

# Masato Ikeda

## List of Publications by Year in descending order

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104  
papers

5,840  
citations

87723

38  
h-index

74018

75  
g-index

120  
all docs

120  
docs citations

120  
times ranked

5568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer-based biosensor for estrogenic endocrine-disrupting chemicals in water. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 1963-1986.	1.8	4
2	Formation of Supramolecular Nanostructures through in Situ Self-Assembly and Post-Assembly Modification of a Biocatalytically Constructed Dipeptide Hydrazide**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	1
3	Nucleic acid-based fluorescent sensor systems: a review. <i>Polymer Journal</i> , 2022, 54, 751-766.	1.3	7
4	Construction of a Reduction-responsive DNA Microsphere using a Reduction-releavable Spacer based on a Nitrobenzene Scaffold. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	5
5	Installing Reduction Responsiveness into Biomolecules by Introducing Nitroaryl Groups. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
6	Effect of side chain phenyl group on the self-assembled morphology of dipeptide hydrazides. <i>Peptide Science</i> , 2021, 113, e24200.	1.0	5
7	Construction of a reduction-responsive oligonucleotide via a post-modification approach utilizing 4-nitrophenyl diazomethane. <i>Polymer Journal</i> , 2021, 53, 741-746.	1.3	6
8	Synthesis and Self-Assembly Properties of Bola-Amphiphilic Glycosylated Lipopeptide-Type Supramolecular Hydrogels Showing Colour Changes Along with Gel-Sol Transition. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1860.	1.8	4
9	Feasible study on poly(Pyrrole-co-Pyrrole-3-Carboxylic Acid)-modified electrode for detection of 17 $\beta$ -Estradiol. <i>Chemical Papers</i> , 2021, 75, 3493-3503.	1.0	3
10	Introduction of an Oxidation-responsive 4-Boronobenzyl Group into an Oligonucleotide through a Postmodification Approach. <i>Chemistry Letters</i> , 2021, 50, 1412-1415.	0.7	3
11	Development of an Amino Sugar-Based Supramolecular Hydrogelator with Reduction Responsiveness. <i>Jacs Au</i> , 2021, 1, 1639-1646.	3.6	13
12	Self-assembly and hydrogel formation ability of Fmoc-dipeptides comprising $\beta$ -methyl-L-phenylalanine. <i>Polymer Journal</i> , 2020, 52, 923-930.	1.3	35
13	Chemical stimulus-responsive supramolecular hydrogel formation and shrinkage of a hydrazone-containing short peptide derivative. <i>Soft Matter</i> , 2020, 16, 899-906.	1.2	21
14	Structural diversification of bola-amphiphilic glycolipid-type supramolecular hydrogelators exhibiting colour changes along with the gel-sol transition. <i>Soft Matter</i> , 2020, 16, 7274-7278.	1.2	9
15	Sulfonamide antibiotics inhibit RNAi by binding to human Argonaute protein 2 PAZ. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127637.	1.0	3
16	Supramolecular Architectures of Nucleic Acid/Peptide Hybrids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9458.	1.8	10
17	One-Pot Construction of Multicomponent Supramolecular Materials Comprising Self-Sorted Supramolecular Architectures of DNA and Semi-Artificial Glycopeptides. <i>ACS Applied Bio Materials</i> , 2020, 3, 9082-9092.	2.3	11
18	Hybrid Soft Nanomaterials Composed of DNA Microspheres and Supramolecular Nanostructures of Semi-artificial Glycopeptides. <i>Chemistry - A European Journal</i> , 2019, 25, 11955-11962.	1.7	20

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19	A stimuli-responsive DNAzyme displaying Boolean logic-gate responses. <i>Chemical Communications</i> , 2019, 55, 1959-1962.	2.2	16
20	Stimuli-responsive supramolecular systems guided by chemical reactions. <i>Polymer Journal</i> , 2019, 51, 371-380.	1.3	39
21	Cyclic arylopeptoid oligomers: synthesis and conformational propensities of peptide-mimetic aromatic macrocycles. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 8505-8512.	1.5	7
22	Reduction-Responsive DNA Duplex Containing <i>o</i> -Nitrobenzyl-Guanine. <i>ACS Omega</i> , 2018, 3, 9267-9275.	1.6	9
23	Imaging-Based Study on Control Factors over Self-Sorting of Supramolecular Nanofibers Formed from Peptide- and Lipid-type Hydrogelators. <i>Bioconjugate Chemistry</i> , 2018, 29, 2058-2067.	1.8	29
24	(Invited) Stimuli-Responsive Supramolecular Hydrogels. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
25	Nucleobase azide-ethynylribose click chemistry contributes to stabilizing oligonucleotide duplexes and stem-loop structures. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2655-2658.	1.0	5
26	The effect of carbohydrate structures on the hydrogelation ability and morphology of self-assembled structures of peptide-carbohydrate conjugates in water. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4595-4600.	1.5	32
27	Chemically Caged Nucleic Acids. <i>Chemistry Letters</i> , 2017, 46, 634-640.	0.7	16
28	Introduction of 2'-O-benzyl abasic nucleosides to the 3'-overhang regions of siRNAs greatly improves nuclease resistance. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 5454-5456.	1.0	5
29	Reduction-Responsive Guanine Incorporated into G-Quadruplex-Forming DNA. <i>ChemBioChem</i> , 2016, 17, 1304-1307.	1.3	17
30	Synthesis of self-assembling arylopeptoid bearing hydrophilic polymer on the basis of soluble polymer-supported liquid-phase synthesis. <i>Tetrahedron</i> , 2016, 72, 6886-6891.	1.0	4
31	Preparation of supramolecular hydrogel-enzyme hybrids exhibiting biomolecule-responsive gel degradation. <i>Nature Protocols</i> , 2016, 11, 1744-1756.	5.5	35
32	In situ real-time imaging of self-sorted supramolecular nanofibres. <i>Nature Chemistry</i> , 2016, 8, 743-752.	6.6	191
33	Practical and Reliable Synthesis of 1,2-Dideoxy-ribofuranose and its Application in RNAi Studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2016, 35, 64-75.	0.4	8
34	New solid phase submonomer synthesis of arylopeptoid oligomers using reductive amination. <i>Tetrahedron Letters</i> , 2015, 56, 6726-6729.	0.7	8
35	Pro-apoptotic Peptide Amphiphile Self-assembled with the Assistance of Polycations. <i>Chemistry Letters</i> , 2015, 44, 1137-1139.	0.7	4
36	Two-Photon-Responsive Supramolecular Hydrogel for Controlling Materials Motion in Micrometer Space. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7264-7267.	7.2	57

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37	Synthesis of ethynylbenzene-substituted glycol as a versatile probe for labeling oligonucleotides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1519-1522.	1.0	8
38	Installing logic-gate responses to a variety of biological substances in supramolecular hydrogel-enzyme hybrids. <i>Nature Chemistry</i> , 2014, 6, 511-518.	6.6	370
39	Design of peptide-based bolaamphiphiles exhibiting heat-set hydrogelation via retro-Diels-Alder reaction. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1464.	2.9	18
40	Supramolecular hydrogels based on bola-amphiphilic glycolipids showing color change in response to glycosidases. <i>Chemical Communications</i> , 2013, 49, 2115-2117.	2.2	45
41	Bioinspired Supramolecular Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 10-24.	2.0	12
42	A supramolecular hydrogel containing boronic acid-appended receptor for fluorocolorimetric sensing of polyols with a paper platform. <i>Chemical Communications</i> , 2012, 48, 2716.	2.2	59
43	Heat-Induced Morphological Transformation of Supramolecular Nanostructures by Retro-Diels-Alder Reaction. <i>Chemistry - A European Journal</i> , 2012, 18, 13091-13096.	1.7	45
44	Titelbild: Meter-Long and Robust Supramolecular Strands Encapsulated in Hydrogel Jackets ( <i>Angew.</i> )	7.2	55
45	Meter-Long and Robust Supramolecular Strands Encapsulated in Hydrogel Jackets. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1553-1557.	7.2	55
46	Additions and corrections published in 2011. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8504.	1.5	2
47	Synthesis of Complementary Double-Stranded Helical Oligomers through Chiral and Achiral Amidinium-Carboxylate Salt Bridges and Chiral Amplification in Their Double-Helix Formation. <i>Journal of the American Chemical Society</i> , 2011, 133, 3419-3432.	6.6	88
48	Montmorillonite-Supramolecular Hydrogel Hybrid for Fluorocolorimetric Sensing of Polyamines. <i>Journal of the American Chemical Society</i> , 2011, 133, 1670-1673.	6.6	159
49	Mechanical Reinforcement of Supramolecular Hydrogel through Incorporation of Multiple Noncovalent Interactions. <i>Chemistry Letters</i> , 2011, 40, 198-200.	0.7	16
50	Stiff, Multistimuli-Responsive Supramolecular Hydrogels as Unique Molds for 2D/3D Microarchitectures of Live Cells. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2368-2375.	1.7	37
51	Rational Molecular Design of Stimulus-Responsive Supramolecular Hydrogels Based on Dipeptides. <i>Advanced Materials</i> , 2011, 23, 2819-2822.	11.1	183
52	Fluidic supramolecular nano- and microfibrils as molecular rails for regulated movement of nanosubstances. <i>Nature Communications</i> , 2010, 1, 20.	5.8	28
53	MEMS meets supramolecules: Aligning supramolecular fibers within hydrogel strand using a microfluidic channel. , 2010, , .		0
54	Supramolecular hydrogel capsule showing prostate specific antigen-responsive function for sensing and targeting prostate cancer cells. <i>Chemical Science</i> , 2010, 1, 491.	3.7	75

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55	Supramolecular hydrogel-based protein and chemosensor array. <i>Lab on A Chip</i> , 2010, 10, 3325.	3.1	89
56	Supramolecular Hydrogel Exhibiting Four Basic Logic Gate Functions To Fine-Tune Substance Release. <i>Journal of the American Chemical Society</i> , 2009, 131, 5580-5585.	6.6	295
57	MCM <sup>18</sup> -Enzyme <sup>18</sup> -Supramolecular Hydrogel Hybrid as a Fluorescence Sensing Material for Polyanions of Biological Significance. <i>Journal of the American Chemical Society</i> , 2009, 131, 5321-5330.	6.6	168
58	2P-157 BIOMIMETIC FUNCTIONAL FIBROUS GEL CONSTRUCTED BY HIERARCHICAL SUPRAMOLECULAR ASSEMBLY OF ORGANIC MOLECULES(Cell biology,The 47th Annual Meeting of the Biophysical Society of) Tj ETQq000 rgBT0Overlock		
59	Mechanical Reinforcement of a Supramolecular Hydrogel Comprising an Artificial Glyco $\omega$ -Lipid through Supramolecular Copolymerization. <i>Macromolecular Bioscience</i> , 2008, 8, 1019-1025.	2.1	9
60	Photo Gel $\leftrightarrow$ Sol/Sol $\leftrightarrow$ Gel Transition and Its Patterning of a Supramolecular Hydrogel as Stimuli $\leftrightarrow$ Responsive Biomaterials. <i>Chemistry - A European Journal</i> , 2008, 14, 3977-3986.	1.7	208
61	Three $\leftrightarrow$ Dimensional Encapsulation of Live Cells by Using a Hybrid Matrix of Nanoparticles in a Supramolecular Hydrogel. <i>Chemistry - A European Journal</i> , 2008, 14, 10808-10815.	1.7	33
62	Photo-responsive gel droplet as a nano- or pico-litre container comprising a supramolecular hydrogel. <i>Chemical Communications</i> , 2008, , 1545.	2.2	72
63	Metal ion induced allosteric transition in the catalytic activity of an artificial phosphodiesterase. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 493-499.	1.5	26
64	Complex formation between cationic $\beta$ -1,3-glucan and hetero-sequence oligodeoxynucleotide and its delivery into macrophage-like cells to induce cytokine secretion. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2219-2224.	1.5	14
65	Photoresponsive double-stranded helices composed of complementary strands. <i>Chemical Communications</i> , 2007, , 3174.	2.2	48
66	$\beta$ -1,3-Glucan (Schizophyllan) Can Act as a One-Dimensional Host for Creating Chirally Twisted Poly(p-phenylene Ethynylene). <i>Supramolecular Chemistry</i> , 2007, 19, 107-113.	1.5	23
67	Application of Soluble Poly(phenylenevinylene) Wrapped in Amylose to Organic Light-Emitting Diodes. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 471, 29-38.	0.4	7
68	Instantaneous Inclusion of a Polynucleotide and Hydrophobic Guest Molecules into a Helical Core of Cationic $\beta$ -1,3-Glucan Polysaccharide. <i>Journal of the American Chemical Society</i> , 2007, 129, 3979-3988.	6.6	73
69	Dynamic Rotational Oscillation of Cerium(IV) Bis(porphyrinate) and Its Control by Diamine Guest Binding with Positive Homotropic Allostereism. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 1883-1886.	1.2	10
70	Controlled Stability of the Triple $\leftrightarrow$ Stranded Helical Structure of a $\beta$ -1,3 $\leftrightarrow$ Glucan with a Chromophoric Aromatic Moiety at a Peripheral Position. <i>Chemistry - an Asian Journal</i> , 2007, 2, 1290-1298.	1.7	12
71	Construction of Double-Stranded Metallosupramolecular Polymers with a Controlled Helicity by Combination of Salt Bridges and Metal Coordination. <i>Journal of the American Chemical Society</i> , 2006, 128, 6806-6807.	6.6	164
72	A Luminescent Poly(phenylenevinylene) $\leftrightarrow$ Amylose Composite with Supramolecular Liquid Crystallinity. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6491-6495.	7.2	88

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73	Hierarchical Self-Assembly of a Bow-Shaped Molecule Bearing Self-Complementary Hydrogen Bonding Sites into Extended Supramolecular Assemblies. <i>Chemistry - A European Journal</i> , 2005, 11, 662-668.	1.7	64
74	Rod-like architecture and helicity of the poly(C)/schizophyllan complex observed by AFM and SEM. <i>Carbohydrate Research</i> , 2004, 339, 251-258.	1.1	51
75	Metal ion induced allosteric transition in the catalytic activity of an artificial phosphodiesterase Electronic supplementary information (ESI) available: synthesis of 1, characterization of complexes by <sup>1</sup> H-NMR and ESI-MS spectroscopies and the analysis of the kinetic data. See <a href="http://www.rsc.org/suppdata/cc/b3/b314032f/">http://www.rsc.org/suppdata/cc/b3/b314032f/</a> . <i>Chemical Communications</i> , 2004, , 420.	2.2	28
76	TICT Induced Fluorescence Color Change Actualized in an Organogel System. <i>Chemistry Letters</i> , 2004, 33, 1124-1125.	0.7	22
77	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 2082-2086.	1.6	68
78	Construction of Nonlinear Response Systems Utilizing Molecular Machines. <i>ChemInform</i> , 2003, 34, no.	0.1	0
79	A Colorimetric and Ratiometric Fluorescent Chemosensor with Three Emission Changes: Fluoride Ion Sensing by a Triarylborane- <sup>+</sup> Porphyrin Conjugate. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2036-2040.	7.2	369
80	Unusual emission properties of a triphenylene-based organogel system Electronic supplementary information (ESI) available: Characterization data for 1 and 2. Fig. S1: UV-Vis spectra of 1 and 2. Fig. S2: X-ray powder diffractograms of xerogels 1 and 2. Fig. S3: Transient fluorescence spectra and fluorescence decays of cyclohexane gel 1. See <a href="http://www.rsc.org/suppdata/cc/b3/b302415f/">http://www.rsc.org/suppdata/cc/b3/b302415f/</a> . <i>Chemical Communications</i> , 2003, , 1354.	2.2	124
81	Electropolymerization of Bithienyl-appended Cerium(III) Triple Decker Porphyrin Complex. <i>Chemistry Letters</i> , 2003, 32, 264-265.	0.7	11
82	Cooperative C60Binding to a Porphyrin Tetramer Arranged around ap-Terphenyl Axis in 1:2 Host-Guest Stoichiometry. <i>Organic Letters</i> , 2002, 4, 925-928.	2.4	96
83	Allosteric Binding of an Ag <sup>+</sup> Ion to Cerium(IV) Bis-porphyrinates Enhances the Rotational Activity of Porphyrin Ligands. <i>Chemistry - A European Journal</i> , 2002, 8, 5541-5550.	1.7	84
84	Allosteric saccharide sensing by a phenylboronic-acids-appended 5,15-Bis(triarylethynyl)porphyrin. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 133-142.	0.4	11
85	A porphyrin-based gelator assembly which is reinforced by peripheral urea groups and chirally twisted by chiral urea additives. <i>Tetrahedron Letters</i> , 2002, 43, 3751-3755.	0.7	57
86	Construction of Nonlinear Response Systems Utilizing Molecular Machines.. Yuki Gosei Kagaku Kyokaiishi/ <i>Journal of Synthetic Organic Chemistry</i> , 2002, 60, 1201-1209.	0.0	5
87	Allosteric binding of an Ag <sup>+</sup> ion to cerium(IV) bis-porphyrinates enhances the rotational activity of porphyrin ligands. <i>Chemistry - A European Journal</i> , 2002, 8, 5542-50.	1.7	2
88	[60]Fullerene Can Reinforce the Organogel Structure of Porphyrin-Appended Cholesterol Derivatives: A Novel Odd-Even Effect of the (CH <sub>2</sub> ) <sub>n</sub> Spacer on the Organogel Stability. <i>Langmuir</i> , 2001, 17, 5825-5833.	1.6	140
89	Molecular Design of Artificial Molecular and Ion Recognition Systems with Allosteric Guest Responses. <i>Accounts of Chemical Research</i> , 2001, 34, 865-873.	7.6	307
90	First Successful Molecular Design of an Artificial Lewis Oligosaccharide Binding System Utilizing Positive Homotropic Allostereism. <i>Journal of the American Chemical Society</i> , 2001, 123, 10239-10244.	6.6	86

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91	Positive Allosteric Systems Designed on Dynamic Supramolecular Scaffolds: Toward Switching and Amplification of Guest Affinity and Selectivity. <i>Accounts of Chemical Research</i> , 2001, 34, 494-503.	7.6	402
92	Allosteric Binding of K <sup>+</sup> to Crown Ether Macrocycles Appended to a Lanthanum Double Decker System. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 883-888.	2.0	35
93	Efficient Anion Binding to Cerium(IV) Bis(porphyrinate) Double Decker Utilizing Positive Homotropic Allosterism. <i>Chemistry Letters</i> , 2001, 30, 520-521.	0.7	22
94	Synthesis of New Diaryl-Substituted Triple-Decker and Tetraaryl-substituted Double-Decker Lanthanum(III) Porphyrins and Their Porphyrin Ring Rotational Speed as Compared with that of Double-Decker Cerium(IV) Porphyrins. <i>Bulletin of the Chemical Society of Japan</i> , 2001, 74, 739-746.	2.0	45
95	Porphyrin Polygons: A New Synthetic Strategy for Cyclic Porphyrin Oligomers Utilizing a Porphyrin Double Decker Structure. <i>Chemistry Letters</i> , 2001, 30, 1266-1267.	0.7	6
96	A porphyrin tetramer for a positive homotropic allosteric recognition system: efficient binding information transduction through butadiynyl axis rotation. <i>Tetrahedron Letters</i> , 2001, 42, 7435-7438.	0.7	23
97	Novel Oligosaccharide Binding to the Cerium(IV) Bis(porphyrinate) Double Decker: Effective Amplification of a Binding Signal through Positive Homotropic Allosterism. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3839-3842.	7.2	84
98	The First Example of Positive Allosterism in an Aqueous Saccharide-Binding System Designed on a Ce(IV) Bis(porphyrinate) Double Decker Scaffold. <i>Tetrahedron</i> , 2000, 56, 4717-4723.	1.0	43
99	An Attempt to Predict the Gelation Ability of Hydrogen-bond-based Gelators Utilizing a Glycoside Library. <i>Tetrahedron</i> , 2000, 56, 9595-9599.	1.0	161
100	Strong Positive Allosterism which Appears in Molecular Recognition with Cerium(IV) Double Decker Porphyrins: Correlation between the Number of Binding Sites and Hill Coefficients. <i>Supramolecular Chemistry</i> , 2000, 12, 321-345.	1.5	38
101	Allosteric Silver(I) Ion Binding with Peripheral $\pi$ -Clefts of a Ce(IV) Double Decker Porphyrin. <i>Organic Letters</i> , 2000, 2, 1803-1805.	2.4	68
102	Meso-meso-linked porphyrin dimer as a novel scaffold for the selective binding of oligosaccharides. <i>Chemical Communications</i> , 2000, , 1047-1048.	2.2	40
103	Efficient chirality transcription utilizing a cerium(IV) double decker porphyrin: a prototype for development of a molecular memory system. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1999, , 3259-3264.	0.9	72
104	Ring rotation controversy in cerium(IV) bis(tetraarylporphyrinate) double deckers: HPLC evidence for the question to rotate or not to rotate. <i>Tetrahedron Letters</i> , 1998, 39, 7897-7900.	0.7	31