

# Christoph Adami

## List of Publications by Year in descending order

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Version: 2024-02-01

149  
papers

9,120  
citations

57758

44  
h-index

46799

89  
g-index

160  
all docs

160  
docs citations

160  
times ranked

6707  
citing authors

| #  | ARTICLE                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Making Artificial Brains: Components, Topology, and Optimization. <i>Artificial Life</i> , 2022, , 1-10.                                                                                          | 1.3 | 1         |
| 2  | Emergence of functional information from multivariate correlations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, .                   | 3.4 | 1         |
| 3  | Information Fragmentation, Encryption and Information Flow in Complex Biological Networks. <i>Entropy</i> , 2022, 24, 735.                                                                        | 2.2 | 3         |
| 4  | Information-theoretic characterization of the complete genotype-phenotype map of a complex pre-biotic world. <i>Physics of Life Reviews</i> , 2021, 38, 111-114.                                  | 2.8 | 2         |
| 5  | Escape from the Prisoner's Dilemma. <i>Inference</i> , 2021, 6, .                                                                                                                                 | 0.0 | 0         |
| 6  | A Brief History of Artificial Intelligence Research. <i>Artificial Life</i> , 2021, 27, 131-137.                                                                                                  | 1.3 | 5         |
| 7  | The Evolutionary Origin of Associative Learning. <i>American Naturalist</i> , 2020, 195, E1-E19.                                                                                                  | 2.1 | 14        |
| 8  | Markovian and Non-Markovian Quantum Measurements. <i>Foundations of Physics</i> , 2020, 50, 1008-1055.                                                                                            | 1.3 | 3         |
| 9  | The Surprising Creativity of Digital Evolution: A Collection of Anecdotes from the Evolutionary Computation and Artificial Life Research Communities. <i>Artificial Life</i> , 2020, 26, 274-306. | 1.3 | 88        |
| 10 | Moderate Amounts of Epistasis are Not Evolutionarily Stable in Small Populations. <i>Journal of Molecular Evolution</i> , 2020, 88, 435-444.                                                      | 1.8 | 6         |
| 11 | Can Transfer Entropy Infer Information Flow in Neuronal Circuits for Cognitive Processing?. <i>Entropy</i> , 2020, 22, 385.                                                                       | 2.2 | 8         |
| 12 | Cryptic Information Transfer in Differently-Trained Recurrent Neural Networks. , 2020, , .                                                                                                        |     | 5         |
| 13 | Mapping the Peaks: Fitness Landscapes of the Fittest and the Flattest. <i>Artificial Life</i> , 2019, 25, 250-262.                                                                                | 1.3 | 4         |
| 14 | The structure of evolved representations across different substrates for artificial intelligence. , 2018, , .                                                                                     |     | 8         |
| 15 | Evolution leads to a diversity of motion-detection neuronal circuits. , 2018, , .                                                                                                                 |     | 1         |
| 16 | Thermodynamics of evolutionary games. <i>Physical Review E</i> , 2018, 97, 062136.                                                                                                                | 2.1 | 16        |
| 17 | Quantum information theory of the Bell-state quantum eraser. <i>Physical Review A</i> , 2017, 95, .                                                                                               | 2.5 | 6         |
| 18 | Origin of life in a digital microcosm. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160350.                                        | 3.4 | 3         |

| #  | ARTICLE                                                                                                                                                     | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Evolution of drift robustness in small populations. Nature Communications, 2017, 8, 1012.                                                                   | 12.8 | 33        |
| 20 | A genome wide dosage suppressor network reveals genomic robustness. Nucleic Acids Research, 2017, 45, 255-270.                                              | 14.5 | 13        |
| 21 | The evolution of logic circuits for the purpose of protein contact map prediction. PeerJ, 2017, 5, e3139.                                                   | 2.0  | 5         |
| 22 | Information-Theoretic Neuro-Correlates Boost Evolution of Cognitive Systems. Entropy, 2016, 18, 6.                                                          | 2.2  | 15        |
| 23 | Different Evolutionary Paths to Complexity for Small and Large Populations of Digital Organisms. PLoS Computational Biology, 2016, 12, e1005066.            | 3.2  | 21        |
| 24 | Evolution of Genome Size in Asexual Digital Organisms. Scientific Reports, 2016, 6, 25786.                                                                  | 3.3  | 17        |
| 25 | Evolutionary game theory using agent-based methods. Physics of Life Reviews, 2016, 19, 1-26.                                                                | 2.8  | 143       |
| 26 | Evolution of sustained foraging in three-dimensional environments with physics. Genetic Programming and Evolvable Machines, 2016, 17, 359-390.              | 2.2  | 3         |
| 27 | One-Shot Decoupling and Page Curves from a Dynamical Model for Black Hole Evaporation. Physical Review Letters, 2016, 116, 101301.                          | 7.8  | 8         |
| 28 | The reasonable effectiveness of agent-based simulations in evolutionary game theory. Physics of Life Reviews, 2016, 19, 38-42.                              | 2.8  | 7         |
| 29 | Evolvability Tradeoffs in Emergent Digital Replicators. Artificial Life, 2016, 22, 483-498.                                                                 | 1.3  | 5         |
| 30 | Evolution of Swarming Behavior Is Shaped by How Predators Attack. Artificial Life, 2016, 22, 299-318.                                                       | 1.3  | 29        |
| 31 | What is information? <sup>&lt;sup /&gt;</sup> . Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150230. | 3.4  | 41        |
| 32 | Strong Selection Significantly Increases Epistatic Interactions in the Long-Term Evolution of a Protein. PLoS Genetics, 2016, 12, e1005960.                 | 3.5  | 29        |
| 33 | Flies as Ship Captains? Digital Evolution Unravels Selective Pressures to Avoid Collision in Drosophila. , 2016, , .                                        |      | 3         |
| 34 | Evolution of Active Categorical Image Classification via Saccadic Eye Movement. Lecture Notes in Computer Science, 2016, , 581-590.                         | 1.3  | 3         |
| 35 | Exploring the coevolution of predator and prey morphology and behavior. , 2016, , .                                                                         |      | 2         |
| 36 | Shared Information between Residues Is Sufficient to Detect Pairwise Epistasis in a Protein. PLoS Genetics, 2016, 12, e1006471.                             | 3.5  | 0         |

| #  | ARTICLE                                                                                                                                                                                                                        | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Exploring the evolution of a trade-off between vigilance and foraging in group-living organisms. Royal Society Open Science, 2015, 2, 150135.                                                                                  | 2.4  | 40        |
| 38 | The Engine of Complexity: Evolution as Computation. By John E. Mayfield. New York: Columbia University Press. \$34.50. xv + 398 p.; ill.; index. ISBN: 978-0-231-16304-0. 2013.. Quarterly Review of Biology, 2015, 90, 90-91. | 0.1  | 0         |
| 39 | Black holes as bosonic Gaussian channels. Physical Review D, 2015, 92, .                                                                                                                                                       | 4.7  | 12        |
| 40 | Discovery and information-theoretic characterization of transcription factor binding sites that act cooperatively. Physical Biology, 2015, 12, 056004.                                                                         | 1.8  | 3         |
| 41 | Punishment in public goods games leads to meta-stable phase transitions and hysteresis. Physical Biology, 2015, 12, 046005.                                                                                                    | 1.8  | 21        |
| 42 | Differentially-Expressed Pseudogenes in HIV-1 Infection. Viruses, 2015, 7, 5191-5205.                                                                                                                                          | 3.3  | 12        |
| 43 | Robots with instincts. Nature, 2015, 521, 426-427.                                                                                                                                                                             | 27.8 | 35        |
| 44 | Black holes are almost optimal quantum cloners. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 23FT01.                                                                                                          | 2.1  | 5         |
| 45 | Information-Theoretic Considerations Concerning the Origin of Life. Origins of Life and Evolution of Biospheres, 2015, 45, 309-317.                                                                                            | 1.9  | 20        |
| 46 | Risk sensitivity as an evolutionary adaptation. Scientific Reports, 2015, 5, 8242.                                                                                                                                             | 3.3  | 43        |
| 47 | Evolution of Integrated Causal Structures in Animats Exposed to Environments of Increasing Complexity. PLoS Computational Biology, 2014, 10, e1003966.                                                                         | 3.2  | 71        |
| 48 | Classical information transmission capacity of quantum black holes. Classical and Quantum Gravity, 2014, 31, 075015.                                                                                                           | 4.0  | 15        |
| 49 | Trade-offs drive resource specialization and the gradual establishment of ecotypes. BMC Evolutionary Biology, 2014, 14, 113.                                                                                                   | 3.2  | 9         |
| 50 | The capacity of black holes to transmit quantum information. Journal of High Energy Physics, 2014, 2014, 1.                                                                                                                    | 4.7  | 19        |
| 51 | Predicting Evolution and Visualizing High-Dimensional Fitness Landscapes. Emergence, Complexity and Computation, 2014, , 509-526.                                                                                              | 0.3  | 13        |
| 52 | Evolutionary instability of zero-determinant strategies demonstrates that winning is not everything. Nature Communications, 2013, 4, 2193.                                                                                     | 12.8 | 150       |
| 53 | The Evolution of Representation in Simple Cognitive Networks. Neural Computation, 2013, 25, 2079-2107.                                                                                                                         | 2.2  | 57        |
| 54 | Critical interplay between density-dependent predation and evolution of the selfish herd. , 2013, , .                                                                                                                          |      | 14        |

| #  | ARTICLE                                                                                                                                                                     | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Predator confusion is sufficient to evolve swarming behaviour. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130305.                                          | 3.4  | 111       |
| 56 | <i>Artificial Evolution.</i> , 2013, , 39-42.                                                                                                                               |      | 0         |
| 57 | Impact of epistasis and pleiotropy on evolutionary adaptation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 247-256.                         | 2.6  | 85        |
| 58 | Adaptive walks on the fitness landscape of music. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11898-11899.          | 7.1  | 2         |
| 59 | Evolution and stability of altruist strategies in microbial games. <i>Physical Review E</i> , 2012, 85, 011914.                                                             | 2.1  | 21        |
| 60 | Sequence dependence of isothermal DNA amplification via EXPAR. <i>Nucleic Acids Research</i> , 2012, 40, e87-e87.                                                           | 14.5 | 96        |
| 61 | The use of information theory in evolutionary biology. <i>Annals of the New York Academy of Sciences</i> , 2012, 1256, 49-65.                                               | 3.8  | 72        |
| 62 | Robust Monomer-Distribution Biosignatures in Evolving Digital Biota. <i>Astrobiology</i> , 2011, 11, 959-968.                                                               | 3.0  | 4         |
| 63 | Monomer Abundance Distribution Patterns as a Universal Biosignature: Examples from Terrestrial and Digital Life. <i>Journal of Molecular Evolution</i> , 2011, 72, 283-295. | 1.8  | 38        |
| 64 | Information Content of Colored Motifs in Complex Networks. <i>Artificial Life</i> , 2011, 17, 375-390.                                                                      | 1.3  | 25        |
| 65 | Integrated Information Increases with Fitness in the Evolution of Animats. <i>PLoS Computational Biology</i> , 2011, 7, e1002236.                                           | 3.2  | 84        |
| 66 | Toward a Fully Relativistic Theory of Quantum Information. , 2011, , 71-102.                                                                                                |      | 3         |
| 67 | Colored Motifs Reveal Computational Building Blocks in the <i>C. elegans</i> Brain. <i>PLoS ONE</i> , 2011, 6, e17013.                                                      | 2.5  | 28        |
| 68 | Modularity and anti-modularity in networks with arbitrary degree distribution. <i>Biology Direct</i> , 2010, 5, 32.                                                         | 4.6  | 16        |
| 69 | Critical Dynamics in the Evolution of Stochastic Strategies for the Iterated Prisoner's Dilemma. <i>PLoS Computational Biology</i> , 2010, 6, e1000948.                     | 3.2  | 23        |
| 70 | Measuring Representation. , 2010, , .                                                                                                                                       |      | 1         |
| 71 | Evolution of Complex Modular Biological Networks. <i>PLoS Computational Biology</i> , 2008, 4, e23.                                                                         | 3.2  | 145       |
| 72 | PHILOSOPHY OF MIND: Who Watches the Watcher?. <i>Science</i> , 2007, 316, 1125-1126.                                                                                        | 12.6 | 0         |

| #  | ARTICLE                                                                                                                                                                                                                                       | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Evolving Virtual Creatures and Catapults. <i>Artificial Life</i> , 2007, 13, 139-157.                                                                                                                                                         | 1.3  | 46        |
| 74 | Information Theory, Evolution, and the Origin of Life. By Hubert Yockey. Cambridge and New York: Cambridge University Press. \$60.00. xi + 259 p; ill.; index. ISBN: 0521802938. 2005.. <i>Quarterly Review of Biology</i> , 2006, 81, 62-62. | 0.1  | 0         |
| 75 | COMPUTER SCIENCE: What Do Robots Dream Of?. <i>Science</i> , 2006, 314, 1093-1094.                                                                                                                                                            | 12.6 | 48        |
| 76 | Digital genetics: unravelling the genetic basis of evolution. <i>Nature Reviews Genetics</i> , 2006, 7, 109-118.                                                                                                                              | 16.3 | 103       |
| 77 | Selection for mutational robustness in finite populations. <i>Journal of Theoretical Biology</i> , 2006, 243, 181-190.                                                                                                                        | 1.7  | 35        |
| 78 | EVOLUTION: Reducible Complexity. <i>Science</i> , 2006, 312, 61-63.                                                                                                                                                                           | 12.6 | 20        |
| 79 | Three Weeks with Hans Bethe. , 2006, , 45-110.                                                                                                                                                                                                |      | 2         |
| 80 | Random matrix model of adiabatic quantum computing. <i>Physical Review A</i> , 2005, 71, .                                                                                                                                                    | 2.5  | 10        |
| 81 | Why highly expressed proteins evolve slowly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14338-14343.                                                                                 | 7.1  | 738       |
| 82 | Evolutionary computation technologies for space systems. , 2005, , .                                                                                                                                                                          |      | 25        |
| 83 | Thermodynamic prediction of protein neutrality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 606-611.                                                                                  | 7.1  | 320       |
| 84 | Adaptive Radiation from Resource Competition in Digital Organisms. <i>Science</i> , 2004, 305, 84-86.                                                                                                                                         | 12.6 | 110       |
| 85 | Evolution of Robustness in Digital Organisms. <i>Artificial Life</i> , 2004, 10, 167-179.                                                                                                                                                     | 1.3  | 32        |
| 86 | Experiments in Digital Evolution (Editors' Introduction to the Special Issue). <i>Artificial Life</i> , 2004, 10, 117-122.                                                                                                                    | 1.3  | 7         |
| 87 | Bifurcation into Functional Niches in Adaptation. <i>Artificial Life</i> , 2004, 10, 135-144.                                                                                                                                                 | 1.3  | 5         |
| 88 | Influence of Chance, History, and Adaptation on Digital Evolution. <i>Artificial Life</i> , 2004, 10, 181-190.                                                                                                                                | 1.3  | 26        |
| 89 | Evolutionary rate depends on number of protein-protein interactions independently of gene expression level: response. <i>BMC Evolutionary Biology</i> , 2004, 4, 14.                                                                          | 3.2  | 48        |
| 90 | Information theory in molecular biology. <i>Physics of Life Reviews</i> , 2004, 1, 3-22.                                                                                                                                                      | 2.8  | 171       |

| #   | ARTICLE                                                                                                                                                                          | IF   | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | Towards photostatistics from photon-number discriminating detectors. Journal of Modern Optics, 2004, 51, 1517-1528.                                                              | 1.3  | 36        |
| 92  | Stability and the Evolvability of Function in a Model Protein. Biophysical Journal, 2004, 86, 2758-2764.                                                                         | 0.5  | 95        |
| 93  | Modelling Stochastic Clonal Interference. Natural Computing Series, 2004, , 21-38.                                                                                               | 2.2  | 6         |
| 94  | Towards photostatistics from photon-number discriminating detectors. Journal of Modern Optics, 2004, 51, 1517-1528.                                                              | 1.3  | 4         |
| 95  | Apparent dependence of protein evolutionary rate on number of interactions is linked to biases in protein-protein interactions data sets. BMC Evolutionary Biology, 2003, 3, 21. | 3.2  | 123       |
| 96  | Compensatory mutations cause excess of antagonistic epistasis in RNA secondary structure folding. BMC Evolutionary Biology, 2003, 3, 3.                                          | 3.2  | 61        |
| 97  | Evolution of mutational robustness. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2003, 522, 3-11.                                                    | 1.0  | 116       |
| 98  | The evolutionary origin of complex features. Nature, 2003, 423, 139-144.                                                                                                         | 27.8 | 643       |
| 99  | Selective pressures on genomes in molecular evolution. Journal of Theoretical Biology, 2003, 222, 477-483.                                                                       | 1.7  | 51        |
| 100 | Entangled light in moving frames. Physical Review A, 2003, 68, .                                                                                                                 | 2.5  | 64        |
| 101 | Entangled light in moving frames. , 2003, , .                                                                                                                                    |      | 4         |
| 102 | Critical and near-critical branching processes. Physical Review E, 2002, 66, 011907.                                                                                             | 2.1  | 24        |
| 103 | Quantum Entanglement of Moving Bodies. Physical Review Letters, 2002, 89, 270402.                                                                                                | 7.8  | 234       |
| 104 | Design of evolvable computer languages. IEEE Transactions on Evolutionary Computation, 2002, 6, 420-424.                                                                         | 10.0 | 27        |
| 105 | The biology of digital organisms. Trends in Ecology and Evolution, 2002, 17, 528-532.                                                                                            | 8.7  | 86        |
| 106 | What is complexity?. BioEssays, 2002, 24, 1085-1094.                                                                                                                             | 2.5  | 306       |
| 107 | Viral evolution under the pressure of an adaptive immune system: Optimal mutation rates for viral escape. Complexity, 2002, 8, 28-33.                                            | 1.6  | 44        |
| 108 | Sequence complexity in Darwinian evolution. Complexity, 2002, 8, 49-56.                                                                                                          | 1.6  | 30        |

| #   | ARTICLE                                                                                                                                                            | IF   | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Optimal adaptive performance and delocalization in NK fitness landscapes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 304, 495-506.       | 2.6  | 28        |
| 110 | Evolution of Genetic Organization in Digital Organisms. <i>Natural Computing Series</i> , 2002, , 296-313.                                                         | 2.2  | 5         |
| 111 | Evolution of digital organisms at high mutation rates leads to survival of the flattest. <i>Nature</i> , 2001, 412, 331-333.                                       | 27.8 | 548       |
| 112 | Interaction between directional epistasis and average mutational effects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1469-1474.   | 2.6  | 100       |
| 113 | Complex Langevin equation and the many-fermion problem. <i>Physical Review C</i> , 2001, 63, .                                                                     | 2.9  | 12        |
| 114 | Physical complexity of symbolic sequences. <i>Physica D: Nonlinear Phenomena</i> , 2000, 137, 62-69.                                                               | 2.8  | 107       |
| 115 | Open Problems in Artificial Life. <i>Artificial Life</i> , 2000, 6, 363-376.                                                                                       | 1.3  | 235       |
| 116 | A Developmental Model for the Evolution of Artificial Neural Networks. <i>Artificial Life</i> , 2000, 6, 189-218.                                                  | 1.3  | 68        |
| 117 | Evolution of biological complexity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 4463-4468.                  | 7.1  | 435       |
| 118 | A simple explanation for taxon abundance patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 15017-15019. | 7.1  | 29        |
| 119 | Quantum extension of conditional probability. <i>Physical Review A</i> , 1999, 60, 893-897.                                                                        | 2.5  | 65        |
| 120 | Reduction criterion for separability. <i>Physical Review A</i> , 1999, 60, 898-909.                                                                                | 2.5  | 118       |
| 121 | Genome complexity, robustness and genetic interactions in digital organisms. <i>Nature</i> , 1999, 400, 661-664.                                                   | 27.8 | 255       |
| 122 | Evolution of Differentiated Expression Patterns in Digital Organisms. <i>Lecture Notes in Computer Science</i> , 1999, , 129-138.                                  | 1.3  | 4         |
| 123 | Information theory of quantum entanglement and measurement. <i>Physica D: Nonlinear Phenomena</i> , 1998, 120, 62-81.                                              | 2.8  | 99        |
| 124 | Optical simulation of quantum logic. <i>Physical Review A</i> , 1998, 57, R1477-R1480.                                                                             | 2.5  | 262       |
| 125 | Introduction to Artificial Life. , 1998, , .                                                                                                                       |      | 264       |
| 126 | Negative Entropy in Quantum Information Theory. , 1997, , 77-84.                                                                                                   |      | 36        |



| #   | ARTICLE                                                                                                                                                                         | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 127 | von Neumann capacity of noisy quantum channels. <i>Physical Review A</i> , 1997, 56, 3470-3483.                                                                                 | 2.5  | 152       |
| 128 | Negative Entropy and Information in Quantum Mechanics. <i>Physical Review Letters</i> , 1997, 79, 5194-5197.                                                                    | 7.8  | 324       |
| 129 | Learning and complexity in genetic auto-adaptive systems. <i>Physica D: Nonlinear Phenomena</i> , 1995, 80, 154-170.                                                            | 2.8  | 28        |
| 130 | Self-organized criticality in living systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 203, 29-32.                                    | 2.1  | 73        |
| 131 | Abundance-distributions in artificial life and stochastic models: "age and area" revisited. <i>Lecture Notes in Computer Science</i> , 1995, , 503-514.                         | 1.3  | 3         |
| 132 | On Modeling Life. <i>Artificial Life</i> , 1994, 1, 429-438.                                                                                                                    | 1.3  | 9         |
| 133 | Matter under extreme conditions. <i>Physics Reports</i> , 1993, 234, 1-71.                                                                                                      | 25.6 | 88        |
| 134 | Isospin violation in QCD sum rules for baryons. <i>Physical Review D</i> , 1993, 48, 2304-2312.                                                                                 | 4.7  | 18        |
| 135 | Order of the QCD transition and QCD sum rules. <i>Physical Review D</i> , 1992, 46, 478-481.                                                                                    | 4.7  | 16        |
| 136 | Finite-temperature QCD sum rules for the nucleon. <i>Physical Review D</i> , 1992, 45, 4312-4322.                                                                               | 4.7  | 26        |
| 137 | Isospin breaking in nuclear physics: The Nolen-Schiffer effect. <i>Zeitschrift für Physik A</i> , 1991, 340, 93-100.                                                            | 0.9  | 42        |
| 138 | QCD sum rules at low temperature. <i>Physical Review D</i> , 1991, 43, 921-932.                                                                                                 | 4.7  | 56        |
| 139 | Charmonium disintegration by field ionization. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 217, 5-8.                        | 4.1  | 3         |
| 140 | Charmonium disintegration by field-ionization. <i>Nuclear Physics A</i> , 1989, 498, 501-506.                                                                                   | 1.5  | 1         |
| 141 | Soliton quantization in chiral models with vector mesons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 215, 387-391.         | 4.1  | 7         |
| 142 | The width of the $\hat{\rho}^0$ -isobar in chiral soliton models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988, 213, 373-375. | 4.1  | 20        |
| 143 | From Entropy to Information: Biased Typewriters and the Origin of Life. , 0, , 130-154.                                                                                         |      | 5         |
| 144 | Evolved digital ecosystems: Dynamic steady state, not optimal fixed point. , 0, , .                                                                                             |      | 5         |

| #   | ARTICLE                                                                                                  | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------|----|-----------|
| 145 | Evolution of an artificial visual cortex for image recognition. , 0, , .                                 |    | 5         |
| 146 | Exploring Conditions That Select for the Evolution of Cooperative Group Foraging. , 0, , .               |    | 1         |
| 147 | Does self-replication imply evolvability?. , 0, , .                                                      |    | 4         |
| 148 | More Bang For Your Buck: Quorum-Sensing Capabilities Improve the Efficacy of Suicidal Altruism. , 0, , . |    | 0         |
| 149 | Evolving an optimal group size in groups of prey under predation. , 0, , .                               |    | 1         |