

John Paul Pezacki

List of Publications by Year in descending order

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120
papers

4,631
citations

94433

37
h-index

110387

64
g-index

121
all docs

121
docs citations

121
times ranked

5501
citing authors

#	ARTICLE	IF	CITATIONS
1	miR-383 Regulates Hepatic Lipid Homeostasis and Response to Dengue Virus Infection. ACS Infectious Diseases, 2022, 8, 928-941.	3.8	7
2	microRNA-27b regulates hepatic lipase enzyme LIPC and reduces triglyceride degradation during hepatitis C virus infection. Journal of Biological Chemistry, 2022, 298, 101983.	3.4	6
3	Fine-tuning acetyl-CoA carboxylase 1 activity through localization: functional genomics reveals a role for the lysine acetyltransferase NuA4 and sphingolipid metabolism in regulating Acc1 activity and localization. Genetics, 2022, 221, .	2.9	7
4	Reactivity of <i>N</i> -acyl hydrazone probes with the mammalian proteome. RSC Medicinal Chemistry, 2021, 12, 797-803.	3.9	3
5	Profiling of MicroRNA Targets Using Activity-Based Protein Profiling: Linking Enzyme Activity to MicroRNA-185 Function. Cell Chemical Biology, 2021, 28, 202-212.e6.	5.2	9
6	MicroRNA Mimics or Inhibitors as Antiviral Therapeutic Approaches Against COVID-19. Drugs, 2021, 81, 517-531.	10.9	59
7	Bioorthogonal chemistry. Nature Reviews Methods Primers, 2021, 1, .	21.2	201
8	Reply to Zhang and Zhu "MicroRNA Mimics or Inhibitors as Antiviral Therapeutic Approaches Against COVID-19" Drugs, 2021, 81, 1693-1695.	10.9	0
9	Bioorthogonal Reactions Utilizing Nitrones as Versatile Dipoles in Cycloaddition Reactions. Chemical Reviews, 2021, 121, 6699-6717.	47.7	59
10	Cycloadditions of Trans α -Cyclooctenes and Nitrones as Tools for Bioorthogonal Labelling. ChemBioChem, 2020, 21, 948-951.	2.6	9
11	Optimized aqueous Kinugasa reactions for bioorthogonal chemistry applications. Chemical Communications, 2020, 56, 1988-1991.	4.1	6
12	Predicting reactivity for bioorthogonal cycloadditions involving nitrones. RSC Advances, 2020, 10, 29306-29310.	3.6	5
13	Knock Out of Cell Death Pathway Components Results in Differential Caspase Expression in Response to HCV Infection. Proceedings (mdpi), 2020, 50, .	0.2	0
14	A Bifunctional Nucleoside Probe for the Inhibition of the Human Immunodeficiency Virus-Type 1 Reverse Transcriptase. Bioconjugate Chemistry, 2020, 31, 1537-1544.	3.6	5
15	Site-Specific Cross-Linking of a p19 Viral Suppressor of RNA Silencing Protein and Its RNA Targets Using an Expanded Genetic Code. Biochemistry, 2019, 58, 3520-3526.	2.5	4
16	Small Molecule Inhibition of Protein Disulfide Isomerase in Neuroblastoma Cells Induces an Oxidative Stress Response and Apoptosis Pathways. ACS Chemical Neuroscience, 2019, 10, 4068-4075.	3.5	9
17	Hepatitis C Virus Helicase Binding Activity Monitored through Site-Specific Labeling Using an Expanded Genetic Code. ACS Infectious Diseases, 2019, 5, 2118-2126.	3.8	2
18	A conserved miRNA-183 cluster regulates the innate antiviral response. Journal of Biological Chemistry, 2019, 294, 19785-19794.	3.4	20

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19	Structural insights into interactions between viral suppressor of p19 mutants and small RNA silencing protein p19 mutants and small RNA silencing protein. FEBS Open Bio, 2019, 9, 1042-1051.	2.3	6
20	Fungal natural alkaloid schizocommunin activates the aryl hydrocarbon receptor pathway. MedChemComm, 2019, 10, 985-990.	3.4	7
21	Phenanthridine-based nitrones as substrates for strain-promoted alkyne-nitrone cycloadditions. Canadian Journal of Chemistry, 2019, 97, 1-6.	1.1	4
22	Activity-Based Phosphatidylinositol Kinase Probes Detect Changes to Protein-Protein Interactions During Hepatitis C Virus Replication. ACS Infectious Diseases, 2018, 4, 752-757.	3.8	12
23	Visualization of the Delivery and Release of Small RNAs Using Genetic Code Expansion and Unnatural RNA-Binding Proteins. Bioconjugate Chemistry, 2018, 29, 3982-3986.	3.6	7
24	Gene Expression Profiling of Endoplasmic Reticulum Stress in Hepatitis C Virus-Containing Cells Treated with an Inhibitor of Protein Disulfide Isomerases. ACS Omega, 2018, 3, 17227-17235.	3.5	14
25	MicroRNA-124 Regulates Fatty Acid and Triglyceride Homeostasis. IScience, 2018, 10, 149-157.	4.1	24
26	ABPP and Host-Virus Interactions. Current Topics in Microbiology and Immunology, 2018, 420, 131-154.	1.1	9
27	An affinity-based probe for methyltransferase enzymes based on sinefungin. Canadian Journal of Chemistry, 2017, 95, 1059-1063.	1.1	2
28	Rapid Screening and Identification of Living Pathogenic Organisms via Optimized Bioorthogonal Non-canonical Amino Acid Tagging. Cell Chemical Biology, 2017, 24, 1048-1055.e3.	5.2	10
29	A Novel p19 Fusion Protein as a Delivery Agent for Short-interfering RNAs. Molecular Therapy - Nucleic Acids, 2016, 5, e303.	5.1	12
30	6-Hydroxydopamine Inhibits the Hepatitis C Virus through Alkylation of Host and Viral Proteins and the Induction of Oxidative Stress. ACS Infectious Diseases, 2016, 2, 863-871.	3.8	3
31	The role of microRNAs in metabolic interactions between viruses and their hosts. Current Opinion in Virology, 2016, 19, 71-76.	5.4	20
32	Taking Aim at Host-Pathogen Interactions. ACS Infectious Diseases, 2016, 2, 744-745.	3.8	1
33	Chemical Methods for Probing Virus-Host Proteomic Interactions. ACS Infectious Diseases, 2016, 2, 773-786.	3.8	9
34	Activity-based profiling of the proteasome pathway during hepatitis C virus infection. Proteomics, 2015, 15, 3815-3825.	2.2	6
35	Kinugasa Reactions in Water: From Green Chemistry to Bioorthogonal Labelling. Molecules, 2015, 20, 6959-6969.	3.8	24
36	Sorafenin A: A Probe for Investigating the Role of de Novo Lipogenesis during Viral Infection. ACS Infectious Diseases, 2015, 1, 130-134.	3.8	12

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37	Armand-Frappier Outstanding Student Award â€” The emerging role of 25-hydroxycholesterol in innate immunity. <i>Canadian Journal of Microbiology</i> , 2015, 61, 521-530.	1.7	12
38	Bioorthogonal labelling of living bacteria using unnatural amino acids containing nitrones and a nitrone derivative of vancomycin. <i>Chemical Communications</i> , 2015, 51, 12501-12504.	4.1	31
39	MicroRNAs regulate the immunometabolic response to viral infection in the liver. <i>Nature Chemical Biology</i> , 2015, 11, 988-993.	8.0	76
40	Profiling Kinase Activity during Hepatitis C Virus Replication Using a Wortmannin Probe. <i>ACS Infectious Diseases</i> , 2015, 1, 443-452.	3.8	7
41	Hepatitis C virus induced up-regulation of microRNA-27: A novel mechanism for hepatic steatosis. <i>Hepatology</i> , 2014, 59, 98-108.	7.3	110
42	Hydrophobic Triarylâ€”Substituted Î²â€”Lactams as Activityâ€”Based Probes for Profiling Eukaryotic Enzymes and Hostâ€”Pathogen Interactions. <i>ChemBioChem</i> , 2014, 15, 2195-2200.	2.6	12
43	Hepatitis C virus and microRNAs: miRed in a host of possibilities. <i>Current Opinion in Virology</i> , 2014, 7, 1-10.	5.4	46
44	Strain-promoted cycloadditions involving nitrones and alkynesâ€”rapid tunable reactions for bioorthogonal labeling. <i>Current Opinion in Chemical Biology</i> , 2014, 21, 81-88.	6.1	67
45	Kinetics studies of rapid strain-promoted [3+2] cycloadditions of nitrones with bicyclo[6.1.0]nonyne. <i>Canadian Journal of Chemistry</i> , 2014, 92, 337-340.	1.1	28
46	A New Chemical Probe for Phosphatidylinositol Kinase Activity. <i>ChemBioChem</i> , 2014, 15, 1253-1256.	2.6	25
47	Copper-catalysed cycloaddition reactions of nitrones and alkynes for bioorthogonal labelling of living cells. <i>RSC Advances</i> , 2014, 4, 46966-46969.	3.6	21
48	Stearoyl-CoA desaturase inhibition blocks formation of hepatitis C virus-induced specialized membranes. <i>Scientific Reports</i> , 2014, 4, 4549.	3.3	53
49	Three-Mode Electrochemical Sensing of Ultralow MicroRNA Levels. <i>Journal of the American Chemical Society</i> , 2013, 135, 3027-3038.	13.7	207
50	Modulation of Fatty Acid Synthase Enzyme Activity and Expression during Hepatitis C Virus Replication. <i>Chemistry and Biology</i> , 2013, 20, 570-582.	6.0	71
51	Studying the RNA silencing pathway with the p19 protein. <i>FEBS Letters</i> , 2013, 587, 1198-1205.	2.8	28
52	Rearrangements and addition reactions of biarylazacyclooctynones and the implications to copper-free click chemistry. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3436.	2.8	24
53	Fluorescence Lifetime Imaging of Alterations to Cellular Metabolism by Domain 2 of the Hepatitis C Virus Core Protein. <i>PLoS ONE</i> , 2013, 8, e66738.	2.5	32
54	Bidirectional Lipid Droplet Velocities Are Controlled by Differential Binding Strengths of HCV Core DII Protein. <i>PLoS ONE</i> , 2013, 8, e78065.	2.5	19

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55	Silicon and silicon oxide surface modification using thiamine-catalyzed benzoin condensations. <i>Canadian Journal of Chemistry</i> , 2012, 90, 262-270.	1.1	4
56	Kinetics studies of rapid strain-promoted [3 + 2]-cycloadditions of nitrones with biaryl-aza-cyclooctynone. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3066.	2.8	42
57	Intramolecular cyclization and subsequent rearrangements of alkyne-tethered N-heterocyclic carbenes. <i>Tetrahedron Letters</i> , 2012, 53, 5663-5666.	1.4	2
58	Systems biology methods help develop a better understanding of hepatitis C virus-induced liver injury. <i>Hepatology</i> , 2012, 56, 1-4.	7.3	19
59	Activity-based protein profiling of host-virus interactions. <i>Trends in Biotechnology</i> , 2012, 30, 89-99.	9.3	27
60	Enhanced Specificity of the Viral Suppressor of RNA Silencing Protein p19 toward Sequestering of Human MicroRNA-122. <i>Biochemistry</i> , 2011, 50, 7745-7755.	2.5	24
61	Strain-promoted cycloadditions of cyclic nitrones with cyclooctynes for labeling human cancer cells. <i>Chemical Communications</i> , 2011, 47, 10040.	4.1	64
62	Development of a Multiplexed Microfluidic Proteomic Reactor and Its Application for Studying Protein-Protein Interactions. <i>Analytical Chemistry</i> , 2011, 83, 4095-4102.	6.5	34
63	Cellular Consequences of Copper Complexes Used To Catalyze Bioorthogonal Click Reactions. <i>Journal of the American Chemical Society</i> , 2011, 133, 17993-18001.	13.7	330
64	Quantitative Analysis of MicroRNA in Blood Serum with Protein-Facilitated Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2011, 83, 6196-6201.	6.5	78
65	Strain-promoted 1,3-dipolar cycloadditions of diazo compounds with cyclooctynes. <i>Canadian Journal of Chemistry</i> , 2011, 89, 148-151.	1.1	25
66	Chemical contrast for imaging living systems: molecular vibrations drive CARS microscopy. <i>Nature Chemical Biology</i> , 2011, 7, 137-145.	8.0	207
67	Competing roles of microRNA-122 recognition elements in hepatitis C virus RNA. <i>Virology</i> , 2011, 410, 336-344.	2.4	56
68	An enzyme-linked assay for the rapid quantification of microRNAs based on the viral suppressor of RNA silencing protein p19. <i>Analytical Biochemistry</i> , 2011, 412, 165-172.	2.4	46
69	Activity-based Protein Profiling Identifies a Host Enzyme, Carboxylesterase 1, Which Is Differentially Active during Hepatitis C Virus Replication. <i>Journal of Biological Chemistry</i> , 2010, 285, 25602-25612.	3.4	56
70	The Efficacy of siRNAs against Hepatitis C Virus Is Strongly Influenced by Structure and Target Site Accessibility. <i>Chemistry and Biology</i> , 2010, 17, 515-527.	6.0	18
71	Activity-based protein profiling of the hepatitis C virus replication in Huh-7 hepatoma cells using a non-directed active site probe. <i>Proteome Science</i> , 2010, 8, 5.	1.7	36
72	Surface-Enhanced Raman and Resonant Rayleigh Scatterings From Adsorbate Saturated Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7356-7363.	3.1	40

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73	Activity-Based Proteome Profiling of Hepatoma Cells during Hepatitis C Virus Replication Using Protease Substrate Probes. <i>Journal of Proteome Research</i> , 2010, 9, 912-923.	3.7	31
74	Dynamics of lipid droplets induced by the hepatitis C virus core protein. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 518-524.	2.1	48
75	Nitrones as dipoles for rapid strain-promoted 1,3-dipolar cycloadditions with cyclooctynes. <i>Chemical Communications</i> , 2010, 46, 931-933.	4.1	107
76	Host-virus interactions during hepatitis C virus infection: a complex and dynamic molecular biosystem. <i>Molecular BioSystems</i> , 2010, 6, 1131.	2.9	29
77	Development of nanoparticle probes for multiplex SERS imaging of cell surface proteins. <i>Nanoscale</i> , 2010, 2, 1413.	5.6	72
78	Direct imaging of the disruption of hepatitis C virus replication complexes by inhibitors of lipid metabolism. <i>Virology</i> , 2009, 394, 130-142.	2.4	57
79	Studies of multicomponent Kinugasa reactions in aqueous media. <i>Tetrahedron Letters</i> , 2009, 50, 1893-1896.	1.4	46
80	Studies of a viral suppressor of RNA silencing p19-CFP fusion protein: A FRET-based probe for sensing double-stranded fluorophore tagged small RNAs. <i>Biophysical Chemistry</i> , 2009, 143, 166-169.	2.8	11
81	Transcriptional profiling of the effects of 25-hydroxycholesterol on human hepatocyte metabolism and the antiviral state it conveys against the hepatitis C virus. <i>BMC Chemical Biology</i> , 2009, 9, 2.	1.6	31
82	FLEth RNA Intercalating Probe Is a Convenient Reporter for Small Interfering RNAs. <i>Journal of the American Chemical Society</i> , 2009, 131, 9872-9873.	13.7	16
83	Nanoscale organization of β^2 -adrenergic receptor-Venus fusion protein domains on the surface of mammalian cells. <i>Biochemical and Biophysical Research Communications</i> , 2009, 382, 85-90.	2.1	16
84	Optimally chirped multimodal CARS microscopy based on a single Ti:sapphire oscillator. <i>Optics Express</i> , 2009, 17, 2984.	3.4	182
85	All-fiber CARS microscopy of live cells. <i>Optics Express</i> , 2009, 17, 20700.	3.4	79
86	Nanoscale Aggregation of Cellular β^2 -Adrenergic Receptors Measured by Plasmonic Interactions of Functionalized Nanoparticles. <i>ACS Nano</i> , 2009, 3, 2329-2339.	14.6	49
87	Cellular Lipid Metabolism Is Influenced by the Coordination Environment of Copper. <i>Journal of the American Chemical Society</i> , 2009, 131, 2444-2445.	13.7	67
88	Synthesis and bioorthogonal coupling chemistry of a novel cyclopentenone-containing unnatural tyrosine analogue. <i>Biorganic Chemistry</i> , 2008, 36, 105-111.	4.1	12
89	Studies of the Interaction of the Viral Suppressor of RNA Silencing Protein p19 with Small RNAs Using Fluorescence Polarization. <i>Biochemistry</i> , 2008, 47, 8130-8138.	2.5	21
90	Picoliter Wells from Selective Growth of HEK293 Cells on Chemically Modified PDMS Surfaces. <i>Journal of Biomaterials Applications</i> , 2007, 21, 235-249.	2.4	3

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91	Effects of pH and salt concentration on the siRNA binding activity of the RNA silencing suppressor protein p19. <i>FEBS Letters</i> , 2007, 581, 3051-3056.	2.8	23
92	Evaluation of chemical labeling strategies for monitoring HCV RNA using vibrational microscopy. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2380.	2.8	12
93	Mammalian Cell Surface Imaging with Nitrile-Functionalized Nanoprobes: Biophysical Characterization of Aggregation and Polarization Anisotropy in SERS Imaging. <i>Journal of the American Chemical Society</i> , 2007, 129, 14-15.	13.7	128
94	Inhibition of siRNA Binding to a p19 Viral Suppressor of RNA Silencing by Cysteine Alkylation. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2005-2009.	13.8	19
95	Stabilized recombinant suppressors of RNA silencing: Functional effects of linking monomers of Carnation Italian Ringspot virus p19. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 1528-1535.	2.3	14
96	Synthesis and characterization of CN-modified protein analogues as potential vibrational contrast agents. <i>Bioorganic Chemistry</i> , 2007, 35, 284-293.	4.1	13
97	The influence of cholesterol and lipid metabolism on host cell structure and hepatitis C virus replication. <i>Biochemistry and Cell Biology</i> , 2006, 84, 67-79.	2.0	71
98	Simultaneous quantitative measurement of luciferase reporter activity and cell number in two- and three-dimensional cultures of hepatitis C virus replicons. <i>Analytical Biochemistry</i> , 2006, 350, 239-248.	2.4	17
99	Peroxisome Proliferator-Activated Receptor β Antagonism Inhibits Hepatitis C Virus Replication. <i>Chemistry and Biology</i> , 2006, 13, 23-30.	6.0	94
100	A Small-Molecule Probe for Hepatitis C Virus Replication that Blocks Protein Folding. <i>Chemistry and Biology</i> , 2006, 13, 1051-1060.	6.0	25
101	Bleomycin is a Potent Small-Molecule Inhibitor of Hepatitis C Virus Replication. <i>ChemBioChem</i> , 2006, 7, 1330-1333.	2.6	7
102	Intracellular Imaging of HCV RNA and Cellular Lipids by Using Simultaneous Two-Photon Fluorescence and Coherent Anti-Stokes Raman Scattering Microscopies. <i>ChemBioChem</i> , 2006, 7, 1895-1897.	2.6	60
103	Imaging nanometer domains of β_2 -adrenergic receptor complexes on the surface of cardiac myocytes. <i>Nature Chemical Biology</i> , 2005, 1, 196-202.	8.0	103
104	Near-Field Scanning Fluorescence Microscopy Study of Ion Channel Clusters in Cardiac Myocyte Membranes. <i>Biophysical Journal</i> , 2004, 87, 3525-3535.	0.5	72
105	Rates of release of nitric oxide from HbSNO and internal electron transfer. <i>Bioorganic Chemistry</i> , 2003, 31, 3-10.	4.1	6
106	Gene expression during the priming phase of liver regeneration after partial hepatectomy in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11181-11186.	7.1	183
107	Genomic Effects of Polyamide/DNA Interactions on mRNA Expression. <i>Chemistry and Biology</i> , 2002, 9, 821-827.	6.0	28
108	Release of Nitric Oxide from S-Nitrosohemoglobin. Electron Transfer as a Response to Deoxygenation. <i>Journal of the American Chemical Society</i> , 2001, 123, 4615-4616.	13.7	36

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109	S-Nitrosylation of Cross-Linked Hemoglobins at Î ² -Cysteine-93:Â Stabilized Hemoglobins as Nitric Oxide Sources. <i>Journal of the American Chemical Society</i> , 2000, 122, 10734-10735.	13.7	6
110	Silicon Migration from Oxygen to Carbon and Decarbonylation in Methoxytriphenylsiloxycarbene. <i>Organic Letters</i> , 2000, 2, 2733-2736.	4.6	16
111	Normal acid/base behaviour in proton transfer reactions to alkoxy substituted carbenes: estimates for intrinsic barriers to reaction and p <i>K</i> _a values. <i>Canadian Journal of Chemistry</i> , 1999, 77, 1230-1240.	1.1	14
112	Reactions of Dimethoxycarbene with Cyclic Perchlorinated Olefins and Ketones. <i>Journal of Organic Chemistry</i> , 1999, 64, 4344-4352.	3.2	15
113	Chemistry and Kinetics of Dipropylcarbene in Solution. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5336-5342.	2.5	10
114	Rate Constants for 1,2-Hydrogen Migration in Cyclohexylidene and in Substituted Cyclohexylidenes ¹ . <i>Journal of Organic Chemistry</i> , 1999, 64, 4456-4464.	3.2	28
115	Lifetimes of Dialkylcarbocations Derived from Alkanediazonium Ions in Solution:Â Cyclohexadienyl Cations as Kinetic Probes for Cation Reactivity ¹ . <i>Journal of the American Chemical Society</i> , 1999, 121, 6589-6598.	13.7	40
116	Laser flash photolysis of 2-adamantane-2,31-[3H]-diazirine: a reinvestigation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 116, 1-7.	3.9	15
117	Laser Flash Photolysis Studies of Oxygen and Sulfur Atom Transfer Reactions from Oxiranes and Thiiranes to Singlet Carbenes ¹ . <i>Journal of the American Chemical Society</i> , 1998, 120, 8681-8691.	13.7	37
118	Laser Flash and Dual Wavelength Photolysis of 3,4-Diaza-2,2-dimethoxy-1-oxa[4.5]spirooct-3-ene. Migration of Hydrogen and Carbon in Cyclobutylidene and in the Excited State of Its Precursor. <i>Journal of the American Chemical Society</i> , 1997, 119, 3191-3192.	13.7	40
119	Î ³ -1,3,4-Oxadiazolines:â€‰‰ Photochemical Precursors to Diazoalkanes and sec-Alkanediazonium Ions in Acidic Solution ¹ . <i>Journal of the American Chemical Society</i> , 1997, 119, 1789-1790.	13.7	18
120	Diverting Thiamin from Catalysis to Destruction. Mechanism of Fragmentation of N(1')-Methyl-2-(1-hydroxybenzyl)thiamin. <i>Journal of the American Chemical Society</i> , 1995, 117, 11383-11389.	13.7	34