

Blake R Peterson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	3,398 citations	34 h-index	56 g-index
110 ext. papers	3,675 ext. citations	7.6 avg, IF	5.15 L-index

#	Paper	IF	Citations
89	Silver bromide nanoparticle/polymer composites: dual action tunable antimicrobial materials. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9798-808	16.4	617
88	Antibacterial and hemolytic activities of pyridinium polymers as a function of the spatial relationship between the positive charge and the pendant alkyl tail. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1250-4	16.4	212
87	Bilirubin conformational analysis and circular dichroism. <i>Journal of the American Chemical Society</i> , 1994 , 116, 42-59	16.4	167
86	Structural insights into mechanisms of catalysis and inhibition in Norwalk virus polymerase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 7705-12	5.4	119
85	Sensitivity of mitochondrial transcription and resistance of RNA polymerase II dependent nuclear transcription to antiviral ribonucleosides. <i>PLoS Pathogens</i> , 2012 , 8, e1003030	7.6	99
84	The oxidative stress mediator 4-hydroxynonenal is an intracellular agonist of the nuclear receptor peroxisome proliferator-activated receptor-beta/delta (PPARbeta/delta). <i>Free Radical Biology and Medicine</i> , 2007 , 42, 1155-64	7.8	81
83	The Pennsylvania Green Fluorophore: a hybrid of Oregon Green and Tokyo Green for the construction of hydrophobic and pH-insensitive molecular probes. <i>Organic Letters</i> , 2006 , 8, 581-4	6.2	73
82	Synthesis and biological evaluation of analogues of AKT (protein kinase B) inhibitor-IV. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1126-39	8.3	61
81	Synthetic mimics of small Mammalian cell surface receptors. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16379-86	16.4	55
80	Hydrophobic analogues of rhodamine B and rhodamine 101: potent fluorescent probes of mitochondria in living <i>C. elegans</i> . <i>Beilstein Journal of Organic Chemistry</i> , 2012 , 8, 2156-65	2.5	53
79	A synthetic mimic of human Fc receptors: defined chemical modification of cell surfaces enables efficient endocytic uptake of human immunoglobulin-G. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11463-70	16.4	50
78	Synthesis of a 6-methyl-7-deaza analogue of adenosine that potently inhibits replication of polio and dengue viruses. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 7958-66	8.3	49
77	Synthetic cell surface receptors for delivery of therapeutics and probes. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 797-810	18.5	48
76	Efficient delivery of streptavidin to mammalian cells: clathrin-mediated endocytosis regulated by a synthetic ligand. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6265-73	16.4	48
75	A critical arginine residue mediates cooperativity in the contact interface between transcription factors NFAT and AP-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 13671-6	11.5	48
74	Multifunctional silane polymers for persistent surface derivatization and their antimicrobial properties. <i>Langmuir</i> , 2008 , 24, 7549-58	4	47
73	An amphotericin B-fluorescein conjugate as a powerful probe for biochemical studies of the membrane. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5181-5	16.4	47

72	Synthesis and antiviral evaluation of a mutagenic and non-hydrogen bonding ribonucleoside analogue: 1-beta-D-Ribofuranosyl-3-nitropyrrole. <i>Biochemistry</i> , 2002 , 41, 9026-33	3.2	46
71	Lethal mutagenesis of picornaviruses with N-6-modified purine nucleoside analogues. <i>Antimicrobial Agents and Chemotherapy</i> , 2008 , 52, 971-9	5.9	44
70	Endocytic delivery of vancomycin mediated by a synthetic cell surface receptor: rescue of bacterially infected Mammalian cells and tissue targeting in vivo. <i>Journal of the American Chemical Society</i> , 2007 , 129, 268-9	16.4	44
69	Molecule-specific imaging with mass spectrometry and a buckminsterfullerene probe: application to characterizing solid-phase synthesized combinatorial libraries. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3902-9	16.4	43
68	Synthesis of Fluorophores that Target Small Molecules to the Endoplasmic Reticulum of Living Mammalian Cells. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9696-9	16.4	42
67	Human neutrophil peptides mediate endothelial-monocyte interaction, foam cell formation, and platelet activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 2070-9	9.4	42
66	Lethal mutagenesis of poliovirus mediated by a mutagenic pyrimidine analogue. <i>Journal of Virology</i> , 2007 , 81, 11256-66	6.6	42
65	Synthesis of fluorinated benzophenones, xanthenes, acridones, and thioxanthenes by iterative nucleophilic aromatic substitution. <i>Journal of Organic Chemistry</i> , 2012 , 77, 473-81	4.2	41
64	Practical synthesis of 3beta-amino-5-cholestene and related 3beta-halides involving i-steroid and retro-i-steroid rearrangements. <i>Organic Letters</i> , 2009 , 11, 567-70	6.2	41
63	Dual role of the nuclear factor of activated T cells insert region in DNA recognition and cooperative contacts to activator protein 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 4919-24	11.5	41
62	Steroid complexation by cyclophane receptors in aqueous solution: Substrate selectivity, enthalpic driving force for cavity inclusion, and enthalpy-entropy compensation. <i>Tetrahedron</i> , 1995 , 51, 401-421	2.4	41
61	One-pot synthesis of nucleoside 5'Triphosphates from nucleoside 5TH-phosphonates. <i>Organic Letters</i> , 2008 , 10, 1703-6	6.2	38
60	Synthesis and antiviral activity of 5-substituted cytidine analogues: identification of a potent inhibitor of viral RNA-dependent RNA polymerases. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 6166-9	8.3	38
59	Synthesis of a beta-estradiol-biotin chimera that potently heterodimerizes estrogen receptor and streptavidin proteins in a yeast three-hybrid system. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3692-3	16.4	38
58	A concise synthesis of the Pennsylvania Green fluorophore and labeling of intracellular targets with O6-benzylguanine derivatives. <i>Organic Letters</i> , 2007 , 9, 3741-4	6.2	36
57	Synthetic mimics of mammalian cell surface receptors: prosthetic molecules that augment living cells. <i>Organic and Biomolecular Chemistry</i> , 2005 , 3, 3607-12	3.9	36
56	Structural requirements for the inhibition of calcium mobilization and mast cell activation by the pyrazole derivative BTP2. <i>International Journal of Biochemistry and Cell Biology</i> , 2011 , 43, 1228-39	5.6	35
55	Synthesis of a Fluorescent Analogue of Paclitaxel That Selectively Binds Microtubules and Sensitively Detects Efflux by P-Glycoprotein. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6927-6931	16.4	32

54	Development of a cell-based, high-throughput screening assay for cholesterol efflux using a fluorescent mimic of cholesterol. <i>Assay and Drug Development Technologies</i> , 2011 , 9, 136-46	2.1	31
53	Chemico-genetic identification of drebrin as a regulator of calcium responses. <i>International Journal of Biochemistry and Cell Biology</i> , 2010 , 42, 337-45	5.6	30
52	Selective disruption of early/recycling endosomes: release of disulfide-linked cargo mediated by a N-alkyl-3beta-cholesterylamine-capped peptide. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10064-5	16.4	30
51	Sensitive and rapid analysis of protein palmitoylation with a synthetic cell-permeable mimic of SRC oncoproteins. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2444-5	16.4	30
50	Dissolution of Cholesterol in Water by a Synthetic Receptor. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1625-1628		30
49	Synthesis of chimeric 7alpha-substituted estradiol derivatives linked to cholesterol and cholesterylamine. <i>Organic Letters</i> , 2002 , 4, 415-8	6.2	29
48	The orientation of the AP-1 heterodimer on DNA strongly affects transcriptional potency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 14076-81	11.5	28
47	Synthesis of an artificial cell surface receptor that enables oligohistidine affinity tags to function as metal-dependent cell-penetrating peptides. <i>Journal of the American Chemical Society</i> , 2006 , 128, 386-7	16.4	27
46	Targeting Fluorescent Sensors to Endoplasmic Reticulum Membranes Enables Detection of Peroxynitrite During Cellular Phagocytosis. <i>ACS Chemical Biology</i> , 2018 , 13, 2595-2602	4.9	25
45	Cavity depth and width effects on cyclophane-steroid recognition: molecular complexation of cholesterol and progesterone in aqueous solution. <i>Chemistry and Biology</i> , 1995 , 2, 139-46		25
44	Control of gene expression with small molecules: biotin-mediated acylation of targeted lysine residues in recombinant yeast. <i>Chemistry and Biology</i> , 2003 , 10, 1245-53		24
43	Targeting of histone acetyltransferase p300 by cyclopentenone prostaglandin (12)-PGJ(2) through covalent binding to Cys(1438). <i>Chemical Research in Toxicology</i> , 2012 , 25, 337-47	4	23
42	Synthesis of a universal 5-nitroindole ribonucleotide and incorporation into RNA by a viral RNA-dependent RNA polymerase. <i>ChemBioChem</i> , 2007 , 8, 1359-62	3.8	23
41	A colorimetric enzyme-linked on-bead assay for identification of synthetic substrates of protein tyrosine kinases. <i>Journal of Peptide Science</i> , 2002 , 8, 227-33	2.1	23
40	Quantification of Small Molecule-Protein Interactions using FRET between Tryptophan and the Pacific Blue Fluorophore. <i>ACS Omega</i> , 2016 , 1, 1266-1276	3.9	23
39	Malleilactone Is a Burkholderia pseudomallei Virulence Factor Regulated by Antibiotics and Quorum Sensing. <i>Journal of Bacteriology</i> , 2018 , 200,	3.5	21
38	Macrotricyclic Steroid Receptors by Pd-Catalyzed Cross-Coupling Reactions: Dissolution of cholesterol in aqueous solution and investigations of the principles governing selective molecular recognition of steroidal substrates. <i>Helvetica Chimica Acta</i> , 1998 , 81, 109-144	2	21
37	Non-natural cell surface receptors: synthetic peptides capped with N-cholesterylglycine efficiently deliver proteins into Mammalian cells. <i>Bioconjugate Chemistry</i> , 2003 , 14, 67-74	6.3	21

36	Novel acid-activated fluorophores reveal a dynamic wave of protons in the intestine of <i>Caenorhabditis elegans</i> . <i>ACS Chemical Biology</i> , 2013 , 8, 636-42	4.9	20
35	A synthetic membrane-anchored antigen efficiently promotes uptake of anti fluorescein antibodies and associated protein a by mammalian cells. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12712-3	16.4	20
34	Identification of a small molecule yeast TORC1 inhibitor with a multiplex screen based on flow cytometry. <i>ACS Chemical Biology</i> , 2012 , 7, 715-22	4.9	19
33	A fluorescence-based high performance liquid chromatographic method for the characterization of palmitoyl acyl transferase activity. <i>Analytical Biochemistry</i> , 2002 , 308, 160-7	3.1	19
32	Fluorescent cellular sensors of steroid receptor ligands. <i>ChemBioChem</i> , 2003 , 4, 848-55	3.8	19
31	Calcium flux in neuroblastoma cells is a coupling mechanism between non-genomic and genomic modes of estrogens. <i>Neuroendocrinology</i> , 2005 , 81, 174-82	5.6	19
30	Synthesis of a high-affinity fluorescent PPARgamma ligand for high-throughput fluorescence polarization assays. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 4325-32	3.4	18
29	Conformational solution studies of neuropeptide gamma using CD and NMR spectroscopy. <i>Journal of Peptide Science</i> , 2002 , 8, 211-26	2.1	17
28	Decreased APOE-containing HDL subfractions and cholesterol efflux capacity of serum in mice lacking Pcsk9. <i>Lipids in Health and Disease</i> , 2013 , 12, 112	4.4	16
27	Small Molecule Inhibitors of the BfrB-Bfd Interaction Decrease <i>Pseudomonas aeruginosa</i> Fitness and Potentiate Fluoroquinolone Activity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8171-8184	16.4	15
26	Facile synthesis of cids: biotinylated estrone oximes efficiently heterodimerize estrogen receptor and streptavidin proteins in yeast three hybrid systems. <i>Organic Letters</i> , 2004 , 6, 1409-12	6.2	14
25	Analysis of protein tyrosine kinase inhibitors in recombinant yeast lacking the ERG6 gene. <i>ChemBioChem</i> , 2003 , 4, 101-7	3.8	13
24	Lösen von Cholesterin in Wasser mit Hilfe eines synthetischen Rezeptors. <i>Angewandte Chemie</i> , 1994 , 106, 1688-1690	3.6	12
23	Hydrophobic resorufamine derivatives: potent and selective red fluorescent probes of the endoplasmic reticulum of mammalian cells. <i>Dyes and Pigments</i> , 2016 , 135, 127-133	4.6	12
22	Detection of protein-protein interactions by proximity-driven S(N)Ar reactions of lysine-linked fluorophores. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5241-4	16.4	11
21	Synthetic Rhamnose Glycopolymer Cell-Surface Receptor for Endogenous Antibody Recruitment. <i>Biomacromolecules</i> , 2020 , 21, 793-802	6.9	10
20	Carnosine Protects Macrophages against the Toxicity of Aβ-42 Oligomers by Decreasing Oxidative Stress. <i>Biomedicines</i> , 2021 , 9,	4.8	10
19	Anticancer/antiviral agent Akt inhibitor-IV massively accumulates in mitochondria and potently disrupts cellular bioenergetics. <i>ACS Chemical Biology</i> , 2015 , 10, 570-6	4.9	9

18	Antibody-Drug Conjugate that Exhibits Synergistic Cytotoxicity with an Endosome-Disruptive Peptide. <i>ACS Omega</i> , 2019 , 4, 12955-12968	3.9	9
17	Efficient and Scalable Synthesis of 4-Carboxy-Pennsylvania Green Methyl Ester: A Hydrophobic Building Block for Fluorescent Molecular Probes. <i>Synthesis</i> , 2014 , 46, 158-164	2.9	8
16	Visible photorelease of liquid biopsy markers following microfluidic affinity-enrichment. <i>Chemical Communications</i> , 2020 , 56, 4098-4101	5.8	7
15	11beta-alkyl-Delta9-19-nortestosterone derivatives: high-affinity ligands and potent partial agonists of the androgen receptor. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 4985-8	8.3	7
14	Interaction of 3β-amino-5-cholestene with phospholipids in binary and ternary bilayer membranes. <i>Langmuir</i> , 2012 , 28, 648-55	4	6
13	Fluorescence-based cloning of a protein tyrosine kinase with a yeast tribrid system. <i>ChemBioChem</i> , 2005 , 6, 1442-8	3.8	5
12	Rapid detection of protein tyrosine kinase activity in recombinant yeast expressing a universal substrate. <i>Journal of Proteome Research</i> , 2002 , 1, 207-9	5.6	5
11	Synthesis of a Fluorescent Analogue of Paclitaxel That Selectively Binds Microtubules and Sensitive Detects Efflux by P-Glycoprotein. <i>Angewandte Chemie</i> , 2017 , 129, 7031-7035	3.6	4
10	Fluorescent detection of peroxynitrite during antibody-dependent cellular phagocytosis. <i>Methods in Enzymology</i> , 2020 , 640, 1-35	1.7	3
9	Synthesis of Fluorophores that Target Small Molecules to the Endoplasmic Reticulum of Living Mammalian Cells. <i>Angewandte Chemie</i> , 2015 , 127, 9832-9835	3.6	2
8	An Amphotericin B-Fluorescein Conjugate as a Powerful Probe for Biochemical Studies of the Membrane. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5428-5428	16.4	2
7	Augmenting vitamin D to combat genetic disease. <i>Chemistry and Biology</i> , 2002 , 9, 1265-6		2
6	Fluorescent mimics of cholesterol that rapidly bind surfaces of living mammalian cells. <i>Chemical Communications</i> , 2015 , 51, 14624-7	5.8	1
5	Small-molecule triggers of tadpole metamorphosis. <i>ACS Chemical Biology</i> , 2006 , 1, 559-61	4.9	1
4	The C. elegans CHP1 homolog, pbo-1, functions in innate immunity by regulating the pH of the intestinal lumen		1
3	The C. elegans CHP1 homolog, pbo-1, functions in innate immunity by regulating the pH of the intestinal lumen. <i>PLoS Pathogens</i> , 2020 , 16, e1008134	7.6	1
2	Pacific Blue-Taxoids as Fluorescent Molecular Probes of Microtubules.. <i>Methods in Molecular Biology</i> , 2022 , 2430, 449-466	1.4	0
1	Protein Palmitoylation Participates in PAR1-Mediated Platelet Activation.. <i>Blood</i> , 2004 , 104, 1560-1560	2.2	

