

# Jean-Luc Guerquin-Kern

## List of Publications by Year in descending order

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62  
papers

4,495  
citations

159358

30  
h-index

118652

62  
g-index

64  
all docs

64  
docs citations

64  
times ranked

8676  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mammalian heart renewal by pre-existing cardiomyocytes. <i>Nature</i> , 2013, 493, 433-436.	13.7	1,182
2	Study of the localization of iron, ferritin, and hemosiderin in Alzheimer's disease hippocampus by analytical microscopy at the subcellular level. <i>Journal of Structural Biology</i> , 2006, 153, 42-54.	1.3	263
3	Progress in analytical imaging of the cell by dynamic secondary ion mass spectrometry (SIMS) <i>TJ ETQq1 1 0.784314 rrgBT /Overlock 10 Tf 50 227 Td (a</i>	1.1	226
4	No Evidence for Cardiomyocyte Number Expansion in Preadolescent Mice. <i>Cell</i> , 2015, 163, 1026-1036.	13.5	204
5	Simultaneous analysis of microbial identity and function using NanoSIMS. <i>Environmental Microbiology</i> , 2008, 10, 580-588.	1.8	187
6	Carbon-flux distribution in the central metabolic pathways of <i>Corynebacterium glutamicum</i> during growth on fructose. <i>FEBS Journal</i> , 1998, 254, 96-102.	0.2	156
7	<i>Mycobacterium tuberculosis</i> Exploits Asparagine to Assimilate Nitrogen and Resist Acid Stress during Infection. <i>PLoS Pathogens</i> , 2014, 10, e1003928.	2.1	148
8	Free mRNA in excess upon polysome dissociation is a scaffold for protein multimerization to form stress granules. <i>Nucleic Acids Research</i> , 2014, 42, 8678-8691.	6.5	146
9	Exercise induces new cardiomyocyte generation in the adult mammalian heart. <i>Nature Communications</i> , 2018, 9, 1659.	5.8	134
10	Glycoconjugated tetrapyrrolic macrocycles. <i>Journal of the American Chemical Society</i> , 1989, 111, 9125-9127.	6.6	115
11	Members of the uncultured bacterial candidate division <i>WWE</i> are implicated in anaerobic digestion of cellulose. <i>MicrobiologyOpen</i> , 2014, 3, 157-167.	1.2	114
12	Microchemical imaging of iodine distribution in the brown alga <i>Laminaria digitata</i> suggests a new mechanism for its accumulation. <i>Journal of Biological Inorganic Chemistry</i> , 2008, 13, 257-269.	1.1	100
13	<i>Mycobacterium tuberculosis</i> nitrogen assimilation and host colonization require aspartate. <i>Nature Chemical Biology</i> , 2013, 9, 674-676.	3.9	95
14	Glycoconjugated Porphyrins. 3. Synthesis of Flat Amphiphilic Mixed meso-(Glycosylated) Disaccharide Groups. <i>Journal of Organic Chemistry</i> , 1995, 60, 1554-1564.	1.7	93
15	HO <sub>2</sub> -mediated macroautophagy: a mechanism for unregulated iron deposition in aging and degenerating neural tissues. <i>Journal of Neurochemistry</i> , 2009, 109, 776-791.	2.1	87
16	<i>Desulfovibrio magneticus</i> RS-1 contains an iron- and phosphorus-rich organelle distinct from its bullet-shaped magnetosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12263-12268.	3.3	74
17	Gigantism in unique biogenic magnetite at the Paleocene-Eocene Thermal Maximum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17648-17653.	3.3	69
18	Mammalian cells loaded with platinum-containing molecules are sensitized to fast atomic ions. <i>International Journal of Radiation Biology</i> , 2008, 84, 603-611.	1.0	68

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19	Glycoconjugated porphyrins. 2. Synthesis of sterically constrained polyglycosylated compounds derived from tetraphenylporphyrins. <i>Journal of Organic Chemistry</i> , 1993, 58, 2774-2780.	1.7	62
20	Use of phosphate to avoid uranium toxicity in <i>Arabidopsis thaliana</i> leads to alterations of morphological and physiological responses regulated by phosphate availability. <i>Environmental and Experimental Botany</i> , 2009, 67, 353-362.	2.0	62
21	Morphological and chemical studies of pathological human and mice brain at the subcellular level: Correlation between light, electron, and nanosims microscopies. <i>Microscopy Research and Technique</i> , 2007, 70, 281-295.	1.2	55
22	Overview of chemical imaging methods to address biological questions. <i>Micron</i> , 2016, 84, 23-36.	1.1	54
23	Intracellular precipitation of hydroxyapatite mineral and implications for pathologic calcification. <i>Journal of Structural Biology</i> , 2008, 162, 468-479.	1.3	52
24	Catalytic properties of iron and manganese glycoconjugated porphyrins.. <i>Tetrahedron Letters</i> , 1991, 32, 4901-4904.	0.7	51
25	Cyanobacterial diversity and activity in modern conical microbialites. <i>Geobiology</i> , 2012, 10, 384-401.	1.1	51
26	Aceruloplasminemia. <i>JAMA Ophthalmology</i> , 2011, 129, 1466.	2.6	50
27	Unregulated brain iron deposition in transgenic mice overexpressing <i>HMOX1</i> in the astrocytic compartment. <i>Journal of Neurochemistry</i> , 2012, 123, 325-336.	2.1	47
28	Targeted radionuclide therapy of melanoma: Antitumoural efficacy studies of a new <sup>131</sup> I labelled potential agent. <i>International Journal of Cancer</i> , 2009, 125, 708-716.	2.3	44
29	In vitro phototoxicity of glycoconjugated porphyrins and chlorins in colorectal adenocarcinoma (HT29) and retinoblastoma (Y79) cell lines. <i>Photodiagnosis and Photodynamic Therapy</i> , 2007, 4, 261-268.	1.3	42
30	Multimodal Imaging Study of Gadolinium Presence in Rat Cerebellum. <i>Investigative Radiology</i> , 2018, 53, 518-528.	3.5	33
31	Reaction-diffusion model of nutrient uptake in a biofilm: Theory and experiment. <i>Journal of Theoretical Biology</i> , 2011, 289, 90-95.	0.8	32
32	Iron Sources Used by the Nonpathogenic Lactic Acid Bacterium <i>Lactobacillus sakei</i> as Revealed by Electron Energy Loss Spectroscopy and Secondary-Ion Mass Spectrometry. <i>Applied and Environmental Microbiology</i> , 2010, 76, 560-565.	1.4	30
33	<sup>13</sup> C-NMR Studies of <i>Corynebacterium melassecola</i> Metabolic Pathways. <i>FEBS Journal</i> , 1995, 227, 488-493.	0.2	29
34	Direct in vivo observation of 5-fluorouracil release from a prodrug in human tumors heterotransplanted in nude mice: a magnetic resonance study. <i>NMR in Biomedicine</i> , 2000, 13, 306-310.	1.6	25
35	Sub-cellular localisation of a <sup>15</sup> N-labelled peptide vector using NanoSIMS imaging. <i>Applied Surface Science</i> , 2006, 252, 6925-6930.	3.1	25
36	Intracerebral delivery of 5-iodo-2-deoxyuridine in combination with synchrotron stereotactic radiation for the therapy of the F98 glioma. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 573-581.	1.0	24

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37	Active microwave tomographic imaging of isolated, perfused animal organs. <i>Bioelectromagnetics</i> , 1985, 6, 145-156.	0.9	21
38	Direct visualization of intracellular calcium in rat osteoblasts by energy-filtering transmission electron microscopy. <i>Histochemistry and Cell Biology</i> , 2004, 121, 31-38.	0.8	19
39	Evaluation of new iodinated acridine derivatives for targeted radionuclide therapy of melanoma using <sup>125</sup> I, an Auger electron emitter. <i>Investigational New Drugs</i> , 2011, 29, 1253-1263.	1.2	19
40	Anti-inflammatory activity of superoxide dismutase mimics functionalized with cell-penetrating peptides. <i>Dalton Transactions</i> , 2020, 49, 2323-2330.	1.6	17
41	Isotopic tracing reveals single-cell assimilation of a macroalgal polysaccharide by a few marine Flavobacteria and Gammaproteobacteria. <i>ISME Journal</i> , 2021, 15, 3062-3075.	4.4	16
42	Quantifying nanotherapeutic penetration using a hydrogel-based microsystem as a new 3D <i>in vitro</i> platform. <i>Lab on A Chip</i> , 2021, 21, 2495-2510.	3.1	15
43	Complementary advantages of fluorescence and SIMS microscopies in the study of cellular localization of two new antitumor drugs. , 1997, 36, 287-295.		14
44	Simultaneous Hydrogen and Heavier Element Isotopic Ratio Images with a Scanning Submicron Ion Probe and Mass Resolved Polyatomic Ions. <i>Microscopy and Microanalysis</i> , 2014, 20, 577-581.	0.2	14
45	Theranostic Approach for Metastatic Pigmented Melanoma Using ICF15002, a Multimodal Radiotracer for Both PET Imaging and Targeted Radionuclide Therapy. <i>Neoplasia</i> , 2017, 19, 17-27.	2.3	14
46	Cyanophycin Mediates the Accumulation and Storage of Fixed Carbon in Non-Heterocystous Filamentous Cyanobacteria from Coniform Mats. <i>PLoS ONE</i> , 2014, 9, e88142.	1.1	13
47	Melanoma affinity in mice and immunosuppressed sheep of [ <sup>125</sup> I]N-(4-dipropylaminobutyl)-4-iodobenzamide, a new targeting agent. <i>Nuclear Medicine and Biology</i> , 2008, 35, 783-791.	0.3	12
48	Evaluation of two <sup>125</sup> I-radiolabeled acridine derivatives for Auger-electron radionuclide therapy of melanoma. <i>Investigational New Drugs</i> , 2014, 32, 587-597.	1.2	12
49	Design, synthesis, biological evaluation and cellular imaging of imidazo[4,5-b]pyridine derivatives as potent and selective TAM inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5510-5530.	1.4	11
50	Human leg heating using a mini-annular phased array. <i>Medical Physics</i> , 1986, 13, 449-456.	1.6	9
51	Follow-up by <sup>31</sup> P NMR spectroscopy of the energy metabolism of malignant tumor in rats during treatment. <i>Radiotherapy and Oncology</i> , 1991, 21, 48-52.	0.3	9
52	Experimental characterization of helical coils as hyperthermia applicators. <i>IEEE Transactions on Biomedical Engineering</i> , 1988, 35, 46-51.	2.5	8
53	A New <sup>6</sup> -Alkylguanine-DNA Alkyltransferase Inhibitor Associated with a Nitrosourea (Cystemustine) Validates a Strategy of Melanoma-Targeted Therapy in Murine B16 and Human-Resistant M4Beu Melanoma Xenograft Models. <i>Journal of Pharmacology and Experimental Therapeutics</i> . 2008. 326. 171-177.	1.3	7
54	Unusual cellular uptake of cytotoxic 4-hydroxymethyl-3-aminoacridine. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 4758-4763.	2.6	7

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55	SIMSISH Technique Does Not Alter the Apparent Isotopic Composition of Bacterial Cells. PLoS ONE, 2013, 8, e77522.	1.1	7
56	Energy deposition patterns in an amputated human lower leg heated with a miniannular phased array. Medical Physics, 1988, 15, 17-23.	1.6	6
57	Experimental characterization of the miniannular phased array as a hyperthermia applicator. Medical Physics, 1987, 14, 674-680.	1.6	4
58	Hydrogen isotopic fractionation in secondary ion mass spectrometry using polyatomic ions. International Journal of Mass Spectrometry, 2015, 393, 17-24.	0.7	4
59	Dynamic transfer applied to secondary ion imaging over large scanned fields with the nanoSIMS 50 at high mass resolution. Nuclear Instruments & Methods in Physics Research B, 2017, 412, 123-173.	0.6	2
60	A man who brought the war home with him. Lancet, The, 2008, 372, 1926.	6.3	1
61	Focussing of a transient low energy Cs+probe for improved NanoSIMS characterizations. EPJ Applied Physics, 2008, 42, 311-319.	0.3	1
62	Did he really bring the war home with him? â€œ Authors' reply. Lancet, The, 2009, 373, 543.	6.3	0