

Eiji Nakata

List of Publications by Year in descending order

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81
papers

2,288
citations

236925

25
h-index

223800

46
g-index

87
all docs

87
docs citations

87
times ranked

2605
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially Organized Enzymes Drive Cofactor-Coupled Cascade Reactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 3012-3021.	13.7	145
2	A Fluorescent Lectin Array Using Supramolecular Hydrogel for Simple Detection and Pattern Profiling for Various Glycoconjugates. <i>Journal of the American Chemical Society</i> , 2006, 128, 10413-10422.	13.7	139
3	Target-Specific Chemical Acylation of Lectins by Ligand-Tethered DMAP Catalysts. <i>Journal of the American Chemical Society</i> , 2008, 130, 245-251.	13.7	131
4	One-Pot and Sequential Organic Chemistry on an Enzyme Surface to Tether a Fluorescent Probe at the Proximity of the Active Site with Restoring Enzyme Activity. <i>Journal of the American Chemical Society</i> , 2006, 128, 3273-3280.	13.7	120
5	Zinc-Finger Proteins for Site-Specific Protein Positioning on DNA Origami Structures. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2421-2424.	13.8	120
6	Semisynthetic Fluorescent Sensor Proteins Based on Self-Labeling Protein Tags. <i>Journal of the American Chemical Society</i> , 2009, 131, 5873-5884.	13.7	115
7	Recent Progress in Strategies for the Creation of Protein-Based Fluorescent Biosensors. <i>ChemBioChem</i> , 2009, 10, 2560-2577.	2.6	98
8	Design of a bioreductively-activated fluorescent pH probe for tumor hypoxia imaging. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 6952-6958.	3.0	78
9	Design of a Hybrid Biosensor for Enhanced Phosphopeptide Recognition Based on a Phosphoprotein Binding Domain Coupled with a Fluorescent Chemosensor. <i>Journal of the American Chemical Society</i> , 2007, 129, 6232-6239.	13.7	71
10	Nucleic Acid-Templated Enzyme Cascades. <i>ChemBioChem</i> , 2017, 18, 696-716.	2.6	71
11	Coupling a Natural Receptor Protein with an Artificial Receptor to Afford a Semisynthetic Fluorescent Biosensor. <i>Journal of the American Chemical Society</i> , 2004, 126, 490-495.	13.7	69
12	Selective Cross-Linking of Interacting Proteins Using Self-Labeling Tags. <i>Journal of the American Chemical Society</i> , 2009, 131, 17954-17962.	13.7	65
13	Construction of Artificial Signal Transducers on a Lectin Surface by Post-Photoaffinity-Labeling Modification for Fluorescent Saccharide Biosensors. <i>Chemistry - A European Journal</i> , 2003, 9, 3660-3669.	3.3	64
14	Double-Modification of Lectin Using Two Distinct Chemistries for Fluorescent Ratiometric Sensing and Imaging Saccharides in Test Tube or in Cell. <i>Journal of the American Chemical Society</i> , 2005, 127, 13253-13261.	13.7	62
15	Simultaneous Detection of ATP and GTP by Covalently Linked Fluorescent Ribonucleopeptide Sensors. <i>Journal of the American Chemical Society</i> , 2013, 135, 3465-3473.	13.7	57
16	A newly designed cell-permeable SNARF derivative as an effective intracellular pH indicator. <i>Chemical Communications</i> , 2010, 46, 3526.	4.1	51
17	The molecular mechanism of photochemical internalization of cell penetrating peptide-cargo-photosensitizer conjugates. <i>Scientific Reports</i> , 2016, 5, 18577.	3.3	51
18	Design of Modular Protein Tags for Orthogonal Covalent Bond Formation at Specific DNA Sequences. <i>Journal of the American Chemical Society</i> , 2017, 139, 8487-8496.	13.7	48

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19	Ratiometric fluorescence detection of a tag fused protein using the dual-emission artificial molecular probe. <i>Chemical Communications</i> , 2006, , 4024.	4.1	43
20	A modular zinc finger adaptor accelerates the covalent linkage of proteins at specific locations on DNA nanoscaffolds. <i>Chemical Communications</i> , 2015, 51, 1016-1019.	4.1	40
21	DNA Origami Scaffolds as Templates for Functional Tetrameric Kir3 K ⁺ Channels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2586-2591.	13.8	33
22	Design, synthesis, and radiosensitizing activities of sugar-hybrid hypoxic cell radiosensitizers. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 675-682.	3.0	29
23	TX-2152: A conformationally rigid and electron-rich diyne analogue of FTY720 with in vivo antiangiogenic activity. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7705-7714.	3.0	29
24	Formation and regulation of fullerene-incorporation in liposomes under the phase transition temperature. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 2622.	2.8	28
25	A protein adaptor to locate a functional protein dimer on molecular switchboard. <i>Methods</i> , 2014, 67, 142-150.	3.8	28
26	Luminescent Saccharide Biosensor by Using Lanthanide-Bound Lectin Labeled with Fluorescein. <i>ChemBioChem</i> , 2005, 6, 1349-1352.	2.6	26
27	Protein adaptors assemble functional proteins on DNA scaffolds. <i>Chemical Communications</i> , 2019, 55, 12428-12446.	4.1	25
28	Design of antiangiogenic hypoxic cell radiosensitizers: 2-Nitroimidazoles containing a 2-aminomethylene-4-cyclopentene-1,3-dione moiety. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 6042-6053.	3.0	24
29	Synthesis and biological activity of 1-methyl-tryptophan-tirapazamine hybrids as hypoxia-targeting indoleamine 2,3-dioxygenase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 8661-8669.	3.0	24
30	A novel strategy to design latent ratiometric fluorescent pH probes based on self-assembled SNARF derivatives. <i>RSC Advances</i> , 2014, 4, 348-357.	3.6	24
31	Construction of dopamine sensors by using fluorescent ribonucleopeptide complexes. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 4473-4481.	3.0	23
32	Synthesis and photophysical properties of new SNARF derivatives as dual emission pH sensors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1663-1666.	2.2	20
33	Stabilization and structural changes of 2D DNA origami by enzymatic ligation. <i>Nucleic Acids Research</i> , 2021, 49, 7884-7900.	14.5	20
34	Evaluation of the In vivo Radiosensitizing Activity of Etanidazole Using Tumor-bearing Chick Embryo. <i>Journal of Radiation Research</i> , 2011, 52, 208-214.	1.6	19
35	Ratiometric Fluorescent Biosensor for Real-time and Label-free Monitoring of Fine Saccharide Metabolic Pathways. <i>ChemBioChem</i> , 2008, 9, 25-28.	2.6	18
36	Positional Effects of Phosphorylation on the Stability and Morphology of Tau-Related Amyloid Fibrils. <i>Biochemistry</i> , 2012, 51, 1396-1406.	2.5	18

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37	Facile conversion of RNA aptamers to modular fluorescent sensors with tunable detection wavelengths. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4503-4506.	2.2	14
38	Rational design of a DNA sequence-specific modular protein tag by tuning the alkylation kinetics. <i>Chemical Science</i> , 2019, 10, 9315-9325.	7.4	13
39	Nanometer Accuracy in Cryogenic Far-Field Localization Microscopy of Individual Molecules. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5841-5846.	4.6	12
40	Enhanced enzymatic activity exerted by a packed assembly of a single type of enzyme. <i>Chemical Science</i> , 2020, 11, 9088-9100.	7.4	12
41	Evaluation of the role of the DNA surface for enhancing the activity of scaffolded enzymes. <i>Chemical Communications</i> , 2021, 57, 3925-3928.	4.1	12
42	Development of New Methods to Introduce Unnatural Functional Molecules into Native Proteins for Protein Engineering. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 1268-1279.	3.2	10
43	Design of a SNARF-based Ratiometric Fluorescent Probe for Esterase. <i>Chemistry Letters</i> , 2010, 39, 734-735.	1.3	10
44	Construction of ratiometric fluorescent sensors by ribonucleopeptides. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 8767.	2.8	10
45	Phosphorylation regulates fibrillation of an aggregation core peptide in the second repeat of microtubule-binding domain of human tau. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 6471-6480.	3.0	10
46	A facile combinatorial approach to construct a ratiometric fluorescent sensor: application for the real-time sensing of cellular pH changes. <i>Chemical Science</i> , 2021, 12, 8231-8240.	7.4	10
47	A ribonucleopeptide module for effective conversion of an RNA aptamer to a fluorescent sensor. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 5771-5775.	3.0	8
48	A Peptide Nucleic Acid (PNA) Heteroduplex Probe Containing an Inosine-Cytosine Base Pair Discriminates a Single Nucleotide Difference in RNA. <i>Chemistry - A European Journal</i> , 2013, 19, 5034-5040.	3.3	8
49	Conditional dependence of enzyme cascade reaction efficiency on the inter-enzyme distance. <i>Chemical Communications</i> , 2021, 57, 11197-11200.	4.1	8
50	Latent pH-responsive ratiometric fluorescent cluster based on self-assembled photoactivated SNARF derivatives. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 431-436.	6.1	7
51	Medicinal electronics bricolage design of hypoxia-targeting antineoplastic drugs and invention of boron tracedrugs as innovative future-architectural drugs. <i>Anticancer Research</i> , 2010, 30, 3233-42.	1.1	7
52	Ultrasound-dependent cytoplasmic internalization of a peptide-sonosensitizer conjugate. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 4212-4217.	3.0	6
53	A Diversity-Oriented Library of Fluorophore-Modified Receptors Constructed from a Chemical Library of Synthetic Fluorophores. <i>ChemBioChem</i> , 2017, 18, 2212-2216.	2.6	6
54	Tuning the Reactivity of a Substrate for SNAP-Tag Expands Its Application for Recognition-Driven DNA-Protein Conjugation. <i>Chemistry - A European Journal</i> , 2021, 27, 18118-18128.	3.3	6

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55	Self-Assembled Fluorescent Nanoprobe for the Detection of Fluoride Ions in Aqueous Solutions. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 327-329.	3.2	5
56	Construction of a library of structurally diverse ribonucleopeptides with catalytic groups. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1881-1888.	3.0	5
57	Reaction of ribulose biphosphate carboxylase/oxygenase assembled on a DNA scaffold. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115120.	3.0	5
58	DNA binding adaptors to assemble proteins of interest on DNA scaffold. <i>Methods in Enzymology</i> , 2019, 617, 287-322.	1.0	5
59	Dynamic Shape Transformation of a DNA Scaffold Applied for an Enzyme Nanocarrier. <i>Frontiers in Chemistry</i> , 2021, 9, 697857.	3.6	5
60	Design of Novel Hypoxia-Targeting IDO Hybrid Inhibitors Conjugated with an Unsubstituted L-TRP as an IDO Affinity Moiety. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 415-421.	1.6	5
61	Boron Tracedrug: Design, Synthesis, and Pharmacological Activity of Phenolic BODIPY-Containing Antioxidants as Traceable Next-Generation Drug Model. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 301-306.	1.6	4
62	Circularly polarized luminescence (CPL) characteristics of hydrophobic pyrene derivatives/ β -cyclodextrin (β -CD) complexes in aqueous solution dissolved by grinding. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2022, 102, 133-142.	1.6	4
63	Topologically Interlocked Minicircles as Probes of DNA Topology and DNA-Protein Interactions. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	4
64	Photoinduced electron-transfer reactions of tris(2,2'-bipyridine)ruthenium(II)-based carbonic anhydrase inhibitors tethering plural binding sites. <i>Journal of Physical Organic Chemistry</i> , 2018, 31, e3848.	1.9	3
65	Covalent Bond Formation by Modular Adaptors to Locate Multiple Enzymes on a DNA Scaffold. , 2019, , 163-183.		3
66	Influence of polymer molecular weight on the properties of in situ synthesized silver-methylcellulose nanocomposite films with a CO ₂ laser. <i>Journal of Materials Science</i> , 2020, 55, 2090-2100.	3.7	3
67	Cryogenic Far-Field Fluorescence Nanoscopy: Evaluation with DNA Origami. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7525-7536.	2.6	3
68	Syntheses, X-Ray Crystal Structures, Emission Properties and DFT Calculations of Monoprotonated Polypyridines. <i>ChemistrySelect</i> , 2019, 4, 59-65.	1.5	2
69	Fluorescence detection of the nitric oxide-induced structural change at the putative nitric oxide sensing segment of TRPC5. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115430.	3.0	2
70	Prenylated Acylphloroglucinol Derivatives: Isoprenomics-Based Design, Syntheses and Antioxidative Activities. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 251-256.	1.6	2
71	Topologically Interlocked Minicircles as Probes of DNA Topology and DNA-Protein Interactions. <i>Chemistry - A European Journal</i> , 2022, , e202200839.	3.3	2
72	Augmentation of an Engineered Bacterial Strain Potentially Improves the Cleanup of PCB Water Pollution. <i>Microbiology Spectrum</i> , 2021, 9, e0192621.	3.0	2

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73	Ultrasound-dependent RNAi using TatU1A-rose bengal conjugate. Bioorganic and Medicinal Chemistry Letters, 2022, 68, 128767.	2.2	2
74	Recent progress in the construction methodology of fluorescent biosensors based on biomolecules. , O, , .		1
75	DNA Origami Scaffolds as Templates for Functional Tetrameric Kir3 K ⁺ Channels. Angewandte Chemie, 2018, 130, 2616-2621.	2.0	1
76	Study of the triplet excited states and DFT calculations of iridium(III) complexes with mixed ligands. Journal of Molecular Structure, 2018, 1164, 164-171.	3.6	1
77	Lectin Functionalization by Post-Photo Affinity Labeling Modification (P-PALM). Trends in Glycoscience and Glycotechnology, 2007, 19, 121-131.	0.1	1
78	A two-step screening to optimize the signal response of an auto-fluorescent protein-based biosensor. RSC Advances, 2022, 12, 15407-15419.	3.6	1
79	Anion Influence of Emission Properties and DFT Calculations of Diprotonated and Triprotonated Terpyridines. ChemistrySelect, 2019, 4, 13284-13294.	1.5	0
80	A Chemical Biosynthesis Design for an Antiatherosclerosis Drug by Acyclic Tocopherol Intermediate Analogue Based on α -soprenomics. Advances in Experimental Medicine and Biology, 2009, 645, 109-114.	1.6	0
81	A neutron dynamic therapy with a boron tracedrug UTX-51 using a compact neutron generator. Anticancer Research, 2014, 34, 4557-60.	1.1	0