Hwan Myung Kim

List of Publications by Year
in descending order

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116 papers	8,965 citations	44444 50 h-index	48101 92 g-index
118 all docs	118 docs citations	118 times ranked	8435 citing authors

#	Article	IF	Citations
1	Observing hepatic steatosis with a commercially viable two-photon fluorogenic probe. Materials Chemistry Frontiers, 2022, 6, 553-560.	3.2	19
2	A coumarin-based reversible two-photon fluorescence probe for imaging glutathione near N-methyl-<scp>d</scp>-aspartate (NMDA) receptors. Chemical Communications, 2022, 58, 3633-3636.	2.2	11
3	Highly Sensitive Two-Photon Lipid Droplet Tracker for In Vivo Screening of Drug Induced Liver Injury. ACS Sensors, 2022, 7, 1027-1035.	4.0	19
4	An azo dye for photodynamic therapy that is activated selectively by two-photon excitation. Chemical Science, 2021, 12, 427-434.	3.7	33
5	Recent progress in the two-photon fluorescent probes for metal ions. Coordination Chemistry Reviews, 2021, 427, 213574.	9.5	85
6	Development of two-photon fluorescence probe for detecting cyclooxygenase-2 level in human colorectal cancer tissue. Sensors and Actuators B: Chemical, 2021, 330, 129329.	4.0	7
7	Analyzing <scp>Nonmelanoma</scp> Skin Cancer Using <scp>Enzymeâ€Activatable Twoâ€Photon</scp> Probes. Bulletin of the Korean Chemical Society, 2021, 42, 103-106.	1.0	5
8	Two-photon ESIPT-based fluorescent probe using 4-hydroxyisoindoline-1,3-dione for the detection of peroxynitrite. Chemical Communications, 2021, 57, 11084-11087.	2.2	37
9	Two-Photon Fluorescent Probes for Detecting Enzyme Activities in Live Tissues. ACS Applied Bio Materials, 2021, 4, 2957-2973.	2.3	17
10	Hypochlorite-Activated Fluorescence Emission and Antibacterial Activities of Imidazole Derivatives for Biological Applications. Frontiers in Chemistry, 2021, 9, 713078.	1.8	6
11	A Diagnostic Method for Gastric Cancer Using Two-Photon Microscopy With Enzyme-Selective Fluorescent Probes: A Pilot Study. Frontiers in Oncology, 2021, 11, 634219.	1.3	7
12	Fluorescence Probe for Imaging N-Methyl-<scp>d</scp>-aspartate Receptors and Monitoring GSH Selectively Using Two-Photon Microscopy. Analytical Chemistry, 2021, 93, 11612-11616.	3.2	26
13	A red-emissive two-photon fluorescent probe for mitochondrial sodium ions in live tissue. Chemical Communications, 2021, 57, 8929-8932.	2.2	5
14	Near-Infrared Ratiometric Two-Photon Probe for pH Measurement in Human Stomach Cancer Tissue. ACS Applied Bio Materials, 2021, 4, 2135-2141.	2.3	14
15	Highly selective two-photon fluorescent offâ€“on probes for imaging tyrosinase activity in living cells and tissues. Chemical Communications, 2021, 57, 6911-6914.	2.2	12
16	Azulene-based fluorescent chemosensor for adenosine diphosphate. Chemical Communications, 2021, 57, 10608-10611.	2.2	10
17	Highly Stable Red-Emissive Ratiometric Probe for Monitoring Î²-Galactosidase Activity Using Fluorescence Microscopy and Flow Cytometry. Analytical Chemistry, 2021, 93, 14778-14783.	3.2	19
18	Cancer-Targeted Azo Dye for Two-Photon Photodynamic Therapy in Human Colon Tissue. Analytical Chemistry, 2021, 93, 16821-16827.	3.2	7

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19	Combining hydrophilic and hydrophobic environment sensitive dyes to detect a wide range of cellular polarity. Chemical Science, 2020, 11, 596-601.	3.7	48
20	Asymmetric cyanine as a far-red fluorescence probe for mitochondrial viscosity. Dyes and Pigments, 2020, 174, 108080.	2.0	39
21	Screening of Drug-Induced Steatosis and Phospholipidosis Using Lipid Droplet-Selective Two-Photon Probes. Analytical Chemistry, 2020, 92, 11223-11231.	3.2	40
22	Design and synthesis of efficient heavy-atom-free photosensitizers for photodynamic therapy of cancer. Chemical Communications, 2020, 56, 11489-11492.	2.2	32
23	A fluorescent ESIPT-based benzimidazole platform for the ratiometric two-photon imaging of ONOO^{â^'}in vitro and ex vivo. Chemical Science, 2020, 11, 7329-7334.	3.7	39
24	Two-photon imaging of hydrogen polysulfides in living cells and hippocampal tissues. Sensors and Actuators B: Chemical, 2020, 322, 128564.	4.0	29
25	Two-Photon and Multicolor Fluorogenic Bioorthogonal Probes Based on Tetrazine-Conjugated Naphthalene Fluorophores. Bioconjugate Chemistry, 2020, 31, 1545-1550.	1.8	15
26	Elevated TRPV4 Levels Contribute to Endothelial Damage and Scarring in Experimental Spinal Cord Injury. Journal of Neuroscience, 2020, 40, 1943-1955.	1.7	41
27	Discrimination between Human Colorectal Neoplasms with a Dual-Recognitive Two-Photon Probe. Analytical Chemistry, 2019, 91, 14705-14711.	3.2	19
28	Two-Photon Fluorescence Probe for Selective Monitoring of Superoxide in Live Cells and Tissues. Analytical Chemistry, 2019, 91, 14691-14696.	3.2	30
29	A two-photon fluorescent probe for colorimetric and ratiometric monitoring of mercury in live cells and tissues. Chemical Communications, 2019, 55, 1766-1769.	2.2	91
30	Ratiometric Detection of Î³-Glutamyltransferase in Human Colon Cancer Tissues Using a Two-Photon Probe. Analytical Chemistry, 2019, 91, 9246-9250.	3.2	27
31	Unusual fluorescence of o-phenylazonaphthol derivatives with aggregation-induced emission and their use in two-photon cell imaging. Chemical Communications, 2019, 55, 6747-6750.	2.2	23
32	A Highly Sensitive Twoâ€Photon Ratiometric Probe for Rapid Detection of the hNQO1 Enzyme in Colon Cancer Tissue. Asian Journal of Organic Chemistry, 2019, 8, 1707-1712.	1.3	9
33	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.	6.6	125
34	A two-photon ratiometric probe for hydrogen polysulfide (H2Sn): Increase in mitochondrial H2Sn production in a Parkinsonâ€™s disease model. Sensors and Actuators B: Chemical, 2019, 283, 810-819.	4.0	32
35	A two-photon ESIPT based fluorescence probe for specific detection of hypochlorite. Dyes and Pigments, 2018, 158, 526-532.	2.0	67
36	Nâ€Heterocyclic Carbene Boranes as Reactive Oxygen Speciesâ€Responsive Materials: Application to the Twoâ€Photon Imaging of Hypochlorous Acid in Living Cells and Tissues. Angewandte Chemie - International Edition, 2018, 57, 1567-1571.	7.2	127

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37	Pyrrolidine dithiocarbamate reverses Bcl-xL-mediated apoptotic resistance to doxorubicin by inducing paraptosis. Carcinogenesis, 2018, 39, 458-470.	1.3	20
38	Nâ€Heterocyclic Carbene Boranes as Reactive Oxygen Speciesâ€Responsive Materials: Application to the Twoâ€Photon Imaging of Hypochlorous Acid in Living Cells and Tissues. Angewandte Chemie, 2018, 130, 1583-1587.	1.6	26
39	A Twoâ€Photon Ratiometric Fluorescent Probe for Imaging of Hydrogen Peroxide Levels in Rat Organ Tissues. ChemistryOpen, 2018, 7, 53-56.	0.9	12
40	High-depth fluorescence imaging using a two-photon FRET system for mitochondrial pH in live cells and tissues. Chemical Communications, 2018, 54, 13531-13534.	2.2	48
41	Endoplasmic Reticulum-Targeted Ratiometric N-Heterocyclic Carbene Borane Probe for Two-Photon Microscopic Imaging of Hypochlorous Acid. Analytical Chemistry, 2018, 90, 12937-12943.	3.2	75
42	Near-IR Fluorescent Tracer for Glucose-Uptake Monitoring in Live Cells. Bioconjugate Chemistry, 2018, 29, 3394-3401.	1.8	22
43	A two-photon ratiometric probe for detection of hNQO1 enzyme activity in human colon tissue. Sensors and Actuators B: Chemical, 2018, 272, 203-210.	4.0	24
44	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.	3.2	18
45	A Two-Photon Fluorescent Probe for Imaging Endogenous ONOO^{â€“} near NMDA Receptors in Neuronal Cells and Hippocampal Tissues. Analytical Chemistry, 2018, 90, 9347-9352.	3.2	71
46	Naphthalene-based fluorescent probes for glutathione and their applications in living cells and patients with sepsis. Theranostics, 2018, 8, 1411-1420.	4.6	31
47	Carboxylesterase-2-Selective Two-Photon Ratiometric Probe Reveals Decreased Carboxylesterase-2 Activity in Breast Cancer Cells. Analytical Chemistry, 2018, 90, 9465-9471.	3.2	49
48	Ratiometric Two-Photon Fluorescent Probe for Detecting and Imaging Hypochlorite. Analytical Chemistry, 2018, 90, 9510-9514.	3.2	86
49	Two-photon fluorescence sensors for imaging NMDA receptors and monitoring release of Zn2+ from the presynaptic terminal. Biosensors and Bioelectronics, 2017, 91, 770-779.	5.3	24
50	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.	6.6	30
51	Visualization of vesicular transport from the endoplasmic reticulum to lysosome using an amidine derived two-photon probe. Chemical Communications, 2017, 53, 6097-6100.	2.2	14
52	Î±â€Syntrophin stabilizes catalase to reduce endogenous reactive oxygen species levels during myoblast differentiation. FEBS Journal, 2017, 284, 2052-2065.	2.2	8
53	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.	2.2	56
54	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.	2.2	116

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55	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.	3.2	93
56	A ratiometric two-photon probe for Ca2+ in live tissues and its application to spinal cord injury model. Biomaterials, 2017, 141, 251-259.	5.7	29
57	New Six-Membered pH-Insensitive Rhodamine Spirocycle in Selective Sensing of Cu²⁺ through Câ€“C Bond Cleavage and Its Application in Cell Imaging. ACS Omega, 2017, 2, 8167-8176.	1.6	28
58	A viscosity sensitive fluorescent dye for real-time monitoring of mitochondria transport in neurons. Biosensors and Bioelectronics, 2016, 86, 885-891.	5.3	98
59	A Selective Imidazoline-2-thione-Bearing Two-Photon Fluorescent Probe for Hypochlorous Acid in Mitochondria. Analytical Chemistry, 2016, 88, 6615-6620.	3.2	160
60	A quadrupolar two-photon fluorescent probe for in vivo imaging of amyloid-Î² plaques. Chemical Science, 2016, 7, 4600-4606.	3.7	49
61	A carboxylesterase-selective ratiometric fluorescent two-photon probe and its application to hepatocytes and liver tissues. Chemical Science, 2016, 7, 3703-3709.	3.7	54
62	Readily Accessible and Predictable Naphthaleneâ€Based Twoâ€Photon Fluorophore with Full Visibleâ€Color Coverage. Chemistry - A European Journal, 2016, 22, 14166-14170.	1.7	10
63	Real-time monitoring of vesicle pH in an endocytic pathway using an EGF-conjugated two-photon probe. Chemical Communications, 2016, 52, 14007-14010.	2.2	14
64	Two-photon fluorescent probe for peroxynitrite. Tetrahedron Letters, 2016, 57, 715-718.	0.7	22
65	A ratiometric two-photon probe for quantitative imaging of mitochondrial pH values. Chemical Science, 2016, 7, 766-773.	3.7	118
66	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, 3308-3313.	3.2	95
67	A cysteamine-selective two-photon fluorescent probe for ratiometric bioimaging. Chemical Communications, 2015, 51, 2407-2410.	2.2	34
68	Development of Imidazolineâ€2â€Thiones Based Twoâ€Photon Fluorescence Probes for Imaging Hypochlorite Generation in a Coâ€Culture System. Angewandte Chemie - International Edition, 2015, 54, 4890-4894.	7.2	217
69	A Golgi-localized two-photon probe for imaging zinc ions. Chemical Communications, 2015, 51, 12099-12102.	2.2	42
70	Small-Molecule Two-Photon Probes for Bioimaging Applications. Chemical Reviews, 2015, 115, 5014-5055.	23.0	889
71	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, 15570-15573.	2.2	35
72	Mechanism of Cisplatin-Induced Cytotoxicity Is Correlated to Impaired Metabolism Due to Mitochondrial ROS Generation. PLoS ONE, 2015, 10, e0135083.	1.1	210

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73	Quinoline-Based Two-Photon Fluorescent Probe for Nitric Oxide in Live Cells and Tissues. Analytical Chemistry, 2014, 86, 308-311.	3.2	90
74	A small molecule two-photon fluorescent probe for intracellular sodium ions. Chemical Communications, 2014, 50, 1309-1312.	2.2	80
75	Ratiometric Two-Photon Fluorescent Probe for Quantitative Detection of Î²-Galactosidase Activity in Senescent Cells. Analytical Chemistry, 2014, 86, 10001-10005.	3.2	131
76	Red Emissive Two-Photon Probe for Real-Time Imaging of Mitochondria Trafficking. Analytical Chemistry, 2014, 86, 5638-5641.	3.2	62
77	Two-Photon Fluorescent Probes for Metal Ions in Live Tissues. Inorganic Chemistry, 2014, 53, 1794-1803.	1.9	72
78	Benzimidazole-Based Ratiometric Two-Photon Fluorescent Probes for Acidic pH in Live Cells and Tissues. Journal of the American Chemical Society, 2013, 135, 17969-17977.	6.6	306
79	A two-photon fluorescent probe for amyloid-Î² plaques in living mice. Chemical Communications, 2013, 49, 1303.	2.2	54
80	A Ratiometric Two-Photon Fluorescent Probe Reveals Reduction in Mitochondrial H₂S Production in Parkinsonâ€™s Disease Gene Knockout Astrocytes. Journal of the American Chemical Society, 2013, 135, 9915-9923.	6.6	383
81	Ratiometric Two-Photon Fluorescent Probes for Zinc Ions, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn mathvariant="bold">2</mml:mn></mml:msub><mml:msub><mml:mtext>O</mml:mtext><mml:mn mathvariant="bold">2</mml:mn></mml:msub></mml:mrow></mml:math>, and Thiols in Living Tissues. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-11.	1.9	20
82	Simultaneous Imaging of Mitochondria and Lysosomes by Using Twoâ€Photon Fluorescent Probes. Chemistry - A European Journal, 2012, 18, 15246-15249.	1.7	42
83	A mitochondria-localized two-photon fluorescent probe for ratiometric imaging of hydrogen peroxide in live tissue. Chemical Communications, 2012, 48, 3518.	2.2	149
84	A Smallâ€Molecule Twoâ€Photon Probe for Nitric Oxide in Living Tissues. Chemistry - A European Journal, 2012, 18, 12388-12394.	1.7	49
85	Dual-Color Imaging of Magnesium/Calcium Ion Activities with Two-Photon Fluorescent Probes. Analytical Chemistry, 2012, 84, 8110-8113.	3.2	52
86	Detection of Nickel in Fish Organs with a Twoâ€Photon Fluorescent Probe. Chemistry - A European Journal, 2012, 18, 1953-1960.	1.7	26
87	Two-Photon Lysotrackers for in Vivo Imaging. Journal of Organic Chemistry, 2011, 76, 8113-8116.	1.7	44
88	A Mitochondrial-Targeted Two-Photon Probe for Zinc Ion. Journal of the American Chemical Society, 2011, 133, 5698-5700.	6.6	227
89	Ratiometric Detection of Mitochondrial Thiols with a Two-Photon Fluorescent Probe. Journal of the American Chemical Society, 2011, 133, 11132-11135.	6.6	348
90	Twoâ€Photon Fluorescent Probes for Metal Ions. Chemistry - an Asian Journal, 2011, 6, 58-69.	1.7	127

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91	A Twoâ€Photon Turnâ€On Probe for Lipid Rafts with Minimum Internalization. ChemBioChem, 2011, 12, 392-395.	1.3	22
92	Sodiumâ€Ionâ€Selective Twoâ€Photon Fluorescent Probe for In Vivo Imaging. Angewandte Chemie - International Edition, 2010, 49, 364-367.	7.2	101
93	Dualâ€Color Imaging of Sodium/Calcium Ion Activities with Twoâ€Photon Fluorescent Probes. Angewandte Chemie - International Edition, 2010, 49, 6786-6789.	7.2	64
94	A Twoâ€Photon Tracer for Glucose Uptake. Angewandte Chemie - International Edition, 2009, 48, 8027-8031.	7.2	55
95	Two-photon materials with large two-photon cross sections. Structureâ€“property relationship. Chemical Communications, 2009, , 153-164.	2.2	102
96	Second-order nonlinear optical properties of octupolar molecules structureâ€“property relationship. Journal of Materials Chemistry, 2009, 19, 7402.	6.7	69
97	Two-Photon Probes for Intracellular Free Metal Ions, Acidic Vesicles, And Lipid Rafts in Live Tissues. Accounts of Chemical Research, 2009, 42, 863-872.	7.6	530
98	Twoâ€Photon Fluorescent Probes for Biomembrane Imaging: Effect of Chain Length. ChemBioChem, 2008, 9, 2830-2838.	1.3	32
99	Twoâ€Photon Fluorescent Probes for Longâ€Term Imaging of Calcium Waves in Live Tissue. Chemistry - A European Journal, 2008, 14, 2075-2083.	1.7	50
100	Twoâ€Photon Fluorescent Probes for Acidic Vesicles in Live Cells and Tissue. Angewandte Chemie - International Edition, 2008, 47, 2231-2234.	7.2	122
101	Twoâ€Photon Fluorescent Probes for Intracellular Free Zinc Ions in Living Tissue. Angewandte Chemie - International Edition, 2008, 47, 5167-5170.	7.2	125
102	Two-Photon Absorption Properties of Alkynyl-Conjugated Pyrene Derivatives. Journal of Organic Chemistry, 2008, 73, 5127-5130.	1.7	102
103	Two-Photon Fluorescent Turn-On Probe for Lipid Rafts in Live Cell and Tissue. Journal of the American Chemical Society, 2008, 130, 4246-4247.	6.6	123
104	Magnesium Ion Selective Two-Photon Fluorescent Probe Based on a Benzo[h]chromene Derivative for in Vivo Imaging. Journal of Organic Chemistry, 2007, 72, 2088-2096.	1.7	136
105	A Two-Photon Fluorescent Probe for Lipid Raft Imaging: C-Laurdan. ChemBioChem, 2007, 8, 553-559.	1.3	228
106	Environment-Sensitive Two-Photon Probe for Intracellular Free Magnesium Ions in Live Tissue. Angewandte Chemie - International Edition, 2007, 46, 3460-3463.	7.2	151
107	A Twoâ€Photon Fluorescent Probe for Calcium Waves in Living Tissue. Angewandte Chemie - International Edition, 2007, 46, 7445-7448.	7.2	102
108	Design of molecular two-photon probes for in vivo imaging. 2H-Benzo[h]chromene-2-one derivatives. Tetrahedron Letters, 2007, 48, 2791-2795.	0.7	56

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109	Keteneâ€forming elimination reactions from aryl phenylacetates promoted by R₂NH in MeCN: effects of baseâ€solvent and Î²â€phenyl group. Journal of Physical Organic Chemistry, 2007, 20, 685-689.	0.9	5
110	First hyperpolarizabilities of hexa(ethynyl)benzene derivatives: effect of conjugation length. Journal of Materials Chemistry, 2006, 16, 2273.	6.7	24
111	Metal Ion Sensing Novel Calix[4]crown Fluoroionophore with a Two-Photon Absorption Property. Journal of Organic Chemistry, 2006, 71, 8016-8022.	1.7	71
112	First Hyperpolarizabilities of 1,3,5-Tricyanobenzene Derivatives: Origin of LargerÎ² Values for the Octupoles than for the Dipoles. ChemPhysChem, 2006, 7, 206-212.	1.0	77
113	Molecular two-photon sensor for metal ions derived from bis(2-pyridyl)amine. Chemical Physics Letters, 2005, 410, 312-315.	1.2	35
114	Two-Photon Absorption Properties of 2,6-Bis(styryl)anthracene Derivatives: Effects of Donor-Acceptor Substituents and the Ï€ Center. Chemistry - A European Journal, 2005, 11, 4191-4198.	1.7	75
115	Two-Photon Dyes Containing Heterocyclic Rings with Enhanced Photostability. Chemistry - A European Journal, 2005, 11, 6386-6391.	1.7	32
116	Two-Photon Sensor for Metal Ions Derived from Azacrown Ether. Journal of Organic Chemistry, 2004, 69, 5749-5751.	1.7	73