

S Patrick Walton

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,127
citations

516710

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docs citations

43
times ranked

1282
citing authors

#	ARTICLE	IF	CITATIONS
1	Instructional Supports for Motivation Trajectories in Introductory College Engineering. <i>AERA Open</i> , 2022, 8, 233285842210836.	2.1	2
2	The multiplicative function of expectancy and value in predicting engineering students' choice, persistence, and performance. <i>Journal of Engineering Education</i> , 2022, 111, 531-553.	3.0	5
3	Modulating Polymer-siRNA Binding Does Not Promote Polyplex-Mediated Silencing. <i>Nucleic Acid Therapeutics</i> , 2021, 31, 229-236.	3.6	0
4	Palmitate-Induced IRE1 $\hat{=}$ XBP1 $\hat{=}$ ZEB Signaling Represses Desmoplakin Expression and Promotes Cancer Cell Migration. <i>Molecular Cancer Research</i> , 2021, 19, 240-248.	3.4	11
5	Metal $\hat{=}$ Organic Frameworks for Drug Delivery: A Design Perspective. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7004-7020.	8.0	435
6	Endocytosis Controls siRNA Efficiency: Implications for siRNA Delivery Vehicle Design and Cell-Specific Targeting. <i>Nucleic Acid Therapeutics</i> , 2020, 30, 22-32.	3.6	16
7	Kinetic analysis of the intracellular processing of siRNAs by confocal microscopy. <i>Microscopy (Oxford, England)</i> , 2020, 69, 401-407.	1.5	0
8	Relative Quantification of siRNA Strand Loading into Ago2 for Design of Highly Active siRNAs. <i>Methods in Molecular Biology</i> , 2019, 1974, 41-56.	0.9	1
9	Motivation in transition: Development and roles of expectancy, task values, and costs in early college engineering.. <i>Journal of Educational Psychology</i> , 2019, 111, 1081-1102.	2.9	78
10	Use of <i>Brevibacillus choshinensis</i> for the production of biologically active brain-derived neurotrophic factor (BDNF). <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 5645-5652.	3.6	2
11	Dextran functionalization enhances nanoparticle-mediated siRNA delivery and silencing. <i>Technology</i> , 2016, 04, 42-54.	1.4	13
12	Characterization of transcription factor response kinetics in parallel. <i>BMC Biotechnology</i> , 2016, 16, 62.	3.3	2
13	Terminal Duplex Stability and Nucleotide Identity Differentially Control siRNA Loading and Activity in RNA Interference. <i>Nucleic Acid Therapeutics</i> , 2016, 26, 309-317.	3.6	3
14	Brain derived neurotrophic factor release from layer-by-layer coated agarose nerve guidance scaffolds. <i>Acta Biomaterialia</i> , 2015, 18, 128-131.	8.3	23
15	How can novel microscopic approaches shed light on the function of nucleic acid-based drugs?. <i>Future Medicinal Chemistry</i> , 2015, 7, 1623-1625.	2.3	1
16	Improved asymmetry prediction for short interfering <sc>RNA</sc>s. <i>FEBS Journal</i> , 2014, 281, 320-330.	4.7	14
17	Quantitative, solution-phase profiling of multiple transcription factors in parallel. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2461-2468.	3.7	9
18	Design of siRNA Therapeutics from the Molecular Scale. <i>Pharmaceuticals</i> , 2013, 6, 440-468.	3.8	33

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19	ENDOCYTOSIS PATHWAYS FOR NUCLEIC ACID THERAPEUTICS. Nano LIFE, 2012, 02, 1241005.	0.9	8
20	Latest developments in experimental and computational approaches to characterize protein-lipid interactions. Proteomics, 2012, 12, 3273-3285.	2.2	16
21	Molecular Mechanism by Which Palmitate Inhibits PKR Autophosphorylation. Biochemistry, 2011, 50, 1110-1119.	2.5	10
22	Synergy Analysis Reveals Association between Insulin Signaling and Desmoplakin Expression in Palmitate Treated HepG2 Cells. PLoS ONE, 2011, 6, e28138.	2.5	6
23	Confocal microscopy for the analysis of siRNA delivery by polymeric nanoparticles. Microscopy Research and Technique, 2010, 73, 878-885.	2.2	16
24	Development of a dual-aptamer-based multiplex protein biosensor. Biosensors and Bioelectronics, 2010, 25, 2663-2668.	10.1	24
25	Engineering active siRNA therapeutics. FEBS Journal, 2010, 277, 4805-4805.	4.7	1
26	Designing highly active siRNAs for therapeutic applications. FEBS Journal, 2010, 277, 4806-4813.	4.7	71
27	Recognition of siRNA Asymmetry by TAR RNA Binding Protein. Biochemistry, 2010, 49, 3148-3155.	2.5	44
28	Emerging affinity-based techniques in proteomics. Expert Review of Proteomics, 2009, 6, 573-583.	3.0	26
29	Effect of siRNA terminal mismatches on TRBP and Dicer binding and silencing efficacy. FEBS Journal, 2009, 276, 6576-6585.	4.7	13
30	Application and analysis of structure-switching aptamers for small molecule quantification. Analytica Chimica Acta, 2009, 638, 213-219.	5.4	11
31	Engineering Cell Function by RNA Interference. Cell Engineering, 2009, , 175-194.	0.4	0
32	Impact of target mRNA structure on siRNA silencing efficiency: A large-scale study. Biotechnology and Bioengineering, 2008, 100, 744-755.	3.3	56
33	In vitro binding of single-stranded RNA by human Dicer. FEBS Letters, 2007, 581, 5611-5616.	2.8	20
34	Analysis of hybridization on the molecular barcode GeneChip microarray. Biochemical and Biophysical Research Communications, 2006, 348, 689-696.	2.1	5
35	Biological network analyses: computational genomics and systems approaches. Molecular Simulation, 2006, 32, 203-209.	2.0	0
36	Biomolecular Engineering in Oligonucleotide Applications. The Electrical Engineering Handbook, 2006, , 17-1-17-20.	0.2	0

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37	Thermodynamic and Kinetic Characterization of Antisense Oligodeoxynucleotide Binding to a Structured mRNA. <i>Biophysical Journal</i> , 2002, 82, 366-377.	0.5	55
38	Coupling of inflammatory cytokine signaling pathways probed by measurements of extracellular acidification rate. <i>Biophysical Chemistry</i> , 2001, 89, 1-12.	2.8	11
39	Rational selection and quantitative evaluation of antisense oligonucleotides. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001, 1520, 105-114.	2.4	19
40	Prediction of antisense oligonucleotide binding affinity to a structured RNA target. <i>Biotechnology and Bioengineering</i> , 1999, 65, 1-9.	3.3	41
41	Prediction of antisense oligonucleotide binding affinity to a structured RNA target. <i>Biotechnology and Bioengineering</i> , 1999, 65, 1-9.	3.3	19