Sean B Carroll

List of Publications by Year
in descending order

45 papers	12,005 citations	117625 34 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	10052 citing authors

#	Article	IF	Citations
1	The origin and diversification of a novel protein family in venomous snakes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10911-10920.	7.1	62
2	A major role for noncoding regulatory mutations in the evolution of enzyme activity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12383-12389.	7.1	21
3	Birth-and-Death Evolution of the Fatty Acyl-CoA Reductase (FAR) Gene Family and Diversification of Cuticular Hydrocarbon Synthesis in Drosophila. Genome Biology and Evolution, 2019, 11, 1541-1551.	2.5	44
4	Extremely Divergent Haplotypes in Two Toxin Gene Complexes Encode Alternative Venom Types within Rattlesnake Species. Current Biology, 2018, 28, 1016-1026.e4.	3.9	41
5	Expression of tandem gene duplicates is often greater than twofold. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5988-5992.	7.1	76
6	The Deep Origin and Recent Loss of Venom Toxin Genes in Rattlesnakes. Current Biology, 2016, 26, 2434-2445.	3.9	127
7	Wax, sex and the origin of species: Dual roles of insect cuticular hydrocarbons in adaptation and mating. BioEssays, 2015, 37, 822-830.	2.5	237
8	Gain of cis -regulatory activities underlies novel domains of wingless gene expression in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7524-7529.	7.1	95
9	Evoâ€Devo and an Expanding Evolutionary Synthesis. FASEB Journal, 2015, 29, 14.1.	0.5	1
10	Sex, lies and butterflies. Nature, 2014, 507, 172-173.	27.8	9
11	Evoâ€Devo and an Expanding Evolutionary Synthesis. FASEB Journal, 2013, 27, 194.1.	0.5	0
12	Evolutionary origin of a novel gene expression pattern through co-option of the latent activities of existing regulatory sequences. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10036-10043.	7.1	112
13	How Great Wings Can Look Alike. Science, 2011, 333, 1100-1101.	12.6	5
14	Generation of a novel wing colour pattern by the Wingless morphogen. Nature, 2010, 464, 1143-1148.	27.8	222
15	Stepwise Modification of a Modular Enhancer Underlies Adaptation in a Drosophila Population. Science, 2009, 326, 1663-1667.	12.6	259
16	The Evolution of Gene Regulation Underlies a Morphological Difference between Two Drosophila Sister Species. Cell, 2008, 132, 783-793.	28.9	269
17	Evo-Devo and an Expanding Evolutionary Synthesis: A Genetic Theory of Morphological Evolution. Cell, 2008, 134, 25-36.	28.9	1,729
18	The Regulation and Evolution of a Genetic Switch Controlling Sexually Dimorphic Traits in Drosophila. Cell, 2008, 134, 610-623.	28.9	287

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19	EVOLUTION: God as Genetic Engineer. Science, 2007, 316, 1427-1428.	12.6	10
20	Gene duplication and the adaptive evolution of a classic genetic switch. Nature, 2007, 449, 677-681.	27.8	409
21	Repeated morphological evolution through cis-regulatory changes in a pleiotropic gene. Nature, 2006, 440, 1050-1053.	27.8	475
22	Chance caught on the wing: cis-regulatory evolution and the origin of pigment patterns in Drosophila. Nature, 2005, 433, 481-487.	27.8	583
23	Evolution at Two Levels: On Genes and Form. PLoS Biology, 2005, 3, e245.	5.6	740
24	Genetics and the making of Homo sapiens. Nature, 2003, 422, 849-857.	27.8	324
25	Stephen Jay Gould (1941â€“2002). Developmental Cell, 2002, 3, 21-23.	7.0	0
26	Pigmentation and mate choice in Drosophila. Nature, 2002, 419, 360-360.	27.8	3
27	Reciprocal functions of theDrosophilaYellow and Ebony proteins in the development and evolution of pigment patterns. Development (Cambridge), 2002, 129, 1849-1858.	2.5	286
28	The big picture. Nature, 2001, 409, 669-669.	27.8	31
29	Chance and necessity: the evolution of morphological complexity and diversity. Nature, 2001, 409, 1102-1109.	27.8	478
30	Fringe forms a complex with Notch. Nature, 2000, 405, 191-195.	27.8	73
31	Genetic control and evolution of sexually dimorphic characters in Drosophila. Nature, 2000, 408, 553-559.	27.8	413
32	Hox genes in brachiopods and priapulids and protostome evolution. Nature, 1999, 399, 772-776.	27.8	516
33	Recruitment of a hedgehog Regulatory Circuit in Butterfly Eyespot Evolution. Science, 1999, 283, 532-534.	12.6	335
34	Drosophila Mad binds to DNA and directly mediates activation of vestigial by Decapentaplegic. Nature, 1997, 388, 304-308.	27.8	498
35	Fossils, genes and the evolution of animal limbs. Nature, 1997, 388, 639-648.	27.8	750
36	Integration of positional signals and regulation of wing formation and identity by Drosophila vestigial gene. Nature, 1996, 382, 133-138.	27.8	463

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37	Development, plasticity and evolution of butterfly eyespot patterns. Nature, 1996, 384, 236-242.	27.8	505
38	Homeotic genes and the evolution of arthropods and chordates. Nature, 1995, 376, 479-485.	27.8	698
39	The achaeteâ€scute complex: generation of cellular pattern and fate within the Drosophila nervous system. FASEB Journal, 1994, 8, 714-721.	0.5	102
40	Organization of wing formation and induction of a wing-patterning gene at the dorsal/ventral compartment boundary. Nature, 1994, 368, 299-305.	27.8	236
41	Evolution of homeotic gene regulation and function in flies and butterflies. Nature, 1994, 372, 458-461.	27.8	201
42	Conservation of wingless patterning functions in the short-germ embryos of Tribolium castaneum. Nature, 1994, 367, 460-463.	27.8	137
43	Developmental regulatory mechanisms in the evolution of insect diversity. Development (Cambridge), 1994, 1994, 217-223.	2.5	27
44	The origin, patterning and evolution of insect appendages. BioEssays, 1993, 15, 567-577.	2.5	53
45	Rattlesnake and Scorpion Antivenoms from the Egg Yolks of Immunized Hens. Nature Biotechnology, 1990, 8, 934-938.	17.5	62