# James A Shapiro

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 43 papers | 2,327 citations | 20 h-index | 48 g-index |
| 49 ext. papers | 2,635 ext. citations | 5 avg, IF | 5.84 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 43 | What we have learned about evolutionary genome change in the past 7 decades.. *BioSystems*, **2022**, 104669 | 1.9 | 0 |
| 42 | All living cells are cognitive. *Biochemical and Biophysical Research Communications*, **2021**, 564, 134-149 | 3.4 | 4 |
| 41 | How Chaotic Is Genome Chaos?. *Cancers*, **2021**, 13, | 6.6 | 2 |
| 40 | Response to Denis Noble's Article "The Illusions of the Modern Synthesis," Biosemiotics. *Biosemiotics*, **2021**, 14, 73-78 | 1.1 | 1 |
| 39 | What can evolutionary biology learn from cancer biology?. *Progress in Biophysics and Molecular Biology*, **2021**, 165, 19-28 | 4.7 | 5 |
| 38 | How should we think about evolution in the age of genomics? **2021**, 1-44 | | |
| 37 | The active role of spermatozoa in transgenerational inheritance. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191263 | 4.4 | 9 |
| 36 | No genome is an island: toward a 21st century agenda for evolution. *Annals of the New York Academy of Sciences*, **2019**, 1447, 21-52 | 6.5 | 20 |
| 35 | Biological action in Read-Write genome evolution. *Interface Focus*, **2017**, 7, 20160115 | 3.9 | 21 |
| 34 | Exploring the read-write genome: mobile DNA and mammalian adaptation. *Critical Reviews in Biochemistry and Molecular Biology*, **2017**, 52, 1-17 | 8.7 | 20 |
| 33 | Living Organisms Author Their Read-Write Genomes in Evolution. *Biology*, **2017**, 6, | 4.9 | 28 |
| 32 | The basic concept of the read-write genome: Mini-review on cell-mediated DNA modification. *BioSystems*, **2016**, 140, 35-7 | 1.9 | 19 |
| 31 | Nothing in Evolution Makes Sense Except in the Light of Genomics: Read-Write Genome Evolution as an Active Biological Process. *Biology*, **2016**, 5, | 4.9 | 13 |
| 30 | Physiology of the read-write genome. *Journal of Physiology*, **2014**, 592, 2319-41 | 3.9 | 3 |
| 29 | Epigenetic control of mobile DNA as an interface between experience and genome change. *Frontiers in Genetics*, **2014**, 5, 87 | 4.5 | 11 |
| 28 | Constraint and opportunity in genome innovation. *RNA Biology*, **2014**, 11, 186-96 | 4.8 | 4 |
| 27 | How life changes itself: the Read-Write (RW) genome. *Physics of Life Reviews*, **2013**, 10, 287-323 | 2.1 | 67 |

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| 26 | Rethinking the (im)possible in evolution. *Progress in Biophysics and Molecular Biology*, **2013**, 111, 92-6 | 4.7 | 15 |
| 25 | Implications of the Read-Write Genome view. *Physics of Life Reviews*, **2013**, 10, 347-50 | 2.1 | |
| 24 | Mobile DNA and evolution in the 21st century. *Mobile DNA*, **2010**, 1, 4 | 4.4 | 60 |
| 23 | Revisiting the central dogma in the 21st century. *Annals of the New York Academy of Sciences*, **2009**, 1178, 6-28 | 6.5 | 93 |
| 22 | Letting Escherichia coli teach me about genome engineering. *Genetics*, **2009**, 183, 1205-14 | 4 | 11 |
| 21 | A Twenty-First Century View of Evolution: Genome System Architecture, Repetitive DNA, and Natural Genetic Engineering **2007**, 129-147 | | |
| 20 | Genome Informatics: The Role of DNA in Cellular Computations. *Biological Theory*, **2006**, 1, 288-301 | 1.7 | 23 |
| 19 | A 21st century view of evolution: genome system architecture, repetitive DNA, and natural genetic engineering. *Gene*, **2005**, 345, 91-100 | 3.8 | 85 |
| 18 | Retrotransposons and regulatory suites. *BioEssays*, **2005**, 27, 122-5 | 4.1 | 24 |
| 17 | Thinking About Evolution in Terms of Cellular Computing. *Natural Computing*, **2005**, 4, 297-324 | 1.3 | 2 |
| 16 | Why repetitive DNA is essential to genome function. *Biological Reviews*, **2005**, 80, 227-50 | 13.5 | 190 |
| 15 | Genome organization and reorganization in evolution: formatting for computation and function. *Annals of the New York Academy of Sciences*, **2002**, 981, 111-34 | 6.5 | 28 |
| 14 | Repetitive DNA, genome system architecture and genome reorganization. *Research in Microbiology*, **2002**, 153, 447-53 | 4 | 18 |
| 13 | Starvation-induced Mucts62-mediated coding sequence fusion: a role for ClpXP, Lon, RpoS and Crp. *Molecular Microbiology*, **1999**, 32, 327-43 | 4.1 | 56 |
| 12 | Differential fiu-lacZ fusion regulation linked to Escherichia coli colony development. *Molecular Microbiology*, **1999**, 33, 18-32 | 4.1 | 20 |
| 11 | Genome system architecture and natural genetic engineering in evolution. *Annals of the New York Academy of Sciences*, **1999**, 870, 23-35 | 6.5 | 59 |
| 10 | Transposable elements as the key to a 21st century view of evolution **1999**, 107, 171-179 | | 56 |
| 9 | Thinking about bacterial populations as multicellular organisms. *Annual Review of Microbiology*, **1998**, 52, 81-104 | 17.5 | 669 |

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|---|---|---|---|
| 8 | Different structures of selected and unselected araB-lacZ fusions. *Molecular Microbiology*, **1997**, 23, 1133-45 | 4.1 | 19 |
| 7 | Adaptive mutation: who's really in the garden?. *Science*, **1995**, 268, 373-4 | 33.3 | 45 |
| 6 | The significances of bacterial colony patterns. *BioEssays*, **1995**, 17, 597-607 | 4.1 | 151 |
| 5 | Barbara McClintock, 1902-1992. *BioEssays*, **1992**, 14, 791-2 | 4.1 | 6 |
| 4 | Observations on the formation of clones containing araB-lacZ cistron fusions. *Molecular Genetics and Genomics*, **1984**, 194, 79-90 | | 163 |
| 3 | Transposable genetic elements. *Scientific American*, **1980**, 242, 40-9 | 0.5 | 50 |
| 2 | The galactose operon of E. coli K-12. I. Structural and pleiotropic mutations of the operon. *Genetics*, **1969**, 62, 231-47 | 4 | 115 |
| 1 | The galactose operon of E. coli K-12. II. A deletion analysis of operon structure and polarity. *Genetics*, **1969**, 62, 249-64 | 4 | 133 |