

David Shalloway

List of Publications by Year in descending order

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62
papers

5,938
citations

87843

38
h-index

128225

60
g-index

68
all docs

68
docs citations

68
times ranked

4353
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of focal adhesion-associated protein tyrosine kinase by both cellular adhesion and oncogenic transformation. <i>Nature</i> , 1992, 358, 690-692.	13.7	817
2	Activation and suppression of pp60c-src transforming ability by mutation of its primary sites of tyrosine phosphorylation. <i>Cell</i> , 1987, 49, 65-73.	13.5	695
3	An RNA-binding protein associated with Src through its SH2 and SH3 domains in mitosis. <i>Nature</i> , 1994, 368, 867-871.	13.7	406
4	Cell cycle-dependent activation of Ras. <i>Current Biology</i> , 1996, 6, 1621-1627.	1.8	380
5	Purified maturation promoting factor phosphorylates pp60c-src at the sites phosphorylated during fibroblast mitosis. <i>Cell</i> , 1989, 57, 763-774.	13.5	344
6	Protein kinase C phosphorylates pp60src at a novel site. <i>Cell</i> , 1985, 42, 849-857.	13.5	267
7	Altered phosphorylation and activation of PP60c-src during fibroblast mitosis. <i>Cell</i> , 1988, 52, 801-810.	13.5	264
8	A phosphotyrosine displacement mechanism for activation of Src by PTP \hat{I} . <i>EMBO Journal</i> , 2000, 19, 964-978.	3.5	231
9	Defining the cellular lineage hierarchy in the interfollicular epidermis of adult skin. <i>Nature Cell Biology</i> , 2016, 18, 619-631.	4.6	158
10	Specificity and Determinants of Sam68 RNA Binding. <i>Journal of Biological Chemistry</i> , 1997, 272, 27274-27280.	1.6	155
11	Induction by E1A oncogene expression of cellular susceptibility to lysis by TNF. <i>Nature</i> , 1987, 330, 581-583.	13.7	147
12	Specific correlations between relative synonymous codon usage and protein secondary structure. <i>Journal of Molecular Biology</i> , 1998, 281, 31-48.	2.0	133
13	Altered tyrosine 527 phosphorylation and mitotic activation of p60c-src. <i>Nature</i> , 1991, 349, 172-175.	13.7	129
14	Greatwall-phosphorylated Endosulfine is both an inhibitor and a substrate of PP2A-B55 heterotrimers. <i>ELife</i> , 2014, 3, e01695.	2.8	99
15	Functional Interaction between c-Src and Its Mitotic Target, Sam 68. <i>Journal of Biological Chemistry</i> , 1995, 270, 10120-10124.	1.6	87
16	Association between v-Src and Protein Kinase C \hat{I} in v-Src-transformed Fibroblasts. <i>Journal of Biological Chemistry</i> , 1997, 272, 13275-13280.	1.6	87
17	Nonradioactive determination of Ras-GTP levels using activated ras interaction assay. <i>Methods in Enzymology</i> , 2001, 333, 333-342.	0.4	83
18	Temperature dependent reaction coordinates. <i>Journal of Chemical Physics</i> , 2000, 112, 5539-5545.	1.2	71

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19	Optimization methods for computing global minima of nonconvex potential energy functions. Journal of Global Optimization, 1994, 4, 117-133.	1.1	69
20	Sam68 exerts separable effects on cell cycle progression and apoptosis. BMC Cell Biology, 2004, 5, 5.	3.0	69
21	The cell cycle and c-Src. Current Opinion in Genetics and Development, 1993, 3, 26-34.	1.5	64
22	Src and the control of cell division. BioEssays, 1996, 18, 9-11.	1.2	64
23	RAPID-SELEX for RNA Aptamers. PLoS ONE, 2013, 8, e82667.	1.1	58
24	A parallel build-up algorithm for global energy minimizations of molecular clusters using effective energy simulated annealing. Journal of Global Optimization, 1994, 4, 171-185.	1.1	55
25	Mitotic Activation of Protein-tyrosine Phosphatase $\hat{\pm}$ and Regulation of Its Src-mediated Transforming Activity by Its Sites of Protein Kinase C Phosphorylation. Journal of Biological Chemistry, 2002, 277, 21922-21929.	1.6	55
26	Defining NELF-E RNA Binding in HIV-1 and Promoter-Proximal Pause Regions. PLoS Genetics, 2014, 10, e1004090.	1.5	55
27	Runx1 and p21 synergistically limit the extent of hair follicle stem cell quiescence in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4634-4639.	3.3	54
28	Apoptosis of estrogenâ€receptor negative breast cancer and colon cancer cell lines by PTP $\hat{\pm}$ and src RNAi. International Journal of Cancer, 2008, 122, 1999-2007.	2.3	53
29	Autophosphorylation of Purified c-Src at its Primary Negative Regulation Site. Journal of Biological Chemistry, 1995, 270, 25729-25732.	1.6	52
30	Tracing Specific Synonymous Codon-Secondary Structure Correlations Through Evolution. Journal of Molecular Evolution, 2003, 56, 473-484.	0.8	49
31	Phosphorylation of the Src substrate Sam68 by Cdc2 during mitosis. Oncogene, 1997, 15, 1247-1253.	2.6	48
32	Oncoprotein Signalling and Mitosis. Cellular Signalling, 1997, 9, 249-255.	1.7	47
33	Efficient computation of the first passage time distribution of the generalized master equation by steady-state relaxation. Journal of Chemical Physics, 2006, 124, 054112.	1.2	45
34	Macrostates of classical stochastic systems. Journal of Chemical Physics, 1996, 105, 9986-10007.	1.2	42
35	Raf-1 Is Activated during Mitosis. Journal of Biological Chemistry, 1995, 270, 26742-26745.	1.6	41
36	Physical and functional interaction between the transcriptional cofactor CBP and the KH domain protein Sam68. Molecular Cancer Research, 2002, 1, 48-55.	1.5	39

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37	Application of the renormalization group to deterministic global minimization of molecular conformation energy functions. <i>Journal of Global Optimization</i> , 1992, 2, 281.	1.1	38
38	Hierarchical characterization of energy landscapes using Gaussian packet states. <i>Journal of Chemical Physics</i> , 1994, 101, 9844-9857.	1.2	38
39	Characterization of Raf-1 Activation in Mitosis. <i>Journal of Biological Chemistry</i> , 1999, 274, 4430-4439.	1.6	38
40	Polymorphism and electronic structure of polyimine and its potential significance for prebiotic chemistry on Titan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8121-8126.	3.3	35
41	Multiplexed Microcolumn-Based Process for Efficient Selection of RNA Aptamers. <i>Analytical Chemistry</i> , 2013, 85, 3417-3424.	3.2	29
42	Activation of Src and transformation by an RPTP \pm splice mutant found in human tumours. <i>EMBO Journal</i> , 2011, 30, 3200-3211.	3.5	26
43	Density-dependent cooperative non-specific binding in solid-phase SELEX affinity selection. <i>Nucleic Acids Research</i> , 2013, 41, 7167-7175.	6.5	26
44	Isotropic effective energy simulated annealing searches for low energy molecular cluster states. <i>Computational Optimization and Applications</i> , 1993, 2, 145-170.	0.9	25
45	Oncoprotein Kinases in Mitosis. <i>Advances in Cancer Research</i> , 1991, 57, 185-225.	1.9	22
46	Tyrosine phosphatase PTP \pm regulates focal adhesion remodeling through Rac1 activation. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C931-C944.	2.1	22
47	Solvation of nitrogen compounds in Titan $\text{\textcircled{TM}}$ s seas, precipitates, and atmosphere. <i>Icarus</i> , 2015, 256, 1-12.	1.1	18
48	Finding transition states using contangency curves. <i>Journal of Chemical Physics</i> , 1997, 106, 10099-10104.	1.2	16
49	Recombinant DNA data management at the restriction and functional site level. <i>Nucleic Acids Research</i> , 1984, 12, 739-750.	6.5	15
50	Variational calculation of macrostate transition rates. <i>Journal of Chemical Physics</i> , 1998, 109, 1670-1686.	1.2	14
51	Extracellular domain dependence of PTP \pm transforming activity. <i>Genes To Cells</i> , 2010, 15, 711-724.	0.5	11
52	Unfair competition governs the interaction of pCPI-17 with myosin phosphatase (PP1-MYPT1). <i>ELife</i> , 2017, 6, .	2.8	10
53	Macrostate data clustering. <i>Physical Review E</i> , 2003, 67, 056704.	0.8	8
54	Chromatin Modifiers Alter Recombination Between Divergent DNA Sequences. <i>Genetics</i> , 2019, 212, 1147-1162.	1.2	7

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55	Src and Mitosis. Novartis Foundation Symposium, 1992, 170, 248-278.	1.2	7
56	Acetonitrile cluster solvation in a cryogenic ethane-methane-propane liquid: Implications for Titan lake chemistry. Journal of Chemical Physics, 2017, 146, 104308.	1.2	5
57	Variable-Scale Coarse-Graining in Macromolecular Global Optimization. The IMA Volumes in Mathematics and Its Applications, 1997, , 135-161.	0.5	5
58	Efficient uncertainty minimization for fuzzy spectral clustering. Physical Review E, 2009, 80, 056705.	0.8	4
59	Macrostate Dissection of Thermodynamic Monte Carlo Integrals. Advances in Chemical Physics, 2007, , 273-310.	0.3	3
60	Discovering Aptamers by Cell-SELEX against Human Soluble Growth Factors Ectopically Expressed on Yeast Cell Surface. PLoS ONE, 2014, 9, e93052.	1.1	2
61	Wrong policy?. Nature, 1994, 372, 214-214.	13.7	0
62	Packet Annealing. , 2001, , 1929-1931.		0