

# Sean B Carroll

## List of Publications by Year in descending order

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45  
papers

12,005  
citations

117453

34  
h-index

253896

43  
g-index

46  
all docs

46  
docs citations

46  
times ranked

10052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evo-Devo and an Expanding Evolutionary Synthesis: A Genetic Theory of Morphological Evolution. <i>Cell</i> , 2008, 134, 25-36.	13.5	1,729
2	Fossils, genes and the evolution of animal limbs. <i>Nature</i> , 1997, 388, 639-648.	13.7	750
3	Evolution at Two Levels: On Genes and Form. <i>PLoS Biology</i> , 2005, 3, e245.	2.6	740
4	Homeotic genes and the evolution of arthropods and chordates. <i>Nature</i> , 1995, 376, 479-485.	13.7	698
5	Chance caught on the wing: cis-regulatory evolution and the origin of pigment patterns in <i>Drosophila</i> . <i>Nature</i> , 2005, 433, 481-487.	13.7	583
6	Hox genes in brachiopods and priapulids and protostome evolution. <i>Nature</i> , 1999, 399, 772-776.	13.7	516
7	Development, plasticity and evolution of butterfly eyespot patterns. <i>Nature</i> , 1996, 384, 236-242.	13.7	505
8	<i>Drosophila</i> Mad binds to DNA and directly mediates activation of vestigial by Decapentaplegic. <i>Nature</i> , 1997, 388, 304-308.	13.7	498
9	Chance and necessity: the evolution of morphological complexity and diversity. <i>Nature</i> , 2001, 409, 1102-1109.	13.7	478
10	Repeated morphological evolution through cis-regulatory changes in a pleiotropic gene. <i>Nature</i> , 2006, 440, 1050-1053.	13.7	475
11	Integration of positional signals and regulation of wing formation and identity by <i>Drosophila</i> vestigial gene. <i>Nature</i> , 1996, 382, 133-138.	13.7	463
12	Genetic control and evolution of sexually dimorphic characters in <i>Drosophila</i> . <i>Nature</i> , 2000, 408, 553-559.	13.7	413
13	Gene duplication and the adaptive evolution of a classic genetic switch. <i>Nature</i> , 2007, 449, 677-681.	13.7	409
14	Recruitment of a hedgehog Regulatory Circuit in Butterfly Eyespot Evolution. <i>Science</i> , 1999, 283, 532-534.	6.0	335
15	Genetics and the making of <i>Homo sapiens</i> . <i>Nature</i> , 2003, 422, 849-857.	13.7	324
16	The Regulation and Evolution of a Genetic Switch Controlling Sexually Dimorphic Traits in <i>Drosophila</i> . <i>Cell</i> , 2008, 134, 610-623.	13.5	287
17	Reciprocal functions of the <i>Drosophila</i> Yellow and Ebony proteins in the development and evolution of pigment patterns. <i>Development (Cambridge)</i> , 2002, 129, 1849-1858.	1.2	286
18	The Evolution of Gene Regulation Underlies a Morphological Difference between Two <i>Drosophila</i> Sister Species. <i>Cell</i> , 2008, 132, 783-793.	13.5	269

#	ARTICLE	IF	CITATIONS
19	Stepwise Modification of a Modular Enhancer Underlies Adaptation in a <i>Drosophila</i> Population. <i>Science</i> , 2009, 326, 1663-1667.	6.0	259
20	Wax, sex and the origin of species: Dual roles of insect cuticular hydrocarbons in adaptation and mating. <i>BioEssays</i> , 2015, 37, 822-830.	1.2	237
21	Organization of wing formation and induction of a wing-patterning gene at the dorsal/ventral compartment boundary. <i>Nature</i> , 1994, 368, 299-305.	13.7	236
22	Generation of a novel wing colour pattern by the Wingless morphogen. <i>Nature</i> , 2010, 464, 1143-1148.	13.7	222
23	Evolution of homeotic gene regulation and function in flies and butterflies. <i>Nature</i> , 1994, 372, 458-461.	13.7	201
24	Conservation of wingless patterning functions in the short-germ embryos of <i>Tribolium castaneum</i> . <i>Nature</i> , 1994, 367, 460-463.	13.7	137
25	The Deep Origin and Recent Loss of Venom Toxin Genes in Rattlesnakes. <i>Current Biology</i> , 2016, 26, 2434-2445.	1.8	127
26	Evolutionary origin of a novel gene expression pattern through co-option of the latent activities of existing regulatory sequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10036-10043.	3.3	112
27	The <i>achaete-scute</i> complex: generation of cellular pattern and fate within the <i>Drosophila</i> nervous system. <i>FASEB Journal</i> , 1994, 8, 714-721.	0.2	102
28	Gain of <i>cis</i> -regulatory activities underlies novel domains of <i>wingless</i> gene expression in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7524-7529.	3.3	95
29	Expression of tandem gene duplicates is often greater than twofold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5988-5992.	3.3	76
30	Fringe forms a complex with Notch. <i>Nature</i> , 2000, 405, 191-195.	13.7	73
31	Rattlesnake and Scorpion Antivenoms from the Egg Yolks of Immunized Hens. <i>Nature Biotechnology</i> , 1990, 8, 934-938.	9.4	62
32	The origin and diversification of a novel protein family in venomous snakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10911-10920.	3.3	62
33	The origin, patterning and evolution of insect appendages. <i>BioEssays</i> , 1993, 15, 567-577.	1.2	53
34	Birth-and-Death Evolution of the Fatty Acyl-CoA Reductase (FAR) Gene Family and Diversification of Cuticular Hydrocarbon Synthesis in <i>Drosophila</i> . <i>Genome Biology and Evolution</i> , 2019, 11, 1541-1551.	1.1	44
35	Extremely Divergent Haplotypes in Two Toxin Gene Complexes Encode Alternative Venom Types within Rattlesnake Species. <i>Current Biology</i> , 2018, 28, 1016-1026.e4.	1.8	41
36	The big picture. <i>Nature</i> , 2001, 409, 669-669.	13.7	31

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37	Developmental regulatory mechanisms in the evolution of insect diversity. <i>Development (Cambridge)</i> , 1994, 1994, 217-223.	1.2	27
38	A major role for noncoding regulatory mutations in the evolution of enzyme activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12383-12389.	3.3	21
39	EVOLUTION: God as Genetic Engineer. <i>Science</i> , 2007, 316, 1427-1428.	6.0	10
40	Sex, lies and butterflies. <i>Nature</i> , 2014, 507, 172-173.	13.7	9
41	How Great Wings Can Look Alike. <i>Science</i> , 2011, 333, 1100-1101.	6.0	5
42	Pigmentation and mate choice in <i>Drosophila</i> . <i>Nature</i> , 2002, 419, 360-360.	13.7	3
43	Evo&Devo and an Expanding Evolutionary Synthesis. <i>FASEB Journal</i> , 2015, 29, 14.1.	0.2	1
44	Stephen Jay Gould (1941&2002). <i>Developmental Cell</i> , 2002, 3, 21-23.	3.1	0
45	Evo&Devo and an Expanding Evolutionary Synthesis. <i>FASEB Journal</i> , 2013, 27, 194.1.	0.2	0