

# Chia-Chi Chien

## 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.

36  
papers

1,138  
citations

19  
h-index

33  
g-index

39  
ext. papers

1,253  
ext. citations

6.2  
avg, IF

3.45  
L-index

#	Paper	IF	Citations
36	A systematic investigation of the effect of the fluid shear stress on Caco-2 cells towards the optimization of epithelial organ-on-chip models. <i>Biomaterials</i> , <b>2019</b> , 225, 119521	15.6	51
35	Validation of a Vasculogenesis Microfluidic Model for Radiobiological Studies of the Human Microvasculature. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800726	6.8	14
34	Gold nanoparticles as multimodality imaging agents for brain gliomas. <i>Journal of Nanobiotechnology</i> , <b>2015</b> , 13, 85	9.4	23
33	Advanced micromachining of concave microwells for long term on-chip culture of multicellular tumor spheroids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 8090-7	9.5	36
32	Image alignment for tomography reconstruction from synchrotron X-ray microscopic images. <i>PLoS ONE</i> , <b>2014</b> , 9, e84675	3.7	9
31	Very small photoluminescent gold nanoparticles for multimodality biomedical imaging. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 362-8	17.8	17
30	FTIR spectro-imaging of collagen scaffold formation during glioma tumor development. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 8729-36	4.4	10
29	Imaging cells and sub-cellular structures with ultrahigh resolution full-field X-ray microscopy. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 375-86	17.8	15
28	Complete microscale profiling of tumor microangiogenesis: a microradiological methodology reveals fundamental aspects of tumor angiogenesis and yields an array of quantitative parameters for its characterization. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 396-401	17.8	9
27	Immunospecific targeting of CD45 expressing lymphoid cells: towards improved detection agents of the sentinel lymph node. <i>Cancer Letters</i> , <b>2013</b> , 328, 271-7	9.9	11
26	Gold nanoparticles as high-resolution X-ray imaging contrast agents for the analysis of tumor-related micro-vasculature. <i>Journal of Nanobiotechnology</i> , <b>2012</b> , 10, 10	9.4	52
25	Size control of gold nanoparticles by intense X-ray irradiation: the relevant parameters and imaging applications. <i>RSC Advances</i> , <b>2012</b> , 2, 6185	3.7	6
24	Controlled hydrogel photopolymerization inside live systems by X-ray irradiation. <i>Soft Matter</i> , <b>2012</b> , 8, 1420-1427	3.6	23
23	X-ray microscopy and tomography detect the accumulation of bare and PEG-coated gold nanoparticles in normal and tumor mouse tissues. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 1287-1296	4.4	9
22	Fate of intravenously administered gold nanoparticles in hair follicles: follicular delivery, pharmacokinetic interpretation, and excretion. <i>Advanced Healthcare Materials</i> , <b>2012</b> , 1, 736-41	10.1	16
21	X-ray imaging of tumor growth in live mice by detecting gold-nanoparticle-loaded cells. <i>Scientific Reports</i> , <b>2012</b> , 2, 610	4.9	23
20	Nanoresolution radiology of neurons. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 242001	3	19

19	X-ray synthesized PEGylated (polyethylene glycol coated) gold nanoparticles in mice strongly accumulate in tumors. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 126, 352-356	4.4	25
18	Detection of collagens in brain tumors based on FTIR imaging and chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 845-52	4.4	20
17	Imaging the cellular uptake of tiopronin-modified gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 809-16	4.4	24
16	Functional histology of glioma vasculature by FTIR imaging. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 795-801	4.4	14
15	Detecting small lung tumors in mouse models by refractive-index microradiology. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 827-35	4.4	1
14	Quantitative analysis of nanoparticle internalization in mammalian cells by high resolution X-ray microscopy. <i>Journal of Nanobiotechnology</i> , <b>2011</b> , 9, 14	9.4	49
13	One-pot tuning of Au nucleation and growth: from nanoclusters to nanoparticles. <i>Langmuir</i> , <b>2011</b> , 27, 8424-9	4	15
12	One-pot synthesis of AuPt alloyed nanoparticles by intense x-ray irradiation. <i>Nanotechnology</i> , <b>2011</b> , 22, 065605	3.4	21
11	Enhancement of cell radiation sensitivity by pegylated gold nanoparticles. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 931-45	3.8	175
10	Tailored Au nanorods: optimizing functionality, controlling the aspect ratio and increasing biocompatibility. <i>Nanotechnology</i> , <b>2010</b> , 21, 335604	3.4	19
9	Synchrotron microangiography studies of angiogenesis in mice with microemulsions and gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 2109-16	4.4	22
8	Enhanced photocatalysis, colloidal stability and cytotoxicity of synchrotron X-ray synthesized Au/TiO <sub>2</sub> nanoparticles. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 74-79	4.4	27
7	Intense X-ray induced formation of silver nanoparticles stabilized by biocompatible polymers. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 97, 295-300	2.6	17
6	Effect of nitride film coatings on cell compatibility. <i>Dental Materials</i> , <b>2008</b> , 24, 986-93	5.7	56
5	Hard-x-ray microscopy with Fresnel zone plates reaches 40nm Rayleigh resolution. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 103119	3.4	146
4	Enhanced x-ray irradiation-induced cancer cell damage by gold nanoparticles treated by a new synthesis method of polyethylene glycol modification. <i>Nanotechnology</i> , <b>2008</b> , 19, 295104	3.4	85
3	Structural properties of naked gold nanoparticles formed by synchrotron X-ray irradiation. <i>Journal of Synchrotron Radiation</i> , <b>2007</b> , 14, 477-82	2.4	41
2	Aqueous gold nanosols stabilized by electrostatic protection generated by X-ray irradiation assisted radical reduction. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 106, 323-329	4.4	38

- 1 Subcellular Protein Localization with Hard X-Ray Microscopy. *Microscopy and Microanalysis*, **2006**, 12, 286-287

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