

# Charles Pin-Kuang Lai

## List of Publications by Year in Descending Order

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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.

40  
papers

4,087  
citations

26  
h-index

40  
g-index

40  
ext. papers

5,145  
ext. citations

10.8  
avg. IF

5.41  
L-index

#	Paper	IF	Citations
40	Isolation and digital counting of extracellular vesicles from blood via membrane-integrated microfluidics. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 358, 131473	8.5	1
39	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. <i>Cytotherapy</i> , <b>2021</b> , 23, 373-380	4.8	41
38	Multiplexed bioluminescence-mediated tracking of DNA double-strand break repairs in vitro and in vivo. <i>Nature Protocols</i> , <b>2021</b> , 16, 3933-3953	18.8	1
37	Isolation and recovery of extracellular vesicles using optically-induced dielectrophoresis on an integrated microfluidic platform. <i>Lab on A Chip</i> , <b>2021</b> , 21, 1475-1483	7.2	8
36	The power of imaging to understand extracellular vesicle biology in vivo. <i>Nature Methods</i> , <b>2021</b> , 18, 1013-1026	16.38	38
35	Sonogenetic Modulation of Cellular Activities Using an Engineered Auditory-Sensing Protein. <i>Nano Letters</i> , <b>2020</b> , 20, 1089-1100	11.5	26
34	A multiplexed bioluminescent reporter for sensitive and non-invasive tracking of DNA double strand break repair dynamics in vitro and in vivo. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, e100	20.1	4
33	Multiresolution Imaging Using Bioluminescence Resonance Energy Transfer Identifies Distinct Biodistribution Profiles of Extracellular Vesicles and Exomeres with Redirected Tropism. <i>Advanced Science</i> , <b>2020</b> , 7, 2001467	13.6	24
32	Glioblastoma hijacks microglial gene expression to support tumor growth. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 120	10.1	30
31	Methods for Systematic Identification of Membrane Proteins for Specific Capture of Cancer-Derived Extracellular Vesicles. <i>Cell Reports</i> , <b>2019</b> , 27, 255-268.e6	10.6	24
30	Delivery of nitric oxide with a nanocarrier promotes tumour vessel normalization and potentiates anti-cancer therapies. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 1160-1169	28.7	123
29	Membrane-bound Gaussia luciferase as a tool to track shedding of membrane proteins from the surface of extracellular vesicles. <i>Scientific Reports</i> , <b>2019</b> , 9, 17387	4.9	10
28	Proteomic Analysis of Extracellular Vesicles for Cancer Diagnostics. <i>Proteomics</i> , <b>2019</b> , 19, e1800162	4.8	23
27	Engineered nanointerfaces for microfluidic isolation and molecular profiling of tumor-specific extracellular vesicles. <i>Nature Communications</i> , <b>2018</b> , 9, 175	17.4	158
26	Combined delivery of sorafenib and a MEK inhibitor using CXCR4-targeted nanoparticles reduces hepatic fibrosis and prevents tumor development. <i>Theranostics</i> , <b>2018</b> , 8, 894-905	12.1	52
25	Imaging extracellular vesicles: current and emerging methods. <i>Journal of Biomedical Science</i> , <b>2018</b> , 25, 91	13.3	141
24	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA - an ISEV position paper. <i>Journal of Extracellular Vesicles</i> , <b>2017</b> , 6, 1286095	16.4	410

23	Tracking Extracellular Vesicles Delivery and RNA Translation Using Multiplexed Reporters. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1660, 255-265	1.4	2
22	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1730-1739	6.9	177
21	Directly visualized glioblastoma-derived extracellular vesicles transfer RNA to microglia/macrophages in the brain. <i>Neuro-Oncology</i> , <b>2016</b> , 18, 58-69	1	192
20	SCS macrophages suppress melanoma by restricting tumor-derived vesicle-B cell interactions. <i>Science</i> , <b>2016</b> , 352, 242-6	33.3	188
19	Delivery of Therapeutic Proteins via Extracellular Vesicles: Review and Potential Treatments for Parkinson's Disease, Glioma, and Schwannoma. <i>Cellular and Molecular Neurobiology</i> , <b>2016</b> , 36, 417-27	4.6	64
18	Survival benefit and phenotypic improvement by hamartin gene therapy in a tuberous sclerosis mouse brain model. <i>Neurobiology of Disease</i> , <b>2015</b> , 82, 22-31	7.5	12
17	Extracellular Vesicles: Composition, Biological Relevance, and Methods of Study. <i>BioScience</i> , <b>2015</b> , 65, 783-797	5.7	459
16	Visualization and tracking of tumour extracellular vesicle delivery and RNA translation using multiplexed reporters. <i>Nature Communications</i> , <b>2015</b> , 6, 7029	17.4	345
15	Biogenesis, delivery, and function of extracellular RNA. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 27494	16.4	54
14	Meeting report: discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium. <i>Journal of Extracellular Vesicles</i> , <b>2015</b> , 4, 26533	16.4	45
13	Noninvasive in vivo monitoring of extracellular vesicles. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1098, 249-58.4		33
12	Dynamic biodistribution of extracellular vesicles in vivo using a multimodal imaging reporter. <i>ACS Nano</i> , <b>2014</b> , 8, 483-494	16.7	454
11	Selective inhibition of Cx43 hemichannels by Gap19 and its impact on myocardial ischemia/reperfusion injury. <i>Basic Research in Cardiology</i> , <b>2013</b> , 108, 309	11.8	172
10	Pannexin1 drives multicellular aggregate compaction via a signaling cascade that remodels the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 8407-16	5.4	41
9	Role of exosomes/microvesicles in the nervous system and use in emerging therapies. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 228	4.6	207
8	Ca(2+) regulation of connexin 43 hemichannels in C6 glioma and glial cells. <i>Cell Calcium</i> , <b>2009</b> , 46, 176-87.4		169
7	Connexin 43 hemichannels contribute to the propagation of apoptotic cell death in a rat C6 glioma cell model. <i>Cell Death and Differentiation</i> , <b>2009</b> , 16, 151-63	12.7	142
6	Pannexin2 as a novel growth regulator in C6 glioma cells. <i>Oncogene</i> , <b>2009</b> , 28, 4402-8	9.2	56

- 5 Connexins and pannexins: Two gap junction families mediating glioma growth control **2009**, 547-567
- 4 Tumor-suppressive effects of pannexin 1 in C6 glioma cells. *Cancer Research*, **2007**, 67, 1545-54 10.1 156
- 3 Passing potassium with and without gap junctions. *Journal of Neuroscience*, **2006**, 26, 8023-4 6.6 2
- 2 Multi-resolution imaging using bioluminescence resonance energy transfer identifies distinct biodistribution profiles of extracellular vesicles and exomeres with redirected tropism 1
- 1 Pharmacokinetics and biodistribution of extracellular vesicles administered intravenously and intranasally to *Macaca nemestrina* 2