Hwan Myung Kim

List of Publications by Citations

114 papers	7,398 citations	47 h-index	84 g-index
118 ext. papers	8,300 ext. citations	8.3 avg, IF	6.37 L-index

#	Paper	IF	Citations
114	Small-molecule two-photon probes for bioimaging applications. *Chemical Reviews*, **2015**, 115, 5014-55	68.1	719
113	Two-photon probes for intracellular free metal ions, acidic vesicles, and lipid rafts in live tissues. *Accounts of Chemical Research*, **2009**, 42, 863-72	24.3	510
112	A ratiometric two-photon fluorescent probe reveals reduction in mitochondrial H2S production in Parkinson's disease gene knockout astrocytes. *Journal of the American Chemical Society*, **2013**, 135, 9915-23	16.4	334
111	Ratiometric detection of mitochondrial thiols with a two-photon fluorescent probe. *Journal of the American Chemical Society*, **2011**, 133, 11132-5	16.4	321
110	Benzimidazole-based ratiometric two-photon fluorescent probes for acidic pH in live cells and tissues. *Journal of the American Chemical Society*, **2013**, 135, 17969-77	16.4	270
109	A mitochondrial-targeted two-photon probe for zinc ion. *Journal of the American Chemical Society*, **2011**, 133, 5698-700	16.4	212
108	Development of imidazoline-2-thiones based two-photon fluorescence probes for imaging hypochlorite generation in a co-culture system. *Angewandte Chemie - International Edition*, **2015**, 54, 4890-4	16.4	195
107	A two-photon fluorescent probe for lipid raft imaging: C-laurdan. *ChemBioChem*, **2007**, 8, 553-9	3.8	190
106	Environment-sensitive two-photon probe for intracellular free magnesium ions in live tissue. *Angewandte Chemie - International Edition*, **2007**, 46, 3460-3	16.4	143
105	A Selective Imidazoline-2-thione-Bearing Two-Photon Fluorescent Probe for Hypochlorous Acid in Mitochondria. *Analytical Chemistry*, **2016**, 88, 6615-20	7.8	143
104	A mitochondria-localized two-photon fluorescent probe for ratiometric imaging of hydrogen peroxide in live tissue. *Chemical Communications*, **2012**, 48, 3518-20	5.8	139
103	Mechanism of Cisplatin-Induced Cytotoxicity Is Correlated to Impaired Metabolism Due to Mitochondrial ROS Generation. *PLoS ONE*, **2015**, 10, e0135083	3.7	134
102	Magnesium ion selective two-photon fluorescent probe based on a benzo[h]chromene derivative for in vivo imaging. *Journal of Organic Chemistry*, **2007**, 72, 2088-96	4.2	129
101	Two-photon fluorescent probes for metal ions. *Chemistry - an Asian Journal*, **2011**, 6, 58-69	4.5	119
100	Two-photon fluorescent probes for intracellular free zinc ions in living tissue. *Angewandte Chemie - International Edition*, **2008**, 47, 5167-70	16.4	119
99	Two-photon fluorescent turn-on probe for lipid rafts in live cell and tissue. *Journal of the American Chemical Society*, **2008**, 130, 4246-7	16.4	112
98	Two-photon fluorescent probes for acidic vesicles in live cells and tissue. *Angewandte Chemie - International Edition*, **2008**, 47, 2231-4	16.4	112

97	N-Heterocyclic Carbene Boranes as Reactive Oxygen Species-Responsive Materials: Application to the Two-Photon Imaging of Hypochlorous Acid in Living Cells and Tissues. *Angewandte Chemie - International Edition*, **2018**, 57, 1567-1571	16.4	103
96	Ratiometric two-photon fluorescent probe for quantitative detection of β-galactosidase activity in senescent cells. *Analytical Chemistry*, **2014**, 86, 10001-5	7.8	100
95	A two-photon fluorescent probe for calcium waves in living tissue. *Angewandte Chemie - International Edition*, **2007**, 46, 7445-8	16.4	99
94	A two-photon fluorescent probe for specific detection of hydrogen sulfide based on a familiar ESIPT fluorophore bearing AIE characteristics. *Chemical Communications*, **2017**, 53, 4791-4794	5.8	96
93	Two-photon absorption properties of alkynyl-conjugated pyrene derivatives. *Journal of Organic Chemistry*, **2008**, 73, 5127-30	4.2	96
92	Sodium-ion-selective two-photon fluorescent probe for in vivo imaging. *Angewandte Chemie - International Edition*, **2010**, 49, 364-7	16.4	95
91	A ratiometric two-photon probe for quantitative imaging of mitochondrial pH values. *Chemical Science*, **2016**, 7, 766-773	9.4	92
90	One-photon and two-photon sensing of biothiols using a bis-pyrene-Cu(II) ensemble and its application to image GSH in the cells and tissues. *Analytical Chemistry*, **2015**, 87, 3308-13	7.8	85
89	A viscosity sensitive fluorescent dye for real-time monitoring of mitochondria transport in neurons. *Biosensors and Bioelectronics*, **2016**, 86, 885-891	11.8	84
88	Two-photon materials with large two-photon cross sections. Structure-property relationship. *Chemical Communications*, **2009**, 153-64	5.8	82
87	Quinoline-based two-photon fluorescent probe for nitric oxide in live cells and tissues. *Analytical Chemistry*, **2014**, 86, 308-11	7.8	79
86	Highly Selective and Sensitive Two-Photon Fluorescence Probe for Endogenous Peroxynitrite Detection and Its Applications in Living Cells and Tissues. *Analytical Chemistry*, **2017**, 89, 8496-8500	7.8	78
85	Azulene-Derived Fluorescent Probe for Bioimaging: Detection of Reactive Oxygen and Nitrogen Species by Two-Photon Microscopy. *Journal of the American Chemical Society*, **2019**, 141, 19389-19396	16.4	73
84	Two-photon sensor for metal ions derived from azacrown ether. *Journal of Organic Chemistry*, **2004**, 69, 5749-51	4.2	72
83	A small molecule two-photon fluorescent probe for intracellular sodium ions. *Chemical Communications*, **2014**, 50, 1309-12	5.8	70
82	Two-photon absorption properties of 2,6-bis(styryl)anthracene derivatives: effects of donor-acceptor substituents and the pi center. *Chemistry - A European Journal*, **2005**, 11, 4191-8	4.8	70
81	Metal ion sensing novel calix[4]crown fluoroionophore with a two-photon absorption property. *Journal of Organic Chemistry*, **2006**, 71, 8016-22	4.2	67
80	First hyperpolarizabilities of 1,3,5-tricyanobenzene derivatives: origin of larger beta values for the octupoles than for the dipoles. *ChemPhysChem*, **2006**, 7, 206-12	3.2	66

79	Two-photon fluorescent probes for metal ions in live tissues. *Inorganic Chemistry*, **2014**, 53, 1794-803	5.1	65
78	Ratiometric Two-Photon Fluorescent Probe for Detecting and Imaging Hypochlorite. *Analytical Chemistry*, **2018**, 90, 9510-9514	7.8	62
77	Second-order nonlinear optical properties of octupolar molecules structure□property relationship. *Journal of Materials Chemistry*, **2009**, 19, 7402		61
76	A two-photon fluorescent probe for colorimetric and ratiometric monitoring of mercury in live cells and tissues. *Chemical Communications*, **2019**, 55, 1766-1769	5.8	60
75	Dual-color imaging of sodium/calcium ion activities with two-photon fluorescent probes. *Angewandte Chemie - International Edition*, **2010**, 49, 6786-9	16.4	59
74	Red emissive two-photon probe for real-time imaging of mitochondria trafficking. *Analytical Chemistry*, **2014**, 86, 5638-41	7.8	56
73	A Two-Photon Fluorescent Probe for Imaging Endogenous ONOO near NMDA Receptors in Neuronal Cells and Hippocampal Tissues. *Analytical Chemistry*, **2018**, 90, 9347-9352	7.8	55
72	Endoplasmic Reticulum-Targeted Ratiometric N-Heterocyclic Carbene Borane Probe for Two-Photon Microscopic Imaging of Hypochlorous Acid. *Analytical Chemistry*, **2018**, 90, 12937-12943	7.8	53
71	Two-photon fluorescent probes for long-term imaging of calcium waves in live tissue. *Chemistry - A European Journal*, **2008**, 14, 2075-83	4.8	50
70	An efficient two-photon fluorescent probe for human NAD(P)H:quinone oxidoreductase (hNQO1) detection and imaging in tumor cells. *Chemical Communications*, **2017**, 53, 525-528	5.8	49
69	Dual-color imaging of magnesium/calcium ion activities with two-photon fluorescent probes. *Analytical Chemistry*, **2012**, 84, 8110-3	7.8	49
68	Design of molecular two-photon probes for in vivo imaging. 2H-Benzo[h]chromene-2-one derivatives. *Tetrahedron Letters*, **2007**, 48, 2791-2795	2	49
67	A two-photon fluorescent probe for amyloid-□plaques in living mice. *Chemical Communications*, **2013**, 49, 1303-5	5.8	47
66	A small-molecule two-photon probe for nitric oxide in living tissues. *Chemistry - A European Journal*, **2012**, 18, 12388-94	4.8	47
65	A two-photon ESIPT based fluorescence probe for specific detection of hypochlorite. *Dyes and Pigments*, **2018**, 158, 526-532	4.6	46
64	A two-photon tracer for glucose uptake. *Angewandte Chemie - International Edition*, **2009**, 48, 8027-31	16.4	45
63	A quadrupolar two-photon fluorescent probe for imaging of amyloid-□plaques. *Chemical Science*, **2016**, 7, 4600-4606	9.4	41
62	Simultaneous imaging of mitochondria and lysosomes by using two-photon fluorescent probes. *Chemistry - A European Journal*, **2012**, 18, 15246-9	4.8	40

61	Two-photon Lysotrackers for in vivo imaging. *Journal of Organic Chemistry*, **2011**, 76, 8113-6	4.2	40
60	A carboxylesterase-selective ratiometric fluorescent two-photon probe and its application to hepatocytes and liver tissues. *Chemical Science*, **2016**, 7, 3703-3709	9.4	40
59	A Golgi-localized two-photon probe for imaging zinc ions. *Chemical Communications*, **2015**, 51, 12099-102	5.8	38
58	Development of Imidazoline-2-Thiones Based Two-Photon Fluorescence Probes for Imaging Hypochlorite Generation in a Co-Culture System. *Angewandte Chemie*, **2015**, 127, 4972-4976	3.6	38
57	Molecular two-photon sensor for metal ions derived from bis(2-pyridyl)amine. *Chemical Physics Letters*, **2005**, 410, 312-315	2.5	35
56	A cysteamine-selective two-photon fluorescent probe for ratiometric bioimaging. *Chemical Communications*, **2015**, 51, 2407-10	5.8	34
55	High-depth fluorescence imaging using a two-photon FRET system for mitochondrial pH in live cells and tissues. *Chemical Communications*, **2018**, 54, 13531-13534	5.8	34
54	Carboxylesterase-2-Selective Two-Photon Ratiometric Probe Reveals Decreased Carboxylesterase-2 Activity in Breast Cancer Cells. *Analytical Chemistry*, **2018**, 90, 9465-9471	7.8	33
53	A hexaphenylbenzene based AIEE active two photon probe for the detection of hydrogen sulfide with tunable self-assembly in aqueous media and application in live cell imaging. *Chemical Communications*, **2015**, 51, 15570-3	5.8	31
52	Combining hydrophilic and hydrophobic environment sensitive dyes to detect a wide range of cellular polarity. *Chemical Science*, **2020**, 11, 596-601	9.4	31
51	Two-photon fluorescent probes for biomembrane imaging: effect of chain length. *ChemBioChem*, **2008**, 9, 2830-8	3.8	30
50	Recent progress in the two-photon fluorescent probes for metal ions. *Coordination Chemistry Reviews*, **2021**, 427, 213574	23.2	30
49	Two-photon dyes containing heterocyclic rings with enhanced photostability. *Chemistry - A European Journal*, **2005**, 11, 6386-91	4.8	29
48	Naphthalene-based fluorescent probes for glutathione and their applications in living cells and patients with sepsis. *Theranostics*, **2018**, 8, 1411-1420	12.1	26
47	A ratiometric two-photon probe for Ca in live tissues and its application to spinal cord injury model. *Biomaterials*, **2017**, 141, 251-259	15.6	26
46	Asymmetric cyanine as a far-red fluorescence probe for mitochondrial viscosity. *Dyes and Pigments*, **2020**, 174, 108080	4.6	25
45	First hyperpolarizabilities of hexa(ethynyl)benzene derivatives: effect of conjugation length. *Journal of Materials Chemistry*, **2006**, 16, 2273		24
44	A two-photon ratiometric probe for hydrogen polysulfide (H2Sn): Increase in mitochondrial H2Sn production in a Parkinson disease model. *Sensors and Actuators B: Chemical*, **2019**, 283, 810-819	8.5	24

43	Two-Photon Dye Cocktail for Dual-Color 3D Imaging of Pancreatic Beta and Alpha Cells in Live Islets. *Journal of the American Chemical Society*, **2017**, 139, 3480-3487	16.4	23
42	N-Heterocyclic Carbene Boranes as Reactive Oxygen Species-Responsive Materials: Application to the Two-Photon Imaging of Hypochlorous Acid in Living Cells and Tissues. *Angewandte Chemie*, **2018**, 130, 1583-1587	3.6	23
41	Two-Photon Fluorescence Probe for Selective Monitoring of Superoxide in Live Cells and Tissues. *Analytical Chemistry*, **2019**, 91, 14691-14696	7.8	22
40	Two-photon fluorescence sensors for imaging NMDA receptors and monitoring release of Zn from the presynaptic terminal. *Biosensors and Bioelectronics*, **2017**, 91, 770-779	11.8	21
39	Two-photon fluorescent probe for peroxynitrite. *Tetrahedron Letters*, **2016**, 57, 715-718	2	21
38	A two-photon turn-on probe for lipid rafts with minimum internalization. *ChemBioChem*, **2011**, 12, 392-5	3.8	21
37	A two-photon ratiometric probe for detection of hNQO1 enzyme activity in human colon tissue. *Sensors and Actuators B: Chemical*, **2018**, 272, 203-210	8.5	20
36	New Six-Membered pH-Insensitive Rhodamine Spirocycle in Selective Sensing of Cu through C-C Bond Cleavage and Its Application in Cell Imaging. *ACS Omega*, **2017**, 2, 8167-8176	3.9	19
35	Unusual fluorescence of o-phenylazonaphthol derivatives with aggregation-induced emission and their use in two-photon cell imaging. *Chemical Communications*, **2019**, 55, 6747-6750	5.8	18
34	A fluorescent ESIPT-based benzimidazole platform for the ratiometric two-photon imaging of ONOO and. *Chemical Science*, **2020**, 11, 7329-7334	9.4	18
33	Detection of nickel in fish organs with a two-photon fluorescent probe. *Chemistry - A European Journal*, **2012**, 18, 1953-60	4.8	18
32	Ratiometric Detection of □Glutamyltransferase in Human Colon Cancer Tissues Using a Two-Photon Probe. *Analytical Chemistry*, **2019**, 91, 9246-9250	7.8	16
31	Mitochondrial-targeted two-photon fluorescent probes for zinc ions, H2O2, and thiols in living tissues. *Oxidative Medicine and Cellular Longevity*, **2013**, 2013, 323619	6.7	16
30	Elevated TRPV4 Levels Contribute to Endothelial Damage and Scarring in Experimental Spinal Cord Injury. *Journal of Neuroscience*, **2020**, 40, 1943-1955	6.6	16
29	Design and synthesis of efficient heavy-atom-free photosensitizers for photodynamic therapy of cancer. *Chemical Communications*, **2020**, 56, 11489-11492	5.8	16
28	Near-IR Fluorescent Tracer for Glucose-Uptake Monitoring in Live Cells. *Bioconjugate Chemistry*, **2018**, 29, 3394-3401	6.3	14
27	Carboxylate-Containing Two-Photon Probe for the Simultaneous Detection of Extra- and Intracellular pH Values in Colon Cancer Tissue. *Analytical Chemistry*, **2018**, 90, 8058-8064	7.8	14
26	Two-photon imaging of hydrogen polysulfides in living cells and hippocampal tissues. *Sensors and Actuators B: Chemical*, **2020**, 322, 128564	8.5	13

25	Pyrrolidine dithiocarbamate reverses Bcl-xL-mediated apoptotic resistance to doxorubicin by inducing paraptosis. *Carcinogenesis*, **2018**, 39, 458-470	4.6	13
24	Screening of Drug-Induced Steatosis and Phospholipidosis Using Lipid Droplet-Selective Two-Photon Probes. *Analytical Chemistry*, **2020**, 92, 11223-11231	7.8	13
23	An azo dye for photodynamic therapy that is activated selectively by two-photon excitation. *Chemical Science*, **2020**, 12, 427-434	9.4	13
22	Visualization of vesicular transport from the endoplasmic reticulum to lysosome using an amidine derived two-photon probe. *Chemical Communications*, **2017**, 53, 6097-6100	5.8	12
21	Real-time monitoring of vesicle pH in an endocytic pathway using an EGF-conjugated two-photon probe. *Chemical Communications*, **2016**, 52, 14007-14010	5.8	12
20	Discrimination between Human Colorectal Neoplasms with a Dual-Recognitive Two-Photon Probe. *Analytical Chemistry*, **2019**, 91, 14705-14711	7.8	10
19	□Syntrophin stabilizes catalase to reduce endogenous reactive oxygen species levels during myoblast differentiation. *FEBS Journal*, **2017**, 284, 2052-2065	5.7	8
18	Readily Accessible and Predictable Naphthalene-Based Two-Photon Fluorophore with Full Visible-Color Coverage. *Chemistry - A European Journal*, **2016**, 22, 14166-70	4.8	8
17	A Two-Photon Ratiometric Fluorescent Probe for Imaging of Hydrogen Peroxide Levels in Rat Organ Tissues. *ChemistryOpen*, **2018**, 7, 53-56	2.3	8
16	A Highly Sensitive Two-Photon Ratiometric Probe for Rapid Detection of the hNQO1 Enzyme in Colon Cancer Tissue. *Asian Journal of Organic Chemistry*, **2019**, 8, 1707-1712	3	7
15	Two-Photon Fluorescent Probes for Detecting Enzyme Activities in Live Tissues.. *ACS Applied Bio Materials*, **2021**, 4, 2957-2973	4.1	7
14	Two-Photon and Multicolor Fluorogenic Bioorthogonal Probes Based on Tetrazine-Conjugated Naphthalene Fluorophores. *Bioconjugate Chemistry*, **2020**, 31, 1545-1550	6.3	6
13	Two-photon ESIPT-based fluorescent probe using 4-hydroxyisoindoline-1,3-dione for the detection of peroxynitrite. *Chemical Communications*, **2021**, 57, 11084-11087	5.8	6
12	Ketene-forming elimination reactions from aryl phenylacetates promoted by R2NH in MeCN: effects of base-solvent and □phenyl group. *Journal of Physical Organic Chemistry*, **2007**, 20, 685-689	2.1	5
11	Near-Infrared Ratiometric Two-Photon Probe for pH Measurement in Human Stomach Cancer Tissue.. *ACS Applied Bio Materials*, **2021**, 4, 2135-2141	4.1	5
10	A Diagnostic Method for Gastric Cancer Using Two-Photon Microscopy With Enzyme-Selective Fluorescent Probes: A Pilot Study. *Frontiers in Oncology*, **2021**, 11, 634219	5.3	4
9	Azulene-based fluorescent chemosensor for adenosine diphosphate. *Chemical Communications*, **2021**, 57, 10608-10611	5.8	4
8	Development of two-photon fluorescence probe for detecting cyclooxygenase-2 level in human colorectal cancer tissue. *Sensors and Actuators B: Chemical*, **2021**, 330, 129329	8.5	3

7	A coumarin-based reversible two-photon fluorescence probe for imaging glutathione near -methyl-D-aspartate (NMDA) receptors.. *Chemical Communications*, **2022**,	5.8	3
6	Highly Stable Red-Emissive Ratiometric Probe for Monitoring Galactosidase Activity Using Fluorescence Microscopy and Flow Cytometry. *Analytical Chemistry*, **2021**, 93, 14778-14783	7.8	2
5	Hypochlorite-Activated Fluorescence Emission and Antibacterial Activities of Imidazole Derivatives for Biological Applications. *Frontiers in Chemistry*, **2021**, 9, 713078	5	2
4	Fluorescence Probe for Imaging -Methyl-d-aspartate Receptors and Monitoring GSH Selectively Using Two-Photon Microscopy. *Analytical Chemistry*, **2021**, 93, 11612-11616	7.8	2
3	Highly selective two-photon fluorescent off-on probes for imaging tyrosinase activity in living cells and tissues. *Chemical Communications*, **2021**, 57, 6911-6914	5.8	2
2	A red-emissive two-photon fluorescent probe for mitochondrial sodium ions in live tissue. *Chemical Communications*, **2021**, 57, 8929-8932	5.8	1
1	Analyzing Nonmelanoma Skin Cancer Using Enzyme-Activatable Two-Photon Probes. *Bulletin of the Korean Chemical Society*, **2021**, 42, 103-106	1.2	0