Ling Peng

List of Publications by Year
in descending order

123 papers	6,472 citations	71004 43 h-index	81351 76 g-index
131 all docs	131 docs citations	131 times ranked	8349 citing authors

#	Article	IF	Citations
1	A biodegradable amphiphilic poly(aminoester) dendrimer for safe and effective siRNA delivery. Chemical Communications, 2022, 58, 4168-4171.	2.2	5
2	Amphiphilic Dendrimer Vectors for RNA Delivery: State-of-the-Art and Future Perspective. Accounts of Materials Research, 2022, 3, 484-497.	5.9	19
3	Dynamic self-assembling supramolecular dendrimer nanosystems as potent antibacterial candidates against drug-resistant bacteria and biofilms. Nanoscale, 2022, 14, 9286-9296.	2.8	21
4	An ionizable supramolecular dendrimer nanosystem for effective siRNA delivery with a favorable safety profile. Nano Research, 2021, 14, 2247.	5.8	21
5	Synthesis and use of an amphiphilic dendrimer for siRNA delivery into primary immune cells. Nature Protocols, 2021, 16, 327-351.	5.5	30
6	Liver Activation of Hepatocellular Nuclear Factor-4Î± by Small Activating RNA Rescues Dyslipidemia and Improves Metabolic Profile. Molecular Therapy - Nucleic Acids, 2020, 19, 361-370.	2.3	47
7	A self-assembling amphiphilic dendrimer nanotracer for SPECT imaging. Chemical Communications, 2020, 56, 301-304.	2.2	19
8	Novel aryltriazole acyclic C-azanucleosides as anticancer candidates. Organic and Biomolecular Chemistry, 2020, 18, 9689-9699.	1.5	5
9	Self-Assembling Supramolecular Dendrimers for Biomedical Applications: Lessons Learned from Poly(amidoamine) Dendrimers. Accounts of Chemical Research, 2020, 53, 2936-2949.	7.6	69
10	Novel triazole nucleoside analogues promote anticancer activity via both apoptosis and autophagy. Chemical Communications, 2020, 56, 10014-10017.	2.2	5
11	Therapeutic siRNA: state of the art. Signal Transduction and Targeted Therapy, 2020, 5, 101.	7.1	674
12	Natural killer cells modulate motor neuron-immune cell cross talk in models of Amyotrophic Lateral Sclerosis. Nature Communications, 2020, 11, 1773.	5.8	93
13	ZZW-115â€“dependent inhibition of NUPR1 nuclear translocation sensitizes cancer cells to genotoxic agents. JCI Insight, 2020, 5, .	2.3	24
14	Flavonoidâ€“alkylphospholipid conjugates elicit dual inhibition of cancer cell growth and lipid accumulation. Chemical Communications, 2019, 55, 8919-8922.	2.2	9
15	Efficient and innocuous delivery of small interfering RNA to microglia using an amphiphilic dendrimer nanovector. Nanomedicine, 2019, 14, 2441-2459.	1.7	25
16	Designing and repurposing drugs to target intrinsically disordered proteins for cancer treatment: using NUPR1 as a paradigm. Molecular and Cellular Oncology, 2019, 6, e1612678.	0.3	10
17	Targeting the Stress-Induced Protein NUPR1 to Treat Pancreatic Adenocarcinoma. Cells, 2019, 8, 1453.	1.8	28
18	Ligand-based design identifies a potent NUPR1 inhibitor exerting anticancer activity via necroptosis. Journal of Clinical Investigation, 2019, 129, 2500-2513.	3.9	68

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19	Blocking Stemness and Metastatic Properties of Ovarian Cancer Cells by Targeting p70S6K with Dendrimer Nanovector-Based siRNA Delivery. Molecular Therapy, 2018, 26, 70-83.	3.7	42
20	Carbon/Nitrogen Metabolic Balance: Lessons from Cyanobacteria. Trends in Plant Science, 2018, 23, 1116-1130.	4.3	117
21	A Dual Targeting Dendrimer-Mediated siRNA Delivery System for Effective Gene Silencing in Cancer Therapy. Journal of the American Chemical Society, 2018, 140, 16264-16274.	6.6	159
22	Self-assembling supramolecular dendrimer nanosystem for PET imaging of tumors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11454-11459.	3.3	58
23	Negative dendritic effect on enzymatic hydrolysis of dendrimer conjugates. Chemical Communications, 2018, 54, 5956-5959.	2.2	14
24	E2F signature is predictive for the pancreatic adenocarcinoma clinical outcome and sensitivity to E2F inhibitors, but not for the response to cytotoxic-based treatments. Scientific Reports, 2018, 8, 8330.	1.6	21
25	Dendrimer-based magnetic resonance imaging agents for brain cancer. Science China Materials, 2018, 61, 1420-1443.	3.5	9
26	Molecular engineering of dendrimer nanovectors for siRNA delivery and gene silencing. Frontiers of Chemical Science and Engineering, 2017, 11, 663-675.	2.3	23
27	Mix and Match: Coassembly of Amphiphilic Dendrimers and Phospholipids Creates Robust, Modular, and Controllable Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 1029-1035.	4.0	17
28	Potent drugless dendrimers. Nature Biomedical Engineering, 2017, 1, 686-688.	11.6	8
29	Acyclonucleosides bearing coplanar arylethynyltriazole nucleobases: synthesis, structural analysis, and biological evaluation. New Journal of Chemistry, 2017, 41, 8509-8519.	1.4	11
30	Mastering Dendrimer Selfâ€Assembly for Efficient siRNA Delivery: From Conceptual Design to In Vivo Efficient Gene Silencing. Small, 2016, 12, 3667-3676.	5.2	78
31	A Fluorinated Bolaâ€Amphiphilic Dendrimer for Onâ€Demand Delivery of siRNA, via Specific Response to Reactive Oxygen Species. Advanced Functional Materials, 2016, 26, 8594-8603.	7.8	56
32	Downregulation of TLX induces TET3 expression and inhibits glioblastoma stem cell self-renewal and tumorigenesis. Nature Communications, 2016, 7, 10637.	5.8	67
33	Dendrimer Nanovectors for SiRNA Delivery. Methods in Molecular Biology, 2016, 1364, 127-142.	0.4	8
34	Microwave promoted Câ€“O coupling for synthesizing O-aryloxytriazole nucleoside analogues. New Journal of Chemistry, 2015, 39, 3889-3893.	1.4	4
35	Anticancer drug nanomicelles formed by self-assembling amphiphilic dendrimer to combat cancer drug resistance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2978-2983.	3.3	318
36	Synthesis of poly(aminoester) dendrimers via â€˜clickâ€™ chemistry in combination with the divergent and convergent strategies. Tetrahedron Letters, 2015, 56, 4043-4046.	0.7	10

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37	Structural characterization of new defective molecules in poly(amidoamide) dendrimers by combining mass spectrometry and nuclear magnetic resonance. Analytica Chimica Acta, 2015, 853, 451-459.	2.6	10
38	Shape separation of gold nanoparticles using a pH-responsive amphiphilic dendrimer according to their shape anisotropy distinction. Journal of Colloid and Interface Science, 2015, 437, 311-315.	5.0	5
39	Pd-catalyzed oxidative Câ€“H alkenylation for synthesizing arylvinyltriazole nucleosides. Organic and Biomolecular Chemistry, 2015, 13, 110-114.	1.5	18
40	Promoting siRNA delivery via enhanced cellular uptake using an arginine-decorated amphiphilic dendrimer. Nanoscale, 2015, 7, 3867-3875.	2.8	81
41	Mimicking the 2-oxoglutaric acid signalling function using molecular probes: insights from structural and functional investigations. Organic and Biomolecular Chemistry, 2014, 12, 4723-4729.	1.5	5
42	A â€œclickâ€•chemistry constructed affinity system for 2-oxoglutaric acid receptors and binding proteins. Organic and Biomolecular Chemistry, 2014, 12, 6470-6475.	1.5	5
43	Adaptive Amphiphilic Dendrimerâ€Based Nanoassemblies as Robust and Versatile siRNA Delivery Systems. Angewandte Chemie - International Edition, 2014, 53, 11822-11827.	7.2	181
44	Structurally flexible triethanolamine-core poly(amidoamine) dendrimers as effective nanovectors to deliver RNAi-based therapeutics. Biotechnology Advances, 2014, 32, 844-852.	6.0	56
45	Combination of Dendrimer-Nanovector-Mediated Small Interfering RNA Delivery to Target Akt with the Clinical Anticancer Drug Paclitaxel for Effective and Potent Anticancer Activity in Treating Ovarian Cancer. Journal of Medicinal Chemistry, 2014, 57, 2634-2642.	2.9	59
46	Mixedâ€Ligand Catalysts: A Powerful Tool in Transitionâ€Metalâ€Catalyzed Crossâ€Coupling Reactions. Chemistry - A European Journal, 2014, 20, 2698-2702.	1.7	13
47	Copper(ii) binding to flexible triethanolamine-core PAMAM dendrimers: a combined experimental/in silico approach. Physical Chemistry Chemical Physics, 2014, 16, 685-694.	1.3	20
48	Arginine-Terminated Generation 4 PAMAM Dendrimer as an Effective Nanovector for Functional siRNA Delivery in Vitro and in Vivo. Bioconjugate Chemistry, 2014, 25, 521-532.	1.8	95
49	Pd(dba)₂ vs Pd₂(dba)₃: An in-Depth Comparison of Catalytic Reactivity and Mechanism via Mixed-Ligand Promoted Câ€“N and Câ€“S Coupling Reactions. Organic Letters, 2014, 16, 4074-4077.	2.4	25
50	Conformational sensitivity of conjugated poly(ethylene oxide)-poly(amidoamine) molecules to cations adducted upon electrospray ionization â€“ A mass spectrometry, ion mobility and molecular modeling study. Analytica Chimica Acta, 2014, 808, 163-174.	2.6	18
51	Targeted delivery of Dicer-substrate siRNAs using a dual targeting peptide decorated dendrimer delivery system. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 1627-1636.	1.7	44
52	Novel RNA oligonucleotide improves liver function and inhibits liver carcinogenesisin vivo. Hepatology, 2014, 59, 216-227.	3.6	92
53	Conformational changes of small PAMAM dendrimers as a function of their charge state: A combined electrospray mass spectrometry, traveling-wave ion mobility and molecular modeling study. International Journal of Mass Spectrometry, 2013, 354-355, 235-241.	0.7	9
54	A bola-phospholipid bearing tetrafluorophenylazido chromophore as a promising lipid probe for biomembrane photolabeling studies. Organic and Biomolecular Chemistry, 2013, 11, 5000.	1.5	9

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55	Impact of siRNA Overhangs for Dendrimer-Mediated siRNA Delivery and Gene Silencing. Molecular Pharmaceutics, 2013, 10, 3262-3273.	2.3	43
56	19F NMR: a valuable tool for studying biological events. Chemical Society Reviews, 2013, 42, 7971.	18.7	227
57	Photoactivatable Lipid Probes for Studying Biomembranes by Photoaffinity Labeling. Chemical Reviews, 2013, 113, 7880-7929.	23.0	79
58	Structural Requirements of 2-Oxoglutaric Acid Analogues To Mimic Its Signaling Function. Organic Letters, 2013, 15, 4662-4665.	2.4	13
59	Nucleoside analog inhibits micro<scp>RNA</scp>â€214 through targeting heatâ€shock factor 1 in human epithelial ovarian cancer. Cancer Science, 2013, 104, 1683-1689.	1.7	25
60	Cï£¿S Coupling Using a Mixedâ€Ligand Pd Catalyst: A Highly Effective Strategy for Synthesizing Arylthioâ€Substituted Heterocycles. Chemistry - A European Journal, 2013, 19, 17267-17272.	1.7	16
61	Dendrimers as non-viral vectors for siRNA delivery. New Journal of Chemistry, 2012, 36, 256-263.	1.4	89
62	Rationalizing the Fâ‹¯S interaction discovered within a tetrafluorophenylazido-containing bola-phospholipid. Chemical Communications, 2012, 48, 4284.	2.2	14
63	Targeting heat shock factor 1 with a triazole nucleoside analog to elicit potent anticancer activity on drug-resistant pancreatic cancer. Cancer Letters, 2012, 318, 145-153.	3.2	56
64	A Novel Bitriazolyl Acyclonucleoside Endowed with Dual Antiproliferative and Immunomodulatory Activity. Journal of Medicinal Chemistry, 2012, 55, 5642-5646.	2.9	25
65	Efficient Delivery of Sticky siRNA and Potent Gene Silencing in a Prostate Cancer Model Using a Generation 5 Triethanolamine-Core PAMAM Dendrimer. Molecular Pharmaceutics, 2012, 9, 470-481.	2.3	102
66	An Amphiphilic Dendrimer for Effective Delivery of Small Interfering RNA and Gene Silencing Inâ€…Vitro and Inâ€…Vivo. Angewandte Chemie - International Edition, 2012, 51, 8478-8484.	7.2	220
67	Targeting heat shock response pathways to treat pancreatic cancer. Drug Discovery Today, 2012, 17, 35-43.	3.2	40
68	High resolution magic angle spinning NMR to investigate ligandâ€“receptor binding events for mass-limited samples in liquids. Journal of Pharmaceutical and Biomedical Analysis, 2012, 59, 13-17.	1.4	9
69	An Efficient Mixedâ€Ligand Pd Catalytic System to Promote Cï£¿N Coupling for the Synthesis of Nâ€Arylaminotriazole Nucleosides. Chemistry - A European Journal, 2012, 18, 2221-2225.	1.7	22
70	Genome-Wide Profiling Identified a Set of miRNAs that Are Differentially Expressed in Glioblastoma Stem Cells and Normal Neural Stem Cells. PLoS ONE, 2012, 7, e36248.	1.1	100
71	The Seemingly Trivial Yet Challenging Synthesis of Poly(aminoester) Dendrimers. Current Medicinal Chemistry, 2012, 19, 5011-5028.	1.2	3
72	Photoactivatable Phospholipids Bearing Tetrafluorophenylazido Chromophores Exhibit Unprecedented Protonation-State-Dependent ¹⁹F NMR Signals. Organic Letters, 2011, 13, 4248-4251.	2.4	10

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73	2-Difluoromethylene-4-methylenepentanoic Acid, A Paradoxical Probe Able To Mimic the Signaling Role of 2-Oxoglutaric Acid in Cyanobacteria. Organic Letters, 2011, 13, 2924-2927.	2.4	16
74	Structurally Flexible Triethanolamine Core PAMAM Dendrimers Are Effective Nanovectors for DNA Transfection in Vitro and in Vivo to the Mouse Thymus. Bioconjugate Chemistry, 2011, 22, 2461-2473.	1.8	65
75	Electrospray tandem mass spectrometry of poly(amino)ester dendrimers: Dissociation rules and structural characterization of defective molecules. International Journal of Mass Spectrometry, 2011, 308, 56-64.	0.7	4
76	Bitriazolyl acyclonucleosides synthesized via Huisgen reaction using internal alkynes show antiviral activity against tobacco mosaic virus. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 354-357.	1.0	15
77	Active-Targeted Nanotherapy Strategies for Prostate Cancer. Current Cancer Drug Targets, 2011, 11, 954-965.	0.8	20
78	Systemic Administration of Combinatorial dsiRNAs via Nanoparticles Efficiently Suppresses HIV-1 Infection in Humanized Mice. Molecular Therapy, 2011, 19, 2228-2238.	3.7	149
79	Triazole Nucleoside Derivatives Bearing Aryl Functionalities on the Nucleobases Show Antiviral and Anticancer Activity. Mini-Reviews in Medicinal Chemistry, 2010, 10, 806-821.	1.1	51
80	N-Aryltriazole ribonucleosides with potent antiproliferative activity against drug-resistant pancreatic cancer. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 2503-2507.	1.0	25
81	S-Aryltriazole acyclonucleosides: Synthesis and biological evaluation against hepatitis C virus. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 3610-3613.	1.0	12
82	A novel arylethynyltriazole acyclonucleoside inhibits proliferation of drug-resistant pancreatic cancer cells. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 5979-5983.	1.0	24
83	Structural characterization of poly(amino)ester dendrimers and related impurities by electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 2207-2216.	0.7	10
84	Ligand-Mediated Highly Effective and Selective Câ'N Coupling for Synthesizing BioactiveN-Aryltriazole Acyclonucleosides. Organic Letters, 2010, 12, 5712-5715.	2.4	14
85	Synthesis of Poly(amino)ester Dendrimers via Active Cyanomethyl Ester Intermediates. Journal of Organic Chemistry, 2010, 75, 8685-8688.	1.7	16
86	Cuâ€Mediated Selective Nâ€Arylation of Aminotriazole Acyclonucleosides. Helvetica Chimica Acta, 2009, 92, 1503-1513.	1.0	20
87	PAMAM Dendrimers Mediate siRNA Delivery to Target Hsp27 and Produce Potent Antiproliferative Effects on Prostate Cancer Cells. ChemMedChem, 2009, 4, 1302-1310.	1.6	116
88	Efficient synthesis of esters containing tertiary amine functionalities via active cyanomethyl ester intermediates. Tetrahedron Letters, 2009, 50, 4346-4349.	0.7	12
89	Discovery of Novel Arylethynyltriazole Ribonucleosides with Selective and Effective Antiviral and Antiproliferative Activity. Journal of Medicinal Chemistry, 2009, 52, 1144-1155.	2.9	56
90	Novel Triazole Ribonucleoside Down-Regulates Heat Shock Protein 27 and Induces Potent Anticancer Activity on Drug-Resistant Pancreatic Cancer. Journal of Medicinal Chemistry, 2009, 52, 6083-6096.	2.9	95

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91	Bitriazolyl acyclonucleosides with antiviral activity against tobacco mosaic virus. Tetrahedron Letters, 2008, 49, 2804-2809.	0.7	35
92	Arylethynyltriazole acyclonucleosides inhibit hepatitis C virus replication. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3321-3327.	1.0	51
93	Synthesis of nucleoside analogues with aromatic systems appended on the triazole nucleobase. , 2008, , .		1
94	Synthesis of bitriazolyl nucleosides and unexpectedly different reactivity of azidotriazole nucleoside isomers in the Huisgen reaction. Organic and Biomolecular Chemistry, 2007, 5, 1695.	1.5	62
95	Importance of size-to-charge ratio in construction of stable and uniform nanoscale RNA/dendrimer complexes. Organic and Biomolecular Chemistry, 2007, 5, 3674.	1.5	83
96	Direct synthesis of 5-aryltriazole acyclonucleosides via Suzuki coupling in aqueous solution. Tetrahedron Letters, 2007, 48, 2389-2393.	0.7	36
97	Propagation of structural deviations of poly(amidoamine) fan-shape dendrimers (generations 0â€“3) characterized by MALDI and electrospray mass spectrometry. International Journal of Mass Spectrometry, 2007, 266, 62-75.	0.7	30
98	PAMAM dendrimers for efficient siRNA delivery and potent gene silencing. Chemical Communications, 2006, , 2362.	2.2	297
99	Heterocyst differentiation and pattern formation in cyanobacteria: a chorus of signals. Molecular Microbiology, 2006, 59, 367-375.	1.2	272
100	Studying the Signaling Role of 2-Oxoglutaric Acid Using Analogs that Mimic the Ketone and Ketal Forms of 2-Oxoglutaric Acid. Chemistry and Biology, 2006, 13, 849-856.	6.2	26
101	Synthesis of 5-aryltriazole ribonucleosides via Suzuki coupling and promoted by microwave irradiation. Tetrahedron Letters, 2006, 47, 6727-6731.	0.7	29
102	Discovery of bitriazolyl compounds as novel antiviral candidates for combating the tobacco mosaic virus. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 2693-2698.	1.0	56
103	Synthesis and characterization of photolabeling probes of miltefosine. Journal of Fluorine Chemistry, 2005, 126, 739-743.	0.9	8
104	Synthesis of a photoactivatable phospholipidic probe containing tetrafluorophenylazide. Tetrahedron Letters, 2005, 46, 5893-5897.	0.7	5
105	para-Sulfonated Calixarenes Used as Synthetic Receptors for Complexing Photolabile Cholinergic Ligand. Helvetica Chimica Acta, 2005, 88, 2641-2653.	1.0	16
106	Synthesis of Bitriazolyl Compounds via Huisgen Reaction. Heterocycles, 2005, 65, 345.	0.4	26
107	Nonmetabolizable analogue of 2-oxoglutarate elicits heterocyst differentiation under repressive conditions in Anabaena sp. PCC 7120. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9907-9912.	3.3	131
108	Polycationic dendrimers interact with RNA molecules: polyamine dendrimers inhibit the catalytic activity of Candida ribozymes. Chemical Communications, 2005, , 313.	2.2	65

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109	PHOTOLABELING PROBES OF RIBAVIRIN AND EICAR. Nucleosides, Nucleotides and Nucleic Acids, 2005, 24, 999-1008.	0.4	5
110	Design, Synthesis, and Characterization of Photolabeling Probes for the Study of the Mechanisms of the Antiviral Effects of Ribavirin. Helvetica Chimica Acta, 2004, 87, 811-819.	1.0	19
111	Synthesis and Characterization of Potential Photolabeling Probes for Studying the Antiviral Mechanisms of EICAR. Heterocycles, 2004, 63, 671.	0.4	2
112	Mutually Induced Formation of Host-Guest Complexes betweenp-Sulfonated Calix[8]arene and Photolabile Cholinergic Ligands. Angewandte Chemie - International Edition, 2002, 41, 4706-4708.	7.2	46
113	p-Hydroxyphenacyl bromide as photoremoveable thiol label: a potential phototrigger for thiol-containing biomolecules. Tetrahedron Letters, 2002, 43, 8947-8950.	0.7	31
114	Cryophotolysis of ortho-Nitrobenzyl Derivatives of Enzyme Ligands for the Potential Kinetic Crystallography of Macromolecules. ChemBioChem, 2001, 2, 845.	1.3	23
115	Dynamic Deconvolution of a Pre-Equilibrated Dynamic Combinatorial Library of Acetylcholinesterase Inhibitors. , 2001, 2, 438.		1
116	Characterization of Caged Cholinergic Ligands; Sulfonated Calix[4]arene Inclusion Complexes. Synlett, 1999, 1999, 981-983.	1.0	9
117	Warum Pentose- und nicht Hexose-Nucleinsï¿½uren??. Teil V. (Purin-Purin)-Basenpaarung in der homo-DNS-Reihe: Guanin, Isoguanin, 2,6-Diaminopurin und Xanthin. Helvetica Chimica Acta, 1998, 81, 375-474.	1.0	94
118	2-Nitrobenzyl Quaternary Ammonium Derivatives Photoreleasing Nor-butyrylcholine in the Microsecond Time Range. Tetrahedron Letters, 1997, 38, 2961-2964.	0.7	21
119	Synthesis and Characterization of Photolabile Compounds Releasing Noracetylcholine in the Microsecond Time Range. Angewandte Chemie International Edition in English, 1997, 36, 398-400.	4.4	18
120	Synthesis and Characterization of Photolabile Choline Precursors as Reversible Inhibitors of Cholinesterases:Â Release of Choline in the Microsecond Time Range. Journal of Organic Chemistry, 1996, 61, 185-191.	1.7	52
121	Synthesis and Properties of Photoactivatable Phospholipid Derivatives Designed To Probe the Membrane-Associate Domains of Proteins. Journal of Organic Chemistry, 1996, 61, 192-201.	1.7	35
122	Biochemical Evaluation of Photolabile Precursors of Choline and of Carbamylcholine for Potential Time-Resolved Crystallographic Studies on Cholinesterasesâ€. Biochemistry, 1996, 35, 10854-10861.	1.2	27
123	Photochemical labeling of membrane-associated and channel-forming domains of proteins directed by energy transfer. FEBS Letters, 1994, 346, 127-131.	1.3	14