

# Hwan Myung Kim

## List of Publications by Year in descending order

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116  
papers

8,965  
citations

36303

51  
h-index

42399

92  
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118  
all docs

118  
docs citations

118  
times ranked

7614  
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-Molecule Two-Photon Probes for Bioimaging Applications. <i>Chemical Reviews</i> , 2015, 115, 5014-5055.	47.7	889
2	Two-Photon Probes for Intracellular Free Metal Ions, Acidic Vesicles, And Lipid Rafts in Live Tissues. <i>Accounts of Chemical Research</i> , 2009, 42, 863-872.	15.6	530
3	A Ratiometric Two-Photon Fluorescent Probe Reveals Reduction in Mitochondrial H <sub>2</sub> S Production in Parkinson's Disease Gene Knockout Astrocytes. <i>Journal of the American Chemical Society</i> , 2013, 135, 9915-9923.	13.7	383
4	Ratiometric Detection of Mitochondrial Thiols with a Two-Photon Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2011, 133, 11132-11135.	13.7	348
5	Benzimidazole-Based Ratiometric Two-Photon Fluorescent Probes for Acidic pH in Live Cells and Tissues. <i>Journal of the American Chemical Society</i> , 2013, 135, 17969-17977.	13.7	306
6	A Two-Photon Fluorescent Probe for Lipid Raft Imaging: C-Laurdan. <i>ChemBioChem</i> , 2007, 8, 553-559.	2.6	228
7	A Mitochondrial-Targeted Two-Photon Probe for Zinc Ion. <i>Journal of the American Chemical Society</i> , 2011, 133, 5698-5700.	13.7	227
8	Development of Imidazoline-2-thiones Based Two-Photon Fluorescence Probes for Imaging Hypochlorite Generation in a Co-Culture System. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4890-4894.	13.8	217
9	Mechanism of Cisplatin-Induced Cytotoxicity Is Correlated to Impaired Metabolism Due to Mitochondrial ROS Generation. <i>PLoS ONE</i> , 2015, 10, e0135083.	2.5	210
10	A Selective Imidazoline-2-thione-Bearing Two-Photon Fluorescent Probe for Hypochlorous Acid in Mitochondria. <i>Analytical Chemistry</i> , 2016, 88, 6615-6620.	6.5	160
11	Environment-Sensitive Two-Photon Probe for Intracellular Free Magnesium Ions in Live Tissue. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3460-3463.	13.8	151
12	A mitochondria-localized two-photon fluorescent probe for ratiometric imaging of hydrogen peroxide in live tissue. <i>Chemical Communications</i> , 2012, 48, 3518.	4.1	149
13	Magnesium Ion Selective Two-Photon Fluorescent Probe Based on a Benzo[h]chromene Derivative for in Vivo Imaging. <i>Journal of Organic Chemistry</i> , 2007, 72, 2088-2096.	3.2	136
14	Ratiometric Two-Photon Fluorescent Probe for Quantitative Detection of $\beta$ -Galactosidase Activity in Senescent Cells. <i>Analytical Chemistry</i> , 2014, 86, 10001-10005.	6.5	131
15	Two-Photon Fluorescent Probes for Metal Ions. <i>Chemistry - an Asian Journal</i> , 2011, 6, 58-69.	3.3	127
16	N-Heterocyclic Carbene Boranes as Reactive Oxygen Species-Responsive Materials: Application to the Two-Photon Imaging of Hypochlorous Acid in Living Cells and Tissues. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1567-1571.	13.8	127
17	Two-Photon Fluorescent Probes for Intracellular Free Zinc Ions in Living Tissue. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5167-5170.	13.8	125
18	Azulene-Derived Fluorescent Probe for Bioimaging: Detection of Reactive Oxygen and Nitrogen Species by Two-Photon Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 19389-19396.	13.7	125

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19	Two-Photon Fluorescent Turn-On Probe for Lipid Rafts in Live Cell and Tissue. <i>Journal of the American Chemical Society</i> , 2008, 130, 4246-4247.	13.7	123
20	Two-Photon Fluorescent Probes for Acidic Vesicles in Live Cells and Tissue. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2231-2234.	13.8	122
21	A ratiometric two-photon probe for quantitative imaging of mitochondrial pH values. <i>Chemical Science</i> , 2016, 7, 766-773.	7.4	118
22	A two-photon fluorescent probe for specific detection of hydrogen sulfide based on a familiar ESIPT fluorophore bearing AIE characteristics. <i>Chemical Communications</i> , 2017, 53, 4791-4794.	4.1	116
23	A Two-Photon Fluorescent Probe for Calcium Waves in Living Tissue. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 7445-7448.	13.8	102
24	Two-Photon Absorption Properties of Alkynyl-Conjugated Pyrene Derivatives. <i>Journal of Organic Chemistry</i> , 2008, 73, 5127-5130.	3.2	102
25	Two-photon materials with large two-photon cross sections. Structure-property relationship. <i>Chemical Communications</i> , 2009, , 153-164.	4.1	102
26	Sodium-Selective Two-Photon Fluorescent Probe for In Vivo Imaging. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 364-367.	13.8	101
27	A viscosity sensitive fluorescent dye for real-time monitoring of mitochondria transport in neurons. <i>Biosensors and Bioelectronics</i> , 2016, 86, 885-891.	10.1	98
28	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. <i>Analytical Chemistry</i> , 2015, 87, 3308-3313.	6.5	95
29	Highly Selective and Sensitive Two-Photon Fluorescence Probe for Endogenous Peroxynitrite Detection and Its Applications in Living Cells and Tissues. <i>Analytical Chemistry</i> , 2017, 89, 8496-8500.	6.5	93
30	A two-photon fluorescent probe for colorimetric and ratiometric monitoring of mercury in live cells and tissues. <i>Chemical Communications</i> , 2019, 55, 1766-1769.	4.1	91
31	Quinoline-Based Two-Photon Fluorescent Probe for Nitric Oxide in Live Cells and Tissues. <i>Analytical Chemistry</i> , 2014, 86, 308-311.	6.5	90
32	Ratiometric Two-Photon Fluorescent Probe for Detecting and Imaging Hypochlorite. <i>Analytical Chemistry</i> , 2018, 90, 9510-9514.	6.5	86
33	Recent progress in the two-photon fluorescent probes for metal ions. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213574.	18.8	85
34	A small molecule two-photon fluorescent probe for intracellular sodium ions. <i>Chemical Communications</i> , 2014, 50, 1309-1312.	4.1	80
35	First Hyperpolarizabilities of 1,3,5-Tricyanobenzene Derivatives: Origin of Larger $\beta^2$ Values for the Octupoles than for the Dipoles. <i>ChemPhysChem</i> , 2006, 7, 206-212.	2.1	77
36	Two-Photon Absorption Properties of 2,6-Bis(styryl)anthracene Derivatives: Effects of Donor-Acceptor Substituents and the $\pi$ Center. <i>Chemistry - A European Journal</i> , 2005, 11, 4191-4198.	3.3	75

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37	Endoplasmic Reticulum-Targeted Ratiometric N-Heterocyclic Carbene Borane Probe for Two-Photon Microscopic Imaging of Hypochlorous Acid. <i>Analytical Chemistry</i> , 2018, 90, 12937-12943.	6.5	75
38	Two-Photon Sensor for Metal Ions Derived from Azacrown Ether. <i>Journal of Organic Chemistry</i> , 2004, 69, 5749-5751.	3.2	73
39	Two-Photon Fluorescent Probes for Metal Ions in Live Tissues. <i>Inorganic Chemistry</i> , 2014, 53, 1794-1803.	4.0	72
40	Metal Ion Sensing Novel Calix[4]crown Fluoroionophore with a Two-Photon Absorption Property. <i>Journal of Organic Chemistry</i> , 2006, 71, 8016-8022.	3.2	71
41	A Two-Photon Fluorescent Probe for Imaging Endogenous ONOO <sup>-</sup> near NMDA Receptors in Neuronal Cells and Hippocampal Tissues. <i>Analytical Chemistry</i> , 2018, 90, 9347-9352.	6.5	71
42	Second-order nonlinear optical properties of octupolar molecules structure-property relationship. <i>Journal of Materials Chemistry</i> , 2009, 19, 7402.	6.7	69
43	A two-photon ESIPT based fluorescence probe for specific detection of hypochlorite. <i>Dyes and Pigments</i> , 2018, 158, 526-532.	3.7	67
44	Dual-Color Imaging of Sodium/Calcium Ion Activities with Two-Photon Fluorescent Probes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6786-6789.	13.8	64
45	Red Emissive Two-Photon Probe for Real-Time Imaging of Mitochondria Trafficking. <i>Analytical Chemistry</i> , 2014, 86, 5638-5641.	6.5	62
46	Design of molecular two-photon probes for in vivo imaging. 2H-Benzo[h]chromene-2-one derivatives. <i>Tetrahedron Letters</i> , 2007, 48, 2791-2795.	1.4	56
47	An efficient two-photon fluorescent probe for human NAD(P)H:quinone oxidoreductase (hNQO1) detection and imaging in tumor cells. <i>Chemical Communications</i> , 2017, 53, 525-528.	4.1	56
48	A Two-Photon Tracer for Glucose Uptake. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8027-8031.	13.8	55
49	A two-photon fluorescent probe for amyloid- $\beta^2$ plaques in living mice. <i>Chemical Communications</i> , 2013, 49, 1303.	4.1	54
50	A carboxylesterase-selective ratiometric fluorescent two-photon probe and its application to hepatocytes and liver tissues. <i>Chemical Science</i> , 2016, 7, 3703-3709.	7.4	54
51	Dual-Color Imaging of Magnesium/Calcium Ion Activities with Two-Photon Fluorescent Probes. <i>Analytical Chemistry</i> , 2012, 84, 8110-8113.	6.5	52
52	Two-Photon Fluorescent Probes for Long-Term Imaging of Calcium Waves in Live Tissue. <i>Chemistry - A European Journal</i> , 2008, 14, 2075-2083.	3.3	50
53	A Small-Molecule Two-Photon Probe for Nitric Oxide in Living Tissues. <i>Chemistry - A European Journal</i> , 2012, 18, 12388-12394.	3.3	49
54	A quadrupolar two-photon fluorescent probe for in vivo imaging of amyloid- $\beta^2$ plaques. <i>Chemical Science</i> , 2016, 7, 4600-4606.	7.4	49

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55	Carboxylesterase-2-Selective Two-Photon Ratiometric Probe Reveals Decreased Carboxylesterase-2 Activity in Breast Cancer Cells. <i>Analytical Chemistry</i> , 2018, 90, 9465-9471.	6.5	49
56	High-depth fluorescence imaging using a two-photon FRET system for mitochondrial pH in live cells and tissues. <i>Chemical Communications</i> , 2018, 54, 13531-13534.	4.1	48
57	Combining hydrophilic and hydrophobic environment sensitive dyes to detect a wide range of cellular polarity. <i>Chemical Science</i> , 2020, 11, 596-601.	7.4	48
58	Two-Photon Lyso trackers for in Vivo Imaging. <i>Journal of Organic Chemistry</i> , 2011, 76, 8113-8116.	3.2	44
59	Simultaneous Imaging of Mitochondria and Lysosomes by Using Two-Photon Fluorescent Probes. <i>Chemistry - A European Journal</i> , 2012, 18, 15246-15249.	3.3	42
60	A Golgi-localized two-photon probe for imaging zinc ions. <i>Chemical Communications</i> , 2015, 51, 12099-12102.	4.1	42
61	Elevated TRPV4 Levels Contribute to Endothelial Damage and Scarring in Experimental Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2020, 40, 1943-1955.	3.6	41
62	Screening of Drug-Induced Steatosis and Phospholipidosis Using Lipid Droplet-Selective Two-Photon Probes. <i>Analytical Chemistry</i> , 2020, 92, 11223-11231.	6.5	40
63	Asymmetric cyanine as a far-red fluorescence probe for mitochondrial viscosity. <i>Dyes and Pigments</i> , 2020, 174, 108080.	3.7	39
64	A fluorescent ES IPT-based benzimidazole platform for the ratiometric two-photon imaging of ONOO <sup>-</sup> <i>in vitro</i> and <i>ex vivo</i> . <i>Chemical Science</i> , 2020, 11, 7329-7334.	7.4	39
65	Two-photon ES IPT-based fluorescent probe using 4-hydroxyisoindoline-1,3-dione for the detection of peroxynitrite. <i>Chemical Communications</i> , 2021, 57, 11084-11087.	4.1	37
66	Molecular two-photon sensor for metal ions derived from bis(2-pyridyl)amine. <i>Chemical Physics Letters</i> , 2005, 410, 312-315.	2.6	35
67	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. <i>Chemical Communications</i> , 2015, 51, 15570-15573.	4.1	35
68	A cysteamine-selective two-photon fluorescent probe for ratiometric bioimaging. <i>Chemical Communications</i> , 2015, 51, 2407-2410.	4.1	34
69	An azo dye for photodynamic therapy that is activated selectively by two-photon excitation. <i>Chemical Science</i> , 2021, 12, 427-434.	7.4	33
70	Two-Photon Dyes Containing Heterocyclic Rings with Enhanced Photostability. <i>Chemistry - A European Journal</i> , 2005, 11, 6386-6391.	3.3	32
71	Two-Photon Fluorescent Probes for Biomembrane Imaging: Effect of Chain Length. <i>ChemBioChem</i> , 2008, 9, 2830-2838.	2.6	32
72	A two-photon ratiometric probe for hydrogen polysulfide (H <sub>2</sub> S <sub>n</sub> ): Increase in mitochondrial H <sub>2</sub> S <sub>n</sub> production in a Parkinson's disease model. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 810-819.	7.8	32

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73	Design and synthesis of efficient heavy-atom-free photosensitizers for photodynamic therapy of cancer. <i>Chemical Communications</i> , 2020, 56, 11489-11492.	4.1	32
74	Naphthalene-based fluorescent probes for glutathione and their applications in living cells and patients with sepsis. <i>Theranostics</i> , 2018, 8, 1411-1420.	10.0	31
75	Two-Photon Dye Cocktail for Dual-Color 3D Imaging of Pancreatic Beta and Alpha Cells in Live Islets. <i>Journal of the American Chemical Society</i> , 2017, 139, 3480-3487.	13.7	30
76	Two-Photon Fluorescence Probe for Selective Monitoring of Superoxide in Live Cells and Tissues. <i>Analytical Chemistry</i> , 2019, 91, 14691-14696.	6.5	30
77	A ratiometric two-photon probe for Ca <sup>2+</sup> in live tissues and its application to spinal cord injury model. <i>Biomaterials</i> , 2017, 141, 251-259.	11.4	29
78	Two-photon imaging of hydrogen polysulfides in living cells and hippocampal tissues. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128564.	7.8	29
79	New Six-Membered pH-Insensitive Rhodamine Spirocycle in Selective Sensing of Cu <sup>2+</sup> through C-C Bond Cleavage and Its Application in Cell Imaging. <i>ACS Omega</i> , 2017, 2, 8167-8176.	3.5	28
80	Ratiometric Detection of $\beta$ -Glutamyltransferase in Human Colon Cancer Tissues Using a Two-Photon Probe. <i>Analytical Chemistry</i> , 2019, 91, 9246-9250.	6.5	27
81	Detection of Nickel in Fish Organs with a Two-Photon Fluorescent Probe. <i>Chemistry - A European Journal</i> , 2012, 18, 1953-1960.	3.3	26
82	N-Heterocyclic Carbene Boranes as Reactive Oxygen Species-Responsive Materials: Application to the Two-Photon Imaging of Hypochlorous Acid in Living Cells and Tissues. <i>Angewandte Chemie</i> , 2018, 130, 1583-1587.	2.0	26
83	Fluorescence Probe for Imaging N-Methyl-D-aspartate Receptors and Monitoring GSH Selectively Using Two-Photon Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 11612-11616.	6.5	26
84	First hyperpolarizabilities of hexa(ethynyl)benzene derivatives: effect of conjugation length. <i>Journal of Materials Chemistry</i> , 2006, 16, 2273.	6.7	24
85	Two-photon fluorescence sensors for imaging NMDA receptors and monitoring release of Zn <sup>2+</sup> from the presynaptic terminal. <i>Biosensors and Bioelectronics</i> , 2017, 91, 770-779.	10.1	24
86	A two-photon ratiometric probe for detection of hNQO1 enzyme activity in human colon tissue. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 203-210.	7.8	24
87	Unusual fluorescence of <i>o</i> -phenylazonaphthol derivatives with aggregation-induced emission and their use in two-photon cell imaging. <i>Chemical Communications</i> , 2019, 55, 6747-6750.	4.1	23
88	A Two-Photon Turn-On Probe for Lipid Rafts with Minimum Internalization. <i>ChemBioChem</i> , 2011, 12, 392-395.	2.6	22
89	Two-photon fluorescent probe for peroxynitrite. <i>Tetrahedron Letters</i> , 2016, 57, 715-718.	1.4	22
90	Near-IR Fluorescent Tracer for Glucose-Uptake Monitoring in Live Cells. <i>Bioconjugate Chemistry</i> , 2018, 29, 3394-3401.	3.6	22

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91	<p> <a href="#">Mitochondrial-Targeted Two-Photon Fluorescent Probes for Zinc Ions</a>, <i>Journal of the American Chemical Society</i>, 2013, 135, 1111-1119.         </p> <p> <math display="block">H_2O \rightleftharpoons H^+ + OH^-</math> </p> <p>           and Thiols in Living Tissues. <i>Oxidative Medicine and Cellular Longevity</i>, 2013, 2013, 1-11.         </p>	4.0	20
92	<p> <a href="#">Pyrrolidine dithiocarbamate reverses Bcl-xL-mediated apoptotic resistance to doxorubicin by inducing paraptosis</a>. <i>Carcinogenesis</i>, 2018, 39, 458-470.         </p>	2.8	20
93	<p> <a href="#">Discrimination between Human Colorectal Neoplasms with a Dual-Recognitive Two-Photon Probe</a>. <i>Analytical Chemistry</i>, 2019, 91, 14705-14711.         </p>	6.5	19
94	<p> <a href="#">Highly Stable Red-Emissive Ratiometric Probe for Monitoring <math>\beta</math>-Galactosidase Activity Using Fluorescence Microscopy and Flow Cytometry</a>. <i>Analytical Chemistry</i>, 2021, 93, 14778-14783.         </p>	6.5	19
95	<p> <a href="#">Observing hepatic steatosis with a commercially viable two-photon fluorogenic probe</a>. <i>Materials Chemistry Frontiers</i>, 2022, 6, 553-560.         </p>	5.9	19
96	<p> <a href="#">Highly Sensitive Two-Photon Lipid Droplet Tracker for <i>In Vivo</i> Screening of Drug Induced Liver Injury</a>. <i>ACS Sensors</i>, 2022, 7, 1027-1035.         </p>	7.8	19
97	<p> <a href="#">Carboxylate-Containing Two-Photon Probe for the Simultaneous Detection of Extra- and Intracellular pH Values in Colon Cancer Tissue</a>. <i>Analytical Chemistry</i>, 2018, 90, 8058-8064.         </p>	6.5	18
98	<p> <a href="#">Two-Photon Fluorescent Probes for Detecting Enzyme Activities in Live Tissues</a>. <i>ACS Applied Bio Materials</i>, 2021, 4, 2957-2973.         </p>	4.6	17
99	<p> <a href="#">Two-Photon and Multicolor Fluorogenic Bioorthogonal Probes Based on Tetrazine-Conjugated Naphthalene Fluorophores</a>. <i>Bioconjugate Chemistry</i>, 2020, 31, 1545-1550.         </p>	3.6	15
100	<p> <a href="#">Real-time monitoring of vesicle pH in an endocytic pathway using an EGF-conjugated two-photon probe</a>. <i>Chemical Communications</i>, 2016, 52, 14007-14010.         </p>	4.1	14
101	<p> <a href="#">Visualization of vesicular transport from the endoplasmic reticulum to lysosome using an amidine derived two-photon probe</a>. <i>Chemical Communications</i>, 2017, 53, 6097-6100.         </p>	4.1	14
102	<p> <a href="#">Near-Infrared Ratiometric Two-Photon Probe for pH Measurement in Human Stomach Cancer Tissue</a>. <i>ACS Applied Bio Materials</i>, 2021, 4, 2135-2141.         </p>	4.6	14
103	<p> <a href="#">A Two-Photon Ratiometric Fluorescent Probe for Imaging of Hydrogen Peroxide Levels in Rat Organ Tissues</a>. <i>ChemistryOpen</i>, 2018, 7, 53-56.         </p>	1.9	12
104	<p> <a href="#">Highly selective two-photon fluorescent off-on probes for imaging tyrosinase activity in living cells and tissues</a>. <i>Chemical Communications</i>, 2021, 57, 6911-6914.         </p>	4.1	12
105	<p> <a href="#">A coumarin-based reversible two-photon fluorescence probe for imaging glutathione near N-methyl-D-aspartate (NMDA) receptors</a>. <i>Chemical Communications</i>, 2022, 58, 3633-3636.         </p>	4.1	11
106	<p> <a href="#">Readily Accessible and Predictable Naphthalene-Based Two-Photon Fluorophore with Full Visible Color Coverage</a>. <i>Chemistry - A European Journal</i>, 2016, 22, 14166-14170.         </p>	3.3	10
107	<p> <a href="#">Azulene-based fluorescent chemosensor for adenosine diphosphate</a>. <i>Chemical Communications</i>, 2021, 57, 10608-10611.         </p>	4.1	10
108	<p> <a href="#">A Highly Sensitive Two-Photon Ratiometric Probe for Rapid Detection of the hNQO1 Enzyme in Colon Cancer Tissue</a>. <i>Asian Journal of Organic Chemistry</i>, 2019, 8, 1707-1712.         </p>	2.7	9

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109	Î±-Syn trophin stabilizes catalase to reduce endogenous reactive oxygen species levels during myoblast differentiation. FEBS Journal, 2017, 284, 2052-2065.	4.7	8
110	Development of two-photon fluorescence probe for detecting cyclooxygenase-2 level in human colorectal cancer tissue. Sensors and Actuators B: Chemical, 2021, 330, 129329.	7.8	7
111	A Diagnostic Method for Gastric Cancer Using Two-Photon Microscopy With Enzyme-Selective Fluorescent Probes: A Pilot Study. Frontiers in Oncology, 2021, 11, 634219.	2.8	7
112	Cancer-Targeted Azo Dye for Two-Photon Photodynamic Therapy in Human Colon Tissue. Analytical Chemistry, 2021, 93, 16821-16827.	6.5	7
113	Hypochlorite-Activated Fluorescence Emission and Antibacterial Activities of Imidazole Derivatives for Biological Applications. Frontiers in Chemistry, 2021, 9, 713078.	3.6	6
114	Ketene-forming elimination reactions from aryl phenylacetates promoted by R <sub>2</sub> NH in MeCN: effects of base-solvent and <i>ortho</i> -phenyl group. Journal of Physical Organic Chemistry, 2007, 20, 685-689.	1.9	5
115	Analyzing Nonmelanoma Skin Cancer Using Enzyme-Activatable Two-Photon Probes. Bulletin of the Korean Chemical Society, 2021, 42, 103-106.	1.9	5
116	A red-emissive two-photon fluorescent probe for mitochondrial sodium ions in live tissue. Chemical Communications, 2021, 57, 8929-8932.	4.1	5