Tsuyoshi Takahashi

List of Publications by Year
in descending order

47 papers	921 citations	567281 15 h-index	454955 30 g-index
51 all docs	51 docs citations	51 times ranked	1275 citing authors

#	Article	IF	Citations
1	Peptide and Protein Mimetics Inhibiting Amyloid Î²-Peptide Aggregation. Accounts of Chemical Research, 2008, 41, 1309-1318.	15.6	215
2	Desiccation-Induced Structuralization and Glass Formation of Group 3 Late Embryogenesis Abundant Protein Model Peptides. Biochemistry, 2010, 49, 1093-1104.	2.5	102
3	RNA aptamers selected against amyloid Î²-peptide (AÎ²) inhibit the aggregation of AÎ². Molecular BioSystems, 2009, 5, 986.	2.9	62
4	Effects of Group 3 LEA protein model peptides on desiccation-induced protein aggregation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 891-897.	2.3	49
5	Cell-adhesive hydrogels composed of peptide nanofibers responsive to biological ions. Polymer Journal, 2012, 44, 651-657.	2.7	40
6	Affinity-Based Screening of Peptides Recognizing Assembly States of Self-Assembling Peptide Nanomaterials. Journal of the American Chemical Society, 2009, 131, 14434-14441.	13.7	38
7	Complementary Nucleobase Interaction Enhances Peptide-Peptide Recognition and Self-Replicating Catalysis. Chemistry - A European Journal, 2003, 9, 4829-4837.	3.3	37
8	FRET detection of amyloid Î²-peptide oligomerization using a fluorescent protein probe presenting a pseudo-amyloid structure. Chemical Communications, 2012, 48, 1568-1570.	4.1	34
9	Design of Peptides That Form Amyloidâ€Like Fibrils Capturing Amyloid Î²1â€"42 Peptides. Chemistry - A European Journal, 2007, 13, 7745-7752.	3.3	28
10	Construction of peptides with nucleobase amino acids. Bioorganic and Medicinal Chemistry, 2001, 9, 991-1000.	3.0	26
11	Interactions between peptides containing nucleobase amino acids and T7 phages displayingS. cerevisiae proteins. Biopolymers, 2007, 88, 131-140.	2.4	26
12	Binding Modes of the Precursor of Adenovirus Major Core Protein VII to DNA and Template Activating Factor I:Â Implication for the Mechanism of Remodeling of the Adenovirus Chromatinâ€. Biochemistry, 2006, 45, 303-313.	2.5	21
13	Embedding the Amyloid Î²-Peptide Sequence in Green Fluorescent Protein Inhibits AÎ² Oligomerization. ChemBioChem, 2007, 8, 985-988.	2.6	20
14	Gold nanoparticles conjugated with monosaccharide-modified peptide for lectin detection. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 6825-6827.	2.2	20
15	Rational design of amyloid Î² peptideâ€"binding proteins: Pseudoâ€AÎ² Î²â€sheet surface presented in green fluorescent protein binds tightly and preferentially to structured AÎ². Proteins: Structure, Function and Bioinformatics, 2010, 78, 336-347.	2.6	17
16	Nucleobase Amino Acids Incorporated into the HIV-1 Nucleocapsid Protein Increased the Binding Affinity and Specificity for a Hairpin RNA. ChemBioChem, 2002, 3, 543.	2.6	14
17	De Novo Design of Peptides withl-Î±-Nucleobase Amino Acids and Their Binding Properties to the P22 boxB RNA and Its Mutants. Bioconjugate Chemistry, 2004, 15, 694-698.	3.6	14
18	Selection and structural analysis of <i>de novo</i> proteins from an Î±3Î²3 genetic library. Protein Science, 2009, 18, 384-398.	7.6	14

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19	Design of a nucleobase-conjugated peptide that recognizes HIV-1 RRE IIB RNA with high affinity and specificity. Chemical Communications, 2000, , 349-350.	4.1	13
20	Construction and Control of Self-Assembly of Amyloid and Fibrous Peptides. Bulletin of the Chemical Society of Japan, 2005, 78, 572-590.	3.2	12
21	Construction of HIV Rev peptides containing peptide nucleic acid that bind HIV RRE IIB RNA. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 377-379.	2.2	11
22	A Peptide-Cyclodextrin Hybrid System Capable of Detecting Guest Molecules Utilizing Fluorescence Resonance Energy Transfer. Macromolecular Rapid Communications, 2004, 25, 577-581.	3.9	11
23	Designed Short Peptides that Form Amyloidâ€Like Fibrils in Coassembly with Amyloid Î²â€Peptide (AÎ²) Decrease the Toxicity of AÎ² to Neuronal PC12 Cells. ChemBioChem, 2010, 11, 1525-1530.	2.6	10
24	Peptide Nanofibers Modified with a Protein by Using Designed Anchor Molecules Bearing Hydrophobic and Functional Moieties. Chemistry - A European Journal, 2010, 16, 6644-6650.	3.3	10
25	HIV Rev peptides conjugated with peptide nucleic acids and their efficient binding to RRE RNA. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1169-1172.	2.2	9
26	Utilization of L-Î±-Nucleobase Amino Acids (NBAs) as Protein Engineering Tools: Construction of NBA-Modified HIV-1 Protease Analogues and Enhancement of Dimerization Induced by Nucleobase Interaction. ChemBioChem, 2006, 7, 729-732.	2.6	8
27	A novel Î²-loop scaffold of phage-displayed peptides for highly specific affinities. Molecular BioSystems, 2011, 7, 2558.	2.9	8
28	Inhibition of peptide amyloid formation by cationic peptides with homologous sequences. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 4051-4054.	2.2	7
29	A Novel Peptide Array Using a Phage Display System for Protein Detection. Chemistry Letters, 2011, 40, 508-509.	1.3	6
30	Modification of a Small Î²â€Barrel Protein, To Give Pseudoâ€Amyloid Structures, Inhibits Amyloid Î²â€Peptide Aggregation. Chemistry - A European Journal, 2013, 19, 4525-4531.	3.3	6
31	Design and conformational analysis of natively folded Î²â€hairpin peptides stabilized by nucleobase interactions. Biopolymers, 2010, 94, 830-842.	2.4	5
32	Generation of Active Protease Depending on Peptide-Protein Interactions Using Interaction-Dependent Native Chemical Ligation and Protein Trans-Splicing. Bulletin of the Chemical Society of Japan, 2019, 92, 1767-1772.	3.2	5
33	Interactionâ€“dependent native chemical ligation and protein transâ€“splicing (IDNCLâ€PTS) for detection and visualization of ligandâ€“protein interactions. ChemistrySelect, 2016, 1, 1768-1772.	1.5	4
34	Activation of Protease and Luciferase Using Engineered Nostoc punctiforme PCC73102 DnaE Intein with Altered Split Position. ChemBioChem, 2021, 22, 577-584.	2.6	4
35	Construction of two-stranded Î±-helix peptides based on influenza virus M1 protein selectively bound to RNA. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 2227-2230.	2.2	3
36	Construction of peptide conjugates with peptide nucleic acids containing an anthracene probe and their interactions with DNA. Bioorganic and Medicinal Chemistry, 2001, 9, 1115-1121.	3.0	3

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37	Construction of proteins with molecular recognition capabilities using Â3Â3 de novo protein scaffolds. Protein Engineering, Design and Selection, 2013, 26, 705-711.	2.1	2
38	Interaction-dependent Native Chemical Ligation and Enzyme Reconstitution for Detection of Peptideâ€"Peptide Interaction. Chemistry Letters, 2014, 43, 1357-1359.	1.3	2
39	Affinity Control of Monosaccharide Conjugated Peptides against Lectins with a Set of Amino Acid Substitutions on Î±-Helical Structures. Bioconjugate Chemistry, 2020, 31, 2533-2540.	3.6	2
40	Detecting ligandâ€"protein interactions inside cells using reactive peptide tags and split luciferase. Chemical Communications, 2021, 57, 9906-9909.	4.1	2
41	Terminal Sequence Importance of De Novo Proteins from Binary- Patterned Library: Stable Artificial Proteins with 11- or 12-Amino Acid Alphabet. Protein and Peptide Letters, 2012, 19, 673-679.	0.9	1
42	3P024 Model study of the desiccation-induced structural transformations of Group-3 Late Embryogenesis Abundant (G3LEA) proteins(Hemeproteins. Electronic states. Proteins-structure and) Tj ETQq0 0 0 rg BT /Overlock 10 Tf 5	0.1	0
43	1P-068 The Effect of Model Peptides for Group-3 Late Embryogenesis Abundant (G3LEA) Proteins on Protein Aggregation(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S31.	0.1	0
44	Construction of Sensor Protein That Responses to Amyloid Î²-Peptide Oligomers and Demonstration of Screening Capabilities for Oligomer Inhibitors. Chemistry Letters, 2015, 44, 67-69.	1.3	0
45	Inhibiting Aggregation of Î²-Amyloid by Folded and Unfolded Forms of Fimbrial Protein of Gram-Negative Bacteria. ChemistrySelect, 2017, 2, 9058-9062.	1.5	0
46	Construction of RNA-Binding Proteins Having Nucleobase Amino Acids Based on HIV-1 Nucleocapsid Protein. , 2001, , 518-519.		0
47	Design of Artificial Proteins and Peptides Targeting to Amyloid .BETA. Peptide (A.BETA.) and Control of A.BETA. Aggregation. Seibutsu Butsuri, 2007, 47, 228-234.	0.1	0