

Takeaki Ozawa

List of Publications by Year in descending order

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89
papers

3,216
citations

236925

25
h-index

155660

55
g-index

90
all docs

90
docs citations

90
times ranked

4692
citing authors

#	ARTICLE	IF	CITATIONS
1	Long Noncoding RNA NEAT1-Dependent SFPQ Relocation from Promoter Region to Paraspeckle Mediates IL8 Expression upon Immune Stimuli. <i>Molecular Cell</i> , 2014, 53, 393-406.	9.7	574
2	Imaging dynamics of endogenous mitochondrial RNA in single living cells. <i>Nature Methods</i> , 2007, 4, 413-419.	19.0	271
3	Split Luciferase as an Optical Probe for Detecting Protein-Protein Interactions in Mammalian Cells Based on Protein Splicing. <i>Analytical Chemistry</i> , 2001, 73, 2516-2521.	6.5	255
4	Advances in Fluorescence and Bioluminescence Imaging. <i>Analytical Chemistry</i> , 2013, 85, 590-609.	6.5	186
5	A high-throughput screening of genes that encode proteins transported into the endoplasmic reticulum in mammalian cells. <i>Nucleic Acids Research</i> , 2005, 33, e34-e34.	14.5	135
6	A Fluorescent Indicator for Detecting Protein-Protein Interactions in Vivo Based on Protein Splicing. <i>Analytical Chemistry</i> , 2000, 72, 5151-5157.	6.5	134
7	A genetic approach to identifying mitochondrial proteins. <i>Nature Biotechnology</i> , 2003, 21, 287-293.	17.5	127
8	Novel Interaction of the Voltage-Dependent Sodium Channel (VDSC) with Calmodulin: Does VDSC Acquire Calmodulin-Mediated Ca ²⁺ -Sensitivity? <i>Biochemistry</i> , 2000, 39, 1316-1323.	2.5	114
9	Cyclic Luciferase for Real-Time Sensing of Caspase Activities in Living Mammals. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7595-7599.	13.8	104
10	Protein Splicing-Based Reconstitution of Split Green Fluorescent Protein for Monitoring Protein-Protein Interactions in Bacteria: Improved Sensitivity and Reduced Screening Time. <i>Analytical Chemistry</i> , 2001, 73, 5866-5874.	6.5	83
11	Rapid and High-Sensitivity Cell-Based Assays of Protein-Protein Interactions Using Split Click Beetle Luciferase Complementation: An Approach to the Study of G-Protein-Coupled Receptors. <i>Analytical Chemistry</i> , 2010, 82, 2552-2560.	6.5	79
12	High-Sensitivity Real-Time Imaging of Dual Protein-Protein Interactions in Living Subjects Using Multicolor Luciferases. <i>PLoS ONE</i> , 2009, 4, e5868.	2.5	67
13	Soft and Robust Identification of Body Fluid Using Fourier Transform Infrared Spectroscopy and Chemometric Strategies for Forensic Analysis. <i>Scientific Reports</i> , 2018, 8, 8459.	3.3	63
14	How Can Ca ²⁺ Selectively Activate Recoverin in the Presence of Mg ²⁺ ? Surface Plasmon Resonance and FT-IR Spectroscopic Studies. <i>Biochemistry</i> , 2000, 39, 14495-14503.	2.5	51
15	Longitudinal Bioluminescence Imaging of the Dynamics of Doxorubicin Induced Apoptosis. <i>Theranostics</i> , 2013, 3, 190-200.	10.0	49
16	An optogenetic system for interrogating the temporal dynamics of Akt. <i>Scientific Reports</i> , 2015, 5, 14589.	3.3	48
17	A new cell-based assay to evaluate myogenesis in mouse myoblast C2C12 cells. <i>Experimental Cell Research</i> , 2015, 336, 171-181.	2.6	41
18	Rapid in vivo lipid/carbohydrate quantification of single microalgal cell by Raman spectral imaging to reveal salinity-induced starch-to-lipid shift. <i>Biotechnology for Biofuels</i> , 2017, 10, 9.	6.2	37

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19	CRY Drives Cyclic CK2-Mediated BMAL1 Phosphorylation to Control the Mammalian Circadian Clock. <i>PLoS Biology</i> , 2015, 13, e1002293.	5.6	36
20	In Situ Characterization of Bak Clusters Responsible for Cell Death Using Single Molecule Localization Microscopy. <i>Scientific Reports</i> , 2016, 6, 27505.	3.3	33
21	Using redox-sensitive mitochondrial cytochrome Raman bands for label-free detection of mitochondrial dysfunction. <i>Analyst</i> , 2019, 144, 2531-2540.	3.5	33
22	A Minimal Peptide Sequence That Targets Fluorescent and Functional Proteins into the Mitochondrial Intermembrane Space. <i>ACS Chemical Biology</i> , 2007, 2, 176-186.	3.4	29
23	Preferential Photoreaction in a Porous Crystal, Metal- μ -Macrocyclic Framework: Pd ^{II} -Mediated Olefin Migration over [2+2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2018, 140, 16610-16614.	13.7	29
24	Phenotype Profiling for Forensic Purposes: Determining Donor Sex Based on Fourier Transform Infrared Spectroscopy of Urine Traces. <i>Analytical Chemistry</i> , 2019, 91, 6288-6295.	6.5	28
25	Advanced Bioluminescence System for In Vivo Imaging with Brighter and Red-Shifted Light Emission. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6538.	4.1	28
26	In Vivo Monitoring of Liver Damage Using Caspase-3 Probe. <i>Theranostics</i> , 2012, 2, 207-214.	10.0	26
27	Recruitment of β -Arrestin 1 and 2 to the β -Adrenoceptor: Analysis of 65 Ligands. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 355, 183-190.	2.5	26
28	Spatiotemporal analysis with a genetically encoded fluorescent RNA probe reveals TERRA function around telomeres. <i>Scientific Reports</i> , 2016, 6, 38910.	3.3	26
29	Cooperative interaction among BMAL1, HSF1, and p53 protects mammalian cells from UV stress. <i>Communications Biology</i> , 2018, 1, 204.	4.4	25
30	Genetically Encoded Fluorescent Probe for Imaging Apoptosis <i>In Vivo</i> with Spontaneous GFP Complementation. <i>Analytical Chemistry</i> , 2016, 88, 838-844.	6.5	24
31	Light-mediated control of Gene expression in mammalian cells. <i>Neuroscience Research</i> , 2020, 152, 66-77.	1.9	24
32	An Optical Method for Evaluating Ion Selectivity for Calcium Signaling Pathways in the Cell. <i>Analytical Chemistry</i> , 1997, 69, 3081-3085.	6.5	22
33	Spectral Mining for Discriminating Blood Origins in the Presence of Substrate Interference via Attenuated Total Reflection Fourier Transform Infrared Spectroscopy: Postmortem or Antemortem Blood?. <i>Analytical Chemistry</i> , 2017, 89, 9797-9804.	6.5	21
34	Activation of caspase-3 during Chlamydia trachomatis-induced apoptosis at a late stage. <i>Canadian Journal of Microbiology</i> , 2019, 65, 135-143.	1.7	21
35	Unique Roles of β -Arrestin in GPCR Trafficking Revealed by Photoinducible Dimerizers. <i>Scientific Reports</i> , 2018, 8, 677.	3.3	19
36	Liquid/Liquid Interfacial Synthesis of a Click Nanosheet. <i>Chemistry - A European Journal</i> , 2017, 23, 8443-8449.	3.3	17

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37	A split luciferase-based probe for quantitative proximal determination of G \hat{q} signalling in live cells. <i>Scientific Reports</i> , 2018, 8, 17179.	3.3	16
38	Detection of Necroptosis in Ligand-Mediated and Hypoxia-Induced Injury of Hepatocytes Using a Novel Optic Probe-Detecting Receptor-Interacting Protein (RIP)1/RIP3 Binding. <i>Oncology Research</i> , 2018, 26, 503-513.	1.5	16
39	Photocleavable Cadherin Inhibits Cell-to-Cell Mechanotransduction by Light. <i>ACS Chemical Biology</i> , 2019, 14, 2206-2214.	3.4	15
40	Protein expression guided chemical profiling of living cells by the simultaneous observation of Raman scattering and anti-Stokes fluorescence emission. <i>Scientific Reports</i> , 2017, 7, 43569.	3.3	13
41	Protein Reconstitution Methods for Visualizing Biomolecular Function in Living Cells. <i>Yakugaku Zasshi</i> , 2009, 129, 289-295.	0.2	12
42	Measuring CREB Activation Using Bioluminescent Probes That Detect KID \hat{c} KIX Interaction in Living Cells. <i>Bioconjugate Chemistry</i> , 2012, 23, 923-932.	3.6	11
43	In Search of NPY Y ₄ Antagonists: Incorporation of Carbamoylated Arginine, Aza-Amino Acids, or α -Amino Acids into Oligopeptides Derived from the C-Termini of the Endogenous Agonists. <i>ACS Omega</i> , 2017, 2, 3616-3631.	3.5	11
44	Synergetic Roles of Formyl Peptide Receptor 1 Oligomerization in Ligand-Induced Signal Transduction. <i>ACS Chemical Biology</i> , 2020, 15, 2577-2587.	3.4	11
45	Peptide Assemblies in Living Cells. <i>Methods for Detecting Protein-Protein Interactions</i> . <i>Supramolecular Chemistry</i> , 2002, 14, 271-280.	1.2	10
46	Dual-Color Bioluminescence Analysis for Quantitatively Monitoring G-Protein-Coupled Receptor and β -Arrestin Interactions. <i>Pharmaceuticals</i> , 2011, 4, 457-469.	3.8	10
47	Attenuation of chemokine receptor function and surface expression as an immunomodulatory strategy employed by human cytomegalovirus is linked to vGPCR US28. <i>Cell Communication and Signaling</i> , 2016, 14, 31.	6.5	10
48	Optogenetic interrogation reveals separable G-protein-dependent and -independent signalling linking G-protein-coupled receptors to the circadian oscillator. <i>BMC Biology</i> , 2017, 15, 40.	3.8	10
49	Light \hat{c} controllable Transcription System by Nucleocytoplasmic Shuttling of a Truncated Phytochrome B. <i>Photochemistry and Photobiology</i> , 2018, 94, 1071-1076.	2.5	10
50	Recent advances of vibrational spectroscopy and chemometrics for forensic biological analysis. <i>Analyst</i> , 2021, 146, 7431-7449.	3.5	10
51	Creating bioluminescent indicators to visualise biological events in living cells and animals. <i>Supramolecular Chemistry</i> , 2010, 22, 440-449.	1.2	9
52	Bioluminescent Probes to Analyze Ligand-Induced Phosphatidylinositol 3,4,5-Trisphosphate Production with Split Luciferase Complementation. <i>Analytical Chemistry</i> , 2013, 85, 11352-11359.	6.5	9
53	Methods of Split Reporter Reconstitution for the Analysis of Biomolecules. <i>Chemical Record</i> , 2014, 14, 492-501.	5.8	9
54	Confocal Bioluminescence Imaging for Living Tissues with a Caged Substrate of Luciferin. <i>Analytical Chemistry</i> , 2016, 88, 6231-6238.	6.5	9

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55	Long-term single cell bioluminescence imaging with C-3 position protected coelenterazine analogues. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 579-586.	2.8	9
56	Multimodal and multiplex spectral imaging of rat cornea <i>in vivo</i> using a white-light laser source. <i>Journal of Biophotonics</i> , 2015, 8, 705-713.	2.3	8
57	Comprehensive modeling of bloodstain aging by multivariate Raman spectral resolution with kinetics. <i>Communications Chemistry</i> , 2019, 2, .	4.5	8
58	Assay methods for small ubiquitin-like modifier (SUMO)–SUMO-interacting motif (SIM) interactions <i>in vivo</i> and <i>in vitro</i> using a split-luciferase complementation system. <i>Analytical Biochemistry</i> , 2014, 448, 92-94.	2.4	7
59	A genetic screen to discover SUMOylated proteins in living mammalian cells. <i>Scientific Reports</i> , 2017, 7, 17443.	3.3	6
60	Real-Time Fluorescence Imaging of Single-Molecule Endogenous Noncoding RNA in Living Cells. <i>Methods in Molecular Biology</i> , 2018, 1649, 337-347.	0.9	6
61	A robust split-luciferase-based cell fusion screening for discovering myogenesis-promoting molecules. <i>Analyst, The</i> , 2018, 143, 3472-3480.	3.5	6
62	A Detection Method for GLUT4 Exocytosis Based on Spontaneous Split Luciferase Complementation. <i>Analytical Sciences</i> , 2019, 35, 835-838.	1.6	6
63	[³ H]UR-DEBa176: A 2,4-Diaminopyrimidine-Type Radioligand Enabling Binding Studies at the Human, Mouse, and Rat Histamine H ₄ Receptors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8338-8356.	6.4	6
64	A Series of Furimazine Derivatives for Sustained Live-Cell Bioluminescence Imaging and Application to the Monitoring of Myogenesis at the Single-Cell Level. <i>Bioconjugate Chemistry</i> , 2022, 33, 496-504.	3.6	6
65	Discovery of a phase-separating small molecule that selectively sequesters tubulin in cells. <i>Chemical Science</i> , 2022, 13, 5760-5766.	7.4	6
66	Bioluminescent tools for the analysis of G-protein-coupled receptor and arrestin interactions. <i>RSC Advances</i> , 2015, 5, 12655-12663.	3.6	5
67	Fluorescent H ₂ Receptor Squaramide-Type Antagonists: Synthesis, Characterization, and Applications. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1521-1528.	2.8	5
68	LUCIFERASES FOR THE STUDY OF PROTEIN–PROTEIN INTERACTIONS IN LIVE CELLS AND ANIMALS. <i>Nano LIFE</i> , 2010, 01, 79-87.	0.9	4
69	Dynamic monitoring of p53 translocation to mitochondria for the analysis of specific inhibitors using luciferase-fragment complementation. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2818-2827.	3.3	4
70	Establishing a Split Luciferase Assay for Protein Kinase G (PKG) Interaction Studies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1180.	4.1	4
71	Poly(ADP-ribose) Polymerase (PARP) is Critically Involved in Liver Ischemia/Reperfusion-injury. <i>Journal of Surgical Research</i> , 2022, 270, 124-138.	1.6	4
72	Bioluminescent Indicator for Highly Sensitive Analysis of Estrogenic Activity in a Cell-Based Format. <i>Bioconjugate Chemistry</i> , 2016, 27, 2689-2694.	3.6	3

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73	Split luciferase complementation assay for the analysis of G protein-coupled receptor ligand response in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 1354-1361.	3.3	3
74	Parallelized shifted-excitation Raman difference spectroscopy for fluorescence rejection in a temporary varying system. <i>Journal of Biophotonics</i> , 2019, 12, e201960028.	2.3	3
75	A genetically encoded bioluminescent indicator for illuminating proinflammatory cytokines. <i>MethodsX</i> , 2016, 3, 483-489.	1.6	2
76	Optogenetic Control of Phosphatidylinositol (3,4,5)-Triphosphate Production by Light-Sensitive Cryptochrome Proteins on the Plasma Membrane. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1240-1246.	4.9	2
77	Simultaneous Time-Lamination Imaging of Protein Association Using a Split Fluorescent Timer Protein. <i>Analytical Chemistry</i> , 2015, 87, 3366-3372.	6.5	1
78	Live Cell Bioluminescence Imaging in Temporal Reaction of G Protein-Coupled Receptor for High-Throughput Screening and Analysis. <i>Methods in Molecular Biology</i> , 2016, 1461, 195-202.	0.9	1
79	Enhanced bioluminescent sensor for longitudinal detection of CREB activation in living cells. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2740-2747.	2.9	1
80	Quantitative Analysis of Membrane Receptor Trafficking Manipulated by Optogenetic Tools. <i>Methods in Molecular Biology</i> , 2021, 2274, 15-23.	0.9	1
81	Imaging of Endogenous RNA Using Genetically Encoded Probes. <i>Current Protocols in Chemical Biology</i> , 2011, 3, 27-37.	1.7	1
82	Castanospermine suppresses CD44 ectodomain cleavage as revealed by transmembrane bioluminescent sensors. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	1
83	2P223 Signal transduction mechanism of Akt revealed by single molecule imaging of Akt and receptor molecules(13E. Biological & Artificial membrane:Signal transduction,Poster). <i>Seibutsu Butsuri</i> , 2014, 54, S232.	0.1	0
84	Nano-Materials for Bioimaging. <i>Analytical Sciences</i> , 2018, 34, 125-126.	1.6	0
85	Photo-Activatable Akt Probe: A New Tool to Study the Akt-Dependent Physiopathology of Cancer Cells. <i>Oncology Research</i> , 2018, 26, 467-472.	1.5	0
86	Quantitative Determination and Imaging of G β q Signaling in Live Cells via Split-Luciferase Complementation. <i>Methods in Molecular Biology</i> , 2021, 2274, 69-78.	0.9	0
87	Functional Modulation of Receptor Proteins on Cellular Interface with Optogenetic System. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1293, 247-263.	1.6	0
88	A Split-Luciferase-Based Cell Fusion Assay for Evaluating the Myogenesis-Promoting Effects of Bioactive Molecules. <i>Methods in Molecular Biology</i> , 2021, 2274, 79-87.	0.9	0
89	Sphingomyelin localization in the intestinal crypt surface. <i>Biochemical and Biophysical Research Communications</i> , 2022, 611, 14-18.	2.1	0