

# 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  | 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.  | 3.3  | 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.  | 3.3  | 21        |
| 3  | Birth-and-Death Evolution of the Fatty Acyl-CoA Reductase (FAR) Gene Family and Diversification of Cuticular Hydrocarbon Synthesis in <i>Drosophila</i> . Genome Biology and Evolution, 2019, 11, 1541-1551.                                 | 1.1  | 44        |
| 4  | Extremely Divergent Haplotypes in Two Toxin Gene Complexes Encode Alternative Venom Types within Rattlesnake Species. Current Biology, 2018, 28, 1016-1026.e4.   | 1.8  | 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.   | 3.3  | 76        |
| 6  | The Deep Origin and Recent Loss of Venom Toxin Genes in Rattlesnakes. Current Biology, 2016, 26, 2434-2445.  | 1.8  | 127       |
| 7  | Wax, sex and the origin of species: Dual roles of insect cuticular hydrocarbons in adaptation and mating. BioEssays, 2015, 37, 822-830.  | 1.2  | 237       |
| 8  | Gain of <i>cis</i> -regulatory activities underlies novel domains of <i>wingless</i> gene expression in <i>Drosophila</i> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7524-7529.           | 3.3  | 95        |
| 9  | Evo-Devo and an Expanding Evolutionary Synthesis. FASEB Journal, 2015, 29, 14.1.   | 0.2  | 1         |
| 10 | Sex, lies and butterflies. Nature, 2014, 507, 172-173.   | 13.7 | 9         |
| 11 | Evo-Devo and an Expanding Evolutionary Synthesis. FASEB Journal, 2013, 27, 194.1.  | 0.2  | 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. | 3.3  | 112       |
| 13 | How Great Wings Can Look Alike. Science, 2011, 333, 1100-1101.   | 6.0  | 5         |
| 14 | Generation of a novel wing colour pattern by the Wingless morphogen. Nature, 2010, 464, 1143-1148.   | 13.7 | 222       |
| 15 | Stepwise Modification of a Modular Enhancer Underlies Adaptation in a <i>Drosophila</i> Population. Science, 2009, 326, 1663-1667.   | 6.0  | 259       |
| 16 | The Evolution of Gene Regulation Underlies a Morphological Difference between Two <i>Drosophila</i> Sister Species. Cell, 2008, 132, 783-793.  | 13.5 | 269       |
| 17 | Evo-Devo and an Expanding Evolutionary Synthesis: A Genetic Theory of Morphological Evolution. Cell, 2008, 134, 25-36.   | 13.5 | 1,729     |
| 18 | The Regulation and Evolution of a Genetic Switch Controlling Sexually Dimorphic Traits in <i>Drosophila</i> . Cell, 2008, 134, 610-623.  | 13.5 | 287       |

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|----|--|------|-----------|
| 19 | EVOLUTION: God as Genetic Engineer. <i>Science</i> , 2007, 316, 1427-1428.   | 6.0  | 10        |
| 20 | Gene duplication and the adaptive evolution of a classic genetic switch. <i>Nature</i> , 2007, 449, 677-681.   | 13.7 | 409       |
| 21 | Repeated morphological evolution through cis-regulatory changes in a pleiotropic gene. <i>Nature</i> , 2006, 440, 1050-1053.   | 13.7 | 475       |
| 22 | 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       |
| 23 | Evolution at Two Levels: On Genes and Form. <i>PLoS Biology</i> , 2005, 3, e245.   | 2.6  | 740       |
| 24 | Genetics and the making of <i>Homo sapiens</i> . <i>Nature</i> , 2003, 422, 849-857.   | 13.7 | 324       |
| 25 | Stephen Jay Gould (1941–2002). <i>Developmental Cell</i> , 2002, 3, 21-23.   | 3.1  | 0         |
| 26 | Pigmentation and mate choice in <i>Drosophila</i> . <i>Nature</i> , 2002, 419, 360-360.  | 13.7 | 3         |
| 27 | 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       |
| 28 | The big picture. <i>Nature</i> , 2001, 409, 669-669.   | 13.7 | 31        |
| 29 | Chance and necessity: the evolution of morphological complexity and diversity. <i>Nature</i> , 2001, 409, 1102-1109.   | 13.7 | 478       |
| 30 | Fringe forms a complex with Notch. <i>Nature</i> , 2000, 405, 191-195.   | 13.7 | 73        |
| 31 | Genetic control and evolution of sexually dimorphic characters in <i>Drosophila</i> . <i>Nature</i> , 2000, 408, 553-559.  | 13.7 | 413       |
| 32 | Hox genes in brachiopods and priapulids and protostome evolution. <i>Nature</i> , 1999, 399, 772-776.  | 13.7 | 516       |
| 33 | Recruitment of a hedgehog Regulatory Circuit in Butterfly Eyespot Evolution. <i>Science</i> , 1999, 283, 532-534.  | 6.0  | 335       |
| 34 | <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       |
| 35 | Fossils, genes and the evolution of animal limbs. <i>Nature</i> , 1997, 388, 639-648.  | 13.7 | 750       |
| 36 | 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       |

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|----|---|------|-----------|
| 37 | Development, plasticity and evolution of butterfly eyespot patterns. <i>Nature</i> , 1996, 384, 236-242.  | 13.7 | 505       |
| 38 | Homeotic genes and the evolution of arthropods and chordates. <i>Nature</i> , 1995, 376, 479-485.   | 13.7 | 698       |
| 39 | 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       |
| 40 | 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       |
| 41 | Evolution of homeotic gene regulation and function in flies and butterflies. <i>Nature</i> , 1994, 372, 458-461.  | 13.7 | 201       |
| 42 | 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       |
| 43 | Developmental regulatory mechanisms in the evolution of insect diversity. <i>Development (Cambridge)</i> , 1994, 1994, 217-223.                                 | 1.2  | 27        |
| 44 | The origin, patterning and evolution of insect appendages. <i>BioEssays</i> , 1993, 15, 567-577.  | 1.2  | 53        |
| 45 | Rattlesnake and Scorpion Antivenoms from the Egg Yolks of Immunized Hens. <i>Nature Biotechnology</i> , 1990, 8, 934-938.                                       | 9.4  | 62        |