

# Joel Chopineau

## List of Publications by Year in descending order

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74  
papers

2,108  
citations

257450

24  
h-index

243625

44  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protease-catalyzed regioselective esterification of sugars and related compounds in anhydrous dimethylformamide. <i>Journal of the American Chemical Society</i> , 1988, 110, 584-589.	13.7	469
2	Production of biosurfactants from sugar alcohols and vegetable oils catalyzed by lipases in a nonaqueous medium. <i>Biotechnology and Bioengineering</i> , 1988, 31, 208-214.	3.3	146
3	Biomimetic tethered lipid membranes designed for membrane-protein interaction studies. <i>European Biophysics Journal</i> , 2007, 36, 955-965.	2.2	111
4	The relevance of membrane models to understand nanoparticles' cell membrane interactions. <i>Nanoscale</i> , 2016, 8, 4780-4798.	5.6	101
5	Post-production modifications of murine mesenchymal stem cell (mMSC) derived extracellular vesicles (EVs) and impact on their cellular interaction. <i>Biomaterials</i> , 2020, 231, 119675.	11.4	59
6	Differential Mechanisms for Calcium-Dependent Protein/Membrane Association as Evidenced from SPR-Binding Studies on Supported Biomimetic Membranes. <i>Biochemistry</i> , 2003, 42, 15273-15283.	2.5	57
7	The timeline of corona formation around silica nanocarriers highlights the role of the protein interactome. <i>Nanoscale</i> , 2017, 9, 1840-1851.	5.6	56
8	Glycogen synthase kinase 3-mediated voltage-dependent anion channel phosphorylation controls outer mitochondrial membrane permeability during lipid accumulation. <i>Hepatology</i> , 2013, 57, 93-102.	7.3	55
9	Voltage-Dependent Anion Channel Transports Calcium Ions through Biomimetic Membranes. <i>Langmuir</i> , 2007, 23, 3898-3905.	3.5	52
10	SPR-based biosensors: a tool for biodetection of hormonal compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1215-1223.	3.7	52
11	Characterization of a Membrane-active Peptide from the <i>Bordetella pertussis</i> CyaA Toxin. <i>Journal of Biological Chemistry</i> , 2013, 288, 32585-32598.	3.4	48
12	<i>Bordetella pertussis</i> adenylate cyclase toxin translocation across a tethered lipid bilayer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20473-20478.	7.1	45
13	Determination of estrogen presence in water by SPR using estrogen receptor dimerization. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 873-883.	3.7	43
14	Development of extracellular vesicle-based medicinal products: A position paper of the group "Extracellular Vesicle translation to clinical perspectives" EVOLVE France. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114001.	13.7	42
15	The species origin of the serum in the culture medium influences the in vitro toxicity of silica nanoparticles to HepG2 cells. <i>PLoS ONE</i> , 2017, 12, e0182906.	2.5	35
16	Experimental separation steps influence the protein content of corona around mesoporous silica nanoparticles. <i>Nanoscale</i> , 2017, 9, 5769-5772.	5.6	32
17	Monoacylation of ribonuclease A enables its transport across an in vitro model of the blood-brain barrier. <i>Journal of Controlled Release</i> , 1998, 56, 231-237.	9.9	31
18	Inspired and stabilized by nature: ribosomal synthesis of the human voltage gated ion channel (VDAC) into 2D-protein-tethered lipid interfaces. <i>Biomaterials Science</i> , 2015, 3, 1406-1413.	5.4	28

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19	Synthesis, decoration, and cellular effects of magnetic mesoporous silica nanoparticles. RSC Advances, 2016, 6, 57275-57283.	3.6	28
20	ANT-VDAC1 interaction is direct and depends on ANT isoform conformation in vitro. Biochemical and Biophysical Research Communications, 2012, 429, 12-17.	2.1	27
21	Ca <sup>2+</sup> -Myristoyl Switch and Membrane Binding of Chemically Acylated Neurocalcins. Biochemistry, 2001, 40, 8152-8160.	2.5	26
22	Phase Behavior of Mixed Aqueous Dispersions of Dipalmitoylphosphatidylcholine and Dodecyl Glycosides: A Differential Scanning Calorimetry and X-ray Diffraction Investigation. Langmuir, 2002, 18, 325-335.	3.5	26
23	Phase Behavior of Mixed Aqueous Dispersions of DPPC and Dodecyl Glycosides: Aggregation States Implicated in the Micelle-to-Vesicle Transition. Langmuir, 1998, 14, 3767-3777.	3.5	25
24	Surface Response Methodology for the Study of Supported Membrane Formation. Journal of Physical Chemistry B, 2007, 111, 7567-7576.	2.6	24
25	Biocompatibility assessment of functionalized magnetic mesoporous silica nanoparticles in human HepaRG cells. Nanotoxicology, 2017, 11, 871-890.	3.0	23
26	Biological Fate of Fe <sub>3</sub> O <sub>4</sub> Core-Shell Mesoporous Silica Nanoparticles Depending on Particle Surface Chemistry. Nanomaterials, 2017, 7, 162.	4.1	23
27	Cross-Linked Castor Oil-Based Hybrid Microparticles as Drug Delivery Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 4311-4319.	6.7	22
28	Interest of extracellular vesicles in regards to lipid nanoparticle based systems for intracellular protein delivery. Advanced Drug Delivery Reviews, 2021, 176, 113837.	13.7	22
29	Fatty Acid Acylation of RNase A Using Reversed Micelles as Microreactors. Biochemical and Biophysical Research Communications, 1993, 196, 447-454.	2.1	21
30	Nanotechnology: R & D challenges and opportunities for application in biotechnology. Trends in Biotechnology, 1995, 13, 474-481.	9.3	21
31	Nanoheterostructures based on nanosized Prussian blue and its Analogues: Design, properties and applications. Coordination Chemistry Reviews, 2022, 461, 214497.	18.8	21
32	The Adenine Nucleotide Translocase 2, a Mitochondrial Target for Anticancer Biotherapy. Current Drug Targets, 2011, 12, 894-901.	2.1	20
33	One Step Synthesis of Gold-Loaded Radial Mesoporous Silica Nanospheres and Supported Lipid Bilayer Functionalization: Towards Bio-Multifunctional Sensors. Small, 2012, 8, 3674-3682.	10.0	19
34	Enzymatic Electrocatalysis in a Micellar Environment: Glucose Oxidase Catalysis Mediated by Ferrocene Solubilized by Addition of n-Octyl-β-D-glucoside. The Journal of Physical Chemistry, 1996, 100, 5063-5069.	2.9	18
35	Isolation and characterization of a new Bacillus thuringiensis strain Lip harboring a new cry1Aa gene highly toxic to Ephestia kuehniella (Lepidoptera: Pyralidae) larvae. Archives of Microbiology, 2014, 196, 435-444.	2.2	18
36	Dynamic interactions between enzyme activity and the microstructured environment. FEBS Journal, 1989, 183, 459-463.	0.2	16

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37	Biosafety of Mesoporous Silica Nanoparticles. <i>Biomimetics</i> , 2018, 3, 22.	3.3	16
38	Vesicle Formation by Enzymic Processes. <i>Journal of the American Chemical Society</i> , 1994, 116, 11582-11583.	13.7	15
39	Nanotechnologies for Intracellular Protein Delivery: Recent Progress in Inorganic and Organic Nanocarriers. <i>Advanced Therapeutics</i> , 2021, 4, 2100009.	3.2	15
40	Synthesis and characterization of tethered lipid assemblies for membrane protein reconstitution (Review). <i>Biointerphases</i> , 2017, 12, 04E301.	1.6	14
41	Self-evolving microstructured systems upon enzymatic catalysis. <i>Biochimie</i> , 1998, 80, 421-435.	2.6	13
42	<sup>201</sup> Tl-labeled Prussian blue and Au@Prussian blue nanoprobe for SPEC-CT imaging: influence of the size, shape and coating on the biodistribution. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1737-1741.	6.0	12
43	Translocation and calmodulin-activation of the adenylate cyclase toxin (CyaA) of <i>Bordetella pertussis</i> . <i>Pathogens and Disease</i> , 2018, 76, .	2.0	11
44	A Tethered Bilayer Assembled on Top of Immobilized Calmodulin to Mimic Cellular Compartmentalization. <i>PLoS ONE</i> , 2011, 6, e19101.	2.5	11
45	Enzyme-Mediated Formation of Vesicles from DPPC~Dodecyl Maltoside Mixed Micelles. <i>Journal of the American Chemical Society</i> , 1998, 120, 10588-10595.	13.7	10
46	Exploring the Membrane Mechanism of the Bioactive Peptaibol Ampullosporin A Using Lipid Monolayers and Supported Biomimetic Membranes. <i>Journal of Biophysics</i> , 2010, 2010, 1-12.	0.8	10
47	Kinetics of Interaction between ADP-ribosylation Factor-1 (Arf1) and the Sec7 Domain of Arno Guanine Nucleotide Exchange Factor, Modulation by Allosteric Factors, and the Uncompetitive Inhibitor Brefeldin A. <i>Journal of Biological Chemistry</i> , 2013, 288, 4659-4672.	3.4	10
48	Synergic effect of doxorubicin release and two-photon irradiation of Mn <sup>2+</sup> -doped Prussian blue nanoparticles on cancer therapy. <i>RSC Advances</i> , 2020, 10, 2646-2649.	3.6	10
49	Enzyme-microenvironment dynamic interactions in microstructured media. <i>Pure and Applied Chemistry</i> , 1992, 64, 1757-1763.	1.9	9
50	Characterization and Whole Genome Sequencing of AR23, a Highly Toxic <i>Bacillus thuringiensis</i> Strain Isolated from Lebanese Soil. <i>Current Microbiology</i> , 2019, 76, 1503-1511.	2.2	9
51	Crystallization of monoacylated proteins: influence of acyl chain length. <i>European Biophysics Journal</i> , 1997, 26, 155-162.	2.2	8
52	Study of hydrophobic interactions between acylated proteins and phospholipid bilayers using BIACORE. <i>Journal of Molecular Recognition</i> , 2001, 14, 72-78.	2.1	8
53	Tunable vegetable oil/silica hybrid microparticles for poorly water-soluble drug delivery. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118478.	5.2	8
54	Vegetable oil hybrid films cross-linked at the air-water interface: formation kinetics and physical characterization. <i>Soft Matter</i> , 2017, 13, 4569-4579.	2.7	7

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55	Optimization of RNase A Artificial Hydrophobization in AOT Reversed Micelles. <i>Annals of the New York Academy of Sciences</i> , 1995, 750, 121-124.	3.8	6
56	Rapid communication: insights into the role of extracellular vesicles during Auger radioimmunotherapy. <i>International Journal of Radiation Biology</i> , 2023, 99, 109-118.	1.8	6
57	A rational study of the influence of Mn <sup>2+</sup> -insertion in Prussian blue nanoparticles on their photothermal properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9670-9683.	5.8	6
58	Impact of biochemical design on estrogen receptor/estrogen response element interaction by surface plasmon resonance technology. <i>Archives of Biochemistry and Biophysics</i> , 2014, 541, 61-66.	3.0	5
59	A simple approach for controlled deposition of Prussian blue analogue nanoparticles on a functionalised plasmonic gold surface. <i>New Journal of Chemistry</i> , 2019, 43, 3660-3664.	2.8	5
60	Enzyme activity in self-evolving microenvironment. Differential microcalorimetry, UV spectrophotometry, HPLC and X-ray scattering studies. <i>Thermochimica Acta</i> , 1992, 204, 35-43.	2.7	4
61	Estrogen receptor preparation effects on the receptor-DNA interaction by surface plasmon resonance. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8257-8262.	3.7	4
62	Vegetable oil-based hybrid microparticles as a green and biocompatible system for subcutaneous drug delivery. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120070.	5.2	4
63	Physico-chemical properties and surface characterization of renewable hybrid nanofilms interacting with model proteins. <i>European Polymer Journal</i> , 2019, 111, 161-169.	5.4	3
64	Physicochemical characterization and in vitro interaction with brain capillary endothelial cells of artificially monoacylated ribonucleases A. <i>International Journal of Peptide Research and Therapeutics</i> , 1997, 4, 313-321.	0.1	2
65	A Novel Approach to the Facile Growth and Organization of Photothermal Prussian Blue Nanocrystals on Different Surfaces. <i>Nanomaterials</i> , 2021, 11, 1749.	4.1	2
66	Enzyme Activity in Microstructured Media. <i>Annals of the New York Academy of Sciences</i> , 1992, 672, 566-572.	3.8	2
67	Reversed Micelles as Microreactors: N-terminal Acylation of RNase A and its Characterization. , 2000, , 160-173.		1
68	Enzyme Activity in Microstructured Media. <i>Annals of the New York Academy of Sciences</i> , 1992, 672, 566-572.	3.8	0
69	21. Voltage- and calcium-dependent translocation of <i>Bordetella pertussis</i> adenylate cyclase (CyaA) toxin across a tethered lipid bilayer. <i>Toxicon</i> , 2014, 91, 173.	1.6	0
70	Biosensing Properties of Au Loaded Mesoporous Silica Nanospheres Coated with Lipid Bilayers. <i>Biophysical Journal</i> , 2014, 106, 415a.	0.5	0
71	Voltage- and Calcium-Dependent Toxin Translocation Across a Tethered Lipid Bilayer. <i>Biophysical Journal</i> , 2014, 106, 18a.	0.5	0
72	Deciphering Protein Membrane Interactions Involved in the Translocation Process of a Bacterial Toxin, the Adenylate Cyclase (CyaA) Toxin from <i>B. Pertussis</i> . <i>Biophysical Journal</i> , 2015, 108, 497a.	0.5	0

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73	Critical parameters in surface plasmon resonance biosensor development: The interaction between estrogen receptor and estrogen response element as model. <i>Biochimie</i> , 2020, 171-172, 12-20.	2.6	0
74	Enzyme Kinetics in a Self Evolving Microstructured Medium. <i>Progress in Biotechnology</i> , 1992, 8, 211-212.	0.2	0