Chia-Chi Chien

List of Publications by Year
in descending order

37	1,375	331538 21	360920 35
papers	citations	h-index	g-index

39	39	39	2213
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancement of cell radiation sensitivity by pegylated gold nanoparticles. Physics in Medicine and Biology, 2010, 55, 931-945.	1.6	199
2	Hard-x-ray microscopy with Fresnel zone plates reaches 40nm Rayleigh resolution. Applied Physics Letters, 2008, 92, .	1.5	174
3	A systematic investigation of the effect of the fluid shear stress on Caco-2â€¯cells towards the optimization of epithelial organ-on-chip models. Biomaterials, 2019, 225, 119521.	5.7	98
4	Enhanced x-ray irradiation-induced cancer cell damage by gold nanoparticles treated by a new synthesis method of polyethylene glycol modification. Nanotechnology, 2008, 19, 295104.	1.3	96
5	Effect of nitride film coatings on cell compatibility. Dental Materials, 2008, 24, 986-993.	1.6	65
6	Quantitative analysis of nanoparticle internalization in mammalian cells by high resolution X-ray microscopy. Journal of Nanobiotechnology, 2011, 9, 14.	4.2	59
7	Gold nanoparticles as high-resolution X-ray imaging contrast agents for the analysis of tumor-related micro-vasculature. Journal of Nanobiotechnology, 2012, 10, 10.	4.2	59
8	Advanced Micromachining of Concave Microwells for Long Term On-Chip Culture of Multicellular Tumor Spheroids. ACS Applied Materials & Interfaces, 2014, 6, 8090-8097.	4.0	45
9	Structural properties of `naked' gold nanoparticles formed by synchrotron X-ray irradiation. Journal of Synchrotron Radiation, 2007, 14, 477-482.	1.0	44
10	Aqueous gold nanosols stabilized by electrostatic protection generated by X-ray irradiation assisted radical reduction. Materials Chemistry and Physics, 2007, 106, 323-329.	2.0	42
11	Gold nanoparticles as multimodality imaging agents for brain gliomas. Journal of Nanobiotechnology, 2015, 13, 85.	4.2	32
12	X-ray imaging of tumor growth in live mice by detecting gold-nanoparticle-loaded cells. Scientific Reports, 2012, 2, 610.	1.6	30
13	Enhanced photocatalysis, colloidal stability and cytotoxicity of synchrotron X-ray synthesized Au/TiO2 nanoparticles. Materials Chemistry and Physics, 2009, 117, 74-79.	2.0	27
14	Imaging the cellular uptake of tiopronin-modified gold nanoparticles. Analytical and Bioanalytical Chemistry, 2011, 401, 809-816.	1.9	27
15	Controlled hydrogel photopolymerization inside live systems by X-ray irradiation. Soft Matter, 2012, 8, 1420-1427.	1.2	27
16	Tailored Au nanorods: optimizing functionality, controlling the aspect ratio and increasing biocompatibility. Nanotechnology, 2010, 21, 335604.	1.3	25
17	X-ray synthesized PEGylated (polyethylene glycol coated) gold nanoparticles in mice strongly accumulate in tumors. Materials Chemistry and Physics, 2011, 126, 352-356.	2.0	25
18	Detection of collagens in brain tumors based on FTIR imaging and chemometrics. Analytical and Bioanalytical Chemistry, 2011, 401, 845-852.	1.9	24

#	Article	IF	Citations
19	One-pot synthesis of AuPt alloyed nanoparticles by intense x-ray irradiation. Nanotechnology, 2011, 22, 065605.	1.3	24
20	Nanoresolution radiology of neurons. Journal Physics D: Applied Physics, 2012, 45, 242001.	1.3	24
21	Synchrotron microangiography studies of angiogenesis in mice with microemulsions and gold nanoparticles. Analytical and Bioanalytical Chemistry, 2010, 397, 2109-2116.	1.9	23
22	Validation of a Vasculogenesis Microfluidic Model for Radiobiological Studies of the Human Microvasculature. Advanced Materials Technologies, 2019, 4, 1800726.	3.0	23
23	Imaging cells and sub-cellular structures with ultrahigh resolution full-field X-ray microscopy. Biotechnology Advances, 2013, 31, 375-386.	6.0	20
24	Fate of Intravenously Administered Gold Nanoparticles in Hair Follicles: Follicular Delivery, Pharmacokinetic Interpretation, and Excretion. Advanced Healthcare Materials, 2012, 1, 736-741.	3.9	19
25	Very small photoluminescent gold nanoparticles for multimodality biomedical imaging. Biotechnology Advances, 2013, 31, 362-368.	6.0	19
26	Intense X-ray induced formation of silver nanoparticles stabilized byÂbiocompatible polymers. Applied Physics A: Materials Science and Processing, 2009, 97, 295-300.	1.1	17
27	Image Alignment for Tomography Reconstruction from Synchrotron X-Ray Microscopic Images. PLoS ONE, 2014, 9, e84675.	1.1	17
28	One-Pot Tuning of Au Nucleation and Growth: From Nanoclusters to Nanoparticles. Langmuir, 2011, 27, 8424-8429.	1.6	16
29	Functional histology of glioma vasculature by FTIR imaging. Analytical and Bioanalytical Chemistry, 2011, 401, 795-801.	1.9	15
30	FTIR spectro-imaging of collagen scaffold formation during glioma tumor development. Analytical and Bioanalytical Chemistry, 2013, 405, 8729-8736.	1.9	15
31	Immunospecific targeting of CD45 expressing lymphoid cells: Towards improved detection agents of the sentinel lymph node. Cancer Letters, 2013, 328, 271-277.	3.2	13
32	X-ray microscopy and tomography detect the accumulation of bare and PEG-coated gold nanoparticles in normal and tumor mouse tissues. Analytical and Bioanalytical Chemistry, 2012, 404, 1287-1296.	1.9	11
33	Complete microscale profiling of tumor microangiogenesis. Biotechnology Advances, 2013, 31, 396-401.	6.0	11
34	Size control of gold nanoparticles by intense X-ray irradiation: the relevant parameters and imaging applications. RSC Advances, 2012, 2, 6185.	1.7	7
35	Detecting small lung tumors in mouse models by refractive-index microradiology. Analytical and Bioanalytical Chemistry, 2011, 401, 827-835.	1.9	2
36	MICRORADIOLOGY IMAGING OF THE BIODISTRIBUTION OF POLYETHYLENE GLYCOL (PEG) MODIFIED GOLD NANOPARTICLES IN CANCER BEARING MICE. , 2009, , .		1

#	Article	IF	Citations
37	Subcellular Protein Localization with Hard X-Ray Microscopy. Microscopy and Microanalysis, 2006, 12, 286-287.	0.2	0