

Rakesh Kumar Tiwari

List of Publications by Year in descending order

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109
papers

3,039
citations

126858

33
h-index

206029

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all docs

110
docs citations

110
times ranked

3723
citing authors

#	ARTICLE	IF	CITATIONS
1	Impairment of TrkB-PSD-95 Signaling in Angelman Syndrome. <i>PLoS Biology</i> , 2013, 11, e1001478.	2.6	134
2	Overcoming Barriers for siRNA Therapeutics: From Bench to Bedside. <i>Pharmaceuticals</i> , 2020, 13, 294.	1.7	105
3	Design and Biological Evaluation of Cell-Penetrating Peptide–Doxorubicin Conjugates as Prodrugs. <i>Molecular Pharmaceutics</i> , 2013, 10, 488-499.	2.3	99
4	Cyclic Cell-Penetrating Peptides as Efficient Intracellular Drug Delivery Tools. <i>Molecular Pharmaceutics</i> , 2019, 16, 3727-3743.	2.3	97
5	Synthesis of 3-phenylpyrazolopyrimidine-1,2,3-triazole conjugates and evaluation of their Src kinase inhibitory and anticancer activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 1342-1346.	1.0	92
6	On Water: Silver-Catalyzed Domino Approach for the Synthesis of Benzoxazine/Oxazine-Fused Isoquinolines and Naphthyridines from <i>o</i> -Alkynyl Aldehydes. <i>Journal of Organic Chemistry</i> , 2013, 78, 6657-6669.	1.7	76
7	Synthesis and antibacterial activity of substituted 1,2,3,4-tetrahydropyrazino [1,2- <i>a</i>] indoles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 413-416.	1.0	66
8	Base-Mediated Selective Synthesis of Diversely Substituted <i>N</i> -Heterocyclic Enamines and Enaminones by the Hydroamination of Alkynes. <i>Journal of Organic Chemistry</i> , 2012, 77, 5633-5645.	1.7	65
9	Silver-Catalyzed Tandem Synthesis of Naphthyridines and Thienopyridines via Three-Component Reaction. <i>Journal of Organic Chemistry</i> , 2013, 78, 4386-4401.	1.7	65
10	Copper-Catalyzed Tandem Synthesis of Indolo-, Pyrrolo[2,1- <i>a</i>]isoquinolines, Naphthyridines and Bisindolo/Pyrrolo[2,1- <i>a</i>]isoquinolines via Hydroamination of <i>ortho</i> -Haloarylalkynes Followed by C-2 Arylation. <i>Journal of Organic Chemistry</i> , 2012, 77, 8191-8205.	1.7	62
11	Thiazolyl <i>N</i> -benzyl-substituted acetamide derivatives: Synthesis, Src kinase inhibitory and anticancer activities. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4853-4858.	2.6	60
12	Synthesis, antibacterial activity and QSAR studies of 1,2-disubstituted-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinolines. <i>European Journal of Medicinal Chemistry</i> , 2006, 41, 40-49.	2.6	57
13	Click chemistry inspired one-pot synthesis of 1,4-disubstituted 1,2,3-triazoles and their Src kinase inhibitory activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 449-452.	1.0	57
14	3-Substitued indoles: One-pot synthesis and evaluation of anticancer and Src kinase inhibitory activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 3511-3514.	1.0	57
15	Cyclic Peptide-Capped Gold Nanoparticles as Drug Delivery Systems. <i>Molecular Pharmaceutics</i> , 2013, 10, 500-511.	2.3	57
16	A Simple and Efficient Synthesis of 2,3-Diarylnaphthofurans Using Sequential Hydroarylation/Heck Oxyarylation. <i>Organic Letters</i> , 2013, 15, 2190-2193.	2.4	57
17	Enhanced Cellular Uptake of Short Polyarginine Peptides through Fatty Acylation and Cyclization. <i>Molecular Pharmaceutics</i> , 2014, 11, 2845-2854.	2.3	56
18	Efficient Delivery of Cell Impermeable Phosphopeptides by a Cyclic Peptide Amphiphile Containing Tryptophan and Arginine. <i>Molecular Pharmaceutics</i> , 2013, 10, 2008-2020.	2.3	53

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19	Cyclic Peptideâ€“Selenium Nanoparticles as Drug Transporters. <i>Molecular Pharmaceutics</i> , 2014, 11, 3631-3641.	2.3	51
20	Inhibition of N-Methyl-d-aspartate-induced Retinal Neuronal Death by Polyarginine Peptides Is Linked to the Attenuation of Stress-induced Hyperpolarization of the Inner Mitochondrial Membrane Potential. <i>Journal of Biological Chemistry</i> , 2015, 290, 22030-22048.	1.6	51
21	Ag ⁺ â€“Catalyzed Cascade Strategy: Regioselective Access to Diversely Substituted Fused Benzimidazo[2,1-a]isoquinolines, Naphthyridines, Thienopyridines, and Quinoxalines in Water. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4590-4602.	1.2	48
22	Ionic Liquid as Soluble Support for Synthesis of 1,2,3-Thiadiazoles and 1,2,3-Selenadiazoles. <i>Journal of Organic Chemistry</i> , 2012, 77, 9391-9396.	1.7	45
23	Site-Selective Electrophilic Cyclization and Subsequent Ring-Opening: A Synthetic Route to Pyrrolo[1,2-a]quinolines and Indolizines. <i>Journal of Organic Chemistry</i> , 2012, 77, 8562-8573.	1.7	43
24	Palladium-Catalyzed Sonogashira-Coupling Conjoined C-H Activation: A Regioselective Tandem Strategy to Access Indolo- and Pyrrolo[1,2-a]quinolines. <i>Journal of Organic Chemistry</i> , 2012, 77, 10382-10392.	1.7	43
25	Synthesis and antifungal activity of substituted-10-methyl-1,2,3,4-tetrahydropyrazino[1,2-a]indoles. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 2747-2752.	1.4	42
26	Regioselective Preferential Nucleophilic Addition of N-Heterocycles onto Haloarylalkynes over N-Arylation of Aryl Halides. <i>Organic Letters</i> , 2012, 14, 1106-1109.	2.4	41
27	Recent Advances in Proteinâ”“Ligand Interactions: Molecular Dynamics Simulations and Binding Free Energy. <i>Current Computer-Aided Drug Design</i> , 2013, 9, 518-531.	0.8	41
28	Synthesis and in vitro cytotoxicity of haloderivatives of noscapine. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6733-6736.	1.4	40
29	Copper triflate-mediated synthesis of 1,3,5-triarylpyrazoles in [bmim][PF ₆] ionic liquid and evaluation of their anticancer activities. <i>RSC Advances</i> , 2013, 3, 15396.	1.7	40
30	Self-assembled surfactant cyclic peptide nanostructures as stabilizing agents. <i>Soft Matter</i> , 2013, 9, 9465.	1.2	40
31	Palladium-Catalyzed Regioselective [3 + 2] Annulation of Internal Alkynes and Iodo-pyranoquinolines with Concomitant Ring Opening. <i>Organic Letters</i> , 2012, 14, 5184-5187.	2.4	39
32	Silver-catalyzed regioselective synthesis of acridines, quinolines, and naphthalenes from 3-(2-alkynyl)aryl- ¹² -ketoesters. <i>Tetrahedron</i> , 2012, 68, 9035-9044.	1.0	39
33	2-(1-Benzotriazolyl)pyridine: A Robust Bidentate Ligand for the Palladium-Catalyzed C-C (Suzuki, Heck,) Tj ETQq1 1 0.784314 g Catalysis, 2013, 355, 421-438.	2.1	38
34	siRNA Therapeutics for the Therapy of COVID-19 and Other Coronaviruses. <i>Molecular Pharmaceutics</i> , 2021, 18, 2105-2121.	2.3	34
35	Highly efficient one-pot synthesis of 1-substituted-1,2,3,4-tetrahydropyrazino[1,2-a]indoles. <i>Tetrahedron</i> , 2005, 61, 9513-9518.	1.0	33
36	Surface Decorated Gold Nanoparticles by Linear and Cyclic Peptides as Molecular Transporters. <i>Molecular Pharmaceutics</i> , 2013, 10, 3137-3151.	2.3	31

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37	Synthesis and Antiproliferative Activities of Conjugates of Paclitaxel and Camptothecin with a Cyclic Cell-Penetrating Peptide. <i>Molecules</i> , 2019, 24, 1427.	1.7	31
38	Synthesis and antiproliferative activities of doxorubicin thiol conjugates and doxorubicin-SS-cyclic peptide. <i>European Journal of Medicinal Chemistry</i> , 2019, 161, 594-606.	2.6	31
39	Comparative Antiviral Activity of Remdesivir and Anti-HIV Nucleoside Analogs against Human Coronavirus 229E (HCoV-229E). <i>Molecules</i> , 2020, 25, 2343.	1.7	31
40	Cationic Cell-Penetrating Peptides Are Potent Furin Inhibitors. <i>PLoS ONE</i> , 2015, 10, e0130417.	1.1	29
41	On water: catalyst-free chemoselective synthesis of highly functionalized tetrahydroquinazolines from 2-aminophenylacrylate. <i>Green Chemistry</i> , 2015, 17, 1434-1441.	4.6	29
42	Base-Mediated Chemo- and Stereoselective Addition of 5-Aminoindole/Tryptamine and Histamines onto Alkynes. <i>Journal of Organic Chemistry</i> , 2014, 79, 172-186.	1.7	28
43	Design, synthesis, and evaluation of chitosan conjugated GGRGDSK peptides as a cancer cell-targeting molecular transporter. <i>International Journal of Biological Macromolecules</i> , 2016, 87, 611-622.	3.6	28
44	Peptide Amphiphile Containing Arginine and Fatty Acyl Chains as Molecular Transporters. <i>Molecular Pharmaceutics</i> , 2013, 10, 4717-4727.	2.3	24
45	Rhodium(III)-catalyzed double C-H activation: a straightforward approach to fused imidazo[1,2-a]pyridines from internal alkynes. <i>Tetrahedron Letters</i> , 2015, 56, 4706-4710.	0.7	24
46	Tandem Approach to Benzothieno- and Benzofuro-pyridines from <i>endo-dig</i> Ring Closure. <i>Journal of Organic Chemistry</i> , 2015, 80, 10548-10560.	1.7	24
47	Synthesis and Evaluation of Antimicrobial Activity of [R4W4K]-Levofloxacin and [R4W4K]-Levofloxacin-Q Conjugates. <i>Molecules</i> , 2017, 22, 957.	1.7	24
48	Design, Synthesis, and Evaluation of Amphiphilic Cyclic and Linear Peptides Composed of Hydrophobic and Positively-Charged Amino Acids as Antibacterial Agents. <i>Molecules</i> , 2018, 23, 2722.	1.7	23
49	Cyclic Peptide Containing Hydrophobic and Positively Charged Residues as a Drug Delivery System for Curcumin. <i>Current Drug Delivery</i> , 2016, 13, 409-417.	0.8	23
50	Amphiphilic Bicyclic Peptides as Cellular Delivery Agents. <i>ChemMedChem</i> , 2014, 9, 2449-2453.	1.6	21
51	Pd-catalyzed one-pot sequential unsymmetrical cross-coupling reactions of aryl/heteroaryl 1,2-dihalides. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6487-6496.	1.5	21
52	Synthesis, characterization, and in vitro cytotoxicity of fatty acyl-CGKRK-chitosan oligosaccharides conjugates for siRNA delivery. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 694-702.	3.6	21
53	Tumor-targeted delivery of siRNA using fatty acyl-CGKRK peptide conjugates. <i>Scientific Reports</i> , 2017, 7, 6093.	1.6	20
54	Design, Synthesis, and Evaluation of Homochiral Peptides Containing Arginine and Histidine as Molecular Transporters. <i>Molecules</i> , 2018, 23, 1590.	1.7	20

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55	Cysteine and arginine-rich peptides as molecular carriers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 656-661.	1.0	19
56	Tandem Synthesis of Pyrroloacridones via [3 + 2] Alkyne Annulation/Ring-Opening with Concomitant Intramolecular Aldol Condensation. <i>Journal of Organic Chemistry</i> , 2013, 78, 5372-5384.	1.7	18
57	Synthesis and evaluation of c-Src kinase inhibitory activity of pyridin-2(1H)-one derivatives. <i>Bioorganic Chemistry</i> , 2014, 53, 75-82.	2.0	18
58	Synthesis and antiproliferative activities of quebecol and its analogs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5329-5331.	1.0	17
59	Synthesis, Antiproliferative, and c-Src Kinase Inhibitory Activities of 4-Hydroxybenzopyran Derivatives. <i>Journal of Heterocyclic Chemistry</i> , 2015, 52, 562-572.	1.4	17
60	O-Aryl 1,2-d-ribofuranosides: Synthesis & highly efficient biocatalytic separation of anomers and evaluation of their Src kinase inhibitory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6821-6830.	1.4	16
61	Bismuth triflate-catalyzed condensation of indoles with acetone. <i>RSC Advances</i> , 2013, 3, 22346.	1.7	16
62	Antibiotics-Peptide Conjugates Against Multidrug-resistant Bacterial Pathogens. <i>Current Topics in Medicinal Chemistry</i> , 2019, 18, 1926-1936.	1.0	16
63	Climate change and forests in India: adaptation opportunities and challenges. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2011, 16, 161-175.	1.0	15
64	One-pot regioselective synthesis of tetrahydroindazolones and evaluation of their antiproliferative and Src kinase inhibitory activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 410-414.	1.0	15
65	Regio- and Stereoselective Domino Synthesis of Oxazolo Fused Pyridoindoles and Benzofurooxazolo Pyridines from ortho-Alkynylarylaldehydes. <i>Journal of Organic Chemistry</i> , 2016, 81, 9356-9371.	1.7	15
66	Comparative Molecular Transporter Efficiency of Cyclic Peptides Containing Tryptophan and Arginine Residues. <i>ACS Omega</i> , 2018, 3, 16281-16291.	1.6	15
67	Efficient Intracellular Delivery of Cell-Impermeable Cargo Molecules by Peptides Containing Tryptophan and Histidine. <i>Molecules</i> , 2018, 23, 1536.	1.7	15
68	Design and application of hybrid cyclic-linear peptide-doxorubicin conjugates as a strategy to overcome doxorubicin resistance and toxicity. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113836.	2.6	14
69	Cyclic peptides containing tryptophan and arginine as Src kinase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 3230-3234.	1.0	13
70	Understanding COVID-19: From Origin to Potential Therapeutics. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5904.	1.2	13
71	Synthesis and evaluation of conformationally constrained peptide analogues as the Src SH3 domain binding ligands. <i>Biochimie</i> , 2010, 92, 1153-1163.	1.3	12
72	Cyclic peptide conjugate of curcumin and doxorubicin as an anticancer agent. <i>Tetrahedron Letters</i> , 2017, 58, 4617-4622.	0.7	12

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73	EDB-FN Targeted Peptide-Drug Conjugates for Use against Prostate Cancer. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3291.	1.8	12
74	Targeted Delivery of Cabazitaxel Using Cyclic Cell-Penetrating Peptide and Biomarkers of Extracellular Matrix for Prostate and Breast Cancer Therapy. <i>Bioconjugate Chemistry</i> , 2021, 32, 1898-1914.	1.8	12
75	Applications of amphipathic and cationic cyclic cell-penetrating peptides: Significant therapeutic delivery tool. <i>Peptides</i> , 2021, 141, 170542.	1.2	12
76	Synthesis and antiproliferative and c-Src kinase inhibitory activities of cinnamoyl- and pyranochromen-2-one derivatives. <i>Canadian Journal of Chemistry</i> , 2013, 91, 741-754.	0.6	11
77	Design, Synthesis, and Evaluation of Dasatinib-Amino Acid and Dasatinib-Fatty Acid Conjugates as Protein Tyrosine Kinase Inhibitors. <i>ChemMedChem</i> , 2017, 12, 86-99.	1.6	11
78	Synthesis, Src kinase inhibitory and anticancer activities of 1-substituted 3-(N-alkyl-N-phenylamino)propane-2-ols. <i>Biochimie</i> , 2010, 92, 1164-1172.	1.3	10
79	Palladium-Catalyzed Intramolecular Cross-Dehydrogenative Coupling: Synthesis of Fused Imidazo[1,2- <i>a</i>]pyrimidines and Pyrazolo[1,5- <i>a</i>]pyrimidines. <i>ACS Omega</i> , 2017, 2, 11-19.	1.6	10
80	Phenylpyrazalopyrimidines as Tyrosine Kinase Inhibitors: Synthesis, Antiproliferative Activity, and Molecular Simulations. <i>Molecules</i> , 2020, 25, 2135.	1.7	10
81	Synthesis and anti-HIV activities of bis-(cycloSaligenyl) pronucleotides derivatives of 3-fluoro-3-deoxythymidine and 3-azido-3-deoxythymidine. <i>Tetrahedron Letters</i> , 2011, 52, 802-805.	0.7	9
82	Oleyl Conjugated Histidine-Arginine Cell-Penetrating Peptides as Promising Agents for siRNA Delivery. <i>Pharmaceutics</i> , 2022, 14, 881.	2.0	9
83	Synthesis of Nucleoside Mono-, Di-, and Triphosphoramidates from Solid-Phase cycloSaligenyl Phosphitylating Reagents. <i>Organic Letters</i> , 2009, 11, 2157-2160.	2.4	8
84	Synthesis and antiviral activity of fatty acyl conjugates of remdesivir against severe acute respiratory syndrome coronavirus 2 and Ebola virus. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113862.	2.6	8
85	Small Amphiphilic Peptides: Activity Against a Broad Range of Drug-Resistant Bacteria and Structural Insight into Membranolytic Properties. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 665-687.	2.9	8
86	[(WR)8WK ² A]-Doxorubicin Conjugate: A Delivery System to Overcome Multi-Drug Resistance against Doxorubicin. <i>Cells</i> , 2022, 11, 301.	1.8	8
87	Amphiphilic Cell-Penetrating Peptides Containing Natural and Unnatural Amino Acids as Drug Delivery Agents. <i>Cells</i> , 2022, 11, 1156.	1.8	8
88	Synthesis and evaluation of antiproliferative activity of substituted N-(9-oxo-9H-xanthen-4-yl)benzenesulfonamides. <i>Tetrahedron Letters</i> , 2014, 55, 373-375.	0.7	7
89	Click-Free Synthesis of a Multivalent Tricyclic Peptide as a Molecular Transporter. <i>Pharmaceutics</i> , 2020, 12, 842.	2.0	7
90	Cyclic Peptides as Protein Kinase Inhibitors: Structure-Activity Relationship and Molecular Modeling. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 3015-3026.	2.5	7

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91	Synthesis, characterization, and cytotoxicity evaluation of dextran-myristoyl-ECGKRK peptide conjugate. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 1204-1211.	3.6	7
92	Amphiphilic cyclic peptide [W4KR5]-Antibiotics combinations as broad-spectrum antimicrobial agents. <i>European Journal of Medicinal Chemistry</i> , 2022, 235, 114278.	2.6	7
93	Conformationally Constrained Peptides as Protein Tyrosine Kinase Inhibitors. <i>Current Pharmaceutical Design</i> , 2012, 18, 2852-2866.	0.9	6
94	N-Myristoylglutamic acid derivative of 3- ² -fluoro-3- ² -deoxythymidine as an organogel. <i>Tetrahedron Letters</i> , 2012, 53, 5335-5337.	0.7	6
95	Hybrid Cyclic-Linear Cell-Penetrating Peptides Containing Alternative Positively Charged and Hydrophobic Residues as Molecular Transporters. <i>Molecular Pharmaceutics</i> , 2021, 18, 3909-3919.	2.3	6
96	Redox-Responsive Disulfide Cyclic Peptides: A New Strategy for siRNA Delivery. <i>Molecular Pharmaceutics</i> , 2022, 19, 1338-1355.	2.3	6
97	Synthesis and biological evaluation of 5-O-dicarboxylic fatty acyl monoester derivatives of anti-HIV nucleoside reverse transcriptase inhibitors. <i>Tetrahedron Letters</i> , 2014, 55, 1983-1986.	0.7	5
98	Design, Synthesis, Antiviral Activity, and Pre-Formulation Development of Poly-L-Arginine-Fatty Acyl Derivatives of Nucleoside Reverse Transcriptase Inhibitors. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2015, 34, 1-15.	0.4	5
99	Cyclic Peptide [R4W4] in Improving the Ability of First-Line Antibiotics to Inhibit Mycobacterium tuberculosis Inside in vitro Human Granulomas. <i>Frontiers in Immunology</i> , 2020, 11, 1677.	2.2	5
100	Amphiphilic Triazolyl Peptides: Synthesis and Evaluation as Nanostructures. <i>Current Organic Chemistry</i> , 2014, 18, 2665-2671.	0.9	5
101	Combination of Amphiphilic Cyclic Peptide [R4W4] and Levofloxacin against Multidrug-Resistant Bacteria. <i>Antibiotics</i> , 2022, 11, 416.	1.5	5
102	Cyclic Peptide-Gadolinium Nanoparticles for Enhanced Intracellular Delivery. <i>Pharmaceutics</i> , 2020, 12, 792.	2.0	4
103	Comparative Molecular Transporter Properties of Cyclic Peptides Containing Tryptophan and Arginine Residues Formed through Disulfide Cyclization. <i>Molecules</i> , 2020, 25, 2581.	1.7	4
104	PEGylation and Cell-Penetrating Peptides: Glimpse into the Past and Prospects in the Future. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 337-348.	1.0	4
105	Arginine-rich Cyclic Peptides Enhance Cellular Delivery of Anticancer Agents: Molecular Insights. <i>Letters in Drug Design and Discovery</i> , 2016, 13, 591-604.	0.4	4
106	Microwave-assisted and scandium triflate catalyzed synthesis of tetrahydrobenzo[a]xanthen-11-ones. <i>Monatshefte für Chemie</i> , 2012, 143, 263-268.	0.9	3
107	Synthesis and Antiproliferative Activity of Hybrid Peptides for Ovarian and Prostate Cancer. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 1041-1048.	0.9	2
108	Cyclic Peptide-Gadolinium Nanocomplexes as siRNA Delivery Tools. <i>Pharmaceutics</i> , 2021, 14, 1064.	1.7	2

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109	In Silico Design, Synthesis, and In Vitro Evaluation of Novel Amphipathic Short Linear Peptides Against Clinically Relevant Bacterial Biofilms. <i>International Journal of Peptide Research and Therapeutics</i> , 2019, 25, 1075-1085.	0.9	1