

# Yong-beom Lim

## List of Publications by Year in descending order

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84  
papers

3,599  
citations

147726

31  
h-index

138417

58  
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94  
all docs

94  
docs citations

94  
times ranked

4108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in functional supramolecular nanostructures assembled from bioactive building blocks. <i>Chemical Society Reviews</i> , 2009, 38, 925.	18.7	204
2	Biodegradable, Endosome Disruptive, and Cationic Network-type Polymer as a Highly Efficient and Nontoxic Gene Delivery Carrier. <i>Bioconjugate Chemistry</i> , 2002, 13, 952-957.	1.8	184
3	A Self-Destroying Polycationic Polymer: A Biodegradable Poly(4-hydroxy-L-proline ester). <i>Journal of the American Chemical Society</i> , 1999, 121, 5633-5639.	6.6	178
4	Biodegradable polyester, poly[alpha-(4-aminobutyl)-L-glycolic acid], as a non-toxic gene carrier. <i>Pharmaceutical Research</i> , 2000, 17, 811-816.	1.7	172
5	Polyplexes Assembled with Internally Quaternized PAMAM-OH Dendrimer and Plasmid DNA Have a Neutral Surface and Gene Delivery Potency. <i>Bioconjugate Chemistry</i> , 2003, 14, 1214-1221.	1.8	171
6	Development of a Safe Gene Delivery System Using Biodegradable Polymer, Poly[alpha-(4-aminobutyl)-L-glycolic acid]. <i>Journal of the American Chemical Society</i> , 2000, 122, 6524-6525.	6.6	159
7	Cationic Hyperbranched Poly(amino ester): A Novel Class of DNA Condensing Molecule with Cationic Surface, Biodegradable Three-Dimensional Structure, and Tertiary Amine Groups in the Interior. <i>Journal of the American Chemical Society</i> , 2001, 123, 2460-2461.	6.6	151
8	Self-Assembling Peptides and Their Application in the Treatment of Diseases. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5850.	1.8	131
9	Carbohydrate-Coated Supramolecular Structures: A Transformation of Nanofibers into Spherical Micelles Triggered by Guest Encapsulation. <i>Journal of the American Chemical Society</i> , 2007, 129, 4808-4814.	6.6	117
10	Supramolecular Capsules with Gated Pores from an Amphiphilic Rod Assembly. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4662-4666.	7.2	117
11	Rod-coil block molecules: their aqueous self-assembly and biomaterials applications. <i>Journal of Materials Chemistry</i> , 2008, 18, 2909.	6.7	116
12	Self-Assembled Ternary Complex of Cationic Dendrimer, Cucurbituril, and DNA: A Noncovalent Strategy in Developing a Gene Delivery Carrier. <i>Bioconjugate Chemistry</i> , 2002, 13, 1181-1185.	1.8	114
13	Cell-Penetrating-Peptide-Coated Nanoribbons for Intracellular Nanocarriers. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3475-3478.	7.2	100
14	Filamentous Artificial Virus from a Self-Assembled Discrete Nanoribbon. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4525-4528.	7.2	85
15	Controlled Bioactive Nanostructures from Self-Assembly of Peptide Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9011-9014.	7.2	84
16	Comparative studies on the genotoxicity and cytotoxicity of polymeric gene carriers polyethylenimine (PEI) and polyamidoamine (PAMAM) dendrimer in Jurkat T-cells. <i>Drug and Chemical Toxicology</i> , 2010, 33, 357-366.	1.2	78
17	Self-Assembly of supramolecular polymers into tunable helical structures. <i>Journal of Polymer Science Part A</i> , 2008, 46, 1925-1935.	2.5	73
18	Stabilization of an alpha-Helix by beta-Sheet-Mediated Self-Assembly of a Macrocyclic Peptide. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1601-1605.	7.2	72

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19	Glycoconjugate Nanoribbons from the Self-Assembly of Carbohydrate~Peptide Block Molecules for Controllable Bacterial Cell Cluster Formation. <i>Biomacromolecules</i> , 2007, 8, 1404-1408.	2.6	66
20	Self-assembly of a peptide rod~coil: a polyproline rod and a cell-penetrating peptide Tat coil. <i>Chemical Communications</i> , 2008, , 1892.	2.2	56
21	Nanostructures of $\beta$ -sheet peptides: steps towards bioactive functional materials. <i>Journal of Materials Chemistry</i> , 2008, 18, 723-727.	6.7	54
22	Self-assembled multivalent carbohydrate ligands. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 401-405.	1.5	50
23	The inhibition of prions through blocking prion conversion by permanently charged branched polyamines of low cytotoxicity. <i>Biomaterials</i> , 2010, 31, 2025-2033.	5.7	48
24	Differential Self-Assembly Behaviors of Cyclic and Linear Peptides. <i>Biomacromolecules</i> , 2012, 13, 1991-1995.	2.6	42
25	Chameleon-like Self-Assembling Peptides for Adaptable Biorecognition Nanohybrids. <i>ACS Nano</i> , 2013, 7, 6850-6857.	7.3	38
26	Cyto-/Genotoxic Effect of CdSe/ZnS Quantum Dots in Human Lung Adenocarcinoma Cells for Potential Photodynamic UV Therapy Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 2160-2168.	0.9	37
27	Tunable Bacterial Agglutination and Motility Inhibition by Self~Assembled Glyco~Nanoribbons. <i>Chemistry - an Asian Journal</i> , 2007, 2, 1363-1369.	1.7	36
28	Designer Nanorings with Functional Cavities from Self~Assembling $\beta$ -Sheet Peptides. <i>Chemistry - an Asian Journal</i> , 2011, 6, 452-458.	1.7	35
29	Helix Stabilized, Thermostable, and Protease-Resistant Self-Assembled Peptide Nanostructures as Potential Inhibitors of Protein~Protein Interactions. <i>Biomacromolecules</i> , 2013, 14, 2684-2689.	2.6	33
30	Reciprocal Self-Assembly of Peptide-DNA Conjugates into a Programmable Sub-10-nm Supramolecular Deoxyribonucleoprotein. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12003-12007.	7.2	33
31	Cyclic Peptide Facial Amphiphile Preprogrammed to Self~Assemble into Bioactive Peptide Capsules. <i>Chemistry - A European Journal</i> , 2010, 16, 5305-5309.	1.7	29
32	A cyclic RGD-coated peptide nanoribbon as a selective intracellular nanocarrier. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 1944.	1.5	27
33	Self-assembled filamentous nanostructures for drug/gene delivery applications. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 341-351.	2.4	27
34	A CMOS VEGF Sensor for Cancer Diagnosis Using a Peptide Aptamer-Based Functionalized Microneedle. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019, 13, 1288-1299.	2.7	27
35	New cationic lipids for gene transfer with high efficiency and low toxicity: T-shape cholesterol ester derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 2637-2641.	1.0	26
36	Toroidal Nanostructures from Self~Assembly of Block Copolypeptides Based on Poly(L-Arginine) and $\beta$ -Sheet Peptide. <i>Macromolecular Rapid Communications</i> , 2011, 32, 191-196. <sup>2.0</sup>		25

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37	Structural and Conformational Dynamics of Self-Assembling Bioactive $\beta$ -Sheet Peptide Nanostructures Decorated with Multivalent RNA-Binding Peptides. <i>Journal of the American Chemical Society</i> , 2012, 134, 16047-16053.	6.6	22
38	Photoactivation of Noncovalently Assembled Peptide Ligands on Carbon Nanotubes Enables the Dynamic Regulation of Stem Cell Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26470-26481.	4.0	22
39	A fluorescent supramolecular biosensor for bacterial detection via binding-induced changes in coiled-coil molecular assembly. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 93-99.	4.0	21
40	Stabilization of $\beta$ -helices by the self-assembly of macrocyclic peptides on the surface of gold nanoparticles for molecular recognition. <i>Chemical Communications</i> , 2013, 49, 7617.	2.2	20
41	Bioactive molecular sheets from self-assembly of polymerizable peptides. <i>Chemical Communications</i> , 2008, , 4001.	2.2	19
42	Macrocyclic Peptides Self-Assemble into Robust Vesicles with Molecular Recognition Capabilities. <i>Bioconjugate Chemistry</i> , 2014, 25, 1996-2003.	1.8	19
43	Controlled self-assembly of $\beta$ -helix-decorated peptide nanostructures. <i>Soft Matter</i> , 2011, 7, 1675.	1.2	18
44	Bioinspired Self-Assembled Peptide Nanofibers with Thermostable Multivalent $\beta$ -Helices. <i>Biomacromolecules</i> , 2013, 14, 1594-1599.	2.6	18
45	Liposome fusion induced by pH-sensitive copolymer: Poly(4-vinylpyridine-co-N,N'-diethylaminoethyl) Tj ETQq1 1 0.784314 rgBT /Over 2.5 17	2.5	17
46	Modular Self-Assembling Peptide Platform with a Tunable Thermoresponsiveness via a Single Amino Acid Substitution. <i>Advanced Functional Materials</i> , 2018, 28, 1803114.	7.8	17
47	BBr <sub>3</sub> -promoted cyclization to produce ladder-type conjugated polymer. <i>Tetrahedron Letters</i> , 2006, 47, 8689-8692.	0.7	16
48	pH-Dependent In-Cell Self-Assembly of Peptide Inhibitors Increases the Anti-Prion Activity While Decreasing the Cytotoxicity. <i>Biomacromolecules</i> , 2017, 18, 943-950.	2.6	16
49	Toroidal $\beta$ -barrels from self-assembling $\beta$ -sheet peptides. <i>Journal of Materials Chemistry</i> , 2011, 21, 11680.	6.7	15
50	Cytotoxicity and Genotoxicity Induced by Photothermal Effects of Colloidal Gold Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4437-4445.	0.9	15
51	Combination Self-Assembly of $\beta$ -Sheet Peptides and Carbon Nanotubes: Functionalizing Carbon Nanotubes with Bioactive $\beta$ -Sheet Block Copolypeptides. <i>Macromolecular Bioscience</i> , 2012, 12, 49-54.	2.1	14
52	Cell-Penetrating Cross- $\beta$ Peptide Assemblies with Controlled Biodegradable Properties. <i>Biomacromolecules</i> , 2017, 18, 27-35.	2.6	13
53	Terminally-crosslinked sulfonated poly(flourenyl ether sulfone) as a highly conductive and stable proton exchange membrane. <i>Macromolecular Research</i> , 2010, 18, 992-1000.	1.0	12
54	Multiplexing Natural Orientation: Oppositely Directed Self-Assembling Peptides. <i>Biomacromolecules</i> , 2014, 15, 2138-2145.	2.6	11

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55	Tuning Oligovalent Biomacromolecular Interfaces Using Double-Layered $\alpha$ -Helical Coiled-Coil Nanoassemblies from Lariat-Type Building Blocks. <i>ACS Macro Letters</i> , 2016, 5, 1406-1410.	2.3	11
56	Sensitive and Selective Detection of HIV-1 RRE RNA Using Vertical Silicon Nanowire Electrode Array. <i>Nanoscale Research Letters</i> , 2016, 11, 341.	3.1	11
57	3D <sup>2</sup> Self-Assembling Janus Peptide Dendrimers with Tailorable Supermultivalency. <i>Advanced Functional Materials</i> , 2019, 29, 1808020.	7.8	11
58	Large current difference in Au-coated vertical silicon nanowire electrode array with functionalization of peptides. <i>Nanoscale Research Letters</i> , 2013, 8, 502.	3.1	10
59	Real-Time Detection of Markers in Blood. <i>Nano Letters</i> , 2019, 19, 2291-2298.	4.5	9
60	Inhibition of Multimolecular RNA-Protein Interactions Using Multitarget-Directed Nanohybrid System. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11537-11545.	4.0	8
61	Age and Gender Effects on Genotoxicity in Diesel Exhaust Particles Exposed C57BL/6 Mice. <i>Biomolecules</i> , 2021, 11, 374.	1.8	8
62	Highly efficient and fast pre-activation cyclization of the long peptide: Succinimidyl ester-amine reaction revisited. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 5335-5338.	1.0	7
63	Nanomorphological Diversity of Self-Assembled Cyclopeptisomes Investigated via Thermodynamic and Kinetic Controls. <i>Macromolecules</i> , 2016, 49, 7426-7433.	2.2	7
64	A Dodecapeptide Selected by Phage Display as a Potential Theranostic Probe for Colon Cancers. <i>Translational Oncology</i> , 2020, 13, 100798.	1.7	7
65	Molecular Recognition in Self-Assembled Integrated Circuits: Getting Smaller while under Control. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3394-3396.	7.2	6
66	Facile synthesis, optical and conformational characteristics, and efficient intracellular delivery of a peptide-DNA conjugate. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 4204-4209.	1.4	6
67	Reciprocal Self-Assembly of Peptide-DNA Conjugates into a Programmable Sub-10-nm Supramolecular Deoxyribonucleoprotein. <i>Angewandte Chemie</i> , 2016, 128, 12182-12186.	1.6	6
68	Synthesis and purification of self-assembling peptide-oligonucleotide conjugates by solid-phase peptide fragment condensation. <i>Journal of Peptide Science</i> , 2018, 24, e3092.	0.8	6
69	Slow-Motion Self-Assembly: Access to Intermediates with Heterochiral Peptides to Gain Control over Alignment Media Development. <i>ACS Nano</i> , 2020, 14, 3344-3352.	7.3	6
70	Fabrication of Multicomponent Multivesicular Peptidoliposomes and Their Directed Cytoplasmic Delivery. <i>ACS Macro Letters</i> , 2017, 6, 359-364.	2.3	5
71	Disaggregation of Amyloid- $\beta$ Plaques by a Local Electric Field Generated by a Vertical Nanowire Electrode Array. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55596-55604.	4.0	5
72	Unique behaviour of the $\alpha$ -helix in bending deformation. <i>Chemical Communications</i> , 2022, 58, 4368-4371.	2.2	5

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73	Structural control of self-assembled peptide nanostructures to develop peptide vesicles for photodynamic therapy of cancer. <i>Materials Today Bio</i> , 2022, 16, 100337.	2.6	5
74	Covalent capture of $\alpha$ -helical peptides in polymer hydrogel network for polyacrylamide gel stabilization electrophoresis. <i>Journal of Polymer Science Part A</i> , 2014, 52, 596-599.	2.5	4
75	Synthesis and conformational analysis of macrocyclic peptides consisting of both $\alpha$ -helix and polyproline helix segments. <i>Biopolymers</i> , 2014, 101, 279-286.	1.2	4
76	Cyclic Peptide-Decorated Self-Assembled Nanohybrids for Selective Recognition and Detection of Multivalent RNAs. <i>Bioconjugate Chemistry</i> , 2016, 27, 799-808.	1.8	4
77	Investigation of the Hydration State of Self-Assembled Peptide Nanostructures with Advanced Electron Paramagnetic Resonance Spectroscopy. <i>ACS Omega</i> , 2019, 4, 114-120.	1.6	4
78	Determination of Genotoxicity Attributed to Diesel Exhaust Particles in Normal Human Embryonic Lung Cell (WI-38) Line. <i>Biomolecules</i> , 2021, 11, 291.	1.8	4
79	Self-assembling cyclic peptide-oligonucleotide conjugates: Synthetic strategies and the effect of cyclic topology on self-assembly and base pairing. <i>Peptide Science</i> , 2021, 113, e24193.	1.0	3
80	Simultaneous Stabilization and Multimerization of a Peptide $\alpha$ -Helix by Stapling Polymerization. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1021-1026.	2.0	2
81	Macromolecular Sensing of RNAs by Exploiting Conformational Changes in Supramolecular Nanostructures. <i>Biomacromolecules</i> , 2014, 15, 2642-2647.	2.6	1
82	A Three-Dimensional Sensor to Recognize Amyloid- $\beta^2$ in Blood Plasma of Patients. <i>ACS Omega</i> , 2020, 5, 27295-27303.	1.6	1
83	Liposome fusion induced by pH-sensitive copolymer: Poly(4-vinylpyridine-co-N,N-diethylaminoethyl) Tj ETQg1 1 0.784314 rgB	2.5	1
84	Partial purification and characterization of an 80-kDa transcription factor binding to bHLH motif in the rat p53 promoter. <i>Molecular Biology Reports</i> , 2002, 29, 337-345.	1.0	0