

Antony K Chen

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,901
citations

394421

19
h-index

361022

35
g-index

39
all docs

39
docs citations

39
times ranked

3002
citing authors

#	ARTICLE	IF	CITATIONS
1	Superparamagnetic Iron Oxide Nanoparticle Probes for Molecular Imaging. <i>Annals of Biomedical Engineering</i> , 2006, 34, 23-38.	2.5	675
2	Long non-coding RNA Linc-RAM enhances myogenic differentiation by interacting with MyoD. <i>Nature Communications</i> , 2017, 8, 14016.	12.8	147
3	Avoiding false-positive signals with nuclease-vulnerable molecular beacons in single living cells. <i>Nucleic Acids Research</i> , 2007, 35, e105.	14.5	122
4	Immature HIV-1 lattice assembly dynamics are regulated by scaffolding from nucleic acid and the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10056-E10065.	7.1	86
5	Efficient cytosolic delivery of molecular beacon conjugates and flow cytometric analysis of target RNA. <i>Nucleic Acids Research</i> , 2008, 36, e69-e69.	14.5	73
6	In vivo imaging of cancer biomarkers using activatable molecular probes. <i>Cancer Biomarkers</i> , 2008, 4, 287-305.	1.7	71
7	Progress and Challenges for Live-cell Imaging of Genomic Loci Using CRISPR-based Platforms. <i>Genomics, Proteomics and Bioinformatics</i> , 2019, 17, 119-128.	6.9	69
8	MicroRNA binding to the HIV-1 Gag protein inhibits Gag assembly and virus production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2676-83.	7.1	66
9	Assessing the Sensitivity of Commercially Available Fluorophores to the Intracellular Environment. <i>Analytical Chemistry</i> , 2008, 80, 7437-7444.	6.5	56
10	Ratiometric bimolecular beacons for the sensitive detection of RNA in single living cells. <i>Nucleic Acids Research</i> , 2010, 38, e148-e148.	14.5	53
11	MyoD is a 3D genome structure organizer for muscle cell identity. <i>Nature Communications</i> , 2022, 13, 205.	12.8	50
12	Single-molecule detection and tracking of RNA transcripts in living cells using phosphorothioate-optimized 2'-O-methyl RNA molecular beacons. <i>Biomaterials</i> , 2016, 100, 172-183.	11.4	46
13	A molecular beacon-based approach for live-cell imaging of RNA transcripts with minimal target engineering at the single-molecule level. <i>Scientific Reports</i> , 2017, 7, 1550.	3.3	39
14	CRISPR/dual-FRET molecular beacon for sensitive live-cell imaging of non-repetitive genomic loci. <i>Nucleic Acids Research</i> , 2019, 47, e131-e131.	14.5	39
15	A CRISPR/molecular beacon hybrid system for live-cell genomic imaging. <i>Nucleic Acids Research</i> , 2018, 46, e80-e80.	14.5	37
16	Sub-cellular trafficking and functionality of 2'-O-methyl and 2'-O-methyl-phosphorothioate molecular beacons. <i>Nucleic Acids Research</i> , 2009, 37, e149-e149.	14.5	34
17	1/f-noise-free optical sensing with an integrated heterodyne interferometer. <i>Nature Communications</i> , 2021, 12, 1973.	12.8	33
18	Evidence for the role of G-proteins in flow stimulation of dinoflagellate bioluminescence. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R2020-R2027.	1.8	28

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19	Recent Advances in the Molecular Beacon Technology for Live-Cell Single-Molecule Imaging. IScience, 2020, 23, 101801.	4.1	28
20	Roles of Gag-RNA interactions in HIV-1 virus assembly deciphered by single-molecule localization microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6721-6726.	7.1	25
21	The use of dinoflagellate bioluminescence to characterize cell stimulation in bioreactors. Biotechnology and Bioengineering, 2003, 83, 93-103.	3.3	21
22	Cell spreading and proliferation in response to the composition and mechanics of engineered fibrillar extracellular matrices. Biotechnology and Bioengineering, 2013, 110, 2731-2741.	3.3	19
23	Delivery of Molecular Beacons for Live-Cell Imaging and Analysis of RNA. Methods in Molecular Biology, 2011, 714, 159-174.	0.9	18
24	Engineering Novel Molecular Beacon Constructs to Study Intracellular RNA Dynamics and Localization. Genomics, Proteomics and Bioinformatics, 2017, 15, 279-286.	6.9	10
25	IMAGING RNA IN LIVING CELLS WITH MOLECULAR BEACONS: CURRENT PERSPECTIVES AND CHALLENGES. Journal of Innovative Optical Health Sciences, 2009, 02, 315-324.	1.0	9
26	Examination of Folate-Targeted Liposomes with Encapsulated Poly(2â€propylacrylic acid) as a pH-Responsive Nanoplatfrom for Cytosolic Drug Delivery. Small, 2010, 6, 1398-1401.	10.0	9
27	Inhibition of retroviral Gag assembly by non-silencing miRNAs promotes autophagic viral degradation. Protein and Cell, 2018, 9, 640-651.	11.0	8
28	A Background Assessable and Correctable Bimolecular Fluorescence Complementation System for Nanoscopic Single-Molecule Imaging of Intracellular Protein-Protein Interactions. ACS Nano, 2021, 15, 14338-14346.	14.6	7
29	Quantifying Gene Expression in Living Cells with Ratiometric Bimolecular Beacons. Methods in Molecular Biology, 2018, 1649, 231-242.	0.9	4
30	Delivering Molecular Beacons via an Electroporation-Based Approach Enables Live-Cell Imaging of Single RNA Transcripts and Genomic Loci. Methods in Molecular Biology, 2020, 2106, 241-252.	0.9	4
31	Rational design of self-assembled RNA nanostructures for HIV-1 virus assembly blockade. Nucleic Acids Research, 2022, 50, e44-e44.	14.5	4
32	Frictional properties of native and functionalized type I collagen thin films. Applied Physics Letters, 2013, 103, 143703.	3.3	3
33	Live-Cell Imaging of Long Noncoding RNAs Using Molecular Beacons. Methods in Molecular Biology, 2019, 2038, 21-33.	0.9	3
34	Optimizing Molecular Beacons for Intracellular Analysis of RNA. Methods in Molecular Biology, 2018, 1649, 243-257.	0.9	2
35	Live-Cell Imaging of Genomic Loci Using CRISPR/Molecular Beacon Hybrid Systems. Methods in Molecular Biology, 2020, 2166, 357-372.	0.9	2
36	Imaging RNA in Single Living Cells: Recent Advances and Future Outlook. , 2012, , .		0

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37	Single-Molecule Analysis of RNA Dynamics in Living Cells Using Molecular Beacons. Methods in Molecular Biology, 2019, 1870, 23-39.	0.9	0
38	A new metagenome binning method based on gene uniqueness. Genes and Genomics, 2020, 42, 883-892.	1.4	0