

Chia-Chi Chien

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.

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 | Enhancement of cell radiation sensitivity by pegylated gold nanoparticles. <i>Physics in Medicine and Biology</i> , 2010 , 55, 931-45 | 3.8 | 175 |
| 35 | Hard-x-ray microscopy with Fresnel zone plates reaches 40nm Rayleigh resolution. <i>Applied Physics Letters</i> , 2008 , 92, 103119 | 3.4 | 146 |
| 34 | Enhanced x-ray irradiation-induced cancer cell damage by gold nanoparticles treated by a new synthesis method of polyethylene glycol modification. <i>Nanotechnology</i> , 2008 , 19, 295104 | 3.4 | 85 |
| 33 | Effect of nitride film coatings on cell compatibility. <i>Dental Materials</i> , 2008 , 24, 986-93 | 5.7 | 56 |
| 32 | Gold nanoparticles as high-resolution X-ray imaging contrast agents for the analysis of tumor-related micro-vasculature. <i>Journal of Nanobiotechnology</i> , 2012 , 10, 10 | 9.4 | 52 |
| 31 | 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> , 2019 , 225, 119521 | 15.6 | 51 |
| 30 | Quantitative analysis of nanoparticle internalization in mammalian cells by high resolution X-ray microscopy. <i>Journal of Nanobiotechnology</i> , 2011 , 9, 14 | 9.4 | 49 |
| 29 | Structural properties of naked gold nanoparticles formed by synchrotron X-ray irradiation. <i>Journal of Synchrotron Radiation</i> , 2007 , 14, 477-82 | 2.4 | 41 |
| 28 | Aqueous gold nanosols stabilized by electrostatic protection generated by X-ray irradiation assisted radical reduction. <i>Materials Chemistry and Physics</i> , 2007 , 106, 323-329 | 4.4 | 38 |
| 27 | Advanced micromachining of concave microwells for long term on-chip culture of multicellular tumor spheroids. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8090-7 | 9.5 | 36 |
| 26 | Enhanced photocatalysis, colloidal stability and cytotoxicity of synchrotron X-ray synthesized Au/TiO ₂ nanoparticles. <i>Materials Chemistry and Physics</i> , 2009 , 117, 74-79 | 4.4 | 27 |
| 25 | X-ray synthesized PEGylated (polyethylene glycol coated) gold nanoparticles in mice strongly accumulate in tumors. <i>Materials Chemistry and Physics</i> , 2011 , 126, 352-356 | 4.4 | 25 |
| 24 | Imaging the cellular uptake of tiopronin-modified gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 809-16 | 4.4 | 24 |
| 23 | Gold nanoparticles as multimodality imaging agents for brain gliomas. <i>Journal of Nanobiotechnology</i> , 2015 , 13, 85 | 9.4 | 23 |
| 22 | Controlled hydrogel photopolymerization inside live systems by X-ray irradiation. <i>Soft Matter</i> , 2012 , 8, 1420-1427 | 3.6 | 23 |
| 21 | X-ray imaging of tumor growth in live mice by detecting gold-nanoparticle-loaded cells. <i>Scientific Reports</i> , 2012 , 2, 610 | 4.9 | 23 |
| 20 | Synchrotron microangiography studies of angiogenesis in mice with microemulsions and gold nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 2109-16 | 4.4 | 22 |

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|----|--|------|----|
| 19 | One-pot synthesis of AuPt alloyed nanoparticles by intense x-ray irradiation. <i>Nanotechnology</i> , 2011 , 22, 065605 | 3.4 | 21 |
| 18 | Detection of collagens in brain tumors based on FTIR imaging and chemometrics. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 845-52 | 4.4 | 20 |
| 17 | Tailored Au nanorods: optimizing functionality, controlling the aspect ratio and increasing biocompatibility. <i>Nanotechnology</i> , 2010 , 21, 335604 | 3.4 | 19 |
| 16 | Nanoresolution radiology of neurons. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 242001 | 3 | 19 |
| 15 | Very small photoluminescent gold nanoparticles for multimodality biomedical imaging. <i>Biotechnology Advances</i> , 2013 , 31, 362-8 | 17.8 | 17 |
| 14 | Intense X-ray induced formation of silver nanoparticles stabilized by biocompatible polymers. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 295-300 | 2.6 | 17 |
| 13 | Fate of intravenously administered gold nanoparticles in hair follicles: follicular delivery, pharmacokinetic interpretation, and excretion. <i>Advanced Healthcare Materials</i> , 2012 , 1, 736-41 | 10.1 | 16 |
| 12 | Imaging cells and sub-cellular structures with ultrahigh resolution full-field X-ray microscopy. <i>Biotechnology Advances</i> , 2013 , 31, 375-86 | 17.8 | 15 |
| 11 | One-pot tuning of Au nucleation and growth: from nanoclusters to nanoparticles. <i>Langmuir</i> , 2011 , 27, 8424-9 | 4 | 15 |
| 10 | Validation of a Vasculogenesis Microfluidic Model for Radiobiological Studies of the Human Microvasculature. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800726 | 6.8 | 14 |
| 9 | Functional histology of glioma vasculature by FTIR imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 795-801 | 4.4 | 14 |
| 8 | Immunospecific targeting of CD45 expressing lymphoid cells: towards improved detection agents of the sentinel lymph node. <i>Cancer Letters</i> , 2013 , 328, 271-7 | 9.9 | 11 |
| 7 | FTIR spectro-imaging of collagen scaffold formation during glioma tumor development. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 8729-36 | 4.4 | 10 |
| 6 | 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> , 2013 , 31, 396-401 | 17.8 | 9 |
| 5 | Image alignment for tomography reconstruction from synchrotron X-ray microscopic images. <i>PLoS ONE</i> , 2014 , 9, e84675 | 3.7 | 9 |
| 4 | 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> , 2012 , 404, 1287-96 | 4.4 | 9 |
| 3 | Size control of gold nanoparticles by intense X-ray irradiation: the relevant parameters and imaging applications. <i>RSC Advances</i> , 2012 , 2, 6185 | 3.7 | 6 |
| 2 | Detecting small lung tumors in mouse models by refractive-index microradiology. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 827-35 | 4.4 | 1 |

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

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