Rakesh Kumar Tiwari

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Small Amphiphilic Peptides: Activity Against a Broad Range of Drug-Resistant Bacteria and Structural Insight into Membranolytic Properties. Journal of Medicinal Chemistry, 2022, 65, 665-687.	2.9	8
2	[(WR)8WKβA]-Doxorubicin Conjugate: A Delivery System to Overcome Multi-Drug Resistance against Doxorubicin. Cells, 2022, 11, 301.	1.8	8
3	Redox-Responsive Disulfide Cyclic Peptides: A New Strategy for siRNA Delivery. Molecular Pharmaceutics, 2022, 19, 1338-1355.	2.3	6
4	Combination of Amphiphilic Cyclic Peptide [R4W4] and Levofloxacin against Multidrug-Resistant Bacteria. Antibiotics, 2022, 11, 416.	1.5	5
5	Amphiphilic Cell-Penetrating Peptides Containing Natural and Unnatural Amino Acids as Drug Delivery Agents. Cells, 2022, 11, 1156.	1.8	8
6	Amphiphilic cyclic peptide [W4KR5]-Antibiotics combinations as broad-spectrum antimicrobial agents. European Journal of Medicinal Chemistry, 2022, 235, 114278.	2.6	7
7	Oleyl Conjugated Histidine-Arginine Cell-Penetrating Peptides as Promising Agents for siRNA Delivery. Pharmaceutics, 2022, 14, 881.	2.0	9
8	siRNA Therapeutics for the Therapy of COVID-19 and Other Coronaviruses. Molecular Pharmaceutics, 2021, 18, 2105-2121.	2.3	34
9	Cyclic Peptides as Protein Kinase Inhibitors: Structure–Activity Relationship and Molecular Modeling. Journal of Chemical Information and Modeling, 2021, 61, 3015-3026.	2.5	7
10	Targeted Delivery of Cabazitaxel Using Cyclic Cell-Penetrating Peptide and Biomarkers of Extracellular Matrix for Prostate and Breast Cancer Therapy. Bioconjugate Chemistry, 2021, 32, 1898-1914.	1.8	12
11	Applications of amphipathic and cationic cyclic cell-penetrating peptides: Significant therapeutic delivery tool. Peptides, 2021, 141, 170542.	1.2	12
12	Synthesis, characterization, and cytotoxicity evaluation of dextran-myristoyl-ECGKRK peptide conjugate. International Journal of Biological Macromolecules, 2021, 191, 1204-1211.	3.6	7
13	Hybrid Cyclic-Linear Cell-Penetrating Peptides Containing Alternative Positively Charged and Hydrophobic Residues as Molecular Transporters. Molecular Pharmaceutics, 2021, 18, 3909-3919.	2.3	6
14	Synthesis and antiviral activity of fatty acyl conjugates of remdesivir against severe acute respiratory syndrome coronavirus 2 and Ebola virus. European Journal of Medicinal Chemistry, 2021, 226, 113862.	2.6	8
15	Design and application of hybrid cyclic-linear peptide-doxorubicin conjugates as a strategy to overcome doxorubicin resistance and toxicity. European Journal of Medicinal Chemistry, 2021, 226, 113836.	2.6	14
16	Cyclic Peptide-Gadolinium Nanocomplexes as siRNA Delivery Tools. Pharmaceuticals, 2021, 14, 1064.	1.7	2
17	Overcoming Barriers for siRNA Therapeutics: From Bench to Bedside. Pharmaceuticals, 2020, 13, 294.	1.7	105
18	Cyclic Peptide [R4W4] in Improving the Ability of First-Line Antibiotics to Inhibit Mycobacterium	2.2	5

18 tuberculosis Inside in vitro Human Granulomas. Frontiers in Immunology, 2020, 11, 1677.

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19	Understanding COVID-19: From Origin to Potential Therapeutics. International Journal of Environmental Research and Public Health, 2020, 17, 5904.	1.2	13
20	Click-Free Synthesis of a Multivalent Tricyclic Peptide as a Molecular Transporter. Pharmaceutics, 2020, 12, 842.	2.0	7
21	Cyclic Peptide-Gadolinium Nanoparticles for Enhanced Intracellular Delivery. Pharmaceutics, 2020, 12, 792.	2.0	4
22	Comparative Antiviral Activity of Remdesivir and Anti-HIV Nucleoside Analogs against Human Coronavirus 229E (HCoV-229E). Molecules, 2020, 25, 2343.	1.7	31
23	Phenylpyrazalopyrimidines as Tyrosine Kinase Inhibitors: Synthesis, Antiproliferative Activity, and Molecular Simulations. Molecules, 2020, 25, 2135.	1.7	10
24	Comparative Molecular Transporter Properties of Cyclic Peptides Containing Tryptophan and Arginine Residues Formed through Disulfide Cyclization. Molecules, 2020, 25, 2581.	1.7	4
25	PEGylation and Cell-Penetrating Peptides: Glimpse into the Past and Prospects in the Future. Current Topics in Medicinal Chemistry, 2020, 20, 337-348.	1.0	4
26	Synthesis and Antiproliferative Activity of Hybrid Peptides for Ovarian and Prostate Cancer. International Journal of Peptide Research and Therapeutics, 2019, 25, 1041-1048.	0.9	2
27	Cyclic Cell-Penetrating Peptides as Efficient Intracellular Drug Delivery Tools. Molecular Pharmaceutics, 2019, 16, 3727-3743.	2.3	97
28	EDB-FN Targeted Peptide–Drug Conjugates for Use against Prostate Cancer. International Journal of Molecular Sciences, 2019, 20, 3291.	1.8	12
29	Synthesis and Antiproliferative Activities of Conjugates of Paclitaxel and Camptothecin with a Cyclic Cell-Penetrating Peptide. Molecules, 2019, 24, 1427.	1.7	31
30	In Silico Design, Synthesis, and In Vitro Evaluation of Novel Amphipathic Short Linear Peptides Against Clinically Relevant Bacterial Biofilms. International Journal of Peptide Research and Therapeutics, 2019, 25, 1075-1085.	0.9	1
31	Synthesis and antiproliferative activities of doxorubicin thiol conjugates and doxorubicin-SS-cyclic peptide. European Journal of Medicinal Chemistry, 2019, 161, 594-606.	2.6	31
32	Antibiotics-Peptide Conjugates Against Multidrug-resistant Bacterial Pathogens. Current Topics in Medicinal Chemistry, 2019, 18, 1926-1936.	1.0	16
33	Synthesis, characterization, and in vitro cytotoxicity of fatty acyl-CGKRK-chitosan oligosaccharides conjugates for siRNA delivery. International Journal of Biological Macromolecules, 2018, 112, 694-702.	3.6	21
34	Comparative Molecular Transporter Efficiency of Cyclic Peptides Containing Tryptophan and Arginine Residues. ACS Omega, 2018, 3, 16281-16291.	1.6	15
35	Design, Synthesis, and Evaluation of Amphiphilic Cyclic and Linear Peptides Composed of Hydrophobic and Positively-Charged Amino Acids as Antibacterial Agents. Molecules, 2018, 23, 2722.	1.7	23
36	Efficient Intracellular Delivery of Cell-Impermeable Cargo Molecules by Peptides Containing Tryptophan and Histidine. Molecules, 2018, 23, 1536.	1.7	15

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37	Design, Synthesis, and Evaluation of Homochiral Peptides Containing Arginine and Histidine as Molecular Transporters. Molecules, 2018, 23, 1590.	1.7	20
38	Palladium-Catalyzed Intramolecular Cross-Dehydrogenative Coupling: Synthesis of Fused Imidazo[1,2- <i>a</i>]pyrimidines and Pyrazolo[1,5- <i>a</i>]pyrimidines. ACS Omega, 2017, 2, 11-19.	1.6	10
39	Cyclic peptide conjugate of curcumin and doxorubicin as an anticancer agent. Tetrahedron Letters, 2017, 58, 4617-4622.	0.7	12
40	Tumor-targeted delivery of siRNA using fatty acyl-CCKRK peptide conjugates. Scientific Reports, 2017, 7, 6093.	1.6	20
41	Design, Synthesis, and Evaluation of Dasatinib–Amino Acid and Dasatinib–Fatty Acid Conjugates as Protein Tyrosine Kinase Inhibitors. ChemMedChem, 2017, 12, 86-99.	1.6	11
42	Synthesis and Evaluation of Antimicrobial Activity of [R4W4K]-Levofloxacin and [R4W4K]-Levofloxacin-Q Conjugates. Molecules, 2017, 22, 957.	1.7	24
43	Regio- and Stereoselective Domino Synthesis of Oxazolo Fused Pyridoindoles and Benzofurooxazolo Pyridines from <i>ortho</i> -Alkynylarylaldehydes. Journal of Organic Chemistry, 2016, 81, 9356-9371.	1.7	15
44	Pd-catalyzed one-pot sequential unsymmetrical cross-coupling reactions of aryl/heteroaryl 1,2-dihalides. Organic and Biomolecular Chemistry, 2016, 14, 6487-6496.	1.5	21
45	Design, synthesis, and evaluation of chitosan conjugated GGRGDSK peptides as a cancer cell-targeting molecular transporter. International Journal of Biological Macromolecules, 2016, 87, 611-622.	3.6	28
46	Cysteine and arginine-rich peptides as molecular carriers. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 656-661.	1.0	19
47	Cyclic Peptide Containing Hydrophobic and Positively Charged Residues as a Drug Delivery System for Curcumin. Current Drug Delivery, 2016, 13, 409-417.	0.8	23
48	Arginine-rich Cyclic Peptides Enhance Cellular Delivery of Anticancer Agents: Molecular Insights. Letters in Drug Design and Discovery, 2016, 13, 591-604.	0.4	4
49	Cationic Cell-Penetrating Peptides Are Potent Furin Inhibitors. PLoS ONE, 2015, 10, e0130417.	1.1	29
50	Rhodium(III)-catalyzed double C–H activation: a straightforward approach to fused imidazo[1,2-a]pyridines from internal alkynes. Tetrahedron Letters, 2015, 56, 4706-4710.	0.7	24
51	Design, Synthesis, Antiviral Activity, and Pre-Formulation Development of Poly- <i>L</i> -Arginine-Fatty Acyl Derivatives of Nucleoside Reverse Transcriptase Inhibitors. Nucleosides, Nucleotides and Nucleic Acids, 2015, 34, 1-15.	0.4	5
52	On water: catalyst-free chemoselective synthesis of highly functionalized tetrahydroquinazolines from 2-aminophenylacrylate. Green Chemistry, 2015, 17, 1434-1441.	4.6	29
53	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. Journal of Biological Chemistry, 2015, 290, 22030-22048.	1.6	51
54	Tandem Approach to Benzothieno- and Benzofuropyridines from <i>o</i> -Alkynyl Aldehydes via Silver-Catalyzed 6- <i>endo-dig</i> Ring Closure. Journal of Organic Chemistry, 2015, 80, 10548-10560.	1.7	24

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55	Synthesis, Antiproliferative, and câ€Src Kinase Inhibitory Activities of 4â€Oxoâ€4 <i>H</i> â€1â€benzopyran Derivatives. Journal of Heterocyclic Chemistry, 2015, 52, 562-572.	1.4	17
56	Synthesis and evaluation of c-Src kinase inhibitory activity of pyridin-2(1H)-one derivatives. Bioorganic Chemistry, 2014, 53, 75-82.	2.0	18
57	Synthesis and biological evaluation of 5′-O-dicarboxylic fatty acyl monoester derivatives of anti-HIV nucleoside reverse transcriptase inhibitors. Tetrahedron Letters, 2014, 55, 1983-1986.	0.7	5
58	Base-Mediated Chemo- and Stereoselective Addition of 5-Aminoindole/Tryptamine and Histamines onto Alkynes. Journal of Organic Chemistry, 2014, 79, 172-186.	1.7	28
59	Amphiphilic Bicyclic Peptides as Cellular Delivery Agents. ChemMedChem, 2014, 9, 2449-2453.	1.6	21
60	Cyclic Peptide–Selenium Nanoparticles as Drug Transporters. Molecular Pharmaceutics, 2014, 11, 3631-3641.	2.3	51
61	Enhanced Cellular Uptake of Short Polyarginine Peptides through Fatty Acylation and Cyclization. Molecular Pharmaceutics, 2014, 11, 2845-2854.	2.3	56
62	Synthesis and evaluation of antiproliferative activity of substituted N-(9-oxo-9H-xanthen-4-yl)benzenesulfonamides. Tetrahedron Letters, 2014, 55, 373-375.	0.7	7
63	Amphiphilic Triazolyl Peptides: Synthesis and Evaluation as Nanostructures. Current Organic Chemistry, 2014, 18, 2665-2671.	0.9	5
64	Copper triflate-mediated synthesis of 1,3,5-triarylpyrazoles in [bmim][PF6] ionic liquid and evaluation of their anticancer activities. RSC Advances, 2013, 3, 15396.	1.7	40
65	Self-assembled surfactant cyclic peptide nanostructures as stabilizing agents. Soft Matter, 2013, 9, 9465.	1.2	40
66	Cyclic peptides containing tryptophan and arginine as Src kinase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3230-3234.	1.0	13
67	Surface Decorated Gold Nanoparticles by Linear and Cyclic Peptides as Molecular Transporters. Molecular Pharmaceutics, 2013, 10, 3137-3151.	2.3	31
68	Synthesis and antiproliferative activities of quebecol and its analogs. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 5329-5331.	1.0	17
69	2â€(1â€Benzotriazolyl)pyridine: A Robust Bidentate Ligand for the Palladiumâ€Catalyzed CC (Suzuki, Heck,) T Catalysis, 2013, 355, 421-438.	j ETQq1 1 2.1	0.784314 rg 38
70	Design and Biological Evaluation of Cell-Penetrating Peptide–Doxorubicin Conjugates as Prodrugs. Molecular Pharmaceutics, 2013, 10, 488-499.	2.3	99
71	Cyclic Peptide-Capped Gold Nanoparticles as Drug Delivery Systems. Molecular Pharmaceutics, 2013, 10, 500-511.	2.3	57
72	Efficient Delivery of Cell Impermeable Phosphopeptides by a Cyclic Peptide Amphiphile Containing Tryptophan and Arginine. Molecular Pharmaceutics, 2013, 10, 2008-2020.	2.3	53

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73	A Simple and Efficient Synthesis of 2,3-Diarylnaphthofurans Using Sequential Hydroarylation/Heck Oxyarylation. Organic Letters, 2013, 15, 2190-2193.	2.4	57
74	Silver-Catalyzed Tandem Synthesis of Naphthyridines and Thienopyridines via Three-Component Reaction. Journal of Organic Chemistry, 2013, 78, 4386-4401.	1.7	65
75	Tandem Synthesis of Pyrroloacridones via [3 + 2] Alkyne Annulation/Ring-Opening with Concomitant Intramolecular Aldol Condensation. Journal of Organic Chemistry, 2013, 78, 5372-5384.	1.7	18
76	On Water: Silver-Catalyzed Domino Approach for the Synthesis of Benzoxazine/Oxazine-Fused Isoquinolines and Naphthyridines from <i>o</i> -Alkynyl Aldehydes. Journal of Organic Chemistry, 2013, 78, 6657-6669.	1.7	76
77	Synthesis and antiproliferative and c-Src kinase inhibitory activities of cinnamoyl- and pyranochromen-2-one derivatives. Canadian Journal of Chemistry, 2013, 91, 741-754.	0.6	11
78	Peptide Amphiphile Containing Arginine and Fatty Acyl Chains as Molecular Transporters. Molecular Pharmaceutics, 2013, 10, 4717-4727.	2.3	24
79	Impairment of TrkB-PSD-95 Signaling in Angelman Syndrome. PLoS Biology, 2013, 11, e1001478.	2.6	134
80	Bismuth triflate-catalyzed condensation of indoles with acetone. RSC Advances, 2013, 3, 22346.	1.7	16
81	Recent Advances in Proteinâ^'Ligand Interactions: Molecular Dynamics Simulations and Binding Free Energy. Current Computer-Aided Drug Design, 2013, 9, 518-531.	0.8	41
82	Conformationally Constrained Peptides as Protein Tyrosine Kinase Inhibitors. Current Pharmaceutical Design, 2012, 18, 2852-2866.	0.9	6
83	Regioselective Preferential Nucleophilic Addition of <i>N</i> -Heterocycles onto Haloarylalkynes over <i>N</i> -Arylation of Aryl Halides. Organic Letters, 2012, 14, 1106-1109.	2.4	41
84	Palladium-Catalyzed Regioselective [3 + 2] Annulation of Internal Alkynes and Iodo-pyranoquinolines with Concomitant Ring Opening. Organic Letters, 2012, 14, 5184-5187.	2.4	39
85	N-Myristoylglutamic acid derivative of 3′-fluoro-3′-deoxythymidine as an organogel. Tetrahedron Letters, 2012, 53, 5335-5337.	0.7	6
86	Site-Selective Electrophilic Cyclization and Subsequent Ring-Opening: A Synthetic Route to Pyrrolo[1,2- <i>a</i>]quinolines and Indolizines. Journal of Organic Chemistry, 2012, 77, 8562-8573.	1.7	43
87	Ionic Liquid as Soluble Support for Synthesis of 1,2,3-Thiadiazoles and 1,2,3-Selenadiazoles. Journal of Organic Chemistry, 2012, 77, 9391-9396.	1.7	45
88	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. Journal of Organic Chemistry, 2012, 77, 8191-8205.	1.7	62
89	O-Aryl α,β-d-ribofuranosides: Synthesis & highly efficient biocatalytic separation of anomers and evaluation of their Src kinase inhibitory activity. Bioorganic and Medicinal Chemistry, 2012, 20, 6821-6830.	1.4	16
90	Silver-catalyzed regioselective synthesis of acridines, quinolines, and naphthalenes from 3-(2-alkynyl)aryl-β-ketoesters. Tetrahedron, 2012, 68, 9035-9044.	1.0	39

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91	Palladium-Catalyzed Sonogashira-Coupling Conjoined C–H Activation: A Regioselective Tandem Strategy to Access Indolo- and Pyrrolo[1,2- <i>a</i>]quinolines. Journal of Organic Chemistry, 2012, 77, 10382-10392.	1.7	43
92	Ag ^I â€Catalyzed Cascade Strategy: Regioselective Access to Diversely Substituted Fused Benzimidazo[2,1â€ <i>a</i>]isoquinolines, Naphthyridines, Thienopyridines, and Quinoxalines in Water. European Journal of Organic Chemistry, 2012, 2012, 4590-4602.	1.2	48
93	Base-Mediated Selective Synthesis of Diversely Substituted <i>N</i> -Heterocyclic Enamines and Enaminones by the Hydroamination of Alkynes. Journal of Organic Chemistry, 2012, 77, 5633-5645.	1.7	65
94	One-pot regioselective synthesis of tetrahydroindazolones and evaluation of their antiproliferative and Src kinase inhibitory activities. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 410-414.	1.0	15
95	Microwave-assisted and scandium triflate catalyzed synthesis of tetrahydrobenzo[a]xanthen-11-ones. Monatshefte Für Chemie, 2012, 143, 263-268.	0.9	3
96	Thiazolyl N-benzyl-substituted acetamide derivatives: Synthesis, Src kinase inhibitory and anticancer activities. European Journal of Medicinal Chemistry, 2011, 46, 4853-4858.	2.6	60
97	Climate change and forests in India: adaptation opportunities and challenges. Mitigation and Adaptation Strategies for Global Change, 2011, 16, 161-175.	1.0	15
98	Click chemistry inspired one-pot synthesis of 1,4-disubstituted 1,2,3-triazoles and their Src kinase inhibitory activity. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 449-452.	1.0	57
99	Synthesis of 3-phenylpyrazolopyrimidine-1,2,3-triazole conjugates and evaluation of their Src kinase inhibitory and anticancer activities. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 1342-1346.	1.0	92
100	3-Substitued indoles: One-pot synthesis and evaluation of anticancer and Src kinase inhibitory activities. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 3511-3514.	1.0	57
101	Synthesis and anti-HIV activities of bis-(cycloSaligenyl) pronucleotides derivatives of 3′-fluoro-3′-deoxythymidine and 3′-azido-3′-deoxythymidine. Tetrahedron Letters, 2011, 52, 802-805.	0.7	9
102	Synthesis and evaluation of conformationally constrained peptide analogues as the Src SH3 domain binding ligands. Biochimie, 2010, 92, 1153-1163.	1.3	12
103	Synthesis, Src kinase inhibitory and anticancer activities of 1-substituted 3-(N-alkyl-N-phenylamino)propane-2-ols. Biochimie, 2010, 92, 1164-1172.	1.3	10
104	Synthesis of Nucleoside Mono-, Di-, and Triphosphoramidates from Solid-Phase cycloSaligenyl Phosphitylating Reagents. Organic Letters, 2009, 11, 2157-2160.	2.4	8
105	Synthesis, antibacterial activity andÂQSAR studies ofÂ1,2-disubstituted-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinolines. European Journal of Medicinal Chemistry, 2006, 41, 40-49.	2.6	57
106	Synthesis and in vitro cytotoxicity of haloderivatives of noscapine. Bioorganic and Medicinal Chemistry, 2006, 14, 6733-6736.	1.4	40
107	Synthesis and antibacterial activity of substituted 1,2,3,4-tetrahydropyrazino [1,2-a] indoles. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 413-416.	1.0	66
108	Synthesis and antifungal activity of substituted-10-methyl-1,2,3,4-tetrahydropyrazino[1,2-a]indoles. Bioorganic and Medicinal Chemistry, 2006, 14, 2747-2752.	1.4	42

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109	Highly efficient one-pot synthesis of 1-substituted-1,2,3,4-tetrahydropyrazino[1,2-a]indoles. Tetrahedron, 2005, 61, 9513-9518.	1.0	33