Review B, 2001, 64, .	3.2	2
81	A theoretical study of the unfolding pathway of reduced Human serum albumin. Journal of Molecular Modeling, 2015, 21, 106.	1.8	2
82	Ab initio study of the influence of conformation on partial charge distribution of dioctadecylamine. Chemical Physics Letters, 2003, 380, 424-434.	2.6	1
83	Orientational ordering in physisorbed molecular layers induced by surface geometry and confinement. International Journal of Quantum Chemistry, 2004, 99, 735-742.	2.0	1
84	Influence of Substrate Hydrophilicity on Structural Properties of Supported Lipid Systems on Graphene, Graphene Oxides, and Silica. Journal of Physical Chemistry B, 2021, 125, 8060-8074.	2.6	1
85	Improvement of nanowire distributions with a STM tip: a kinetic Monte Carlo approach. Surface Science, 2003, 532-535, 531-535.	1.9	0
86	Probing defect species on real surfaces from the analysis of the spectral profile of admolecules. Surface Science, 2009, 603, 887-894.	1.9	0
87	CHARACTERIZATION OF SURFACE DEFECTS THROUGH THE MODIFICATION OF THE INFRARED PROFILE OF ADMOLECULES: APPLICATION TO CO MOLECULES ADSORBED ON (100) MgO AND NaCl SURFACES. Surface Review and Letters, 2010, 17, 431-436.	1.1	0