

Jean-Luc Guerquin-Kern

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,588

citations

29

h-index

59

g-index

64

ext. papers

4,151

ext. citations

7.7

avg, IF

4.67

L-index

#	Paper	IF	Citations
62	Mammalian heart renewal by pre-existing cardiomyocytes. <i>Nature</i> , 2013 , 493, 433-6	50.4	918
61	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	3.4	226
60	Progress in analytical imaging of the cell by dynamic secondary ion mass spectrometry (SIMS microscopy). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005 , 1724, 228-38	4	200
59	Simultaneous analysis of microbial identity and function using NanoSIMS. <i>Environmental Microbiology</i> , 2008 , 10, 580-8	5.2	166
58	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		142
57	No Evidence for Cardiomyocyte Number Expansion in Preadolescent Mice. <i>Cell</i> , 2015 , 163, 1026-36	56.2	137
56	Glycoconjugated tetrapyrrolic macrocycles. <i>Journal of the American Chemical Society</i> , 1989 , 111, 9125-9126	26.4	107
55	Mycobacterium tuberculosis exploits asparagine to assimilate nitrogen and resist acid stress during infection. <i>PLoS Pathogens</i> , 2014 , 10, e1003928	7.6	102
54	Free mRNA in excess upon polysome dissociation is a scaffold for protein multimerization to form stress granules. <i>Nucleic Acids Research</i> , 2014 , 42, 8678-91	20.1	95
53	Glycoconjugated Porphyrins. 3. Synthesis of Flat Amphiphilic Mixed meso-(Glycosylated aryl)arylporphyrins and Mixed meso-(Glycosylated aryl)alkylporphyrins Bearing Some Mono- and Disaccharide Groups. <i>Journal of Organic Chemistry</i> , 1995 , 60, 1554-1564	4.2	88
52	Members of the uncultured bacterial candidate division WWE1 are implicated in anaerobic digestion of cellulose. <i>MicrobiologyOpen</i> , 2014 , 3, 157-67	3.4	84
51	Exercise induces new cardiomyocyte generation in the adult mammalian heart. <i>Nature Communications</i> , 2018 , 9, 1659	17.4	83
50	HO-1-mediated macroautophagy: a mechanism for unregulated iron deposition in aging and degenerating neural tissues. <i>Journal of Neurochemistry</i> , 2009 , 109, 776-91	6	79
49	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, 257-69	3.7	76
48	<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, 12263-8	11.5	66
47	Mycobacterium tuberculosis nitrogen assimilation and host colonization require aspartate. <i>Nature Chemical Biology</i> , 2013 , 9, 674-6	11.7	63
46	Mammalian cells loaded with platinum-containing molecules are sensitized to fast atomic ions. <i>International Journal of Radiation Biology</i> , 2008 , 84, 603-11	2.9	60

45	Glycoconjugated porphyrins. 2. Synthesis of sterically constrained polyglycosylated compounds derived from tetraphenylporphyrins. <i>Journal of Organic Chemistry</i> , 1993 , 58, 2774-2780	4.2	57
44	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, 17648-53	11.5	56
43	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	5.9	51
42	Intracellular precipitation of hydroxyapatite mineral and implications for pathologic calcification. <i>Journal of Structural Biology</i> , 2008 , 162, 468-79	3.4	51
41	Cyanobacterial diversity and activity in modern conical microbialites. <i>Geobiology</i> , 2012 , 10, 384-401	4.3	42
40	Targeted radionuclide therapy of melanoma: anti-tumoural efficacy studies of a new ¹³¹ I labelled potential agent. <i>International Journal of Cancer</i> , 2009 , 125, 708-16	7.5	41
39	Aceruloplasminemia: retinal histopathologic manifestations and iron-mediated melanosome degradation. <i>JAMA Ophthalmology</i> , 2011 , 129, 1466-74		41
38	Catalytic properties of iron and manganese glycoconjugated porphyrins.. <i>Tetrahedron Letters</i> , 1991 , 32, 4901-4904	2	41
37	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, 261-8	3.5	40
36	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, 281-95	2.8	39
35	Overview of chemical imaging methods to address biological questions. <i>Micron</i> , 2016 , 84, 23-36	2.3	38
34	Unregulated brain iron deposition in transgenic mice over-expressing HMOX1 in the astrocytic compartment. <i>Journal of Neurochemistry</i> , 2012 , 123, 325-36	6	38
33	Multimodal Imaging Study of Gadolinium Presence in Rat Cerebellum: Differences Between Gd Chelates, Presence in the Virchow-Robin Space, Association With Lipofuscin, and Hypotheses About Distribution Pathway. <i>Investigative Radiology</i> , 2018 , 53, 518-528	10.1	26
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, 560-5	4.8	25
31	¹³ C-NMR studies of <i>Corynebacterium melassecola</i> metabolic pathways. <i>FEBS Journal</i> , 1995 , 227, 488-93		25
30	Reaction-diffusion model of nutrient uptake in a biofilm: theory and experiment. <i>Journal of Theoretical Biology</i> , 2011 , 289, 90-5	2.3	23
29	Sub-cellular localisation of a ¹⁵ N-labelled peptide vector using NanoSIMS imaging. <i>Applied Surface Science</i> , 2006 , 252, 6925-6930	6.7	23
28	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, 306-10	4.4	23

27	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, 573-81	2.4	20
26	Evaluation of new iodinated acridine derivatives for targeted radionuclide therapy of melanoma using ¹²⁵ I, an Auger electron emitter. <i>Investigational New Drugs</i> , 2011 , 29, 1253-63	4.3	18
25	Direct visualization of intracellular calcium in rat osteoblasts by energy-filtering transmission electron microscopy. <i>Histochemistry and Cell Biology</i> , 2004 , 121, 31-8	2.4	17
24	Active microwave tomographic imaging of isolated, perfused animal organs. <i>Bioelectromagnetics</i> , 1985 , 6, 145-56	1.6	15
23	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, 577-81	0.5	13
22	Complementary advantages of fluorescence and SIMS microscopies in the study of cellular localization of two new antitumor drugs. <i>Microscopy Research and Technique</i> , 1997 , 36, 287-95	2.8	13
21	Melanoma affinity in mice and immunosuppressed sheep of [(¹²⁵ I)N-(4-dipropylaminobutyl)-4-iodobenzamide, a new targeting agent. <i>Nuclear Medicine and Biology</i> , 2008 , 35, 783-91	2.1	12
20	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	6.4	11
19	Evaluation of two (¹²⁵ I)-radiolabeled acridine derivatives for Auger-electron radionuclide therapy of melanoma. <i>Investigational New Drugs</i> , 2014 , 32, 587-97	4.3	9
18	Follow-up by ³¹ P NMR spectroscopy of the energy metabolism of malignant tumor in rats during treatment. <i>Radiotherapy and Oncology</i> , 1991 , 21, 48-52	5.3	9
17	Human leg heating using a mini-annular phased array. <i>Medical Physics</i> , 1986 , 13, 449-56	4.4	9
16	Cyanophycin mediates the accumulation and storage of fixed carbon in non-heterocystous filamentous cyanobacteria from coniform mats. <i>PLoS ONE</i> , 2014 , 9, e88142	3.7	8
15	Experimental characterization of helical coils as hyperthermia applicators. <i>IEEE Transactions on Biomedical Engineering</i> , 1988 , 35, 46-52	5	8
14	Unusual cellular uptake of cytotoxic 4-hydroxymethyl-3-aminoacridine. <i>European Journal of Medicinal Chemistry</i> , 2009 , 44, 4758-63	6.8	7
13	A new O6-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, 171-7	4.7	7
12	SIMSISH technique does not alter the apparent isotopic composition of bacterial cells. <i>PLoS ONE</i> , 2013 , 8, e77522	3.7	6
11	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	3.4	6
10	Energy deposition patterns in an amputated human lower leg heated with a miniannular phased array. <i>Medical Physics</i> , 1988 , 15, 17-23	4.4	5

9	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	11.9	5
8	Anti-inflammatory activity of superoxide dismutase mimics functionalized with cell-penetrating peptides. <i>Dalton Transactions</i> , 2020 , 49, 2323-2330	4.3	4
7	Experimental characterization of the miniannular phased array as a hyperthermia applicator. <i>Medical Physics</i> , 1987 , 14, 674-80	4.4	4
6	Hydrogen isotopic fractionation in secondary ion mass spectrometry using polyatomic ions. <i>International Journal of Mass Spectrometry</i> , 2015 , 393, 17-24	1.9	3
5	Quantifying nanotherapeutic penetration using a hydrogel-based microsystem as a new 3D platform. <i>Lab on A Chip</i> , 2021 , 21, 2495-2510	7.2	2
4	Dynamic transfer applied to secondary ion imaging over large scanned fields with the nanoSIMS 50 at high mass resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 412, 123-173	1.2	1
3	A man who brought the war home with him. <i>Lancet, The</i> , 2008 , 372, 1926	4.0	1
2	Focussing of a transient low energy Cs+probe for improved NanoSIMS characterizations. <i>EPJ Applied Physics</i> , 2008 , 42, 311-319	1.1	1
1	Did he really bring the war home with him? [Authors]reply. <i>Lancet, The</i> , 2009 , 373, 543	4.0	