Cyrill Bussy

List of Publications by Year in Descending Order

66 papers	2,526 citations	30 h-index	49 g-index
72 ext. papers	2,899 ext. citations	8.8 avg, IF	4.95 L-index

#	Paper	IF	Citations
66	Innate but Not Adaptive Immunity Regulates Lung Recovery from Chronic Exposure to Graphene Oxide Nanosheets.. *Advanced Science*, **2022**, e2104559	13.6	1
65	Therapeutic Approaches for Stroke: A Biomaterials Perspective **2022**, 185-218		
64	Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. *Journal of Hazardous Materials*, **2022**, 435, 129053	12.8	2
63	Deep Tissue Translocation of Graphene Oxide Sheets in Human Glioblastoma 3D Spheroids and an Orthotopic Xenograft Model. *Advanced Therapeutics*, **2021**, 4, 2000109	4.9	5
62	Dynamic interactions and intracellular fate of label-free, thin graphene oxide sheets within mammalian cells: role of lateral sheet size. *Nanoscale Advances*, **2021**, 3, 4166-4185	5.1	4
61	Adsorption of P103 Nanoaggregates on Graphene Oxide Nanosheets: Role of Electrostatic Forces in Improving Nanosheet Dispersion. *Langmuir*, **2021**, 37, 867-873	4	7
60	The impact of graphene oxide sheet lateral dimensions on their pharmacokinetic and tissue distribution profiles in mice. *Journal of Controlled Release*, **2021**, 338, 330-340	11.7	3
59	Intracerebral Injection of Graphene Oxide Nanosheets Mitigates Microglial Activation Without Inducing Acute Neurotoxicity: A Pilot Comparison to Other Nanomaterials. *Small*, **2020**, 16, e2004029	11	7
58	Size-Dependent Pulmonary Impact of Thin Graphene Oxide Sheets in Mice: Toward Safe-by-Design. *Advanced Science*, **2020**, 7, 1903200	13.6	19
57	Graphene oxide nanosheets modulate spinal glutamatergic transmission and modify locomotor behaviour in an in vivo zebrafish model. *Nanoscale Horizons*, **2020**, 5, 1250-1263	10.8	5
56	Next-Generation Sequencing Reveals Differential Responses to Acute versus Long-Term Exposures to Graphene Oxide in Human Lung Cells. *Small*, **2020**, 16, e1907686	11	10
55	Splenic Capture and Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. *ACS Nano*, **2020**, 14, 10168-10186	16.7	30
54	Nose-to-Brain Translocation and Cerebral Biodegradation of Thin Graphene Oxide Nanosheets. *Cell Reports Physical Science*, **2020**, 1, 100176	6.1	8
53	Biocompatibility Considerations in the Design of Graphene Biomedical Materials. *Advanced Materials Interfaces*, **2019**, 6, 1900229	4.6	36
52	3D Organotypic Spinal Cultures: Exploring Neuron and Neuroglia Responses Upon Prolonged Exposure to Graphene Oxide. *Frontiers in Systems Neuroscience*, **2019**, 13, 1	3.5	19
51	Graphene oxide as a 2D platform for complexation and intracellular delivery of siRNA. *Nanoscale*, **2019**, 11, 13863-13877	7.7	18
50	Assessing the Adverse Effects of Two-Dimensional Materials Using Cell Culture-Based Models **2019**, 1-46		1

49	Live Imaging of Label-Free Graphene Oxide Reveals Critical Factors Causing Oxidative-Stress-Mediated Cellular Responses. *ACS Nano*, **2018**, 12, 1373-1389	16.7	54
48	A blueprint for the synthesis and characterisation of thin graphene oxide with controlled lateral dimensions for biomedicine. *2D Materials*, **2018**, 5, 035020	5.9	46
47	Graphene-based papers as substrates for cell growth: Characterisation and impact on mammalian cells. *FlatChem*, **2018**, 12, 17-25	5.1	17
46	Immunological impact of graphene oxide sheets in the abdominal cavity is governed by surface reactivity. *Archives of Toxicology*, **2018**, 92, 3359-3379	5.8	17
45	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. *ACS Nano*, **2018**, 12, 10582-10620	16.7	292
44	Culture Media Critically Influence Graphene Oxide Effects on Plasma Membranes. *CheM*, **2017**, 2, 322-323	6.2	13
43	Primary microglia maintain their capacity to function despite internalisation and intracellular loading with carbon nanotubes. *Nanoscale Horizons*, **2017**, 2, 284-296	10.8	7
42	Direct visualization of carbon nanotube degradation in primary cells by photothermal imaging. *Nanoscale*, **2017**, 9, 4642-4645	7.7	23
41	Single-cell mass cytometry and transcriptome profiling reveal the impact of graphene on human immune cells. *Nature Communications*, **2017**, 8, 1109	17.4	83
40	Hypochlorite degrades 2D graphene oxide sheets faster than 1D oxidised carbon nanotubes and nanohorns. *Npj 2D Materials and Applications*, **2017**, 1,	8.8	19
39	Intracellular degradation of chemically functionalized carbon nanotubes using a long-term primary microglial culture model. *Nanoscale*, **2016**, 8, 590-601	7.7	44
38	Gadolinium-functionalised multi-walled carbon nanotubes as a T 1 contrast agent for MRI cell labelling and tracking. *Carbon*, **2016**, 97, 126-133	10.4	39
37	The Effects of Extensive Glomerular Filtration of Thin Graphene Oxide Sheets on Kidney Physiology. *ACS Nano*, **2016**, 10, 10753-10767	16.7	54
36	The current graphene safety landscape--a literature mining exercise. *Nanoscale*, **2015**, 7, 6432-5	7.7	41
35	The role of p53 in lung macrophages following exposure to a panel of manufactured nanomaterials. *Archives of Toxicology*, **2015**, 89, 1543-56	5.8	6
34	Microglia Determine Brain Region-Specific Neurotoxic Responses to Chemically Functionalized Carbon Nanotubes. *ACS Nano*, **2015**, 9, 7815-30	16.7	74
33	Biodegradation of carbon nanohorns in macrophage cells. *Nanoscale*, **2015**, 7, 2834-40	7.7	38
32	Peptide nanofiber complexes with siRNA for deep brain gene silencing by stereotactic neurosurgery. *ACS Nano*, **2015**, 9, 1137-49	16.7	33

31	Generation of induced pluripotent stem cells from virus-free in vivo reprogramming of BALB/c mouse liver cells. *Biomaterials*, **2014**, 35, 8312-20	15.6	11
30	Intracellular fate of carbon nanotubes inside murine macrophages: pH-dependent detachment of iron catalyst nanoparticles. *Particle and Fibre Toxicology*, **2013**, 10, 24	8.4	26
29	Hemotoxicity of carbon nanotubes. *Advanced Drug Delivery Reviews*, **2013**, 65, 2127-34	18.5	37
28	Safety considerations for graphene: lessons learnt from carbon nanotubes. *Accounts of Chemical Research*, **2013**, 46, 692-701	24.3	239
27	Peptide nanofibres as molecular transporters: from self-assembly to in vivo degradation. *Faraday Discussions*, **2013**, 166, 181-94	3.6	11
26	Design, engineering and structural integrity of electro-responsive carbon nanotube- based hydrogels for pulsatile drug release. *Journal of Materials Chemistry B*, **2013**, 1, 4593-4600	7.3	52
25	In vivo reprogramming of adult somatic cells to pluripotency by overexpression of Yamanaka factors. *Journal of Visualized Experiments*, **2013**, e50837	1.6	7
24	In vivo cell reprogramming towards pluripotency by virus-free overexpression of defined factors. *PLoS ONE*, **2013**, 8, e54754	3.7	34
23	Critical role of surface chemical modifications induced by length shortening on multi-walled carbon nanotubes-induced toxicity. *Particle and Fibre Toxicology*, **2012**, 9, 46	8.4	66
22	In vivo degradation of functionalized carbon nanotubes after stereotactic administration in the brain cortex. *Nanomedicine*, **2012**, 7, 1485-94	5.6	97
21	Therapeutic Applications **2012**, 285-313		4
20	Polyamine functionalized carbon nanotubes: synthesis, characterization, cytotoxicity and siRNA binding. *Journal of Materials Chemistry*, **2011**, 21, 4850		34
19	Coating carbon nanotubes with a polystyrene-based polymer protects against pulmonary toxicity. *Particle and Fibre Toxicology*, **2011**, 8, 3	8.4	64
18	Functional motor recovery from brain ischemic insult by carbon nanotube-mediated siRNA silencing. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10952-7	11.5	189
17	Adverse effects of industrial multiwalled carbon nanotubes on human pulmonary cells. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2009**, 72, 60-73	3.2	116
16	Pectins and Pectinases **2009**,		13
15	Enzymatically-tailored pectins differentially influence the morphology, adhesion, cell cycle progression and survival of fibroblasts. *Biochimica Et Biophysica Acta - General Subjects*, **2008**, 1780, 995-1003	4	26
14	Modulation of fibroblast behaviour by enzymatically-tailored pectins: PectiCoat. *Computer Methods in Biomechanics and Biomedical Engineering*, **2008**, 11, 171-172	2.1	1

13	Carbon nanotubes in macrophages: imaging and chemical analysis by X-ray fluorescence microscopy. *Nano Letters*, **2008**, 8, 2659-63	11.5	58
12	Modulating in vitro bone cell and macrophage behavior by immobilized enzymatically tailored pectins. *Journal of Biomedical Materials Research - Part A*, **2008**, 86, 597-606	5.4	30
11	Comparison of the effects of enriched uranium and 137-cesium on the behaviour of rats after chronic exposure. *International Journal of Radiation Biology*, **2007**, 83, 99-104	2.9	15
10	Heterogeneous accumulation of uranium in the brain of rats. *Radiation Protection Dosimetry*, **2007**, 127, 86-9	0.9	23
9	Parental exposure to enriched uranium induced delayed hyperactivity in rat offspring. *NeuroToxicology*, **2007**, 28, 108-13	4.4	17
8	Chronic ingestion of uranyl nitrate perturbs acetylcholinesterase activity and monoamine metabolism in male rat brain. *NeuroToxicology*, **2006**, 27, 245-52	4.4	49
7	Bioaccumulation and behavioural effects of depleted uranium in rats exposed to repeated inhalations. *Neuroscience Letters*, **2005**, 390, 31-6	3.3	54
6	Enriched but not depleted uranium affects central nervous system in long-term exposed rat. *NeuroToxicology*, **2005**, 26, 1015-20	4.4	55
5	The brain is a target organ after acute exposure to depleted uranium. *Toxicology*, **2005**, 212, 219-26	4.4	62
4	Changes in sleep-wake cycle after chronic exposure to uranium in rats. *Neurotoxicology and Teratology*, **2005**, 27, 835-40	3.9	38
3	Effect of U and 137Cs chronic contamination on dopamine and serotonin metabolism in the central nervous system of the rat. *Canadian Journal of Physiology and Pharmacology*, **2004**, 82, 161-6	2.4	11
2	Graphene Oxide as 2D Platform for Complexation and Intracellular Delivery of siRNA		2
1	Dynamic interactions and intracellular fate of label-free, thin graphene oxide sheets within mammalian cells: role of lateral sheet size		1