Carrie L Partch

List of Publications by Year
in descending order

47 papers	4,320 citations	159585 30 h-index	233421 45 g-index
61 all docs	61 docs citations	61 times ranked	5807 citing authors

#	Article	IF	Citations
1	Biochemical mechanisms of period control within the mammalian circadian clock. Seminars in Cell and Developmental Biology, 2022, 126, 71-78.	5.0	10
2	Cryptochrome proteins regulate the circadian intracellular behavior and localization of PER2 in mouse suprachiasmatic nucleus neurons. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	20
3	A C2-symmetric state in the AAA+ KaiC hexamer coordinates structural and functional modes within a molecular clock. Biophysical Journal, 2022, 121, 42a-43a.	0.5	0
4	Quantification of protein abundance and interaction defines a mechanism for operation of the circadian clock. ELife, 2022, 11, .	6.0	18
5	<i>CRY2</i> missense mutations suppress P53 and enhance cell growth. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	17
6	Ketogenesis impact on liver metabolism revealed by proteomics of lysine Î²-hydroxybutyrylation. Cell Reports, 2021, 36, 109487.	6.4	56
7	Reconstitution of an intact clock reveals mechanisms of circadian timekeeping. Science, 2021, 374, eabd4453.	12.6	32
8	NF-ÎºB modifies the mammalian circadian clock through interaction with the core clock protein BMAL1. PLoS Genetics, 2021, 17, e1009933.	3.5	39
9	The tail of cryptochromes: an intrinsically disordered cog within the mammalian circadian clock. Cell Communication and Signaling, 2020, 18, 182.	6.5	23
10	The human CRY1 tail controls circadian timing by regulating its association with CLOCK:BMAL1. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27971-27979.	7.1	40
11	New insights into non-transcriptional regulation of mammalian core clock proteins. Journal of Cell Science, 2020, 133, .	2.0	32
12	Orchestration of Circadian Timing by Macromolecular Protein Assemblies. Journal of Molecular Biology, 2020, 432, 3426-3448.	4.2	46
13	Casein kinase 1 dynamics underlie substrate selectivity and the PER2 circadian phosphoswitch. ELife, 2020, 9, .	6.0	52
14	Dynamics at the serine loop underlie differential affinity of cryptochromes for CLOCK:BMAL1 to control circadian timing. ELife, 2020, 9, .	6.0	50
15	Structure, function, and mechanism of the core circadian clock in cyanobacteria. Journal of Biological Chemistry, 2018, 293, 5026-5034.	3.4	62
16	Regulating behavior with the flip of a translational switch. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13151-13153.	7.1	0
17	CK1Î´/Îµ protein kinase primes the PER2 circadian phosphoswitch. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5986-5991.	7.1	120
18	Formation of a repressive complex in the mammalian circadian clock is mediated by the secondary pocket of CRY1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1560-1565.	7.1	92

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19	A Slow Conformational Switch in the BMAL1 Transactivation Domain Modulates Circadian Rhythms. Molecular Cell, 2017, 66, 447-457.e7.	9.7	66
20	Assembly and function of bHLHâ€“PAS complexes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5330-5332.	7.1	22
21	Animal Cryptochromes: Divergent Roles in Light Perception, Circadian Timekeeping and Beyond. Photochemistry and Photobiology, 2017, 93, 128-140.	2.5	77
22	Structural basis of the day-night transition in a bacterial circadian clock. Science, 2017, 355, 1174-1180.	12.6	144
23	Structural dynamics of RbmA governs plasticity of Vibrio cholerae biofilms. ELife, 2017, 6, .	6.0	57
24	Early doors (<i>Edo</i>) mutant mouse reveals the importance of period 2 (PER2) PAS domain structure for circadian pacemaking. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2756-2761.	7.1	19
25	Coiled-coil Coactivators Play a Structural Role Mediating Interactions in Hypoxia-inducible Factor Heterodimerization. Journal of Biological Chemistry, 2015, 290, 7707-7721.	3.4	26
26	Analysis of Protein Stability and Ligand Interactions by Thermal Shift Assay. Current Protocols in Protein Science, 2015, 79, 28.9.1-28.9.14.	2.8	368
27	Cytosolic BMAL1 moonlights as a translation factor. Trends in Biochemical Sciences, 2015, 40, 489-490.	7.5	9
28	Cryptochrome 1 regulates the circadian clock through dynamic interactions with the BMAL1 C terminus. Nature Structural and Molecular Biology, 2015, 22, 476-484.	8.2	137
29	Cancer/Testis Antigen PASD1 Silences the Circadian Clock. Molecular Cell, 2015, 58, 743-754.	9.7	51
30	Emerging Models for the Molecular Basis of Mammalian Circadian Timing. Biochemistry, 2015, 54, 134-149.	2.5	80
31	An imPERfect link to cancer?. Cell Cycle, 2014, 13, 507-507.	2.6	1
32	Molecular architecture of the mammalian circadian clock. Trends in Cell Biology, 2014, 24, 90-99.	7.9	1,084
33	Antibacterial membrane attack by a pore-forming intestinal C-type lectin. Nature, 2014, 505, 103-107.	27.8	256
34	Regulating the ARNT/TACC3 Axis: Multiple Approaches to Manipulating Protein/Protein Interactions with Small Molecules. ACS Chemical Biology, 2013, 8, 626-635.	3.4	37
35	Crystal Structure of the Heterodimeric CLOCK:BMAL1 Transcriptional Activator Complex. Science, 2012, 337, 189-194.	12.6	270
36	Coactivators necessary for transcriptional output of the hypoxia inducible factor, HIF, are directly recruited by ARNT PAS-B. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7739-7744.	7.1	58

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37	Coactivator recruitment: A new role for PAS domains in transcriptional regulation by the bHLHâ€PAS family. Journal of Cellular Physiology, 2010, 223, 553-557.	4.1	47
38	Molecular basis for peptidoglycan recognition by a bactericidal lectin. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7722-7727.	7.1	121
39	The Three Rs of Transcription: Recruit, Retain, and Recycle. Molecular Cell, 2010, 40, 855-858.	9.7	4
40	Molecular Basis of Coiled Coil Coactivator Recruitment by the Aryl Hydrocarbon Receptor Nuclear Translocator (ARNT). Journal of Biological Chemistry, 2009, 284, 15184-15192.	3.4	32
41	Regulation of C-type Lectin Antimicrobial Activity by a Flexible N-terminal Prosegment. Journal of Biological Chemistry, 2009, 284, 4881-4888.	3.4	84
42	Crystal structure of cryptochrome 3 from Arabidopsis thaliana and its implications for photolyase activity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17701-17706.	7.1	113
43	Posttranslational regulation of the mammalian circadian clock by cryptochrome and protein phosphatase 5. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10467-10472.	7.1	85
44	Photochemistry and Photobiology of Cryptochrome Blue-light Photopigments: The Search for a Photocycle. Photochemistry and Photobiology, 2005, 81, 1291.	2.5	111
45	Cryptochromes and Circadian Photoreception in Animals. Methods in Enzymology, 2005, 393, 726-745.	1.0	38
46	Role of Structural Plasticity in Signal Transduction by the Cryptochrome Blue-Light Photoreceptorâ€. Biochemistry, 2005, 44, 3795-3805.	2.5	171
47	Further evidence for the role of cryptochromes in retinohypothalamic photoreception/phototransduction. Molecular Brain Research, 2004, 122, 158-166.	2.3	23