

Naoko Komura

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

658
citations

687363

13
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Raft-based interactions of gangliosides with a GPI-anchored receptor. <i>Nature Chemical Biology</i> , 2016, 12, 402-410.	8.0	165
2	Defining raft domains in the plasma membrane. <i>Traffic</i> , 2020, 21, 106-137.	2.7	94
3	Constrained sialic acid donors enable selective synthesis of β -glycosides. <i>Science</i> , 2019, 364, 677-680.	12.6	74
4	The First Total Synthesis of Ganglioside GalNAc6S GD1a, a Target Molecule for Autoantibodies in Guillain-Barré Syndrome. <i>Chemistry - A European Journal</i> , 2011, 17, 5641-5651.	3.3	37
5	Development of new ganglioside probes and unraveling of raft domain structure by single-molecule imaging. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2494-2506.	2.4	32
6	Expanded potential of seleno-carbohydrates as a molecular tool for X-ray structural determination of a carbohydrate-protein complex with single/multi-wavelength anomalous dispersion phasing. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2090-2101.	3.0	29
7	Homeostatic and pathogenic roles of GM3 ganglioside molecular species in TLR4 signaling in obesity. <i>EMBO Journal</i> , 2020, 39, e101732.	7.8	25
8	A facile method for synthesizing selenoglycosides based on selenium-transfer to glycosyl imidate. <i>Tetrahedron Letters</i> , 2014, 55, 1920-1923.	1.4	22
9	Advanced Chemical Methods for Stereoselective Sialylation and Their Applications in Sialoglycan Syntheses. <i>Chemical Record</i> , 2021, 21, 3194-3223.	5.8	22
10	ABCA13 dysfunction associated with psychiatric disorders causes impaired cholesterol trafficking. <i>Journal of Biological Chemistry</i> , 2021, 296, 100166.	3.4	21
11	Revealing the Raft Domain Organization in the Plasma Membrane by Single-Molecule Imaging of Fluorescent Ganglioside Analogs. <i>Methods in Enzymology</i> , 2018, 598, 267-282.	1.0	19
12	Syntheses of Fluorescent Gangliosides for the Studies of Raft Domains. <i>Methods in Enzymology</i> , 2017, 597, 239-263.	1.0	17
13	Development of Fluorescent Ganglioside GD3 and GQ1b Analogs for Elucidation of Raft-Associated Interactions. <i>Journal of Organic Chemistry</i> , 2020, 85, 15998-16013.	3.2	14
14	On-Membrane Dynamic Interplay between Anti-GM1 IgG Antibodies and Complement Component C1q. <i>International Journal of Molecular Sciences</i> , 2020, 21, 147.	4.1	13
15	Synthesis and Glycan-Protein Interaction Studies of <i>Se</i> -Sialosides by ⁷⁷ Se NMR. <i>Organic Letters</i> , 2019, 21, 6393-6396.	4.6	12
16	FRET detects lateral interaction between transmembrane domain of EGF receptor and ganglioside GM3 in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183623.	2.6	10
17	Unraveling of Lipid Raft Organization in Cell Plasma Membranes by Single-Molecule Imaging of Ganglioside Probes. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1104, 41-58.	1.6	8
18	Efficient diversification of GM3 gangliosides <i>via</i> late-stage sialylation and dynamic glycan structural studies with ¹⁹ F solid-state NMR. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2902-2913.	2.8	8

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19	Control of Lipid Bilayer Phases of Cell-Sized Liposomes by Surface-Engineered Plasmonic Nanoparticles. <i>Langmuir</i> , 2020, 36, 7741-7746.	3.5	7
20	Synthesis of ganglioside analogs containing fluorescently labeled GalNAc for single-molecule imaging. <i>Journal of Carbohydrate Chemistry</i> , 2019, 38, 509-527.	1.1	6
21	Sialyl LewisX mimic-decorated liposomes for anti-angiogenic everolimus delivery to E-selectin expressing endothelial cells. <i>RSC Advances</i> , 2019, 9, 20518-20527.	3.6	5
22	A Synthetic Challenge to the Diversity of Gangliosides for Unveiling Their Biological Significance. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2017, 75, 1162-1170.	0.1	4
23	Subsequent menstrual disorder after spontaneous menarche in Turner syndrome. <i>Clinical Endocrinology</i> , 2021, 95, 163-168.	2.4	4
24	Stereoselective Synthesis of Diglycosyl Diacylglycerols with Glycosyl Donors Bearing a β -Stereodirecting 2,3-Naphthalenedimethyl Protecting Group. <i>Journal of Organic Chemistry</i> , 2020, 85, 16166-16181.	3.2	3
25	Development of lacto-series ganglioside fluorescent probe using late-stage sialylation and behavior analysis with single-molecule imaging. <i>RSC Chemical Biology</i> , 2022, 3, 868-885.	4.1	3
26	Indirect synthetic route to β -l-fucosides via highly stereoselective construction of β -l-galactosides followed by C6-deoxygenation. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 5017-5033.	2.8	2
27	Synthesis of Diverse Seleno-Glycolipids via the Transacetalization of Selenoacetals. <i>European Journal of Organic Chemistry</i> , 0, , .	2.4	1
28	Analysis of biochemical features of ST8 β -N-acetyl-neuraminide β -2,8-sialyltransferase (St8sia) 5 isoforms. <i>Glycoconjugate Journal</i> , 2022, , 1.	2.7	1
29	Novel Glycosidation Based on Alkyne Activation. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, E35-E36.	0.1	0
30	Novel Glycosidation Based on Alkyne Activation. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, J33-J34.	0.1	0