

# Makoto Oba

## List of Publications by Year in descending order

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101  
papers

5,262  
citations

93792

39  
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97045

71  
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107  
all docs

107  
docs citations

107  
times ranked

5841  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>E</i> -Selective Ring-Closing Metathesis in $\alpha$ -Helical Stapled Peptides Using Carbocyclic $\alpha,\alpha$ -Disubstituted $\alpha$ -Amino Acids. <i>Organic Letters</i> , 2022, 24, 1049-1054.	2.4	5
2	Design and Synthesis of Amino Acids Having an Unnatural Side Chain Structure and Their Applications to Functional Peptides. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2022, 80, 36-45.	0.0	0
3	Selective degradation of histone deacetylase 8 mediated by a proteolysis targeting chimera (PROTAC). <i>Chemical Communications</i> , 2022, 58, 4635-4638.	2.2	25
4	Cell-Penetrating Peptides: Emerging Tools for mRNA Delivery. <i>Pharmaceutics</i> , 2022, 14, 78.	2.0	49
5	A helix foldamer oligopeptide improves intracellular stability and prolongs protein expression of the delivered mRNA. <i>Nanoscale</i> , 2021, 13, 18941-18946.	2.8	10
6	Design, Synthesis, and Biological Evaluation of Lysine Demethylase 5â€¦C Degraders. <i>ChemMedChem</i> , 2021, 16, 1609-1618.	1.6	14
7	Synthesis and Characterization of Radiogallium-Labeled Cationic Amphiphilic Peptides as Tumor Imaging Agents. <i>Cancers</i> , 2021, 13, 2388.	1.7	4
8	Synthesis of ( <i>S</i> )-( $\alpha$ )-Cucurbitine and Conformation of Its Homopeptides. <i>Organic Letters</i> , 2021, 23, 4358-4362.	2.4	6
9	Synthesis of six-membered carbocyclic ring $\alpha,\alpha$ -disubstituted amino acids and arginine-rich peptides to investigate the effect of ring size on the properties of the peptide. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 38, 116111.	1.4	10
10	Identification of Potent and Selective Inhibitors of Fat Mass Obesity-Associated Protein Using a Fragment-Merging Approach. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15810-15824.	2.9	19
11	Synthesis of Chiral $\alpha$ -Trifluoromethyl $\alpha,\alpha$ -Disubstituted $\alpha$ -Amino Acids and Conformational Analysis of Lâ€¦Based Peptides with ( <i>R</i> )- or ( <i>S</i> )- $\alpha$ -Trifluoromethylalanine. <i>ChemistrySelect</i> , 2020, 5, 10882-10886.	0.7	5
12	siRNA delivery using amphipathic cell-penetrating peptides into human hepatoma cells. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115402.	1.4	20
13	Helical foldamer-catalyzed enantioselective 1,4-addition reaction of dialkyl malonates to cyclic enones. <i>Tetrahedron Letters</i> , 2019, 60, 151301.	0.7	15
14	Development of 2-aminoisobutyric acid (Aib)-rich cell-penetrating foldamers for efficient siRNA delivery. <i>Chemical Communications</i> , 2019, 55, 7792-7795.	2.2	22
15	Cell-Penetrating Peptide Foldamers: Drug-Delivery Tools. <i>ChemBioChem</i> , 2019, 20, 2041-2045.	1.3	26
16	Plasmid DNA Delivery Using Cell-Penetrating Peptide Foldamers Composed of Argâ€“Argâ€“Aib Repeating Sequences. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5660-5668.	2.6	19
17	Secondary structures and cell-penetrating abilities of arginine-rich peptide foldamers. <i>Scientific Reports</i> , 2019, 9, 1349.	1.6	31
18	Effects of five-membered ring amino acid incorporation into peptides for coiled coil formation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 875-877.	1.0	3

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19	Structural Development of Cell-Penetrating Peptides Containing Cationic Proline Derivatives. <i>Chemical and Pharmaceutical Bulletin</i> , 2018, 66, 575-580.	0.6	11
20	Cell-Penetrating Peptides Using Cyclic $\beta$ , $\beta$ -Disubstituted $\beta$ -Amino Acids with Basic Functional Groups. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1368-1376.	2.6	18
21	Left-Handed Helix of Three-Membered Ring Amino Acid Homopeptide Interrupted by an $\pi$ -Ethereal O-Type Hydrogen Bond. <i>Organic Letters</i> , 2018, 20, 7830-7834.	2.4	7
22	Development of helix-stabilized cell-penetrating peptides containing cationic $\beta$ , $\beta$ -disubstituted amino acids as helical promoters. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1846-1851.	1.4	21
23	Enhanced and Prolonged Cell-Penetrating Abilities of Arginine-Rich Peptides by Introducing Cyclic $\beta$ , $\beta$ -Disubstituted $\beta$ -Amino Acids with Stapling. <i>Bioconjugate Chemistry</i> , 2017, 28, 1801-1806.	1.8	34
24	Diastereomeric Right- and Left-Handed Helical Structures with Fourteen ( $\beta$ -Chiral Centers. <i>Chemistry - A European Journal</i> , 2017, 23, 18120-18124.	1.7	10
25	Low pH-triggering changes in peptide secondary structures. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 6302-6305.	1.5	7
26	Polyplex micelle installing intracellular self-processing functionalities without free cationomers for safe and efficient systemic gene therapy through tumor vasculature targeting. <i>Biomaterials</i> , 2017, 113, 253-265.	5.7	55
27	Helical $\beta$ -Leu-Based Peptides Having Chiral Five-Membered Carbocyclic Ring Amino Acids with an Ethylene Acetal Moiety. <i>ChemistrySelect</i> , 2017, 2, 8108-8114.	0.7	4
28	Cyclic $\beta$ , $\beta$ -Disubstituted $\beta$ -Amino Acids with Menthone in Their Side Chains Linked through an Acetal Moiety and Helical Structures of Their Peptides. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2988-2998.	1.2	4
29	The side-chain hydroxy groups of a cyclic $\beta$ , $\beta$ -disubstituted $\beta$ -amino acid promote oligopeptide $3 <sub>10</sub>$ helix packing in the crystalline state. <i>Biopolymers</i> , 2016, 106, 757-768.	1.2	1
30	Conformational studies on peptides having dipropylglycine (Dpg) or $\beta$ -aminocycloheptanecarboxylic acid ( $\beta$ -7c) within the sequence of $\beta$ -leucine (Leu) residues. <i>Biopolymers</i> , 2016, 106, 210-218.	1.2	5
31	Handedness Preferences of Heterochiral Helical Peptides Containing Homochiral Peptide Segments. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 840-846.	1.2	4
32	Synthesis of chiral five-membered carbocyclic ring amino acids with an acetal moiety and helical conformations of its homo-chiral homopeptides. <i>Biopolymers</i> , 2016, 106, 555-562.	1.2	11
33	A Cell-Penetrating Peptide with a Guanidylethyl Amine Structure Directed to Gene Delivery. <i>Scientific Reports</i> , 2016, 6, 19913.	1.6	22
34	Plasmid DNA delivery by arginine-rich cell-penetrating peptides containing unnatural amino acids. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 2681-2687.	1.4	46
35	Helical structures of $\beta$ -Leu-based peptides having chiral six-membered ring amino acids. <i>Tetrahedron</i> , 2016, 72, 3124-3131.	1.0	2
36	Helical structures of homo-chiral isotope-labeled $\beta$ -aminoisobutyric acid peptides. <i>Tetrahedron</i> , 2016, 72, 5864-5871.	1.0	5

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37	Influence of L-Leu to D-Leu Replacement on the Helical Secondary Structures of L-Leu-Aib-Based Dodecapeptides. <i>ChemistrySelect</i> , 2016, 1, 5805-5811.	0.7	1
38	Development of a Cell-penetrating Peptide that Exhibits Responsive Changes in its Secondary Structure in the Cellular Environment. <i>Scientific Reports</i> , 2016, 6, 33003.	1.6	53
39	Helical Structures of Oligopeptides with an Alternating L-Leu-Aib Segment. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2815-2820.	1.2	10
40	A Helix-Stabilized Cell-Penetrating Peptide as an Intracellular Delivery Tool. <i>ChemBioChem</i> , 2016, 17, 137-140.	1.3	55
41	Synthetic Polyamines to Regulate mRNA Translation through the Preservative Binding of Eukaryotic Initiation Factor 4E to the Cap Structure. <i>Journal of the American Chemical Society</i> , 2016, 138, 1478-1481.	6.6	33
42	Peptide foldamers composed of six-membered ring L,L-disubstituted L-amino acids with two changeable chiral acetal moieties. <i>Tetrahedron</i> , 2015, 71, 3909-3914.	1.0	9
43	Plasmid DNA delivery using fluorescein-labeled arginine-rich peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 4911-4918.	1.4	25
44	A preorganized L-amino acid bearing a guanidinium side chain and its use in cell-penetrating peptides. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5617-5620.	1.5	39
45	Amino equatorial effect of a six-membered ring amino acid on its peptide 310- and L-helices. <i>Tetrahedron</i> , 2015, 71, 2409-2420.	1.0	9
46	Topological Study of the Structures of Heterochiral Peptides Containing Equal Amounts of L-Leu and D-Leu. <i>Journal of Organic Chemistry</i> , 2015, 80, 8597-8603.	1.7	15
47	Conformational studies on peptides having chiral five-membered ring amino acid with two azido or triazole functional groups within the sequence of Aib residues. <i>Tetrahedron</i> , 2014, 70, 8900-8907.	1.0	8
48	Cell-Penetrating Helical Peptides Having L-Arginines and Five-Membered Ring L,L-Disubstituted L-Amino Acids. <i>Bioconjugate Chemistry</i> , 2014, 25, 1761-1768.	1.8	34
49	Modulated Protonation of Side Chain Aminoethylene Repeats in N-Substituted Polyaspartamides Promotes mRNA Transfection. <i>Journal of the American Chemical Society</i> , 2014, 136, 12396-12405.	6.6	113
50	Helical Peptide-Foldamers Having a Chiral Five-Membered Ring Amino Acid with Two Azido Functional Groups. <i>Journal of Organic Chemistry</i> , 2014, 79, 9125-9140.	1.7	18
51	Amphipathic short helix-stabilized peptides with cell-membrane penetrating ability. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2403-2408.	1.4	62
52	Optimized rod length of polyplex micelles for maximizing transfection efficiency and their performance in systemic gene therapy against stroma-rich pancreatic tumors. <i>Biomaterials</i> , 2014, 35, 5359-5368.	5.7	62
53	Targeted gene delivery by polyplex micelles with crowded PEG palisade and cRGD moiety for systemic treatment of pancreatic tumors. <i>Biomaterials</i> , 2014, 35, 3416-3426.	5.7	121
54	Three-layered polyplex micelle as a multifunctional nanocarrier platform for light-induced systemic gene transfer. <i>Nature Communications</i> , 2014, 5, 3545.	5.8	167

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55	Synthesis of both enantiomers of cyclic methionine analogue: (R)- and (S)-3-aminotetrahydrothiophene-3-carboxylic acids. <i>Tetrahedron: Asymmetry</i> , 2013, 24, 464-467.	1.8	11
56	Helical Oligomers with a Changeable Chiral Acetal Moiety. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 7679-7682.	1.2	10
57	Study on Development of Polymeric Micellar Gene Carrier and Evaluation of Its Functionality. <i>Biological and Pharmaceutical Bulletin</i> , 2013, 36, 1045-1051.	0.6	16
58	Protein Transfection Study Using Multicellular Tumor Spheroids of Human Hepatoma Huh-7 Cells. <i>PLoS ONE</i> , 2013, 8, e82876.	1.1	12
59	Intracellular Internalization Mechanism of Protein Transfection Reagents. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 1064-1068.	0.6	33
60	Impact of polyplex micelles installed with cyclic RGD peptide as ligand on gene delivery to vascular lesions. <i>Gene Therapy</i> , 2012, 19, 61-69.	2.3	49
61	Helical Structures of Bicyclic $\alpha$ -Amino Acid Homochiral Oligomers with the Stereogenic Centers at the Side-Chain Fused Ring Junctions. <i>Helvetica Chimica Acta</i> , 2012, 95, 1694-1713.	1.0	17
62	PEG-detachable cationic polyaspartamide derivatives bearing stearyl moieties for systemic siRNA delivery toward subcutaneous BxPC3 pancreatic tumor. <i>Journal of Drug Targeting</i> , 2012, 20, 33-42.	2.1	38
63	Homo-cationer integration into PEGylated polyplex micelle from block-cationer for systemic anti-angiogenic gene therapy for fibrotic pancreatic tumors. <i>Biomaterials</i> , 2012, 33, 4722-4730.	5.7	61
64	Size-controlled long-circulating PICs as a ruler to measure critical cut-off disposition size into normal and tumor tissues. <i>Chemical Communications</i> , 2011, 47, 6054.	2.2	97
65	Odd-Even Effect of Repeating Aminoethylene Units in the Side Chain of N-Substituted Polyaspartamides on Gene Transfection Profiles. <i>Journal of the American Chemical Society</i> , 2011, 133, 15524-15532.	6.6	199
66	Gene Transfer Using Micellar Nanovectors Inhibits Choroidal Neovascularization In Vivo. <i>PLoS ONE</i> , 2011, 6, e28560.	1.1	15
67	Gene Transfer Using Micellar Nanovectors Inhibits Corneal Neovascularization In Vivo. <i>Cornea</i> , 2011, 30, 1423-1427.	0.9	23
68	Antiangiogenic gene therapy of experimental pancreatic tumor by sFlt-1 plasmid DNA carried by RGD-modified crosslinked polyplex micelles. <i>Journal of Controlled Release</i> , 2011, 149, 51-57.	4.8	86
69	In situ quantitative monitoring of polyplexes and polyplex micelles in the blood circulation using intravital real-time confocal laser scanning microscopy. <i>Journal of Controlled Release</i> , 2011, 151, 104-109.	4.8	110
70	Disulfide crosslinked polyion complex micelles encapsulating dendrimer phthalocyanine directed to improved efficiency of photodynamic therapy. <i>Journal of Controlled Release</i> , 2011, 155, 449-457.	4.8	66
71	Effect of integrin targeting and PEG shielding on polyplex micelle internalization studied by live-cell imaging. <i>Journal of Controlled Release</i> , 2011, 156, 364-373.	4.8	41
72	Polyplex micelles prepared from $\beta$ -cholesteryl PEG-polycation block copolymers for systemic gene delivery. <i>Biomaterials</i> , 2011, 32, 652-663.	5.7	101

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73	Antiangiogenic Gene Therapy of Solid Tumor by Systemic Injection of Polyplex Micelles Loading Plasmid DNA Encoding Soluble Flt-1. <i>Molecular Pharmaceutics</i> , 2010, 7, 501-509.	2.3	67
74	Enhanced transfection with silica-coated polyplexes loading plasmid DNA. <i>Biomaterials</i> , 2010, 31, 4764-4770.	5.7	29
75	Polyion complex stability and gene silencing efficiency with a siRNA-grafted polymer delivery system. <i>Biomaterials</i> , 2010, 31, 8097-8105.	5.7	122
76	Solid-state conformation of diastereomeric -Pro-Pro-(Aib) <sub>4</sub> sequences. <i>Tetrahedron</i> , 2010, 66, 2293-2296.	1.0	16
77	Introduction of stearyl moieties into a biocompatible cationic polyaspartamide derivative, PAsp(DET), with endosomal escaping function for enhanced siRNA-mediated gene knockdown. <i>Journal of Controlled Release</i> , 2010, 145, 141-148.	4.8	114
78	pDNA/poly(L-lysine) Polyplexes Functionalized with a pH-Sensitive Charge-Conversional Poly(aspartamide) Derivative for Controlled Gene Delivery to Human Umbilical Vein Endothelial Cells. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1181-1186.	2.0	58
79	Impact of polyplex micelles installed with cyclic RGD peptide as ligand on gene delivery to vascular lesions. <i>Nature Precedings</i> , 2010, , .	0.1	0
80	siRNA-Based Therapy Ameliorates Glomerulonephritis. <i>Journal of the American Society of Nephrology: JASN</i> , 2010, 21, 622-633.	3.0	84
81	Spontaneous Formation of Nanosized Unilamellar Polyion Complex Vesicles with Tunable Size and Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 1631-1636.	6.6	219
82	Direct and instantaneous observation of intravenously injected substances using intravital confocal micro-videography. <i>Biomedical Optics Express</i> , 2010, 1, 1209.	1.5	62
83	Enhanced Percolation and Gene Expression in Tumor Hypoxia by PEGylated Polyplex Micelles. <i>Molecular Therapy</i> , 2009, 17, 1404-1410.	3.7	30
84	Environment-Responsive Block Copolymer Micelles with a Disulfide Cross-Linked Core for Enhanced siRNA Delivery. <i>Biomacromolecules</i> , 2009, 10, 119-127.	2.6	301
85	Polyplex Micelles from Triblock Copolymers Composed of Tandemly Aligned Segments with Biocompatible, Endosomal Escaping, and DNA-Condensing Functions for Systemic Gene Delivery to Pancreatic Tumor Tissue. <i>Pharmaceutical Research</i> , 2008, 25, 2924-2936.	1.7	45
86	Charge-Conversion Ternary Polyplex with Endosome Disruption Moiety: A Technique for Efficient and Safe Gene Delivery. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5163-5166.	7.2	206
87	Polyplex Micelles with Cyclic RGD Peptide Ligands and Disulfide Cross-Links Directing to the Enhanced Transfection via Controlled Intracellular Trafficking. <i>Molecular Pharmaceutics</i> , 2008, 5, 1080-1092.	2.3	131
88	PEG-Detachable Polyplex Micelles Based on Disulfide-Linked Block Cationomers as Bioresponsive Nonviral Gene Vectors. <i>Journal of the American Chemical Society</i> , 2008, 130, 6001-6009.	6.6	387
89	Controlled Delivery of bFGF Remodeled Vascular Network in Muscle Flap and Increased Perfusion Capacity Via Minor Pedicle. <i>Journal of Surgical Research</i> , 2008, 147, 132-137.	0.8	18
90	Polyplexes from Poly(aspartamide) Bearing 1,2-Diaminoethane Side Chains Induce pH-Selective, Endosomal Membrane Destabilization with Amplified Transfection and Negligible Cytotoxicity. <i>Journal of the American Chemical Society</i> , 2008, 130, 16287-16294.	6.6	328

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91	Biocompatible micellar nanovectors achieve efficient gene transfer to vascular lesions without cytotoxicity and thrombus formation. <i>Gene Therapy</i> , 2007, 14, 1029-1038.	2.3	96
92	Cyclic RGD Peptide-Conjugated Polyplex Micelles as a Targetable Gene Delivery System Directed to Cells Possessing $\alpha_3\beta_1$ and $\alpha_5\beta_1$ Integrins. <i>Bioconjugate Chemistry</i> , 2007, 18, 1415-1423.	1.8	180
93	Study of the quantitative aminolysis reaction of poly( $\beta$ -benzyl L-aspartate) (PBLA) as a platform polymer for functionality materials. <i>Reactive and Functional Polymers</i> , 2007, 67, 1361-1372.	2.0	80
94	Transfection study using multicellular tumor spheroids for screening non-viral polymeric gene vectors with low cytotoxicity and high transfection efficiencies. <i>Journal of Controlled Release</i> , 2007, 121, 38-48.	4.8	79
95	Concise synthetic strategy toward cyclic $\alpha,\beta$ -disubstituted $\alpha$ -amino acids bearing a $\beta$ -nitrogen atom: chiral 1-substituted 4-aminopiperidine-4-carboxylic acids. <i>Tetrahedron</i> , 2005, 61, 593-598.	1.0	12
96	Concise Synthetic Strategy Toward Cyclic $\alpha,\beta$ -Disubstituted $\alpha$ -Amino Acids Bearing a $\beta$ -Nitrogen Atom: Chiral 1-Substituted 4-Aminopiperidine-4-carboxylic Acids.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
97	An Extended Planar C5 Conformation and a 310-Helical Structure of Peptide Foldamer Composed of Diverse $\beta$ -Ethylated, $\beta$ -Disubstituted $\beta$ -Amino Acids. <i>Chemistry - A European Journal</i> , 2003, 9, 3082-3090.	1.7	41
98	Conformation of Peptides Containing a Chiral $\beta$ -Ethylated, $\beta$ -Disubstituted $\beta$ -Amino Acid: (S)-Ethylleucine (=2S)-2-Amino-2-ethyl-4-methylpentanoic Acid) within Sequences of Dimethylglycine and Diethylglycine Residues. <i>Helvetica Chimica Acta</i> , 2002, 85, 3197-3218.	1.0	35
99	Asymmetric Synthesis of $\alpha,\beta$ -Disubstituted $\alpha$ -Amino Acids Using (S,S)-Cyclohexane-1,2-diol as a Chiral Auxiliary. <i>Journal of Organic Chemistry</i> , 2001, 66, 2667-2673.	1.7	53
100	Solid-State Conformation of a Hybrid Tripeptide between $\beta$ -Amino Acid; 8-Aminocyclooct-4-enecarboxylic Acid and 2-Aminoisobutyric Acid.. <i>Chemical and Pharmaceutical Bulletin</i> , 2001, 49, 1178-1181.	0.6	14
101	Conformational Study of Heteropentapeptides Containing an $\alpha,\beta$ -Ethylated $\alpha,\beta$ -Disubstituted Amino Acid: (S)-Butylethylglycine (=2-Amino-2-ethylhexanoic Acid) within a Sequence of Dimethylglycine (=2-Aminoisobutyric Acid) Residues. <i>Helvetica Chimica Acta</i> , 2001, 84, 32-46.	1.0	14