Ludovic Richert

List of Publications by Citations

62 papers	4,616 citations	30 h-index	64 g-index
64 ext. papers	4,960 ext. citations	7.5 avg, IF	4.89 L-index

#	Paper	IF	Citations
62	Molecular basis for the explanation of the exponential growth of polyelectrolyte multilayers. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 12531-5	11.5	770
61	Layer by layer buildup of polysaccharide films: physical chemistry and cellular adhesion aspects. *Langmuir*, **2004**, 20, 448-58	4	450
60	Improvement of stability and cell adhesion properties of polyelectrolyte multilayer films by chemical cross-linking. *Biomacromolecules*, **2004**, 5, 284-94	6.9	375
59	Surface probe measurements of the elasticity of sectioned tissue, thin gels and polyelectrolyte multilayer films: Correlations between substrate stiffness and cell adhesion. *Surface Science*, **2004**, 570, 142-154	1.8	275
58	Elasticity of native and cross-linked polyelectrolyte multilayer films. *Biomacromolecules*, **2004**, 5, 1908-16	6.9	214
57	Tailoring the surface properties of Ti6Al4V by controlled chemical oxidation. *Biomaterials*, **2008**, 29, 1285-98	7.8	176
56	Improving biocompatibility of implantable metals by nanoscale modification of surfaces: an overview of strategies, fabrication methods, and challenges. *Small*, **2009**, 5, 996-1006	11	163
55	Primary Cell Adhesion on RGD-Functionalized and Covalently Crosslinked Thin Polyelectrolyte Multilayer Films. *Advanced Functional Materials*, **2005**, 15, 83-94	15.6	158
54	pH dependent growth of poly(L-lysine)/poly(L-glutamic) acid multilayer films and their cell adhesion properties. *Surface Science*, **2004**, 570, 13-29	1.8	139
53	Surface Nanopatterning to Control Cell Growth. *Advanced Materials*, **2008**, 20, 1488-1492	24	138
52	Collective fluorescence switching of counterion-assembled dyes in polymer nanoparticles. *Nature Communications*, **2014**, 5, 4089	17.4	129
51	Multifunctional polyelectrolyte multilayer films: combining mechanical resistance, biodegradability, and bioactivity. *Biomacromolecules*, **2007**, 8, 139-45	6.9	117
50	Degradability of polysaccharides multilayer films in the oral environment: an in vitro and in vivo study. *Biomacromolecules*, **2005**, 6, 726-33	6.9	116
49	Polyelectrolyte multilayers functionalized by a synthetic analogue of an anti-inflammatory peptide, alpha-MSH, for coating a tracheal prosthesis. *Biomaterials*, **2005**, 26, 2621-30	15.6	106
48	Protein-protein and protein-membrane associations in the lignin pathway. *Plant Cell*, **2012**, 24, 4465-82	11.6	102
47	Virus-sized DNA nanoparticles for gene delivery based on micelles of cationic calixarenes. *Chemistry - A European Journal*, **2011**, 17, 5526-38	4.8	92
46	Elasticity, biodegradability and cell adhesive properties of chitosan/hyaluronan multilayer films. *Biomedical Materials (Bristol)*, **2007**, 2, S45-51	3.5	82

45	Fluorogenic squaraine dimers with polarity-sensitive folding as bright far-red probes for background-free bioimaging. *Journal of the American Chemical Society*, **2015**, 137, 405-12	16.4	71
44	Dipolar 3-methoxychromones as bright and highly solvatochromic fluorescent dyes. *Physical Chemistry Chemical Physics*, **2012**, 14, 2292-300	3.6	68
43	Probing Polarity and Heterogeneity of Lipid Droplets in Live Cells Using a Push-Pull Fluorophore. *Analytical Chemistry*, **2019**, 91, 1928-1935	7.8	62
42	Use of polymerisation to produce free-standing membranes from exponentially growing multilayer films. *Soft Matter*, **2008**, 4, 1621-1624	3.6	59
41	Osteogenetic properties of electrospun nanofibrous PCL scaffolds equipped with chitosan-based nanoreservoirs of growth factors. *Macromolecular Bioscience*, **2014**, 14, 45-55	5.5	54
40	Specific implications of the HIV-1 nucleocapsid zinc fingers in the annealing of the primer binding site complementary sequences during the obligatory plus strand transfer. *Nucleic Acids Research*, **2011**, 39, 6633-45	20.1	50
39	Imaging cell interactions with native and crosslinked polyelectrolyte multilayers. *Cell Biochemistry and Biophysics*, **2006**, 44, 273-85	3.2	50
38	Fluorescent amino acid undergoing excited state intramolecular proton transfer for site-specific probing and imaging of peptide interactions. *Journal of Physical Chemistry B*, **2015**, 119, 2585-95	3.4	46
37	Adsorption of proteins on nanoporous Ti surfaces. *Surface Science*, **2010**, 604, 1445-1451	1.8	45
36	Nanostructured assemblies for dental application. *ACS Nano*, **2010**, 4, 3277-87	16.7	41
35	Role of the nucleocapsid domain in HIV-1 Gag oligomerization and trafficking to the plasma membrane: a fluorescence lifetime imaging microscopy investigation. *Journal of Molecular Biology*, **2015**, 427, 1480-1494	6.5	35
34	Fluorescence lifetime imaging of membrane lipid order with a ratiometric fluorescent probe. *Biophysical Journal*, **2015**, 108, 2521-2531	2.9	35
33	Detection of apoptosis through the lipid order of the outer plasma membrane leaflet. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 3048-54	3.8	34
32	3-D surface charges modulate protrusive and contractile contacts of chondrosarcoma cells. *Cytoskeleton*, **2003**, 56, 147-58		29
31	Site-selective probing of cTAR destabilization highlights the necessary plasticity of the HIV-1 nucleocapsid protein to chaperone the first strand transfer. *Nucleic Acids Research*, **2013**, 41, 5036-48	20.1	28
30	The tumor suppressor CDX2 opposes pro-metastatic biomechanical modifications of colon cancer cells through organization of the actin cytoskeleton. *Cancer Letters*, **2017**, 386, 57-64	9.9	23
29	Tuning excited-state proton transfer dynamics of a 3-hydroxychromone dye in supramolecular complexes via host-guest steric compatibility. *Physical Chemistry Chemical Physics*, **2014**, 16, 776-84	3.6	22
28	Nano-odontology: nanostructured assemblies for endodontic regeneration. *Journal of Biomedical Nanotechnology*, **2011**, 7, 471-5	4	22

27	Sensing micelle hydration by proton-transfer dynamics of a 3-hydroxychromone dye: role of the surfactant headgroup and chain length. *Langmuir*, **2012**, 28, 7147-59	4	21
26	Rational design of fluorescent membrane probes for apoptosis based on 3-hydroxyflavone. *Methods and Applications in Fluorescence*, **2013**, 1, 025002	3.1	20
25	A non-covalent complex of quantum dots and chlorin e6: efficient energy transfer and remarkable stability in living cells revealed by FLIM. *RSC Advances*, **2014**, 4, 52270-52278	3.7	19
24	Structural and functional role of INI1 and LEDGF in the HIV-1 preintegration complex. *PLoS ONE*, **2013**, 8, e60734	3.7	18
23	APOBEC3G impairs the multimerization of the HIV-1 Vif protein in living cells. *Journal of Virology*, **2013**, 87, 6492-506	6.6	16
22	Investigating the cellular distribution and interactions of HIV-1 nucleocapsid protein by quantitative fluorescence microscopy. *PLoS ONE*, **2015**, 10, e0116921	3.7	16
21	The NC domain of HIV-1 Gag contributes to the interaction of Gag with TSG101. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 1421-1431	4	13
20	Live cell imaging shows hepatocyte growth factor-induced Met dimerization. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2016**, 1863, 1552-8	4.9	13
19	Direct binding of hepatocyte growth factor and vascular endothelial growth factor to CD44v6. *Bioscience Reports*, **2015**, 35,	4.1	13
18	Role of the nucleocapsid region in HIV-1 Gag assembly as investigated by quantitative fluorescence-based microscopy. *Virus Research*, **2014**, 193, 78-88	6.4	12
17	Interaction of the epigenetic integrator UHRF1 with the MYST domain of TIP60 inside the cell. *Journal of Experimental and Clinical Cancer Research*, **2017**, 36, 188	12.8	11
16	Site-Selective Monitoring of the Interaction of the SRA Domain of UHRF1 with Target DNA Sequences Labeled with 2-Aminopurine. *Biochemistry*, **2015**, 54, 6012-20	3.2	10
15	Quantifying Release from Lipid Nanocarriers by Fluorescence Correlation Spectroscopy. *ACS Omega*, **2018**, 3, 14333-14340	3.9	10
14	What Makes Thienoguanosine an Outstanding Fluorescent DNA Probe?. *Journal of the American Chemical Society*, **2020**, 142, 16999-17014	16.4	9
13	Dye-doped silica nanoparticle probes for fluorescence lifetime imaging of reductive environments in living cells. *RSC Advances*, **2016**, 6, 104164-104172	3.7	7
12	Excited-State Dynamics of Thienoguanosine, an Isomorphic Highly Fluorescent Analogue of Guanosine. *Chemistry - A European Journal*, **2019**, 25, 7375-7386	4.8	5
11	Monitoring HIV-1 Protein Oligomerization by FLIM FRET Microscopy. *Springer Series in Chemical Physics*, **2015**, 277-307	0.3	5
10	Intermolecular dark resonance energy transfer (DRET): upgrading fluorogenic DNA sensing. *Nucleic Acids Research*, **2021**, 49, e72	20.1	4

9	GUV-AP: multifunctional FIJI-based tool for quantitative image analysis of Giant Unilamellar Vesicles. *Bioinformatics*, **2019**, 35, 2340-2342	7.2	4
8	Near infrared emitting molecular rotor based on merocyanine for probing the viscosity of cellular lipid environments. *Materials Chemistry Frontiers*, **2021**, 5, 2459-2469	7.8	4
7	The use of pore-forming toxins to image lipids and lipid domains. *Methods in Enzymology*, **2021**, 649, 503-542	1.7	4
6	A Molecular Tool Targeting the Base-Flipping Activity of Human UHRF1. *Chemistry - A European Journal*, **2019**, 25, 13363-13375	4.8	2
5	Fluorescence correlation spectroscopy as a sensitive and useful tool for revealing potential overlaps between the epitopes of monoclonal antibodies on viral particles. *MAbs*, **2016**, 8, 1235-1244	6.6	1
4	Two photon fluorescence imaging of lipid membrane domains and potentials using advanced fluorescent probes **2013**,		1
3	Unbinding Process of Amelogenin and Fibrinogen Adsorbed on Different Solid Surfaces Using AFM. *Journal of Biomaterials and Nanobiotechnology*, **2011**, 02, 244-249	1	1
2	Primary osteoblasts adhesion onto RGD-functionalized and cross-linked polyelectrolyte multilayer films. *Materials Research Society Symposia Proceedings*, **2004**, 823, W12.1.1		
1	Kinetics of protein-assisted nucleic acid interconversion monitored by transient time resolved fluorescence in microfluidic droplets. *Nucleic Acids Research*, **2021**, 49, e111	20.1	