

# Naoki Umezawa

## List of Publications by Year in descending order

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60  
papers

3,157  
citations

257101

24  
h-index

149479

56  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Oxygen Species Generated from Photoexcited Fullerene (C60) as Potential Medicines: $\text{O}_2$ -versus $\text{O}_2$ . Journal of the American Chemical Society, 2003, 125, 12803-12809.	6.6	642
2	Rational Design of Fluorescein-Based Fluorescence Probes. Mechanism-Based Design of a Maximum Fluorescence Probe for Singlet Oxygen. Journal of the American Chemical Society, 2001, 123, 2530-2536.	6.6	369
3	Translocation of a $\beta$ -Peptide Across Cell Membranes. Journal of the American Chemical Society, 2002, 124, 368-369.	6.6	226
4	Chimeric ( $\beta$ + $\beta$ )-Peptide Ligands for the BH3-Recognition Cleft of Bcl-xL: Critical Role of the Molecular Scaffold in Protein Surface Recognition. Journal of the American Chemical Society, 2005, 127, 11966-11968.	6.6	166
5	Structurally Designed <i>trans</i> -2-Phenylcyclopropylamine Derivatives Potently Inhibit Histone Demethylase LSD1/KDM1,. Biochemistry, 2010, 49, 6494-6503.	1.2	163
6	( $\beta$ + $\beta$ )-Peptide Antagonists of BH3 Domain/Bcl-xL Recognition: Toward General Strategies for Foldamer-Based Inhibition of Protein-Protein Interactions. Journal of the American Chemical Society, 2007, 129, 139-154.	6.6	160
7	Novel Fluorescent Probes for Singlet Oxygen. Angewandte Chemie - International Edition, 1999, 38, 2899-2901.	7.2	159
8	Participation of Reactive Oxygen Species in Phototoxicity Induced by Quinolone Antibacterial Agents. Archives of Biochemistry and Biophysics, 1997, 342, 275-281.	1.4	132
9	Unique Oxidation Reaction of Amides with Pyridine-N-oxide Catalyzed by Ruthenium Porphyrin: Direct Oxidative Conversion of N-Acyl-L-proline to N-Acyl-L-glutamate. Journal of the American Chemical Society, 2005, 127, 834-835.	6.6	87
10	Inhibition of $\beta$ -Secretase Activity by Helical $\beta$ -Peptide Foldamers. Journal of the American Chemical Society, 2009, 131, 7353-7359.	6.6	78
11	An Efficient Route to Either Enantiomer of <i>trans</i> -2-Aminocyclopentanecarboxylic Acid. Journal of Organic Chemistry, 2001, 66, 5629-5632.	1.7	74
12	Selective Binding of TAR RNA by a Tat-Derived $\beta$ -Peptide. Organic Letters, 2003, 5, 3563-3565.	2.4	64
13	Interactions of the antimicrobial beta-peptide beta-17 with phospholipid vesicles differ from membrane interactions of magainins. FEBS Journal, 2003, 270, 1240-1248.	0.2	62
14	Manganese Salen Complexes with Acid-Base Catalytic Auxiliary: Functional Mimetics of Catalase. Inorganic Chemistry, 2013, 52, 3653-3662.	1.9	51
15	Organization of supramolecular assemblies of fullerene, porphyrin and fluorescein dye derivatives on TiO <sub>2</sub> nanoparticles for light energy conversion. Chemical Physics, 2005, 319, 243-252.	0.9	43
16	A Fluorescence Polarization Assay for the Identification of Inhibitors of the p53-DM2 Protein-Protein Interaction. Analytical Biochemistry, 2002, 300, 230-236.	1.1	39
17	Enhanced Energy and Quantum Efficiencies of a Nanocrystalline Photoelectrochemical Cell Sensitized with a Donor-Acceptor Dyad Derived from Fluorescein. Journal of Physical Chemistry B, 2004, 108, 15200-15205.	1.2	37
18	Identification of a Novel Aminopropyltransferase Involved in the Synthesis of Branched-Chain Polyamines in Hyperthermophiles. Journal of Bacteriology, 2014, 196, 1866-1876.	1.0	37

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19	Facile synthesis of peptide-porphyrin conjugates: Towards artificial catalase. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 6340-6350.	1.4	36
20	Enhanced catalase-like activity of manganese salen complexes in water: effect of a three-dimensionally fixed auxiliary. <i>Chemical Communications</i> , 2006, , 4958.	2.2	34
21	Novel Probes Showing Specific Fluorescence Enhancement on Binding to a Hexahistidine Tag. <i>Chemistry - A European Journal</i> , 2008, 14, 8004-8012.	1.7	29
22	Synthesis of the Carbon Framework of Scholarisine A by Intramolecular Oxidative Coupling. <i>Chemistry - A European Journal</i> , 2013, 19, 4255-4261.	1.7	29
23	On-Bead Fluorescence Assay for Serine/Threonine Kinases. <i>Organic Letters</i> , 2005, 7, 5565-5568.	2.4	26
24	Extreme Rate Acceleration by Axial Thiolate Coordination on the Isomerization of Endoperoxide Catalyzed by Iron Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6438-6440.	7.2	26
25	Effect of Helical Conformation and Side Chain Structure on $\hat{\text{I}}^3$ -Secretase Inhibition by $\hat{\text{I}}^2$ -Peptide Foldamers: Insight into Substrate Recognition. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 1443-1454.	2.9	24
26	Nitrous oxide reduction-coupled alkene-alkene coupling catalysed by metalloporphyrins. <i>Chemical Communications</i> , 2013, 49, 8979.	2.2	23
27	Array-based fluorescence assay for serine/threonine kinases using specific chemical reaction. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 7788-7794.	1.4	22
28	Development and crystallographic evaluation of histone H3 peptide with N-terminal serine substitution as a potent inhibitor of lysine-specific demethylase 1. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 2617-2624.	1.4	22
29	Branched-Chain Polyamine Found in Hyperthermophiles Induces Unique Temperature-Dependent Structural Changes in Genome-Size DNA. <i>ChemPhysChem</i> , 2018, 19, 2299-2304.	1.0	22
30	Specific effects of antitumor active norspermidine on the structure and function of DNA. <i>Scientific Reports</i> , 2019, 9, 14971.	1.6	18
31	Effective Chiral Discrimination of Tetravalent Polyamines on the Compaction of Single DNA Molecules. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3712-3716.	7.2	17
32	Naturally occurring branched-chain polyamines induce a crosslinked meshwork structure in a giant DNA. <i>Journal of Chemical Physics</i> , 2016, 145, 235103.	1.2	17
33	Design of New Extraction Surfactants for Membrane Proteins from Peptide Gemini Surfactants. <i>Bioconjugate Chemistry</i> , 2016, 27, 2469-2479.	1.8	17
34	Activation of lysine-specific demethylase 1 inhibitor peptide by redox-controlled cleavage of a traceless linker. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1227-1234.	1.4	17
35	Photocontrol of Peptide Function: Backbone Cyclization Strategy with Photocleavable Amino Acid. <i>ChemBioChem</i> , 2011, 12, 1694-1698.	1.3	15
36	Design and synthesis of a 4-aminoquinoline-based molecular tweezer that recognizes protoporphyrin IX and iron(III) protoporphyrin IX and its application as a supramolecular photosensitizer. <i>Chemical Science</i> , 2018, 9, 7455-7467.	3.7	15

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37	Evaluation of 3-substituted arginine analogs as selective inhibitors of human nitric oxide synthase isozymes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 2881-2885.	1.0	14
38	A versatile strategy for the synthesis of crown ether-bearing heterocycles: Discovery of calcium-selective fluoroionophore. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 7108-7115.	1.4	14
39	Turn-on fluorescent probe with visible light excitation for labeling of hexahistidine tagged protein. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 2285-2288.	1.0	13
40	Efficient oxidation of ethers with pyridine N-oxide catalyzed by ruthenium porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 411-416.	0.4	13
41	Role of Thiolate Ligand in Spin State and Redox Switching in the Cytochrome P450 Catalytic Cycle. <i>Inorganic Chemistry</i> , 2017, 56, 4245-4248.	1.9	13
42	Potent Antimalarial Activity of Two Arenes Linked with Triamine Designed To Have Multiple Interactions with Heme. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 980-985.	1.3	11
43	Structure-Based Identification of Potent Lysine-Specific Demethylase 1 Inhibitor Peptides and Temporary Cyclization to Enhance Proteolytic Stability and Cell Growth-Inhibitory Activity. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3707-3719.	2.9	11
44	Design, synthesis, and evaluation of new type of l-amino acids containing pyridine moiety as nitric oxide synthase inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 3563-3570.	1.4	10
45	Active site geometry of a novel aminopropyltransferase for biosynthesis of hyperthermophile-specific branched-chain polyamine. <i>FEBS Journal</i> , 2017, 284, 3684-3701.	2.2	10
46	Structurally Diverse Polyamines: Solid-Phase Synthesis and Interaction with DNA. <i>ChemBioChem</i> , 2015, 16, 1811-1819.	1.3	9
47	Effects of Structural Isomers of Spermine on the Higher-Order Structure of DNA and Gene Expression. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2355.	1.8	9
48	Methylene chain ruler for evaluating the regioselectivity of a substrate-recognising oxidation catalyst. <i>Chemical Communications</i> , 2019, 55, 8378-8381.	2.2	5
49	Repulsive/attractive interaction among compact DNA molecules as judged through laser trapping: difference between linear- and branched-chain polyamines. <i>Colloid and Polymer Science</i> , 2019, 297, 397-407.	1.0	5
50	Effect of the <i>o</i> -Acetamido Group on pH-Dependent Light Emission of a 3-Hydroxyphenyl-Substituted Dioxetane Luminophore. <i>Organic Letters</i> , 2019, 21, 1258-1262.	2.4	4
51	New Strategy for Synthesis of Bis-Pocket Metalloporphyrins Enabling Regioselective Catalytic Oxidation of Alkanes. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2563-2568.	2.0	4
52	Development of Cell-Penetration PG-Surfactants and Its Application in External Peptide Delivery to Cytosol. <i>Bioconjugate Chemistry</i> , 2020, 31, 821-833.	1.8	3
53	Fluorescence Response and Self-Assembly of a Tweezer-Type Synthetic Receptor Triggered by Complexation with Heme and Its Catabolites. <i>Chemistry - A European Journal</i> , 2021, 27, 6489-6499.	1.7	3
54	Inhibition of FAD-dependent lysine-specific demethylases by chiral polyamine analogues. <i>RSC Advances</i> , 2018, 8, 36895-36902.	1.7	2

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55	Chemoselective Arylation of Dialkyl Diselenides and Application to the Synthesis of a $\mu$ -N,N,N-trimethyllysine Derivative. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6649-6652.	1.2	2
56	Stable Iron Porphyrin Intramolecularly Coordinated by Alcoholate Anion: Synthesis and Evaluation of Axial Ligand Effect of Alcoholate on Spectroscopy and Catalytic Activity. <i>Inorganic Chemistry</i> , 2019, 58, 4268-4274.	1.9	1
57	Unique Oxidation Reaction of Amides with Pyridine-N-oxide Catalyzed by Ruthenium Porphyrin: Direct Oxidative Conversion of N-Acyl-L-proline to N-Acyl-L-glutamate.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
58	Branched-Chain Polyamine Found in Hyperthermophiles Induces Unique Temperature-Dependent Structural Changes in Genome-Size DNA. <i>ChemPhysChem</i> , 2018, 19, 2284-2284.	1.0	0
59	Distinct modulation of group I ribozyme activity among stereoisomers of a synthetic pentamine with structural constraints. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 698-703.	1.0	0
60	Substrate Specificity of an Aminopropyltransferase and the Biosynthesis Pathway of Polyamines in the Hyperthermophilic Crenarchaeon <i>Pyrobaculum calidifontis</i> . <i>Catalysts</i> , 2022, 12, 567.	1.6	0