

Nobuaki Matsumori

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140 papers	4,612 citations	33 h-index	63 g-index
158 ext. papers	5,113 ext. citations	4.9 avg, IF	5.22 L-index

#	Paper	IF	Citations
140	Leptomycin B inactivates CRM1/exportin 1 by covalent modification at a cysteine residue in the central conserved region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 9112-7	11.5	858
139	Stereochemical Determination of Acyclic Structures Based on Carbon-Proton Spin-Coupling Constants. A Method of Configuration Analysis for Natural Products. <i>Journal of Organic Chemistry</i> , 1999 , 64, 866-876	4.2	610
138	Absolute Configuration of Amphidinol 3, the First Complete Structure Determination from Amphidinol Homologues: Application of a New Configuration Analysis Based on Carbon-Hydrogen Spin-Coupling Constants. <i>Journal of the American Chemical Society</i> , 1999 , 121, 870-871	16.4	169
137	Isolation and chemical structure of amphidinol 2, a potent hemolytic compound from marine dinoflagellate <i>Amphidinium klebsii</i> . <i>Tetrahedron Letters</i> , 1995 , 36, 6279-6282	2	103
136	The Complete Structure of Maitotoxin, Part I: Configuration of the C1-C14 Side Chain. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1672-1675		93
135	The Complete Structure of Maitotoxin, Part II: Configuration of the C15-C142 Side Chain and Absolute Configuration of the Entire Molecule. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1675-1678		91
134	Raft-based sphingomyelin interactions revealed by new fluorescent sphingomyelin analogs. <i>Journal of Cell Biology</i> , 2017 , 216, 1183-1204	7.3	79
133	Isolation and structure elucidation of a new amphidinol with a truncated polyhydroxyl chain from <i>Amphidinium klebsii</i> . <i>Tetrahedron</i> , 2005 , 61, 8606-8610	2.4	71
132	Mycosamine orientation of amphotericin B controlling interaction with ergosterol: sterol-dependent activity of conformation-restricted derivatives with an amino-carbonyl bridge. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10667-75	16.4	69
131	Structures of new amphidinols with truncated polyhydroxyl chain and their membrane-permeabilizing activities. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 6548-54	3.4	68
130	Combinatorial synthesis of the 1,5-polyol system based on cross metathesis: structure revision of amphidinol 3. <i>Organic Letters</i> , 2008 , 10, 5203-6	6.2	56
129	Complex formation of amphotericin B in sterol-containing membranes as evidenced by surface plasmon resonance. <i>Biochemistry</i> , 2008 , 47, 7807-15	3.2	56
128	Hairpin conformation of amphidinols possibly accounting for potent membrane permeabilizing activities. <i>Tetrahedron</i> , 2005 , 61, 2795-2802	2.4	56
127	Direct interaction between amphotericin B and ergosterol in lipid bilayers as revealed by 2H NMR spectroscopy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11855-60	16.4	54
126	Conformational analysis of natural products using long-range carbon-proton coupling constants: Three-dimensional structure of okadaic acid in solution. <i>Tetrahedron</i> , 1995 , 51, 12229-12238	2.4	54
125	Amphotericin B covalent dimers forming sterol-dependent ion-permeable membrane channels. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4180-1	16.4	52
124	Detailed comparison of deuterium quadrupole profiles between sphingomyelin and phosphatidylcholine bilayers. <i>Biophysical Journal</i> , 2014 , 106, 631-8	2.9	49

123	Structure and biological activity of 8-deoxyheronamide C from a marine-derived <i>Streptomyces</i> sp.: heronamides target saturated hydrocarbon chains in lipid membranes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5209-12	16.4	47
122	Comprehensive molecular motion capture for sphingomyelin by site-specific deuterium labeling. <i>Biochemistry</i> , 2012 , 51, 8363-70	3.2	46
121	Membrane-permeabilizing activities of amphidinol 3, polyene-polyhydroxy antifungal from a marine dinoflagellate. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1667, 91-100	3.8	46
120	Long-range carbon-proton coupling constants for stereochemical assignment of acyclic structures in natural products: Configuration of the C5?C9 portion of maitotoxin. <i>Tetrahedron Letters</i> , 1996 , 37, 1269-1272	2	46
119	Dominant formation of a single-length channel by amphotericin B in dimyristoylphosphatidylcholine membrane evidenced by ¹³ C- ³¹ P rotational echo double resonance. <i>Biochemistry</i> , 2005 , 44, 704-10	3.2	45
118	Deuterium NMR of raft model membranes reveals domain-specific order profiles and compositional distribution. <i>Biophysical Journal</i> , 2015 , 108, 2502-2506	2.9	44
117	Absolute configuration of aflastatin A, a specific inhibitor of aflatoxin production by <i>Aspergillus parasiticus</i> . <i>Journal of Organic Chemistry</i> , 2000 , 65, 438-44	4.2	44
116	Stereochemical assignment of the C35-C39 Acyclic linkage in maitotoxin: completion of stereochemical determination of C15-C134. <i>Tetrahedron Letters</i> , 1995 , 36, 9011-9014	2	44
115	Defining raft domains in the plasma membrane. <i>Traffic</i> , 2020 , 21, 106-137	5.7	39
114	Membrane protein structure determination by SAD, SIR, or SIRAS phasing in serial femtosecond crystallography using an iododetergent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13039-13044	11.5	38
113	Interaction between the marine sponge cyclic peptide theonellamide A and sterols in lipid bilayers as viewed by surface plasmon resonance and solid-state (2)H nuclear magnetic resonance. <i>Biochemistry</i> , 2013 , 52, 2410-8	3.2	38
112	Involvement of afsA in A-factor biosynthesis as a key enzyme. <i>Journal of Antibiotics</i> , 1997 , 50, 847-52	3.7	38
111	Conformation and location of membrane-bound salinomycin-sodium complex deduced from NMR in isotropic bicelles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14989-95	16.4	38
110	Self-assembled amphotericin B is probably surrounded by ergosterol: bimolecular interactions as evidenced by solid-state NMR and CD spectra. <i>Chemistry - A European Journal</i> , 2008 , 14, 1178-85	4.8	36
109	Synthesis of 28- ¹⁹ F-amphotericin B methyl ester. <i>Tetrahedron Letters</i> , 2006 , 47, 6187-6191	2	34
108	An amphotericin B-ergosterol covalent conjugate with powerful membrane permeabilizing activity. <i>Chemistry and Biology</i> , 2004 , 11, 673-9		34
107	Convergent synthesis and biological activity of the WXYZABCSring system of maitotoxin. <i>Organic Letters</i> , 2008 , 10, 3599-602	6.2	33
106	Ergosterol increases the intermolecular distance of amphotericin B in the membrane-bound assembly as evidenced by solid-state NMR. <i>Biochemistry</i> , 2008 , 47, 13463-9	3.2	33

105	Effects of lipid constituents on membrane-permeabilizing activity of amphidinols. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 3084-90	3.4	33
104	Direct and stereospecific interaction of amphidinol 3 with sterol in lipid bilayers. <i>Biochemistry</i> , 2014 , 53, 3287-93	3.2	31
103	Head-to-tail interaction between amphotericin B and ergosterol occurs in hydrated phospholipid membrane. <i>Biochemistry</i> , 2012 , 51, 83-9	3.2	30
102	Structure of membrane-bound amphidinol 3 in isotropic small bicelles. <i>Organic Letters</i> , 2008 , 10, 4191-4	6.2	30
101	Design and synthesis of ladder-shaped tetracyclic, heptacyclic, and decacyclic ethers and evaluation of the interaction with transmembrane proteins. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10217-26	16.4	30
100	Amphotericin B dimers with bisamide linkage bearing powerful membrane-permeabilizing activity. <i>Organic Letters</i> , 2002 , 4, 2087-9	6.2	30
99	Dynamic membrane interactions of antibacterial and antifungal biomolecules, and amyloid peptides, revealed by solid-state NMR spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 307-323	4	29
98	NMR-based conformational analysis of sphingomyelin in bicelles. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 270-8	3.4	26
97	Large molecular assembly of amphotericin B formed in ergosterol-containing membrane evidenced by solid-state NMR of intramolecular bridged derivative. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11977-84	16.4	26
96	Ladder-shaped polyether compound, desulfated yessotoxin, interacts with membrane-integral alpha-helix peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2005 , 13, 5099-103	3.4	26
95	Die Struktur von Maitotoxin II: Konfiguration der C1-C14-Seitenkette. <i>Angewandte Chemie</i> , 1996 , 108, 1782-1785	3.6	26
94	Synthesis and structure revision of the C43-C67 part of amphidinol 3. <i>Organic Letters</i> , 2013 , 15, 2846-9	6.2	25
93	3D structures of membrane-associated small molecules as determined in isotropic bicelles. <i>Natural Product Reports</i> , 2010 , 27, 1480-92	15.1	25
92	Structural Features of Dinoflagellate Toxins Underlying Biological Activity as Viewed by NMR. <i>Bulletin of the Chemical Society of Japan</i> , 2008 , 81, 307-319	5.1	24
91	Amphotericin B-phospholipid covalent conjugates: dependence of membrane-permeabilizing activity on acyl-chain length. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 3882-4	3.9	24
90	Structures of the Largest Amphidinol Homologues from the Dinoflagellate <i>Amphidinium carterae</i> and Structure-Activity Relationships. <i>Journal of Natural Products</i> , 2017 , 80, 2883-2888	4.9	23
89	Sterol effect on interaction between amphidinol 3 and liposomal membrane as evidenced by surface plasmon resonance. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 2215-8	2.9	23
88	Membrane interaction of amphotericin B as single-length assembly examined by solid state NMR for uniformly ¹³ C-enriched agent. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 6608-14	3.4	23

87	Orientation of fluorinated cholesterol in lipid bilayers analyzed by ^{19}F tensor calculation and solid-state NMR. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4757-66	16.4	22
86	Bioactive fluorinated derivative of amphotericin B. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 3565-7	2.9	22
85	Die Struktur von Maitotoxin II: Konfiguration der C135-C142-Seitenkette und absolute Konfiguration des gesamten Moleküls. <i>Angewandte Chemie</i> , 1996 , 108, 1786-1789	3.6	22
84	Orientation and Order of the Amide Group of Sphingomyelin in Bilayers Determined by Solid-State NMR. <i>Biophysical Journal</i> , 2015 , 108, 2816-24	2.9	21
83	Design and synthesis of an artificial ladder-shaped polyether that interacts with glycoporphin A. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 6355-9	2.9	21
82	Marine sponge cyclic peptide theonellamide A disrupts lipid bilayer integrity without forming distinct membrane pores. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 1373-9	3.8	19
81	Formation of Gel-like Nanodomains in Cholesterol-Containing Sphingomyelin or Phosphatidylcholine Binary Membrane As Examined by Fluorescence Lifetimes and $(^2)\text{H}$ NMR Spectra. <i>Langmuir</i> , 2015 , 31, 13783-92	4	19
80	Detailed description of the conformation and location of membrane-bound erythromycin a using isotropic bicelles. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 3501-8	8.3	19
79	Lipid Interactions and Organization in Complex Bilayer Membranes. <i>Biophysical Journal</i> , 2016 , 110, 1563-1573	15.73	19
78	Synthesis and Stereochemical Revision of the C31-C67 Fragment of Amphidinol 3. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6060-6064	16.4	18
77	Evidence of lipid rafts based on the partition and dynamic behavior of sphingomyelins. <i>Chemistry and Physics of Lipids</i> , 2018 , 215, 84-95	3.7	17
76	Confirmation of the absolute configuration at C45 of amphidinol 3. <i>Journal of Natural Products</i> , 2012 , 75, 2003-6	4.9	17
75	Roles of integral protein in membrane permeabilization by amphidinols. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 1453-9	3.8	17
74	Assignment of the absolute configuration of blasticidin A and revision of that of aflastatin A. <i>Tetrahedron Letters</i> , 2007 , 48, 2527-2531	2	17
73	Conformation and position of membrane-bound amphotericin B deduced from NMR in SDS micelles. <i>Journal of Organic Chemistry</i> , 2007 , 72, 700-6	4.2	16
72	Interaction of ladder-shaped polyethers with transmembrane alpha-helix of glycoporphin A as evidenced by saturation transfer difference NMR and surface plasmon resonance. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 6115-8	2.9	16
71	The Structure of the Bimolecular Complex between Amphotericin B and Ergosterol in Membranes Is Stabilized by Face-to-Face van der Waals Interaction with Their Rigid Cyclic Cores. <i>Biochemistry</i> , 2016 , 55, 3392-402	3.2	16
70	Sphingomyelin Stereoisomers Reveal That Homophilic Interactions Cause Nanodomain Formation. <i>Biophysical Journal</i> , 2018 , 115, 1530-1540	2.9	16

69	A novel sperm-activating and attracting factor from the ascidian <i>Ascidia sydneiensis</i> . <i>Organic Letters</i> , 2013 , 15, 294-7	6.2	15
68	Amphotericin B covalent dimers with carbonyl-amino linkage: a new probe for investigating ion channel assemblies. <i>Tetrahedron Letters</i> , 2007 , 48, 3393-3396	2	15
67	Amphotericin B covalent dimers bearing a tartarate linkage. <i>Chemistry and Biodiversity</i> , 2004 , 1, 346-52	2.5	15
66	Chemical diversity and mode of action of natural products targeting lipids in the eukaryotic cell membrane. <i>Natural Product Reports</i> , 2020 , 37, 677-702	15.1	15
65	Total Synthesis of Amphidinol 3: A General Strategy for Synthesizing Amphidinol Analogues and Structure-Activity Relationship Study. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3472-3478	16.4	14
64	Effect of sterol side chain on ion channel formation by amphotericin B in lipid bilayers. <i>Biochemistry</i> , 2014 , 53, 3088-94	3.2	14
63	Bioactive Structure of Membrane Lipids and Natural Products Elucidated by a Chemistry-Based Approach. <i>Chemical Record</i> , 2015 , 15, 675-90	6.6	14
62	Coexistence of two liquid crystalline phases in dihydrosphingomyelin and dioleoylphosphatidylcholine binary mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 1372-81	3.8	14
61	Ion channel complex of antibiotics as viewed by NMR. <i>Pure and Applied Chemistry</i> , 2009 , 81, 1123-1129	2.1	14
60	Surface plasmon resonance-based detection of ladder-shaped polyethers by inhibition detection method. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 2824-8	2.9	14
59	Axial hydrogen at C7 position and bumpy tetracyclic core markedly reduce sterols' affinity to amphotericin B in membrane. <i>Biochemistry</i> , 2015 , 54, 303-12	3.2	13
58	Absolute Structure and Total Synthesis of Lipogrammistin-A, a Lipophilic Ichthyotoxin of the Soapfish. <i>Journal of Organic Chemistry</i> , 1998 , 63, 3925-3932	4.2	13
57	Channel Formation and Membrane Deformation via Sterol-Aided Polymorphism of Amphidinol 3. <i>Scientific Reports</i> , 2017 , 7, 10782	4.9	12
56	Fluorinated cholesterol retains domain-forming activity in sphingomyelin bilayers. <i>Chemistry and Physics of Lipids</i> , 2011 , 164, 401-8	3.7	12
55	The Perpendicular Orientation of Amphotericin B Methyl Ester in Hydrated Lipid Bilayers Supports the Barrel-Stave Model. <i>Biochemistry</i> , 2019 , 58, 2282-2291	3.2	11
54	Emphatic visualization of sphingomyelin-rich domains by inter-lipid FRET imaging using fluorescent sphingomyelins. <i>Scientific Reports</i> , 2017 , 7, 16801	4.9	11
53	Novel Raman-tagged sphingomyelin that closely mimics original raft-forming behavior. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 2989-94	3.4	11
52	Channels formed by amphotericin B covalent dimers exhibit rectification. <i>Journal of Membrane Biology</i> , 2011 , 240, 159-64	2.3	11

51	The impact of metal complex lipids on viscosity and curvature of hybrid liposomes. <i>Chemical Communications</i> , 2017 , 53, 13249-13252	5.8	10
50	A concise method for quantitative analysis of interactions between lipids and membrane proteins. <i>Analytica Chimica Acta</i> , 2019 , 1059, 103-112	6.6	9
49	Role of polyol moiety of amphotericin B in ion channel formation and sterol selectivity in bilayer membrane. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 5782-8	3.4	9
48	Characterization of the ordered phase formed by sphingomyelin analogues and cholesterol binary mixtures. <i>Biophysics (Nagoya-shi, Japan)</i> , 2013 , 9, 37-49		9
47	Amphotericin B-induced ion flux is markedly attenuated in phosphatidylglycerol membrane as evidenced by a newly devised fluorometric method. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 6301-4	2.4	9
46	Detection of Rap1A as a yessotoxin binding protein from blood cell membranes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 6443-6	2.9	9
45	The Amphotericin B-Ergosterol Complex Spans a Lipid Bilayer as a Single-Length Assembly. <i>Biochemistry</i> , 2019 , 58, 5188-5196	3.2	9
44	Phosphatidylcholine bearing 6,6-dideuterated oleic acid: a useful solid-state (2)H NMR probe for investigating membrane properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 203-6	2.9	8
43	Cholesterol-Induced Conformational Change in the Sphingomyelin Headgroup. <i>Biophysical Journal</i> , 2019 , 117, 307-318	2.9	8
42	Artificial ladder-shaped polyethers that inhibit maitotoxin-induced Ca ²⁺ influx in rat glioma C6 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 3619-22	2.9	8
41	Design and synthesis of sphingomyelin-cholesterol conjugates and their formation of ordered membranes. <i>Chemistry - A European Journal</i> , 2011 , 17, 8568-75	4.8	8
40	Synthesis of 6-F-ergosterol and its influence on membrane-permeabilization of amphotericin B and amphotericin B. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1437-42	3.9	8
39	Mechanism of local anesthetic-induced disruption of raft-like ordered membrane domains. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 1381-1389	4	7
38	Stereoselective synthesis of the head group of archaeal phospholipid PGP-Me to investigate bacteriorhodopsin-lipid interactions. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 10279-84	3.9	7
37	Synthesis and Complete Structure Determination of a Sperm-Activating and -Attracting Factor Isolated from the Ascidian <i>Ascidia sydneiensis</i> . <i>Journal of Natural Products</i> , 2018 , 81, 985-997	4.9	7
36	Modification of bafilomycin structure to efficiently synthesize solid-state NMR probes that selectively bind to vacuolar-type ATPase. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 915-24	4.5	7
35	Effects of chemical modification of sphingomyelin ammonium group on formation of liquid-ordered phase. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 4012-9	3.4	7
34	Conformational change of spermidine upon interaction with adenosine triphosphate in aqueous solution. <i>Chemistry - A European Journal</i> , 2009 , 15, 1618-26	4.8	7

33	Synthesis of 25- ¹³ C-Amphotericin B Methyl Ester: A Molecular Probe for Solid-state NMR Measurements. <i>Chemistry Letters</i> , 2009 , 38, 114-115	1.7	7
32	On the Importance of the C(1)-OH and C(3)-OH Functional Groups of the Long-Chain Base of Ceramide for Interlipid Interaction and Lateral Segregation into Ceramide-Rich Domains. <i>Langmuir</i> , 2018 , 34, 15864-15870	4	7
31	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17931-17937	16.4	6
30	Sterol-dependent membrane association of the marine sponge-derived bicyclic peptide Theonellamide A as examined by H NMR. <i>Bioorganic and Medicinal Chemistry</i> , 2016 , 24, 5235-5242	3.4	6
29	Theonellamide A, a marine-sponge-derived bicyclic peptide, binds to cholesterol in aqueous DMSO: Solution NMR-based analysis of peptide-sterol interactions using hydroxylated sterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 228-235	3.8	6
28	Preparation and Membrane Distribution of Fluorescent Derivatives of Ceramide. <i>Langmuir</i> , 2019 , 35, 2392-2398	4	6
27	Design and Synthesis of 24-Fluorinated Bafilomycin Analogue as an NMR Probe with Potent Inhibitory Activity to Vacuolar-type ATPase. <i>Chemistry Letters</i> , 2014 , 43, 474-476	1.7	5
26	The influence of ceramide and its dihydro analog on the physico-chemical properties of sphingomyelin bilayers. <i>Chemistry and Physics of Lipids</i> , 2020 , 226, 104835	3.7	5
25	Synthesis and Stereochemical Revision of the C31-C67 Fragment of Amphidinol 3. <i>Angewandte Chemie</i> , 2018 , 130, 6168-6172	3.6	4
24	Preparation and Membrane Properties of Oxidized Ceramide Derivatives. <i>Langmuir</i> , 2018 , 34, 465-471	4	4
23	Conformations of spermine in adenosine triphosphate complex: the structural basis for weak bimolecular interactions of major cellular electrolytes. <i>Chemistry - A European Journal</i> , 2011 , 17, 4788-954.8	4.8	4
22	Synthesis and conformation of deuterated spermidine for investigating weak interaction with polyanionic biomolecules. <i>Tetrahedron</i> , 2004 , 60, 5163-5170	2.4	4
21	Possible conformation of amphotericin B dimer in membrane-bound assembly as deduced from solid-state NMR. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 5699-704	3.4	3
20	Structural Reevaluations of Amphidinol 3, a Potent Antifungal Compound from Dinoflagellate. <i>Heterocycles</i> , 2010 , 82, 1359	0.8	3
19	Lysine proximity significantly affects glycation of lysine-containing collagen model peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2011 , 19, 2125-9	3.4	3
18	Accurate Measurement of Vicinal Carbon-Hydrogen Coupling Constants via Ammonium Nitrogen Based on HMBC Experiments. <i>Chemistry Letters</i> , 2008 , 37, 1172-1173	1.7	3
17	Recent Solid-State NMR Studies of Hydrated Lipid Membranes. <i>Annual Reports on NMR Spectroscopy</i> , 2018 , 41-72	1.7	2
16	Recent advances in microscale separation techniques for lipidome analysis. <i>Analyst, The</i> , 2021 , 146, 7418-7430	5.7430	2

15	Derivatization and Isotope Labeling of Amphotericin B Aiming at Elucidation of the Ion-channel Structure. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2006 , 64, 502-514	0.2	2
14	Assembly formation of minor dihydrosphingomyelin in sphingomyelin-rich ordered membrane domains. <i>Scientific Reports</i> , 2020 , 10, 11794	4.9	2
13	Pseudo-Membrane Jackets: Two-Dimensional Coordination Polymers Achieving Visible Phase Separation in Cell Membrane. <i>Angewandte Chemie</i> , 2020 , 132, 18087-18093	3.6	2
12	Metal Complex Lipids for Fluid-Fluid Phase Separation in Coassembled Phospholipid Membranes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13603-13608	16.4	2
11	Archaeal Glycolipid S-TGA-1 Is Crucial for Trimer Formation and Photocycle Activity of Bacteriorhodopsin. <i>ACS Chemical Biology</i> , 2020 , 15, 197-204	4.9	2
10	Amphidinol 3 preferentially binds to cholesterol in disordered domains and disrupts membrane phase separation. <i>Biochemistry and Biophysics Reports</i> , 2021 , 26, 100941	2.2	2
9	Low-flux scanning electron diffraction reveals substructures inside the ordered membrane domain. <i>Scientific Reports</i> , 2020 , 10, 22188	4.9	1
8	(13) C-TmDOTA as versatile thermometer compound for solid-state NMR of hydrated lipid bilayer membranes. <i>Magnetic Resonance in Chemistry</i> , 2016 , 54, 227-33	2.1	1
7	NMR Studies on Natural Product Stereochemical Determination and Conformational Analysis in Solution and in Membrane 2018 , 383-414		1
6	Biophysics at Kyushu University. <i>Biophysical Reviews</i> , 2020 , 12, 245-247	3.7	0
5	Preparation of Nitrogen Analogues of Ceramide and Studies of Their Aggregation in Sphingomyelin Bilayers. <i>Langmuir</i> , 2021 , 37, 12438-12446	4	0
4	Excellent Fluorescent Sphingomyelin Analog Reveals the Existence of Lipid Rafts. <i>Seibutsu Butsuri</i> , 2018 , 58, 321-323	0	
3	An Approach Toward Identification of Target Proteins of Maitotoxin Based on Organic Synthesis 2012 , 23-35		
2	Structure and Interaction in Lipid Bilayers Analyzed Using Bicelles. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2014 , 72, 596-603	0.2	
1	Metal Complex Lipids for Fluid-Fluid Phase Separation in Coassembled Phospholipid Membranes. <i>Angewandte Chemie</i> , 2021 , 133, 13715-13720	3.6	