

Philippe Fontaine

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77 papers	1,149 citations	19 h-index	30 g-index
81 ext. papers	1,254 ext. citations	4.4 avg, IF	3.92 L-index

#	Paper	IF	Citations
77	Octadecyltrichlorosilane monolayers as ultrathin gate insulating films in metal-insulator-semiconductor devices. <i>Applied Physics Letters</i> , 1993 , 62, 2256-2258	3.4	86
76	Fluidization of a dipalmitoyl phosphatidylcholine monolayer by fluorocarbon gases: potential use in lung surfactant therapy. <i>Biophysical Journal</i> , 2006 , 90, 3184-92	2.9	75
75	Direct evidence for highly organized networks of circular surface micelles of surfactant at the air-water interface. <i>Journal of the American Chemical Society</i> , 2005 , 127, 512-3	16.4	73
74	Reversible Stepwise Formation of Mono- and Bilayers of a Fluorocarbon/Hydrocarbon Diblock on Top of a Phospholipid Langmuir Monolayer. A Case of Vertical Phase Separation. <i>Langmuir</i> , 2001 , 17, 6577-6584	4	64
73	Preventing crystallization of phospholipids in monolayers: a new approach to lung-surfactant therapy. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2749-2752	16.4	50
72	X-ray radiolysis induced formation of silver nano-particles: A SAXS and UV-visible absorption spectroscopy study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 263, 436-440	1.2	44
71	Crystal Structure of Epitaxial Quaterthiophene Thin Films Grown on Potassium Acid Phthalate. <i>Advanced Materials</i> , 2001 , 13, 127-130	24	42
70	Influence of Headgroup Cross-Linking on Chain Packing in Langmuir Monolayers of n-Alkyltrialkoxysilanes. <i>Langmuir</i> , 1999 , 15, 1348-1352	4	40
69	Counterion distribution in a spherical charged sparse brush. <i>European Physical Journal E</i> , 2001 , 6, 109-115	15.5	36
68	Soft Interfaces and Resonant Investigation on Undulator Source: A Surface X-ray Scattering Beamline to Study Organic Molecular Films at the SOLEIL Synchrotron. <i>Science of Advanced Materials</i> , 2014 , 6, 2312-2316	2.3	35
67	Superlattice Formation in Fatty Acid Monolayers on a Divalent Ion Subphase: Role of Chain Length, Temperature, and Subphase Concentration. <i>Langmuir</i> , 2003 , 19, 10808-10815	4	28
66	Incorporation of glycoconjugated porphyrin derivatives into phospholipid monolayers: a screening method for the evaluation of their interaction with a cell membrane. <i>Langmuir</i> , 2004 , 20, 11698-705	4	26
65	Synthesis of nanostructured metal-organic films: surface X-ray radiolysis of silver ions using a langmuir monolayer as a template. <i>Langmuir</i> , 2004 , 20, 4791-4	4	26
64	Fast and adjustable-resolution grazing-incidence x-ray liquid surface diffraction. <i>Review of Scientific Instruments</i> , 2004 , 75, 3097-3106	1.7	25
63	A critical look at surface force measurement using a commercial atomic force microscope in the noncontact mode. <i>Review of Scientific Instruments</i> , 1997 , 68, 4145-4151	1.7	23
62	Chiral and herringbone symmetry breaking in water-surface monolayers. <i>Physical Review E</i> , 1996 , 53, 667-673	2.4	23
61	Long-range nanometer-scale organization of semifluorinated alkane monolayers at the air/water interface. <i>Langmuir</i> , 2011 , 27, 13497-505	4	22

60	SIRIUS: A new beamline for in situ X-ray diffraction and spectroscopy studies of advanced materials and nanostructures at the SOLEIL Synchrotron. <i>Thin Solid Films</i> , 2016 , 617, 48-54	2.2	20
59	Highly organized crystalline monolayer of a semi-fluorinated alkane on a solid substrate obtained by spin-coating. <i>Thin Solid Films</i> , 2010 , 519, 414-416	2.2	19
58	Soleil a New Powerful Tool for Materials Science. <i>Oil and Gas Science and Technology</i> , 2005 , 60, 849-874	1.9	19
57	Spontaneous Buckling Induced by the Adsorption of Charged Copolymers at the Air-Water Interface. <i>Journal De Physique II</i> , 1997 , 7, 401-407		17
56	On the Interaction between Digitonin and Cholesterol in Langmuir Monolayers. <i>Langmuir</i> , 2016 , 32, 9064-73	4.73	16
55	Influence of a neoglycolipid and its PEO-lipid moiety on the organization of phospholipid monolayers. <i>Langmuir</i> , 2005 , 21, 11941-8	4	16
54	Headgroup-Ordered Monolayers of Uncharged Glycolipids Exhibit Selective Interactions with Ions. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1684-1690	6.4	15
53	Direct Measurement of Lateral Correlations under Controlled Nanoconfinement. <i>Physical Review Letters</i> , 2018 , 120, 118001	7.4	14
52	Radiation induced synthesis of silver nanoshells formed onto organic micelles. <i>European Physical Journal D</i> , 2005 , 34, 231-233	1.3	14
51	Unexpected stability of phospholipid langmuir monolayers deposited on Triton X-100 aqueous solutions. <i>Langmuir</i> , 2007 , 23, 12959-65	4	13
50	Evolution of Perovskite Crystallization in Printed Mesoscopic Perovskite Solar Cells. <i>Energy Technology</i> , 2019 , 7, 1900343	3.5	12
49	Charge and aggregation pattern govern the interaction of plasticins with LPS monolayers mimicking the external leaflet of the outer membrane of Gram-negative bacteria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 2967-79	3.8	12
48	How exfoliated graphene oxide nanosheets organize at the water interface: evidence for a spontaneous bilayer self-assembly. <i>Nanoscale</i> , 2017 , 9, 12543-12548	7.7	12
47	Evidence for interaction with the water subphase as the origin and stabilization of nano-domain in semi-fluorinated alkanes monolayer at the air/water interface. <i>Langmuir</i> , 2014 , 30, 15193-9	4	12
46	Proof of pore formation and biophysical perturbations through a 2D amoxicillin-lipid membrane interaction approach. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 803-812	3.8	11
45	Observation of a two-step mechanism in the formation of a superstructure of cadmium-behenic acid Langmuir monolayer: evidence of an intermediate structure. <i>Physical Review E</i> , 2004 , 70, 050601	2.4	11
44	Structural and optical properties of two-dimensional gadolinium stearate Langmuir monolayer. <i>Chemical Physics Letters</i> , 2018 , 712, 177-183	2.5	11
43	Crucial Role of the Double Bond Isomerism in the Steroid B-Ring on the Membrane Properties of Sterols. Grazing Incidence X-Ray Diffraction and Brewster Angle Microscopy Studies. <i>Langmuir</i> , 2015 , 31, 7364-73	4	10

42	Evolution toward the X phase of fatty acid Langmuir monolayers on a divalent cation solution. <i>Langmuir</i> , 2010 , 26, 830-7	4	10
41	Potential use of fluorocarbons in lung surfactant therapy. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2007 , 35, 211-20		9
40	Coupled Effects of Spreading Solvent Molecules and Electrostatic Repulsions on the Behavior of PS-b-PAA Monolayers at the Air-Water Interface. <i>Langmuir</i> , 2017 , 33, 12525-12534	4	8
39	pH-dependent kinetics of MgCl ₂ adsorption under a fatty-acid Langmuir film. <i>European Physical Journal E</i> , 2006 , 20, 387-94	1.5	8
38	Counterion distribution in urchinlike charged copolymer micelles Monte Carlo simulation and small angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2003 , 119, 7560-7567	3.9	8
37	Buckling of charged diblock copolymer monolayers at the air-water interface. <i>Europhysics Letters</i> , 2005 , 70, 176-182	1.6	8
36	Status of the crystallography beamlines at synchrotron SOLEIL?. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	7
35	Grazing incidence diffraction studies of the interactions between ursane-type antimicrobial triterpenes and bacterial anionic phospholipids. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 128, 561-567	6	7
34	Evidence of lying molecules in the structure of the most condensed phase of semi-fluorinated alkane monolayers. <i>Nanoscale</i> , 2018 , 10, 2310-2316	7.7	7
33	Ligand-free synthesis of gold nanoparticles incorporated within cylindrical block copolymer films. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8194-8204	7.1	7
32	Preventing Crystallization of Phospholipids in Monolayers: A New Approach to Lung-Surfactant Therapy. <i>Angewandte Chemie</i> , 2005 , 117, 2809-2812	3.6	7
31	Variation of the in-plane structure with depth revealed by grazing incidence x-ray diffraction in a thin Langmuir-Blodgett film. <i>Physical Review E</i> , 2002 , 66, 012701	2.4	7
30	Evidence of a tilted and herringbone structure in cadmium behenate Langmuir-Blodgett ultrathin films: Comparison with Langmuir monolayers. <i>Journal of Chemical Physics</i> , 2002 , 116, 3822-3827	3.9	7
29	Two-Dimensional Mixtures of Stearic Acid and Partially Fluorinated Amphiphilic Molecule: A Grazing Incidence X-ray Diffraction Study. <i>Langmuir</i> , 2000 , 16, 10189-10192	4	7
28	Characterization limits of a polymer adsorbed under a monolayer by GIXD measurements. <i>Journal of Colloid and Interface Science</i> , 2007 , 306, 82-8	9.3	6
27	Substrate-dependent conformational state induced by a hydrophilic group intercalated in a semi-fluorinated molecule. <i>Thin Solid Films</i> , 2004 , 457, 381-390	2.2	6
26	Evidence for asymmetric edge-on Langmuir monolayer: Application to surface potential measurements. <i>Europhysics Letters</i> , 2001 , 56, 234-240	1.6	6
25	Controlled Synthesis of Gold Nanoparticles in Copolymers Nanomolds by X-ray Radiolysis. <i>Langmuir</i> , 2020 , 36, 6132-6144	4	5

24	Solvent-exchange process in MOF ultrathin films and its effect on CO and methanol adsorption. <i>Journal of Colloid and Interface Science</i> , 2021 , 590, 72-81	9.3	5
23	Licofelone-DPPC Interactions: Putting Membrane Lipids on the Radar of Drug Development. <i>Molecules</i> , 2019 , 24,	4.8	5
22	Alkyl-trichlorosilane monolayer as ultra-thin insulating film for silicon MIS devices. <i>Microelectronic Engineering</i> , 1993 , 22, 101-104	2.5	4
21	FORTE - a multipurpose high-vacuum diffractometer for tender X-ray diffraction and spectroscopy at the SIRIUS beamline of Synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1374-1387	2.4	4
20	Formation of Two-Dimensional Network of Organic Charge-Transfer Complexes at the Air-Water Interface. <i>Langmuir</i> , 2019 , 35, 12630-12635	4	3
19	Structure of Langmuir Monolayers of Perfluorinated Fatty Acids: Evidence of a New 2D Smectic C Phase. <i>Molecules</i> , 2019 , 24,	4.8	3
18	Grazing Incidence X-ray Diffraction Studies of Lipid-Peptide Mixed Monolayers during Shear Flow. <i>ACS Omega</i> , 2020 , 5, 14555-14563	3.9	3
17	Two step formation of metal aggregates by surface X-ray radiolysis under Langmuir monolayers: 2D followed by 3D growth. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2406-11	3	2
16	Influence of lipophilicity of anthracyclines on the interactions with cholesterol in the model cell membranes - Langmuir monolayer and SEIRAS studies.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 211, 112297	6	2
15	Large area AlO-Au raspberry-like nanoclusters from iterative block-copolymer self-assembly.. <i>RSC Advances</i> , 2020 , 10, 41088-41097	3.7	2
14	Unexpected Order-Disorder Transition in Diacetylene Alcohol Langmuir Films. <i>Langmuir</i> , 2021 , 37, 9034-9042	4	2
13	X-ray Standing Waves and Molecular Dynamics Studies of Ion Surface Interactions in Water at a Charged Silica Interface. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30294-30304	3.8	2
12	Catalytically active peptides affected by self-assembly and residues order. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 203, 111751	6	2
11	Inorganic mixed phase templated by a fatty acid monolayer at the air-water interface: the Mn and Mg case. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6629-6637	3.6	1
10	X-ray surface radiolysis: Kinetics of the metal-organic interface formation. <i>European Physical Journal: Special Topics</i> , 2009 , 167, 157-162	2.3	1
9	X-ray diffraction studies of the structure and orientations of thiophene and fluorenone based molecule. <i>Thin Solid Films</i> , 2006 , 514, 334-340	2.2	1
8	Langmuir Films of Perfluorinated Fatty Alcohols: Evidence of Spontaneous Formation of Solid Aggregates at Zero Surface Pressure and Very Low Surface Density. <i>Nanomaterials</i> , 2020 , 10,	5.4	1
7	Oriented thick films of block copolymer made by multiple successive coatings: perforated lamellae oriented lamellae. <i>Soft Matter</i> , 2020 , 16, 8179-8186	3.6	1

6	pH-sensitive behavior of the PS-b-PDMAEMA copolymer at the air - water interface. <i>Polymer</i> , 2021 , 221, 123619	3.9	1
5	Surface Pressure-Induced Interdiffused Structure Evidenced by Neutron Reflectometry in Cellulose Acetate/Polybutadiene Langmuir Films. <i>Langmuir</i> , 2021 , 37, 5717-5730	4	1
4	Chloroaurate ions below organic monolayers: Competitive accumulation and gold nanocrystal growth. <i>Chemical Physics Letters</i> , 2020 , 754, 137774	2.5	0
3	Interface-Mediated Mechanism of Action-The Root of the Cytoprotective Effect of Immediate-Release Omeprazole. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 5171-5184	8.3	0
2	Spatially Addressed Supramolecular Nanowires: A Full Structural Characterization by GIWAXS. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 661-670	4.3	0
1	Limited propagation of lattice distortion in trilayer Langmuir-Blodgett films: correlation with mesoscopic structure. <i>Langmuir</i> , 2013 , 29, 11046-54	4	