Hidehiko Nakagawa

List of Publications by Year
in descending order

62	1,674	304743 22	302126 39
papers	citations	h-index	g-index

64	64	64	1991
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ascorbate-assisted nitric oxide release from photocontrollable nitrosonium ion releasers for potent ex vivo photovasodilation. Chemical Communications, 2022, 58, 8420-8423.	4.1	3
2	Live-Cell Imaging of Sirtuin Activity Using a One-Step Fluorescence Probe. Methods in Molecular Biology, 2021, 2274, 155-168.	0.9	0
3	A Set of Highly Sensitive Sirtuin Fluorescence Probes for Screening Small-Molecular Sirtuin Defatty-Acylase Inhibitors. ACS Medicinal Chemistry Letters, 2021, 12, 617-624.	2.8	7
4	Synthesis of Fluorescent Probes Targeting Tumor-Suppressor Protein FHIT and Identification of Apoptosis-Inducing FHIT Inhibitors. Journal of Medicinal Chemistry, 2021, 64, 9567-9576.	6.4	3
5	Control of rat bladder neck relaxation with NORD-1, a red lightâ€“reactive nitric oxide releaser: InÂvitro study. Journal of Pharmacological Sciences, 2021, 146, 226-232.	2.5	4
6	A visible light-controllable Rho kinase inhibitor based on a photochromic phenylazothiazole. Chemical Communications, 2021, 57, 12500-12503.	4.1	11
7	Development of a Red-Light-Controllable Nitric Oxide Releaser to Control Smooth Muscle Relaxation in Vivo. ACS Chemical Biology, 2020, 15, 2958-2965.	3.4	28
8	Synthesis, evaluation, and biological applications of visible-light-controllable nitric oxide releasers. Methods in Enzymology, 2020, 640, 37-61.	1.0	1
9	Identification of PotentIn VivoAutotaxin Inhibitors that Bind to Both Hydrophobic Pockets and Channels in the Catalytic Domain. Journal of Medicinal Chemistry, 2020, 63, 3188-3204.	6.4	6
10	Multiplexed single-molecule enzyme activity analysis for counting disease-related proteins in biological samples. Science Advances, 2020, 6, eaay0888.	10.3	44
11	Development of Photoredox-reaction-driven NO-releasing Reagents and Application for Photomanipulation of Vasodilation. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2020, 78, 1048-1057.	0.1	0
12	Development of an ENPP1 Fluorescence Probe for Inhibitor Screening, Cellular Imaging, and Prognostic Assessment of Malignant Breast Cancer. Journal of Medicinal Chemistry, 2019, 62, 9254-9269.	6.4	22
13	Ratiometric assay of CARM1 activity using a FRET-based fluorescent probe. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 126728.	2.2	2
14	Substrate selectivity and its mechanistic insight of the photo-responsive non-nucleoside triphosphate for myosin and kinesin. Organic and Biomolecular Chemistry, 2019, 17, 53-65.	2.8	8
15	Development of a highly sensitive fluorescence probe for peptidyl arginine deiminase (PAD) activity. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 923-928.	2.2	4
16	<i>In Cellullo</i> and <i>ex Vivo</i> Availability of a Yellowish-Green-Light-Controllable NO Releaser. Chemical and Pharmaceutical Bulletin, 2019, 67, 576-579.	1.3	10
17	Development of Peptide-Based Sirtuin Defatty-Acylase Inhibitors Identified by the Fluorescence Probe, SFP3, That Can Efficiently Measure Defatty-Acylase Activity of Sirtuin. Journal of Medicinal Chemistry, 2019, 62, 5434-5452.	6.4	18
18	Cationic axial ligands on sulfur substituted silicon(<scp>iv</scp>) phthalocyanines: improved hydrophilicity and exceptionally red-shifted absorption into the NIR region. Chemical Communications, 2019, 55, 7311-7314.	4.1	13

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19	Structure-efficiency relationship of photoinduced electron transfer-triggered nitric oxide releasers. Scientific Reports, 2019, 9, 1430.	3.3	22
20	An irreversible inhibitor of peptidyl-prolyl cis/trans isomerase Pin1 and evaluation of cytotoxicity. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 353-356.	2.2	10
21	PlexinD1 signaling controls morphological changes and migration termination in newborn neurons. EMBO Journal, 2018, 37, .	7.8	32
22	Development of a fluorescent probe for detection of citrulline based on photo-induced electron transfer. Bioorganic and Medicinal Chemistry Letters, 2018, 28, 969-973.	2.2	9
23	Photoâ€Controlled Release of Small Signaling Molecules to Induce Biological Responses. Chemical Record, 2018, 18, 1708-1716.	5.8	13
24	Development and cellular application of visible-light-controllable HNO releasers based on caged Piloty's acid. Chemical Communications, 2018, 54, 10371-10374.	4.1	16
25	A yellowish-green-light-controllable nitric oxide donor based on N-nitrosoaminophenol applicable for photocontrolled vasodilation. Organic and Biomolecular Chemistry, 2017, 15, 2791-2796.	2.8	37
26	Metabolic analysis of radioresistant medulloblastoma stem-like clones and potential therapeutic targets. PLoS ONE, 2017, 12, e0176162.	2.5	17
27	Light-controlled relaxation of the rat penile corpus cavernosum using NOBL-1, a novel nitric oxide releaser. Investigative and Clinical Urology, 2016, 57, 215.	2.0	8
28	Photocontrollable NO-releasing compounds and their biological applications. Journal of Clinical Biochemistry and Nutrition, 2016, 58, 2-6.	1.4	7
29	(7-Diethylaminocoumarin-4-yl)methyl ester of suberoylanilide hydroxamic acid as a caged inhibitor for photocontrol of histone deacetylase activity. Bioorganic and Medicinal Chemistry, 2016, 24, 2789-2793.	3.0	19
30	A Fluorescent Probe for Imaging Sirtuin Activity in Living Cells, Based on Oneâ€Step Cleavage of the Dabcyl Quencher. ChemBioChem, 2016, 17, 1961-1967.	2.6	23
31	Photocontrol of NO, H₂S, and HNO Release in Biological Systems by Using Specific Caged Compounds. Chemical and Pharmaceutical Bulletin, 2016, 64, 1249-1255.	1.3	7
32	Visible Light-Controlled Nitric Oxide Release from Hindered Nitrobenzene Derivatives for Specific Modulation of Mitochondrial Dynamics. ACS Chemical Biology, 2016, 11, 1271-1278.	3.4	33
33	Peptidyl prolyl isomerase Pin1-inhibitory activity of d -glutamic and d -aspartic acid derivatives bearing a cyclic aliphatic amine moiety. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5619-5624.	2.2	10
34	A double bond-conjugated dimethylnitrobenzene-type photolabile nitric oxide donor with improved two-photon cross section. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3172-3175.	2.2	11
35	Key bioactive reaction products of the NO/H ₂ S interaction are S/N-hybrid species, polysulfides, and nitroxyl. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4651-60.	7.1	243
36	Development of photo-controllable hydrogen sulfide donor applicable in live cells. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 175-178.	2.2	32

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37	Visible light-induced nitric oxide release from a novel nitrobenzene derivative cross-conjugated with a coumarin fluorophore. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5660-5662.	2.2	25
38	Photomanipulation of Vasodilation with a Blue-Light-Controllable Nitric Oxide Releaser. Journal of the American Chemical Society, 2014, 136, 7085-7091.	13.7	97
39	Synthesis of a photocontrollable hydrogen sulfide donor using ketoprofenate photocages. Chemical Communications, 2014, 50, 587-589.	4.1	79
40	A Reductant-Resistant and Metal-Free Fluorescent Probe for Nitroxyl Applicable to Living Cells. Journal of the American Chemical Society, 2013, 135, 12690-12696.	13.7	108
41	Pilotyâ€™s acid derivative with improved nitroxyl-releasing characteristics. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 2340-2343.	2.2	42
42	Controlled release of HNO from chemical donors for biological applications. Journal of Inorganic Biochemistry, 2013, 118, 187-190.	3.5	32
43	Fine Spatiotemporal Control of Nitric Oxide Release by Infrared Pulse-Laser Irradiation of a Photolabile Donor. ACS Chemical Biology, 2013, 8, 2493-2500.	3.4	28
44	Photoinduced Upregulation of Calcitonin Gene-Related Peptide in A549 Cells through HNO Release from a Hydrophilic Photocontrollable HNO Donor. Chemical and Pharmaceutical Bulletin, 2012, 60, 1055-1062.	1.3	9
45	Photocontrollable Peroxynitrite Generator Based on N-Methyl-N-nitrosoaminophenol for Cellular Application. Journal of the American Chemical Society, 2012, 134, 2563-2568.	13.7	49
46	Novel bisbenzimide-nitroxides for nuclear redox imaging in living cells. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 1949-1952.	2.2	11
47	Peroxynitrite generation from a NO-releasing nitrobenzene derivative in response to photoirradiation. Chemical Communications, 2011, 47, 6449.	4.1	21
48	Photocontrollable nitric oxide (NO) and nitroxyl (HNO) donors and their release mechanisms. Nitric Oxide - Biology and Chemistry, 2011, 25, 195-200.	2.7	23
49	Photoinduced Nitric Oxide Release from a Nitrobenzene Derivative in Mitochondria. Chemistry - A European Journal, 2011, 17, 4809-4813.	3.3	26
50	A novel mitochondria-localizing nitrobenzene derivative as a donor for photo-uncaging of nitric oxide. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 2000-2002.	2.2	22
51	Development of a DNA-binding TEMPO derivative for evaluation of nuclear oxidative stress and its application in living cells. Free Radical Biology and Medicine, 2010, 49, 1792-1797.	2.9	18
52	Multiple bond-conjugated photoinduced nitric oxide releaser working with two-photon excitation. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 302-305.	2.2	12
53	Alternative photoinduced release of HNO or NO from an acyl nitroso compound, depending on environmental polarity. Chemical Communications, 2010, 46, 3788.	4.1	30
54	Photoinduced Nitric Oxide Release from a Hindered Nitrobenzene Derivative by Two-Photon Excitation. Journal of the American Chemical Society, 2009, 131, 7488-7489.	13.7	86

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55	3P-016 Fibril formation of mouse priori mutants(Protein:Structure,The 47th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	0
56	2,2,6,6-Tetramethylpiperidin-1-Oxyl Probes for Evaluating Oxidative Stress on the Cell Membrane and Mitochondria. Methods in Molecular Biology, 2008, 477, 99-112.	0.9	1
57	Photoactivatable HNO-releasing compounds using the retro-Dielsâ€“Alder reaction. Chemical Communications, 2008, , 5149.	4.1	45
58	Nitration of Specific Tyrosine Residues of Cytochrome c Is Associated with Caspase-Cascade Inactivation. Biological and Pharmaceutical Bulletin, 2007, 30, 15-20.	1.4	32
59	Novel membrane-localizing TEMPO derivatives for measurement of cellular oxidative stress at the cell membrane. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 1451-1454.	2.2	11
60	Novel mitochondria-localizing TEMPO derivative for measurement of cellular oxidative stress in mitochondria. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2055-2058.	2.2	21
61	Photoinduced Nitric Oxide Release from Nitrobenzene Derivatives. Journal of the American Chemical Society, 2005, 127, 11720-11726.	13.7	102
62	Induction of superoxide in glioma cell line U87 stimulated with lipopolysaccharide and interferon-Î³: ESR using a new flow-type quartz cell. FEBS Letters, 2000, 471, 187-190.	2.8	11