

Cyrill Bussy

List of Publications by Citations

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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.

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	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , 2018 , 12, 10582-10620	16.7	292
65	Safety considerations for graphene: lessons learnt from carbon nanotubes. <i>Accounts of Chemical Research</i> , 2013 , 46, 692-701	24.3	239
64	Functional motor recovery from brain ischemic insult by carbon nanotube-mediated siRNA silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10952-7	11.5	189
63	Adverse effects of industrial multiwalled carbon nanotubes on human pulmonary cells. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2009 , 72, 60-73	3.2	116
62	In vivo degradation of functionalized carbon nanotubes after stereotactic administration in the brain cortex. <i>Nanomedicine</i> , 2012 , 7, 1485-94	5.6	97
61	Single-cell mass cytometry and transcriptome profiling reveal the impact of graphene on human immune cells. <i>Nature Communications</i> , 2017 , 8, 1109	17.4	83
60	Microglia Determine Brain Region-Specific Neurotoxic Responses to Chemically Functionalized Carbon Nanotubes. <i>ACS Nano</i> , 2015 , 9, 7815-30	16.7	74
59	Critical role of surface chemical modifications induced by length shortening on multi-walled carbon nanotubes-induced toxicity. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 46	8.4	66
58	Coating carbon nanotubes with a polystyrene-based polymer protects against pulmonary toxicity. <i>Particle and Fibre Toxicology</i> , 2011 , 8, 3	8.4	64
57	The brain is a target organ after acute exposure to depleted uranium. <i>Toxicology</i> , 2005 , 212, 219-26	4.4	62
56	Carbon nanotubes in macrophages: imaging and chemical analysis by X-ray fluorescence microscopy. <i>Nano Letters</i> , 2008 , 8, 2659-63	11.5	58
55	Enriched but not depleted uranium affects central nervous system in long-term exposed rat. <i>NeuroToxicology</i> , 2005 , 26, 1015-20	4.4	55
54	Live Imaging of Label-Free Graphene Oxide Reveals Critical Factors Causing Oxidative-Stress-Mediated Cellular Responses. <i>ACS Nano</i> , 2018 , 12, 1373-1389	16.7	54
53	Bioaccumulation and behavioural effects of depleted uranium in rats exposed to repeated inhalations. <i>Neuroscience Letters</i> , 2005 , 390, 31-6	3.3	54
52	The Effects of Extensive Glomerular Filtration of Thin Graphene Oxide Sheets on Kidney Physiology. <i>ACS Nano</i> , 2016 , 10, 10753-10767	16.7	54
51	Design, engineering and structural integrity of electro-responsive carbon nanotube-based hydrogels for pulsatile drug release. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4593-4600	7.3	52
50	Chronic ingestion of uranyl nitrate perturbs acetylcholinesterase activity and monoamine metabolism in male rat brain. <i>NeuroToxicology</i> , 2006 , 27, 245-52	4.4	49

49	A blueprint for the synthesis and characterisation of thin graphene oxide with controlled lateral dimensions for biomedicine. <i>2D Materials</i> , 2018 , 5, 035020	5.9	46
48	Intracellular degradation of chemically functionalized carbon nanotubes using a long-term primary microglial culture model. <i>Nanoscale</i> , 2016 , 8, 590-601	7.7	44
47	The current graphene safety landscape--a literature mining exercise. <i>Nanoscale</i> , 2015 , 7, 6432-5	7.7	41
46	Gadolinium-functionalised multi-walled carbon nanotubes as a T 1 contrast agent for MRI cell labelling and tracking. <i>Carbon</i> , 2016 , 97, 126-133	10.4	39
45	Biodegradation of carbon nanohorns in macrophage cells. <i>Nanoscale</i> , 2015 , 7, 2834-40	7.7	38
44	Changes in sleep-wake cycle after chronic exposure to uranium in rats. <i>Neurotoxicology and Teratology</i> , 2005 , 27, 835-40	3.9	38
43	Hemotoxicity of carbon nanotubes. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 2127-34	18.5	37
42	Biocompatibility Considerations in the Design of Graphene Biomedical Materials. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900229	4.6	36
41	In vivo cell reprogramming towards pluripotency by virus-free overexpression of defined factors. <i>PLoS ONE</i> , 2013 , 8, e54754	3.7	34
40	Polyamine functionalized carbon nanotubes: synthesis, characterization, cytotoxicity and siRNA binding. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4850		34
39	Peptide nanofiber complexes with siRNA for deep brain gene silencing by stereotactic neurosurgery. <i>ACS Nano</i> , 2015 , 9, 1137-49	16.7	33
38	Modulating in vitro bone cell and macrophage behavior by immobilized enzymatically tailored pectins. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 597-606	5.4	30
37	Splenic Capture and Intracellular Biodegradation of Biological-Grade Graphene Oxide Sheets. <i>ACS Nano</i> , 2020 , 14, 10168-10186	16.7	30
36	Intracellular fate of carbon nanotubes inside murine macrophages: pH-dependent detachment of iron catalyst nanoparticles. <i>Particle and Fibre Toxicology</i> , 2013 , 10, 24	8.4	26
35	Enzymatically-tailored pectins differentially influence the morphology, adhesion, cell cycle progression and survival of fibroblasts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008 , 1780, 995-1003	4.0	26
34	Direct visualization of carbon nanotube degradation in primary cells by photothermal imaging. <i>Nanoscale</i> , 2017 , 9, 4642-4645	7.7	23
33	Heterogeneous accumulation of uranium in the brain of rats. <i>Radiation Protection Dosimetry</i> , 2007 , 127, 86-9	0.9	23
32	3D Organotypic Spinal Cultures: Exploring Neuron and Neuroglia Responses Upon Prolonged Exposure to Graphene Oxide. <i>Frontiers in Systems Neuroscience</i> , 2019 , 13, 1	3.5	19

31	Size-Dependent Pulmonary Impact of Thin Graphene Oxide Sheets in Mice: Toward Safe-by-Design. <i>Advanced Science</i> , 2020 , 7, 1903200	13.6	19
30	Hypochlorite degrades 2D graphene oxide sheets faster than 1D oxidised carbon nanotubes and nanohorns. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	19
29	Graphene oxide as a 2D platform for complexation and intracellular delivery of siRNA. <i>Nanoscale</i> , 2019 , 11, 13863-13877	7.7	18
28	Parental exposure to enriched uranium induced delayed hyperactivity in rat offspring. <i>NeuroToxicology</i> , 2007 , 28, 108-13	4.4	17
27	Graphene-based papers as substrates for cell growth: Characterisation and impact on mammalian cells. <i>FlatChem</i> , 2018 , 12, 17-25	5.1	17
26	Immunological impact of graphene oxide sheets in the abdominal cavity is governed by surface reactivity. <i>Archives of Toxicology</i> , 2018 , 92, 3359-3379	5.8	17
25	Comparison of the effects of enriched uranium and 137-cesium on the behaviour of rats after chronic exposure. <i>International Journal of Radiation Biology</i> , 2007 , 83, 99-104	2.9	15
24	Culture Media Critically Influence Graphene Oxide Effects on Plasma Membranes. <i>Chem</i> , 2017 , 2, 322-323	36.2	13
23	Pectins and Pectinases 2009 ,		13
22	Generation of induced pluripotent stem cells from virus-free in vivo reprogramming of BALB/c mouse liver cells. <i>Biomaterials</i> , 2014 , 35, 8312-20	15.6	11
21	Peptide nanofibres as molecular transporters: from self-assembly to in vivo degradation. <i>Faraday Discussions</i> , 2013 , 166, 181-94	3.6	11
20	Effect of U and 137Cs chronic contamination on dopamine and serotonin metabolism in the central nervous system of the rat. <i>Canadian Journal of Physiology and Pharmacology</i> , 2004 , 82, 161-6	2.4	11
19	Next-Generation Sequencing Reveals Differential Responses to Acute versus Long-Term Exposures to Graphene Oxide in Human Lung Cells. <i>Small</i> , 2020 , 16, e1907686	11	10
18	Nose-to-Brain Translocation and Cerebral Biodegradation of Thin Graphene Oxide Nanosheets. <i>Cell Reports Physical Science</i> , 2020 , 1, 100176	6.1	8
17	Primary microglia maintain their capacity to function despite internalisation and intracellular loading with carbon nanotubes. <i>Nanoscale Horizons</i> , 2017 , 2, 284-296	10.8	7
16	Intracerebral Injection of Graphene Oxide Nanosheets Mitigates Microglial Activation Without Inducing Acute Neurotoxicity: A Pilot Comparison to Other Nanomaterials. <i>Small</i> , 2020 , 16, e2004029	11	7
15	In vivo reprogramming of adult somatic cells to pluripotency by overexpression of Yamanaka factors. <i>Journal of Visualized Experiments</i> , 2013 , e50837	1.6	7
14	Adsorption of P103 Nanoaggregates on Graphene Oxide Nanosheets: Role of Electrostatic Forces in Improving Nanosheet Dispersion. <i>Langmuir</i> , 2021 , 37, 867-873	4	7

13	The role of p53 in lung macrophages following exposure to a panel of manufactured nanomaterials. <i>Archives of Toxicology</i> , 2015 , 89, 1543-56	5.8	6
12	Graphene oxide nanosheets modulate spinal glutamatergic transmission and modify locomotor behaviour in an in vivo zebrafish model. <i>Nanoscale Horizons</i> , 2020 , 5, 1250-1263	10.8	5
11	Deep Tissue Translocation of Graphene Oxide Sheets in Human Glioblastoma 3D Spheroids and an Orthotopic Xenograft Model. <i>Advanced Therapeutics</i> , 2021 , 4, 2000109	4.9	5
10	Therapeutic Applications 2012 , 285-313		4
9	Dynamic interactions and intracellular fate of label-free, thin graphene oxide sheets within mammalian cells: role of lateral sheet size. <i>Nanoscale Advances</i> , 2021 , 3, 4166-4185	5.1	4
8	The impact of graphene oxide sheet lateral dimensions on their pharmacokinetic and tissue distribution profiles in mice. <i>Journal of Controlled Release</i> , 2021 , 338, 330-340	11.7	3
7	Graphene Oxide as 2D Platform for Complexation and Intracellular Delivery of siRNA		2
6	Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. <i>Journal of Hazardous Materials</i> , 2022 , 435, 129053	12.8	2
5	Modulation of fibroblast behaviour by enzymatically-tailored pectins: PectiCoat. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008 , 11, 171-172	2.1	1
4	Assessing the Adverse Effects of Two-Dimensional Materials Using Cell Culture-Based Models 2019 , 1-46		1
3	Dynamic interactions and intracellular fate of label-free, thin graphene oxide sheets within mammalian cells: role of lateral sheet size		1
2	Innate but Not Adaptive Immunity Regulates Lung Recovery from Chronic Exposure to Graphene Oxide Nanosheets.. <i>Advanced Science</i> , 2022 , e2104559	13.6	1
1	Therapeutic Approaches for Stroke: A Biomaterials Perspective 2022 , 185-218		