

Shiroh Futaki

List of Publications by Year in descending order

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249
papers

16,875
citations

16451

64
h-index

16650

123
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267
all docs

267
docs citations

267
times ranked

12925
citing authors

#	ARTICLE	IF	CITATIONS
1	Arginine-rich Peptides. <i>Journal of Biological Chemistry</i> , 2001, 276, 5836-5840.	3.4	1,473
2	Mechanisms of Cellular Uptake of Cell-Penetrating Peptides. <i>Journal of Biophysics</i> , 2011, 2011, 1-10.	0.8	747
3	Cellular Uptake of Arginine-Rich Peptides: Roles for Macropinocytosis and Actin Rearrangement. <i>Molecular Therapy</i> , 2004, 10, 1011-1022.	8.2	688
4	Stearylated Arginine-Rich Peptides: A New Class of Transfection Systems. <i>Bioconjugate Chemistry</i> , 2001, 12, 1005-1011.	3.6	428
5	Delivery of Macromolecules Using Arginine-Rich Cell-Penetrating Peptides: Ways to Overcome Endosomal Entrapment. <i>AAPS Journal</i> , 2009, 11, 13-22.	4.4	417
6	High-resolution multi-dimensional NMR spectroscopy of proteins in human cells. <i>Nature</i> , 2009, 458, 106-109.	27.8	410
7	Possible Existence of Common Internalization Mechanisms among Arginine-rich Peptides. <i>Journal of Biological Chemistry</i> , 2002, 277, 2437-2443.	3.4	403
8	Membrane-permeable arginine-rich peptides and the translocation mechanisms. <i>Advanced Drug Delivery Reviews</i> , 2005, 57, 547-558.	13.7	384
9	Interaction of Arginine-Rich Peptides with Membrane-Associated Proteoglycans Is Crucial for Induction of Actin Organization and Macropinocytosis. <i>Biochemistry</i> , 2007, 46, 492-501.	2.5	364
10	High Density of Octaarginine Stimulates Macropinocytosis Leading to Efficient Intracellular Trafficking for Gene Expression. <i>Journal of Biological Chemistry</i> , 2006, 281, 3544-3551.	3.4	355
11	Methodological and cellular aspects that govern the internalization mechanisms of arginine-rich cell-penetrating peptides. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 598-607.	13.7	323
12	Cellular Internalization and Distribution of Arginine-Rich Peptides as a Function of Extracellular Peptide Concentration, Serum, and Plasma Membrane Associated Proteoglycans. <i>Bioconjugate Chemistry</i> , 2008, 19, 656-664.	3.6	289
13	Efficient Intracellular Delivery of Nucleic Acid Pharmaceuticals Using Cell-Penetrating Peptides. <i>Accounts of Chemical Research</i> , 2012, 45, 1132-1139.	15.6	272
14	Cytosolic antibody delivery by lipid-sensitive endosomolytic peptide. <i>Nature Chemistry</i> , 2017, 9, 751-761.	13.6	271
15	Transferrin-Modified Liposomes Equipped with a pH-Sensitive Fusogenic Peptide: An Artificial Viral-like Delivery System. <i>Biochemistry</i> , 2004, 43, 5618-5628.	2.5	268
16	Direct and Rapid Cytosolic Delivery Using Cell-Penetrating Peptides Mediated by Pyrenebutyrate. <i>ACS Chemical Biology</i> , 2006, 1, 299-303.	3.4	250
17	A pH-sensitive fusogenic peptide facilitates endosomal escape and greatly enhances the gene silencing of siRNA-containing nanoparticles in vitro and in vivo. <i>Journal of Controlled Release</i> , 2009, 139, 127-132.	9.9	238
18	Development of a non-viral multifunctional envelope-type nano device by a novel lipid film hydration method. <i>Journal of Controlled Release</i> , 2004, 98, 317-323.	9.9	232

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19	Temperature-, concentration- and cholesterol-dependent translocation of L- and D-octa-arginine across the plasma and nuclear membrane of CD34+ leukaemia cells. <i>Biochemical Journal</i> , 2007, 403, 335-342.	3.7	219
20	Arginine-rich peptides: potential for intracellular delivery of macromolecules and the mystery of the translocation mechanisms. <i>International Journal of Pharmaceutics</i> , 2002, 245, 1-7.	5.2	213
21	Combined treatment with a pH-sensitive fusogenic peptide and cationic lipids achieves enhanced cytosolic delivery of exosomes. <i>Scientific Reports</i> , 2015, 5, 10112.	3.3	210
22	Arginine-rich peptides and their internalization mechanisms. <i>Biochemical Society Transactions</i> , 2007, 35, 784-787.	3.4	207
23	Octaarginine-modified multifunctional envelope-type nano device for siRNA. <i>Journal of Controlled Release</i> , 2007, 119, 360-367.	9.9	196
24	Cell-Surface Interactions on Arginine-Rich Cell-Penetrating Peptides Allow for Multiplex Modes of Internalization. <i>Accounts of Chemical Research</i> , 2017, 50, 2449-2456.	15.6	185
25	Oligoarginine vectors for intracellular delivery: Design and cellular-uptake mechanisms. <i>Biopolymers</i> , 2006, 84, 241-249.	2.4	182
26	Transient Focal Membrane Deformation Induced by Arginine-rich Peptides Leads to Their Direct Penetration into Cells. <i>Molecular Therapy</i> , 2012, 20, 984-993.	8.2	179
27	Octaarginine- and Octalysine-modified Nanoparticles Have Different Modes of Endosomal Escape. <i>Journal of Biological Chemistry</i> , 2008, 283, 23450-23461.	3.4	177
28	Translocation of Branched-Chain Arginine Peptides through Cell Membranes: Flexibility in the Spatial Disposition of Positive Charges in Membrane-Permeable Peptides. <i>Biochemistry</i> , 2002, 41, 7925-7930.	2.5	155
29	Intercellular chaperone transmission via exosomes contributes to maintenance of protein homeostasis at the organismal level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2497-506.	7.1	153
30	Nanoparticles for ex vivo siRNA delivery to dendritic cells for cancer vaccines: Programmed endosomal escape and dissociation. <i>Journal of Controlled Release</i> , 2010, 143, 311-317.	9.9	131
31	Accumulation of arginine-rich cell-penetrating peptides in tumors and the potential for anticancer drug delivery in vivo. <i>Journal of Controlled Release</i> , 2012, 159, 181-188.	9.9	131
32	Anionic Fullerenes, Calixarenes, Coronenes, and Pyrenes as Activators of Oligo/Polyarginines in Model Membranes and Live Cells. <i>Journal of the American Chemical Society</i> , 2005, 127, 1114-1115.	13.7	130
33	Arginine-rich cell-penetrating peptide-modified extracellular vesicles for active macropinocytosis induction and efficient intracellular delivery. <i>Scientific Reports</i> , 2017, 7, 1991.	3.3	130
34	Direct Observation of Anion-Mediated Translocation of Fluorescent Oligoarginine Carriers into and across Bulk Liquid and Anionic Bilayer Membranes. <i>ChemBioChem</i> , 2005, 6, 114-122.	2.6	125
35	Transferrin receptor-dependent cytotoxicity of artemisinin-transferrin conjugates on prostate cancer cells and induction of apoptosis. <i>Cancer Letters</i> , 2009, 274, 290-298.	7.2	122
36	Arginine magic with new counterions up the sleeve. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1659.	2.8	120

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37	Elucidating cell-penetrating peptide mechanisms of action for membrane interaction, cellular uptake, and translocation utilizing the hydrophobic counter-anion pyrenebutyrate. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 2509-2517.	2.6	119
38	Preparation of Peptide Thioesters using Fmoc-Solid-Phase Peptide Synthesis and its Application to the Construction of a Template-Assembled Synthetic Protein (TASP). <i>Tetrahedron Letters</i> , 1997, 38, 6237-6240.	1.4	118
39	Detection of <i>N</i> ⁶ -methyladenosine based on the methyl-sensitivity of MazF RNA endonuclease. <i>Chemical Communications</i> , 2017, 53, 12930-12933.	4.1	113
40	Syndecan-4 Is a Receptor for Clathrin-Mediated Endocytosis of Arginine-Rich Cell-Penetrating Peptides. <i>Bioconjugate Chemistry</i> , 2016, 27, 1119-1130.	3.6	112
41	An artificial virus-like nano carrier system: enhanced endosomal escape of nanoparticles via synergistic action of pH-sensitive fusogenic peptide derivatives. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2717-2727.	3.7	111
42	Endosomal escape and the knockdown efficiency of liposomal-siRNA by the fusogenic peptide shGALA. <i>Biomaterials</i> , 2011, 32, 5733-5742.	11.4	107
43	CXCR4 Stimulates Macropinocytosis: Implications for Cellular Uptake of Arginine-Rich Cell-Penetrating Peptides and HIV. <i>Chemistry and Biology</i> , 2012, 19, 1437-1446.	6.0	103
44	Enhanced intracellular delivery using arginine-rich peptides by the addition of penetration accelerating sequences (Pas). <i>Journal of Controlled Release</i> , 2009, 138, 128-133.	9.9	102
45	Cell-surface Accumulation of Flock House Virus-derived Peptide Leads to Efficient Internalization via Macropinocytosis. <i>Molecular Therapy</i> , 2009, 17, 1868-1876.	8.2	100
46	Current Understanding of Direct Translocation of Arginine-Rich Cell-Penetrating Peptides and Its Internalization Mechanisms. <i>Chemical and Pharmaceutical Bulletin</i> , 2016, 64, 1431-1437.	1.3	100
47	Intracellular Traffic and Fate of Protein Transduction Domains HIV-1 TAT Peptide and Octaarginine. Implications for Their Utilization as Drug Delivery Vectors. <i>Bioconjugate Chemistry</i> , 2006, 17, 90-100.	3.6	99
48	Octaarginine-modified liposomes: Enhanced cellular uptake and controlled intracellular trafficking. <i>International Journal of Pharmaceutics</i> , 2008, 354, 39-48.	5.2	96
49	Effects of Na ⁺ /H ⁺ exchanger inhibitors on subcellular localisation of endocytic organelles and intracellular dynamics of protein transduction domains HIV-1 TAT peptide and octaarginine. <i>Journal of Controlled Release</i> , 2006, 116, 247-254.	9.9	90
50	Cell-penetrating peptides (CPPs) as a vector for the delivery of siRNAs into cells. <i>Molecular BioSystems</i> , 2013, 9, 855.	2.9	89
51	Mitochondrial delivery of mastoparan with transferrin liposomes equipped with a pH-sensitive fusogenic peptide for selective cancer therapy. <i>International Journal of Pharmaceutics</i> , 2005, 303, 1-7.	5.2	87
52	Dynamic Amphiphile Libraries To Screen for the "Fragrant" Delivery of siRNA into HeLa Cells and Human Primary Fibroblasts. <i>Journal of the American Chemical Society</i> , 2013, 135, 9295-9298.	13.7	85
53	Endosome-disruptive peptides for improving cytosolic delivery of bioactive macromolecules. <i>Biopolymers</i> , 2010, 94, 763-770.	2.4	82
54	Cytosolic Targeting of Macromolecules Using a pH-Dependent Fusogenic Peptide in Combination with Cationic Liposomes. <i>Bioconjugate Chemistry</i> , 2009, 20, 953-959.	3.6	81

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55	Cell Permeable Peptide of JNK Inhibitor Prevents Islet Apoptosis Immediately After Isolation and Improves Islet Graft Function. <i>American Journal of Transplantation</i> , 2005, 5, 1848-1855.	4.7	80
56	Guanidine-Containing Molecular Transporters: Sorbitol-Based Transporters Show High Intracellular Selectivity toward Mitochondria. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5880-5884.	13.8	80
57	Membrane permeability commonly shared among arginine-rich peptides. <i>Journal of Molecular Recognition</i> , 2003, 16, 260-264.	2.1	76
58	A multifunctional envelope-type nano device for novel gene delivery of siRNA plasmids. <i>International Journal of Pharmaceutics</i> , 2005, 301, 277-285.	5.2	72
59	Facile Solid-Phase Synthesis of Sulfated Tyrosine-Containing Peptides: Total Synthesis of Human Big Gastrin-II and Cholecystokinin (CCK)-391,2. <i>Journal of Organic Chemistry</i> , 2001, 66, 1-10.	3.2	69
60	Vectorization of biomacromolecules into cells using extracellular vesicles with enhanced internalization induced by macropinocytosis. <i>Scientific Reports</i> , 2016, 6, 34937.	3.3	69
61	Arginine-rich Peptides: Methods of Translocation Through Biological Membranes. <i>Current Pharmaceutical Design</i> , 2013, 19, 2863-2868.	1.9	69
62	Unique features of a pH-sensitive fusogenic peptide that improves the transfection efficiency of cationic liposomes. <i>Journal of Gene Medicine</i> , 2005, 7, 1450-1458.	2.8	68
63	Acylation of octaarginine: Implication to the use of intracellular delivery vectors. <i>Journal of Controlled Release</i> , 2011, 149, 29-35.	9.9	68
64	Can Nuclear Localization Signals Enhance Nuclear Localization of Plasmid DNA?. <i>Bioconjugate Chemistry</i> , 2003, 14, 282-286.	3.6	66
65	Inverted micelle formation of cell-penetrating peptide studied by coarse-grained simulation: Importance of attractive force between cell-penetrating peptides and lipid head group. <i>Journal of Chemical Physics</i> , 2011, 134, 095103.	3.0	66
66	Effect of the Attachment of a Penetration Accelerating Sequence and the Influence of Hydrophobicity on Octaarginine-Mediated Intracellular Delivery. <i>Molecular Pharmaceutics</i> , 2012, 9, 1222-1230.	4.6	66
67	Low concentration thresholds of plasma membranes for rapid energy-independent translocation of a cell-penetrating peptide. <i>Biochemical Journal</i> , 2009, 420, 179-191.	3.7	64
68	Kinetic Analysis of the Interaction between Vitronectin and the Urokinase Receptor. <i>Journal of Biological Chemistry</i> , 2002, 277, 9395-9404.	3.4	62
69	Cellular uptake, distribution and cytotoxicity of the hydrophobic cell penetrating peptide sequence PFVYLI linked to the proapoptotic domain peptide PAD. <i>Journal of Controlled Release</i> , 2009, 140, 237-244.	9.9	60
70	Cellular uptake and subsequent intracellular trafficking of R8-liposomes introduced at low temperature. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 713-720.	2.6	59
71	Loosening of Lipid Packing Promotes Oligoarginine Entry into Cells. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7644-7647.	13.8	59
72	Topological Stability and Self-Association of a Completely Hydrophobic Model Transmembrane Helix in Lipid Bilayers. <i>Biochemistry</i> , 2002, 41, 3073-3080.	2.5	56

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73	Structural Variety of Membrane Permeable Peptides. <i>Current Protein and Peptide Science</i> , 2003, 4, 87-96.	1.4	56
74	KALA-modified multi-layered nanoparticles as gene carriers for MHC class-I mediated antigen presentation for a DNA vaccine. <i>Biomaterials</i> , 2011, 32, 6342-6350.	11.4	54
75	Arginine Carrier Peptide Bearing Ni(II) Chelator to Promote Cellular Uptake of Histidine-Tagged Proteins. <i>Bioconjugate Chemistry</i> , 2004, 15, 475-481.	3.6	52
76	Anion hopping of (and on) functional oligoarginines: from chloroform to cells. <i>Soft Matter</i> , 2006, 2, 636.	2.7	50
77	Acid wash in determining cellular uptake of Fab/cell-permeating peptide conjugates. <i>Biopolymers</i> , 2007, 88, 98-107.	2.4	50
78	Curvature Engineering: Positive Membrane Curvature Induced by Epsin N-Terminal Peptide Boosts Internalization of Octaarginine. <i>ACS Chemical Biology</i> , 2013, 8, 1894-1899.	3.4	49
79	Importance of Net Hydrophobicity in the Cellular Uptake of All-Hydrocarbon Stapled Peptides. <i>Molecular Pharmaceutics</i> , 2018, 15, 1332-1340.	4.6	47
80	Transformation of an antimicrobial peptide into a plasma membrane-permeable, mitochondria-targeted peptide via the substitution of lysine with arginine. <i>Chemical Communications</i> , 2012, 48, 11097.	4.1	45
81	PDX-1 Protein is Internalized by Lipid Raft-Dependent Macropinocytosis. <i>Cell Transplantation</i> , 2005, 14, 637-645.	2.5	44
82	Intracellular target delivery of cell-penetrating peptide-conjugated dodecaborate for boron neutron capture therapy (BNCT). <i>Chemical Communications</i> , 2019, 55, 13955-13958.	4.1	44
83	Effects of pyrenebutyrate on the translocation of arginine-rich cell-penetrating peptides through artificial membranes: Recruiting peptides to the membranes, dissipating liquid-ordered phases, and inducing curvature. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2134-2142.	2.6	42
84	Effects of Cell-Permeating Peptide Binding on the Distribution of 125I-Labeled Fab Fragment in Rats. <i>Bioconjugate Chemistry</i> , 2006, 17, 597-602.	3.6	41
85	Gramicidin-based channel systems for the detection of protein-ligand interaction. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 1343-1350.	3.0	40
86	Significant and prolonged antisense effect of a multifunctional envelope-type nano device encapsulating antisense oligodeoxynucleotide. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 431-437.	2.4	40
87	Collagen-like Cell-Penetrating Peptides. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5497-5500.	13.8	40
88	Application of a Fusigenic Peptide GALA for Intracellular Delivery. <i>Methods in Molecular Biology</i> , 2011, 683, 525-533.	0.9	40
89	Transmission of Extramembrane Conformational Change into Current: Construction of Metal-Gated Ion Channel. <i>Journal of the American Chemical Society</i> , 2006, 128, 6010-6011.	13.7	39
90	Signal Transduction Using an Artificial Receptor System that Undergoes Dimerization Upon Addition of a Bivalent Leucine Zipper Ligand. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7464-7467.	13.8	39

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91	Modeling the endosomal escape of cell-penetrating peptides using a transmembrane pH gradient. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1198-1204.	2.6	39
92	Evaluation of the Final Deprotection System for the Solid-Phase Synthesis of Tyr(SO ₃ H)-Containing Peptides with 9-Fluorenylmethyloxycarbonyl (Fmoc)-Strategy and Its Application to the Synthesis of Cholecystokinin (CCK)-12. <i>Chemical and Pharmaceutical Bulletin</i> , 1993, 41, 376-380.	1.3	38
93	Artificial Zinc Finger Peptide Containing a Novel His4Domain. <i>Journal of the American Chemical Society</i> , 2000, 122, 7648-7653.	13.7	38
94	Design, Synthesis, and Membrane-Translocation Studies of Inositol-Based Transporters. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2907-2912.	13.8	38
95	Generation of reactive oxygen species and activation of NF- κ B by non-A β component of Alzheimer's disease amyloid. <i>Journal of Neurochemistry</i> , 2002, 82, 305-315.	3.9	37
96	Alamethicin \sim Leucine Zipper Hybrid Peptide: A Prototype for the Design of Artificial Receptors and Ion Channels. <i>Journal of the American Chemical Society</i> , 2001, 123, 12127-12134.	13.7	36
97	Optimizing Charge Switching in Membrane Lytic Peptides for Endosomal Release of Biomacromolecules. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19990-19998.	13.8	36
98	Control of Peptide Structure and Recognition by Fe(III)-Induced Helix Destabilization. <i>Journal of the American Chemical Society</i> , 2004, 126, 15762-15769.	13.7	35
99	Molecular interplays involved in the cellular uptake of octaarginine on cell surfaces and the importance of syndecan-4 cytoplasmic V domain for the activation of protein kinase C \pm . <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 857-862.	2.1	35
100	Membrane permeable peptide vectors: chemistry and functional design for the therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 447.	13.7	34
101	Peptide ion channels: Design and creation of function. <i>Biopolymers</i> , 1998, 47, 75-81.	2.4	33
102	Delivery of Condensed DNA by Liposomal Non-viral Gene Delivery System into Nucleus of Dendritic Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2006, 29, 1290-1293.	1.4	33
103	Evaluation of the nuclear delivery and intra-nuclear transcription of plasmid DNA condensed with μ and NLS- μ by cytoplasmic and nuclear microinjection: a comparative study with poly-L-lysine. <i>Journal of Gene Medicine</i> , 2006, 8, 198-206.	2.8	33
104	Syntheses of two tyrosine-sulphate containing peptides. Leucosulfakinin (LSK)-II and cholecystokinin (CCK)-12, using the O-(methylsulphonyl)benzyl serine for the selective sulphation of tyrosine. <i>Tetrahedron</i> , 1992, 48, 8899-8914.	1.9	31
105	Oligomers of β^2 -amino acid bearing non-planar amides form ordered structures. <i>Tetrahedron</i> , 2006, 62, 11635-11644.	1.9	31
106	Novel System to Achieve One-Pot Modification of Cargo Molecules with Oligoarginine Vectors for Intracellular Delivery. <i>Bioconjugate Chemistry</i> , 2009, 20, 249-257.	3.6	31
107	Stimulating Macropinocytosis for Intracellular Nucleic Acid and Protein Delivery: A Combined Strategy with Membrane-Lytic Peptides To Facilitate Endosomal Escape. <i>Bioconjugate Chemistry</i> , 2020, 31, 547-553.	3.6	31
108	Octa-Arginine Mediated Delivery of Wild-Type Lnk Protein Inhibits TPO-Induced M-MOK Megakaryoblastic Leukemic Cell Growth by Promoting Apoptosis. <i>PLoS ONE</i> , 2011, 6, e23640.	2.5	31

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109	Site-specific DNA cleavage by artificial zinc finger-type nuclease with cerium-binding peptide. <i>Biochemical and Biophysical Research Communications</i> , 2005, 330, 247-252.	2.1	30
110	Mesostructured silica based delivery system for a drug with a peptide as a cell-penetrating vector. <i>Microporous and Mesoporous Materials</i> , 2009, 122, 201-207.	4.4	30
111	Embodying a stable α -helical protein structure through efficient chemical ligation via thioether formation. <i>Bioorganic and Medicinal Chemistry</i> , 1997, 5, 1883-1891.	3.0	29
112	Cell-penetrating d-Isomer Peptides of p53 C-terminus: Long-term Inhibitory Effect on the Growth of Bladder Cancer. <i>Urology</i> , 2010, 75, 813-819.	1.0	29
113	Liquid secondary-ion mass spectrometry of peptides containing multiple tyrosine-O-sulfates. <i>Rapid Communications in Mass Spectrometry</i> , 1995, 9, 1335-1341.	1.5	28
114	Modular Redesign of a Cationic Lytic Peptide To Promote the Endosomal Escape of Biomacromolecules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12771-12774.	13.8	28
115	Induction of autophagic cell death of glioma-initiating cells by cell-penetrating d-isomer peptides consisting of Pas and the p53 C-terminus. <i>Biomaterials</i> , 2012, 33, 9061-9069.	11.4	27
116	Inducible Membrane Permeabilization by Attenuated Lytic Peptides: A New Concept for Accessing Cell Interiors through Ruffled Membranes. <i>Molecular Pharmaceutics</i> , 2019, 16, 2540-2548.	4.6	27
117	Peptide-unit assembling using disulfide cross-linking: A new approach for construction of protein models. <i>Tetrahedron Letters</i> , 1994, 35, 1267-1270.	1.4	25
118	Pharmacokinetic Analysis of the Tissue Distribution of Octaarginine Modified Liposomes in Mice. <i>Drug Metabolism and Pharmacokinetics</i> , 2005, 20, 275-281.	2.2	25
119	α -Helical Linker of an Artificial 6-Zinc Finger Peptide Contributes to Selective DNA Binding to a Discontinuous Recognition Sequence. <i>Biochemistry</i> , 2007, 46, 8517-8524.	2.5	24
120	Oligoarginine-Bearing Tandem Repeat Penetration-Accelerating Sequence Delivers Protein to Cytosol via Caveolae-Mediated Endocytosis. <i>Biomacromolecules</i> , 2019, 20, 1849-1859.	5.4	24
121	Peptide-assisted Intracellular Delivery of Biomacromolecules. <i>Chemistry Letters</i> , 2020, 49, 1088-1094.	1.3	24
122	Transduction of Cell-Penetrating Peptides into Induced Pluripotent Stem Cells. <i>Cell Transplantation</i> , 2010, 19, 901-909.	2.5	24
123	Programmable RNA methylation and demethylation using PUF RNA binding proteins. <i>Chemical Communications</i> , 2020, 56, 1365-1368.	4.1	23
124	Environmental pH stress influences cellular secretion and uptake of extracellular vesicles. <i>FEBS Open Bio</i> , 2021, 11, 753-767.	2.3	23
125	Development of an intracellularly acting inhibitory peptide selective for PKN. <i>Biochemical Journal</i> , 2010, 425, 445-543.	3.7	22
126	Reprint of: Nanoparticles for ex vivo siRNA delivery to dendritic cells for cancer vaccines: Programmed endosomal escape and dissociation. <i>Journal of Controlled Release</i> , 2011, 149, 58-64.	9.9	22

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127	Increased hydrophobic block length of PTDMs promotes protein internalization. <i>Polymer Chemistry</i> , 2016, 7, 7514-7521.	3.9	22
128	Zn(II) Binding and DNA Binding Properties of Ligand-Substituted CXHH-Type Zinc Finger Proteins. <i>Biochemistry</i> , 2012, 51, 3342-3348.	2.5	21
129	Creating a TALE protein with unbiased 5' T binding. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 262-265.	2.1	21
130	Liquid Droplet Formation and Facile Cytosolic Translocation of IgG in the Presence of Attenuated Cationic Amphiphilic Lytic Peptides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19804-19812.	13.8	21
131	Recognition of G-quadruplex RNA by a crucial RNA methyltransferase component, METTL14. <i>Nucleic Acids Research</i> , 2022, 50, 449-457.	14.5	21
132	Efficient solid-phase synthesis of sulfated tyrosine-containing peptides using 2-chlorotrityl resin: Facile synthesis of gastrin/cholecystokinin peptides. <i>Tetrahedron Letters</i> , 1997, 38, 599-602.	1.4	20
133	Assembling of the four individual helices corresponding to the transmembrane segments (S4 in repeat) Tj ETQq1 1 0,784314,rgBT /Over	1.4	20
134	Synthetic copoly(Lys/Phe) and poly(Lys) translocate through lipid bilayer membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2003, 1616, 147-155.	2.6	20
135	New packaging method of mycobacterial cell wall using octaarginine-modified liposomes: Enhanced uptake by and immunostimulatory activity of dendritic cells. <i>Journal of Controlled Release</i> , 2007, 120, 60-69.	9.9	20
136	Cobalt(II)-Responsive DNA Binding of a GCN4-ZIP Protein Containing Cysteine Residues Functionalized with Iminodiacetic Acid. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6853-6856.	13.8	20
137	Identification of cellular proteins interacting with octaarginine (R8) cell-penetrating peptide by photo-crosslinking. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3738-3740.	2.2	20
138	Effect of Surface Modifications on Cellular Uptake of Gold Nanorods in Human Primary Cells and Established Cell Lines. <i>ACS Omega</i> , 2020, 5, 32744-32752.	3.5	20
139	Peptide-unit assembling via disulfide cross-linking: A versatile approach which enables the creation of artificial proteins comprising helices with different amino acid sequences. <i>Tetrahedron</i> , 1997, 53, 7479-7492.	1.9	19
140	Cell-penetrating mechanism of intracellular targeting albumin: Contribution of macropinocytosis induction and endosomal escape. <i>Journal of Controlled Release</i> , 2019, 304, 156-163.	9.9	19
141	Detection of protein-Ligand interaction on the membranes using C-Terminus biotin-Tagged alamethicin. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2635-2639.	3.0	18
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