

Olivier Deschaume

List of Publications by Year in descending order

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64
papers

1,670
citations

361413

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302126

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docs citations

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times ranked

2601
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Addressable Nanocomposite Hydrogels Allow Plasmonic Actuation and In Situ Temperature Monitoring in 3D Cell Matrices. <i>Advanced Functional Materials</i> , 2022, 32, 2108234.	14.9	12
2	Low Cost, Sensitive Impedance Detection of <i>E. coli</i> Bacteria in Food Matrix Samples Using Surface-Imprinted Polymers as Whole-Cell Receptors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100405.	1.8	5
3	Multiscale Characterization of the Mechanical Properties of Fibrin and Polyethylene Glycol (PEG) Hydrogels for Tissue Engineering Applications. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, 2100366.	2.2	13
4	Taylor Dispersion Analysis and Atomic Force Microscopy Provide a Quantitative Insight into the Aggregation Kinetics of A β (1-40)/A β (1-42) Amyloid Peptide Mixtures. <i>ACS Chemical Neuroscience</i> , 2022, 13, 786-795.	3.5	6
5	Label-Free Imaging of Membrane Potentials by Intramembrane Field Modulation, Assessed by Second Harmonic Generation Microscopy. <i>Small</i> , 2022, 18, e2200205.	10.0	4
6	Ionic strength tunes yeast viscoelasticity and promotes trace-level cell detection. <i>Physics in Medicine</i> , 2022, 14, 100049.	1.3	3
7	Stress-controlled shear flow alignment of collagen type I hydrogel systems. <i>Acta Biomaterialia</i> , 2022, 150, 128-137.	8.3	5
8	Ionic strength controls long-term cell-surface interactions – A QCM-D study of <i>S. cerevisiae</i> adhesion, retention and detachment. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 583-595.	9.4	12
9	Visualization and characterization of metallo-aggregates using multi-photon microscopy. <i>RSC Advances</i> , 2021, 11, 657-661.	3.6	0
10	Solvent Role in the Self-Assembly of Poly(3-alkylthiophene): A Harmonic Light Scattering Study. <i>Macromolecules</i> , 2021, 54, 2477-2484.	4.8	9
11	Chlorite oxidized oxyamylose differentially influences the microstructure of fibrin and self assembling peptide hydrogels as well as dental pulp stem cell behavior. <i>Scientific Reports</i> , 2021, 11, 5687.	3.3	8
12	Effect of poly(thiophene)s topology on their third-order nonlinear optical response. <i>Polymer</i> , 2021, 222, 123630.	3.8	1
13	Enhanced electric field sensitivity of quantum dot/rod two-photon fluorescence and its relevance for cell transmembrane voltage imaging. <i>Nanophotonics</i> , 2021, 10, 2407-2420.	6.0	6
14	Detection of yeast strains by combining surface-imprinted polymers with impedance-based readout. <i>Sensors and Actuators B: Chemical</i> , 2021, 340, 129917.	7.8	13
15	Dual photonic bandgap hollow sphere colloidal photonic crystals for real-time fluorescence enhancement in living cells. <i>Biosensors and Bioelectronics</i> , 2021, 194, 113577.	10.1	3
16	Glycine betaine grafted nanocellulose as an effective and bio-based cationic nanocellulose flocculant for wastewater treatment and microalgal harvesting. <i>Nanoscale Advances</i> , 2021, 3, 4133-4144.	4.6	14
17	Uncovering Log Jamming in Semidilute Suspensions of Quasi-Ideal Rods. <i>Macromolecules</i> , 2021, 54, 9609-9617.	4.8	3
18	Versatile and Robust Method for Antibody Conjugation to Nanoparticles with High Targeting Efficiency. <i>Pharmaceutics</i> , 2021, 13, 2153.	4.5	4

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19	Label-Free Iron Oxide Nanoparticles as Multimodal Contrast Agents in Cells Using Multi-Photon and Magnetic Resonance Imaging. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 8375-8389.	6.7	6
20	The Importance of Excellent π - π Interactions in Poly(thiophene)s To Reach a High Third-Order Nonlinear Optical Response. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9668-9679.	2.6	6
21	Unraveling the Supramolecular Organization Mechanism of Chiral Star-Shaped Poly(3-alkylthiophene). <i>Macromolecules</i> , 2020, 53, 9513-9520.	4.8	5
22	SANS study of mixed cholesteric cellulose nanocrystal " gold nanorod suspensions. <i>Chemical Communications</i> , 2020, 56, 13001-13004.	4.1	13
23	Advent of Plasmonic Behavior: Dynamically Tracking the Formation of Gold Nanoparticles through Nonlinear Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 7327-7337.	6.7	5
24	Towards Mimicking the Fetal Liver Niche: The Influence of Elasticity and Oxygen Tension on Hematopoietic Stem/Progenitor Cells Cultured in 3D Fibrin Hydrogels. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6367.	4.1	10
25	Development of a Layered Hybrid Nanocomposite Material Using $\hat{\pm}$, $\%$ -Bifunctionalized Polythiophenes. <i>Macromolecules</i> , 2020, 53, 11098-11105.	4.8	9
26	Quantum Dot-Functionalized Extracellular Matrices for <i>In Situ</i> Monitoring of Cardiomyocyte Activity. <i>ACS Applied Nano Materials</i> , 2020, 3, 6118-6126.	5.0	6
27	QCM-D Study of Time-Resolved Cell Adhesion and Detachment: Effect of Surface Free Energy on Eukaryotes and Prokaryotes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18258-18272.	8.0	43
28	Understanding the Dehydration Stress in Lipid Vesicles by a Combined Quartz Crystal Microbalance and Dielectric Spectroscopy Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900986.	1.8	4
29	Second-order optimized regularized structured illumination microscopy (sorSIM) for high-quality and rapid super resolution image reconstruction with low signal level. <i>Optics Express</i> , 2020, 28, 16708.	3.4	6
30	Modulation of fungal biofilm physiology and secondary product formation based on physico-chemical surface properties. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1935-1946.	3.4	13
31	Cationic Cellulose Nanocrystals for Flocculation of Microalgae: Effect of Degree of Substitution and Crystallinity. <i>ACS Applied Nano Materials</i> , 2019, 2, 3394-3403.	5.0	35
32	Sensitive and specific detection of E. coli using biomimetic receptors in combination with a modified heat-transfer method. <i>Biosensors and Bioelectronics</i> , 2019, 136, 97-105.	10.1	43
33	Enhancement of Nonlinear Optical Scattering by Gold Nanoparticles through Aggregation-Induced Plasmon Coupling in the Near-Infrared. <i>ChemPhysChem</i> , 2019, 20, 1765-1774.	2.1	5
34	Harmonic light scattering study reveals structured clusters upon the supramolecular aggregation of regioregular poly(3-alkylthiophene). <i>Communications Chemistry</i> , 2019, 2, .	4.5	17
35	Photoacoustic temperature imaging based on multi-wavelength excitation. <i>Photoacoustics</i> , 2019, 13, 33-45.	7.8	25
36	Morphology and structure of the metal-organic framework ZIF-8 during crystallisation measured by a new technique: dynamic angle-resolved second-harmonic scattering (AD-SHS). <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e671-e671.	0.1	0

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37	Cell detection by surface imprinted polymers SIPs: A study to unravel the recognition mechanisms. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 907-917.	7.8	41
38	Capillary electrophoresis for aluminum ion speciation: Optimized separation conditions for complex polycation mixtures. <i>Journal of Chromatography A</i> , 2018, 1552, 79-86.	3.7	1
39	Cell detection by surface imprinted polymers (SIPs) " A study of the sensor surface by optical and dielectric relaxation spectroscopy. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 816-821.	2.9	7
40	Morphology and structure of ZIF-8 during crystallisation measured by dynamic angle-resolved second harmonic scattering. <i>Nature Communications</i> , 2018, 9, 3418.	12.8	29
41	Impact of Amino Acids on the Isomerization of the Aluminum Tridecamer Al ₁₃ . <i>Inorganic Chemistry</i> , 2017, 56, 12401-12409.	4.0	10
42	Development of a new direct liquid injection system for nanoparticle deposition by chemical vapor deposition using nanoparticle solutions. <i>Review of Scientific Instruments</i> , 2016, 87, 025101.	1.3	6
43	Label-Free Detection of <i>Escherichia coli</i> Based on Thermal Transport through Surface Imprinted Polymers. <i>ACS Sensors</i> , 2016, 1, 1140-1147.	7.8	64
44	Dependence of Gold Nanoparticle Radiosensitization on Functionalizing Layer Thickness. <i>Radiation Research</i> , 2016, 185, 384-392.	1.5	19
45	The pH-dependent photoluminescence of colloidal CdSe/ZnS quantum dots with different organic coatings. <i>Nanotechnology</i> , 2015, 26, 255703.	2.6	25
46	Comparison of the Density of Proteins and Peptides Grafted on Silane Layers and Polyelectrolyte Multilayers. <i>Biomacromolecules</i> , 2014, 15, 3706-3716.	5.4	4
47	Synthesis and Properties of Gold Nanoparticle Arrays Self-Organized on Surface-Deposited Lysozyme Amyloid Scaffolds. <i>Chemistry of Materials</i> , 2014, 26, 5383-5393.	6.7	20
48	Selective Protein Immobilization onto Gold Nanoparticles Deposited under Vacuum on a Protein-Repellent Self-Assembled Monolayer. <i>Langmuir</i> , 2013, 29, 15328-15335.	3.5	5
49	Room temperature atomic layer deposition of Al ₂ O ₃ and replication of butterfly wings for photovoltaic application. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	15
50	Site-specific bio-functionalization of surfaces by means of metal nanostructures. , 2012, , .		0
51	Chemistry of Aqueous Silica Nanoparticle Surfaces and the Mechanism of Selective Peptide Adsorption. <i>Journal of the American Chemical Society</i> , 2012, 134, 6244-6256.	13.7	349
52	Bioinspired Silicification of Silica-Binding Peptide-Silk Protein Chimeras: Comparison of Chemically and Genetically Produced Proteins. <i>Biomacromolecules</i> , 2012, 13, 683-690.	5.4	39
53	Enzyme conjugation and biosensing with quantum dots: A photoluminescence study. , 2012, , .		0
54	An overview of the fundamentals of the chemistry of silica with relevance to biosilicification and technological advances. <i>FEBS Journal</i> , 2012, 279, 1710-1720.	4.7	233

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55	Optimization of the structural parameters of new potentiometric pH and urea sensors based on polyaniline and a polysaccharide coupling layer. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 794-801.	7.8	19
56	Direct evidence of ZnO morphology modification via the selective adsorption of ZnO-binding peptides. <i>Journal of Materials Chemistry</i> , 2011, 21, 80-89.	6.7	63
57	Urea potentiometric enzymatic biosensor based on charged biopolymers and electrodeposited polyaniline. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4139-4145.	10.1	88
58	Genetically Engineered Chimeric Silk-Silver Binding Proteins. <i>Advanced Functional Materials</i> , 2011, 21, 2889-2895.	14.9	56
59	A Solution Study of Silica Condensation and Speciation with Relevance to in Vitro Investigations of Biosilicification. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9947-9955.	2.6	66
60	From biominerals to biomaterials: the role of biomolecule-mineral interactions. <i>Biochemical Society Transactions</i> , 2009, 37, 687-691.	3.4	24
61	Interactions of aluminium hydrolytic species with biomolecules. <i>New Journal of Chemistry</i> , 2008, 32, 1346.	2.8	22
62	Interactions of Bovine Serum Albumin with Aluminum Polyoxocations and Aluminum Hydroxide. <i>Langmuir</i> , 2006, 22, 10078-10088.	3.5	37
63	The static anion exchange method for generation of high purity aluminium polyoxocations and monodisperse aluminium hydroxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2005, 15, 3415.	6.7	25
64	High-Temperature Speciation Studies of Al-Ion Hydrolysis. <i>Advanced Engineering Materials</i> , 2004, 6, 836-839.	3.5	31