

William R Roush

List of Publications by Year in descending order

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64
papers

3,493
citations

159585

30
h-index

144013

57
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68
all docs

68
docs citations

68
times ranked

5081
citing authors

#	ARTICLE	IF	CITATIONS
1	Systems analysis of intracellular pH vulnerabilities for cancer therapy. <i>Nature Communications</i> , 2018, 9, 2997.	12.8	277
2	Vinyl Sulfonate Esters and Vinyl Sulfonamides: A Potent, Irreversible Inhibitors of Cysteine Proteases. <i>Journal of the American Chemical Society</i> , 1998, 120, 10994-10995.	13.7	196
3	Restricting Glycolysis Preserves T Cell Effector Functions and Augments Checkpoint Therapy. <i>Cell Reports</i> , 2019, 29, 135-150.e9.	6.4	189
4	Therapeutic Targeting of CDK12/CDK13 in Triple-Negative Breast Cancer. <i>Cancer Cell</i> , 2019, 36, 545-558.e7.	16.8	176
5	Enantioselective Synthesis of 1,5-anti- and 1,5-syn-Diols Using a Highly Diastereoselective One-Pot Double Allylboration Reaction Sequence. <i>Journal of the American Chemical Society</i> , 2002, 124, 13644-13645.	13.7	166
6	Structure-Activity Relationships for Inhibition of Cysteine Protease Activity and Development of Plasmodium falciparum by Peptidyl Vinyl Sulfones. <i>Antimicrobial Agents and Chemotherapy</i> , 2003, 47, 154-160.	3.2	157
7	Active site mapping, biochemical properties and subcellular localization of rhodesain, the major cysteine protease of <i>Trypanosoma brucei rhodesiense</i> . <i>Molecular and Biochemical Parasitology</i> , 2001, 118, 61-73.	1.1	155
8	Advancing Biological Understanding and Therapeutics Discovery with Small-Molecule Probes. <i>Cell</i> , 2015, 161, 1252-1265.	28.9	135
9	Relative Rates of Michael Reactions of α -(Phenethyl)thiol with Vinyl Sulfones, Vinyl Sulfonate Esters, and Vinyl Sulfonamides Relevant to Vinyl Sulfonyl Cysteine Protease Inhibitors. <i>Organic Letters</i> , 2003, 5, 1967-1970.	4.6	103
10	A target within the target: probing cruzain's P1 site to define structural determinants for the Chagas disease protease. <i>Structure</i> , 2000, 8, 831-840.	3.3	100
11	Targeting Ergosterol Biosynthesis in <i>Leishmania donovani</i> : Essentiality of Sterol 14 α -demethylase. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003588.	3.0	90
12	Stereoselective Synthesis of β -Substituted (<i>Z</i>)-Allylic Boranes via Kinetically Controlled Hydroboration of Allenes with 10-TMS-9-borabicyclo[3.3.2]decane. <i>Journal of the American Chemical Society</i> , 2009, 131, 14174-14175.	13.7	87
13	Endogenous and Synthetic ABHD5 Ligands Regulate ABHD5-Perilipin Interactions and Lipolysis in Fat and Muscle. <i>Cell Metabolism</i> , 2015, 22, 851-860.	16.2	87
14	Potent second generation vinyl sulfonamide inhibitors of the trypanosomal cysteine protease cruzain. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2759-2762.	2.2	82
15	Identification of Histone Deacetylase Inhibitors with Benzoylhydrazide Scaffold that Selectively Inhibit Class I Histone Deacetylases. <i>Chemistry and Biology</i> , 2015, 22, 273-284.	6.0	80
16	Drug Strategies Targeting CYP51 in Neglected Tropical Diseases. <i>Chemical Reviews</i> , 2014, 114, 11242-11271.	47.7	74
17	Synthesis of the C(1)-C(25) Fragment of Amphidinol 3: Application of the Double-Allylboration Reaction for Synthesis of 1,5-Diols. <i>Organic Letters</i> , 2005, 7, 1411-1414.	4.6	71
18	Hrr25/CK1 γ -directed release of Ltv1 from pre-40S ribosomes is necessary for ribosome assembly and cell growth. <i>Journal of Cell Biology</i> , 2015, 208, 745-759.	5.2	71

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19	Harnessing a catalytic lysine residue for the one-step preparation of homogeneous antibody-drug conjugates. <i>Nature Communications</i> , 2017, 8, 1112.	12.8	71
20	Development of highly selective casein kinase 1 α /1 μ (CK1 α /1 μ) inhibitors with potent antiproliferative properties. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 4374-4380.	2.2	65
21	Therapeutic targeting of casein kinase 1 α in breast cancer. <i>Science Translational Medicine</i> , 2015, 7, 318ra202.	12.4	61
22	Stereoselective Synthesis of the C(1) α -C(11) Fragment of Peloruside A. <i>Organic Letters</i> , 2005, 7, 3941-3944.	4.6	59
23	Synthesis of the C(43) α -C(67) Fragment of Amphidinol 3. <i>Organic Letters</i> , 2005, 7, 5509-5512.	4.6	55
24	Enantioselective Synthesis of (<i>Z</i>)- and (<i>E</i>)-2-Methyl-1,5- <i>anti</i> -Pentenediols via an Allene Hydroboration \rightarrow Double-Allylboration Reaction Sequence. <i>Journal of the American Chemical Society</i> , 2013, 135, 9512-9517.	13.7	55
25	The dual PI3K β /CK1 μ inhibitor umbralisib exhibits unique immunomodulatory effects on CLL T cells. <i>Blood Advances</i> , 2020, 4, 3072-3084.	5.2	52
26	Rational Development of 4-Aminopyridyl-Based Inhibitors Targeting <i>Trypanosoma cruzi</i> CYP51 as Anti-Chagas Agents. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 7651-7668.	6.4	43
27	4-Aminopyridyl-Based CYP51 Inhibitors as Anti- <i>Trypanosoma cruzi</i> Drug Leads with Improved Pharmacokinetic Profile and in Vivo Potency. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 6989-7005.	6.4	43
28	Antiproliferation Activity of a Small Molecule Repressor of Liver Receptor Homolog 1. <i>Molecular Pharmacology</i> , 2015, 87, 296-304.	2.3	42
29	Enantio- and Diastereoselective Synthesis of (<i>E</i>)-1,5- <i>syn</i> -Diols: Application to the Synthesis of the C(23) α -C(40) Fragment of Tetrafibricin. <i>Organic Letters</i> , 2011, 13, 1868-1871.	4.6	37
30	Structure-Based Design and Synthesis of Potent and Selective Matrix Metalloproteinase 13 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 5816-5825.	6.4	35
31	Functional Roles of Acetylated Histone Marks at Mouse Meiotic Recombination Hot Spots. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	35
32	Dual-mechanistic antibody-drug conjugate via site-specific selenocysteine/cysteine conjugation. <i>Antibody Therapeutics</i> , 2019, 2, 71-78.	1.9	35
33	Identification of novel, exosite-binding matrix metalloproteinase-13 inhibitor scaffolds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 7180-7184.	2.2	30
34	Casein Kinase 1 α Is an APC/CCdh1 Substrate that Regulates Cerebellar Granule Cell Neurogenesis. <i>Cell Reports</i> , 2015, 11, 249-260.	6.4	30
35	Characterization of Selective Exosite-Binding Inhibitors of Matrix Metalloproteinase 13 That Prevent Articular Cartilage Degradation in Vitro. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9598-9611.	6.4	29
36	Synthesis and Evaluation of Oxyguanidine Analogues of the Cysteine Protease Inhibitor WRR-483 against Cruzain. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 77-82.	2.8	26

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37	Development of a double allylboration reagent targeting 1,5-syn-(E)-diols: application to the synthesis of the C(23)â€C(40) fragment of tetrafabricin. <i>Tetrahedron</i> , 2011, 67, 6497-6512.	1.9	25
38	Site-Selective Antibody Functionalization via Orthogonally Reactive Arginine and Lysine Residues. <i>Cell Chemical Biology</i> , 2019, 26, 1229-1239.e9.	5.2	25
39	Second Generation Triple-Helical Peptide Inhibitors of Matrix Metalloproteinases. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 3814-3827.	6.4	24
40	4-aminopyridyl-based lead compounds targeting CYP51 prevent spontaneous parasite relapse in a chronic model and improve cardiac pathology in an acute model of <i>Trypanosoma cruzi</i> infection. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0006132.	3.0	24
41	Novel Pharmacological Probes Reveal ABHD5 as a Locus of Lipolysis Control in White and Brown Adipocytes. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 363, 367-376.	2.5	23
42	Development of dual casein kinase 1 γ /1 μ (CK1 γ /1 μ) inhibitors for treatment of breast cancer. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 590-602.	3.0	23
43	Casein Kinase 1 γ -dependent Wee1 Protein Degradation. <i>Journal of Biological Chemistry</i> , 2014, 289, 18893-18903.	3.4	22
44	Binding Mode and Potency of <i>N</i> -Indolyloxopyridinyl-4-aminopropanyl-Based Inhibitors Targeting <i>Trypanosoma cruzi</i> CYP51. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 10162-10175.	6.4	22
45	<i>In Silico</i> HTS and Structure Based Optimization of Indazole-Derived ULK1 Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1258-1263.	2.8	22
46	Enantio- and Diastereoselective Synthesis of <i>N</i> -Acetyl Dihydrotetrafabricin Methyl Ester. <i>Journal of the American Chemical Society</i> , 2013, 135, 5340-5343.	13.7	20
47	<i>R</i> -Configuration of 4-Aminopyridyl-Based Inhibitors of CYP51 Confers Superior Efficacy Against <i>Trypanosoma cruzi</i> . <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 434-439.	2.8	18
48	Expanding the Binding Envelope of CYP51 Inhibitors Targeting <i>Trypanosoma cruzi</i> with 4-Aminopyridyl-Based Sulfonamide Derivatives. <i>ChemBioChem</i> , 2014, 15, 1111-1120.	2.6	18
49	Enantio- and Diastereoselective Synthesis of 1,5-syn-(Z)-Amino Alcohols via Imine Double Allylboration: Synthesis of trans-1,2,3,6-Tetrahydropyridines and Total Synthesis of Andrachcine. <i>Organic Letters</i> , 2017, 19, 2646-2649.	4.6	17
50	Human Serum Albumin Domain I Fusion Protein for Antibody Conjugation. <i>Bioconjugate Chemistry</i> , 2016, 27, 2271-2275.	3.6	15
51	Stolonidiol: Synthesis, Target Identification, and Mechanism for Choline Acetyltransferase Activation. <i>Journal of the American Chemical Society</i> , 2017, 139, 5865-5869.	13.7	15
52	Development of matrix metalloproteinase-13 inhibitors â€ A structure-activity/structure-property relationship study. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 4984-4995.	3.0	14
53	Host-Derived Matrix Metalloproteinase-13 Activity Promotes Multiple Myelomaâ€Induced Osteolysis and Reduces Overall Survival. <i>Cancer Research</i> , 2021, 81, 2415-2428.	0.9	13
54	Discovery of 2-arylquinazoline derivatives as a new class of ASK1 inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 400-404.	2.2	10

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55	Targeting Casein Kinase 1 Delta Sensitizes Pancreatic and Bladder Cancer Cells to Gemcitabine Treatment by Upregulating Deoxycytidine Kinase. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1623-1635.	4.1	9
56	Druggable Hot Spots in the Schistosomiasis Cathepsin B1 Target Identified by Functional and Binding Mode Analysis of Potent Vinyl Sulfone Inhibitors. <i>ACS Infectious Diseases</i> , 2021, 7, 1077-1088.	3.8	9
57	An Engineered Arginine Residue of Unusual pH-Sensitive Reactivity Facilitates Site-Selective Antibody Conjugation. <i>Biochemistry</i> , 2021, 60, 1080-1087.	2.5	5
58	Exploiting the co-reliance of tumours upon transport of amino acids and lactate: Gln and Tyr conjugates of MCT1 inhibitors. <i>MedChemComm</i> , 2016, 7, 900-905.	3.4	4
59	Fluorometric High-Throughput Screening Assay for Secreted Phospholipases A2 Using Phospholipid Vesicles. <i>Journal of Biomolecular Screening</i> , 2016, 21, 713-721.	2.6	3
60	Sculpting a Uniquely Reactive Cysteine Residue for Site-Specific Antibody Conjugation. <i>Bioconjugate Chemistry</i> , 2022, 33, 1192-1200.	3.6	3
61	Discovery and Optimization of a Series of Sulfonamide Inverse Agonists for the Retinoic Acid Receptor-Related Orphan Receptor- β . <i>Medicinal Chemistry</i> , 2019, 15, 676-684.	1.5	2
62	CK1 β : an exploitable vulnerability in breast cancer. <i>Annals of Translational Medicine</i> , 2016, 4, 474-474.	1.7	1
63	A CK1 β /CK1 μ -to-Wnt/ β -Catenin Circuit Is a Therapeutic Vulnerability in Primary and Drug Resistant Multiple Myeloma. <i>Blood</i> , 2016, 128, 2094-2094.	1.4	0
64	Identification of Target Pathways Induced By the Multiple Myeloma Tumor Microenvironment Using Activity-Based Protein Profiling and Ex Vivo Protein Kinase Inhibitor Screening. <i>Blood</i> , 2016, 128, 3288-3288.	1.4	0