

# Olivier C Martin

## List of Publications by Year in descending order

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149  
papers

7,074  
citations

81900

39  
h-index

71685

76  
g-index

158  
all docs

158  
docs citations

158  
times ranked

6124  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A Large Maize ( <i>Zea mays</i> L.) SNP Genotyping Array: Development and Germplasm Genotyping, and Genetic Mapping to Compare with the B73 Reference Genome. <i>PLoS ONE</i> , 2011, 6, e28334. | 2.5  | 523       |
| 2  | Iterated Local Search. , 2003, , 320-353.  |      | 461       |
| 3  | Robustness Can Evolve Gradually in Complex Regulatory Gene Networks with Varying Topology. <i>PLoS Computational Biology</i> , 2007, 3, e15.   | 3.2  | 318       |
| 4  | Algebraic properties of cellular automata. <i>Communications in Mathematical Physics</i> , 1984, 93, 219-258.  | 2.2  | 305       |
| 5  | Innovation and robustness in complex regulatory gene networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13591-13596.                  | 7.1  | 305       |
| 6  | Iterated Local Search: Framework and Applications. <i>Profiles in Operations Research</i> , 2010, , 363-397.   | 0.4  | 246       |
| 7  | Genome-Wide Crossover Distribution in <i>Arabidopsis thaliana</i> Meiosis Reveals Sex-Specific Patterns along Chromosomes. <i>PLoS Genetics</i> , 2011, 7, e1002354.                             | 3.5  | 221       |
| 8  | Large-step markov chains for the TSP incorporating local search heuristics. <i>Operations Research Letters</i> , 1992, 11, 219-224.  | 0.7  | 176       |
| 9  | A congruence index for testing topological similarity between trees. <i>Bioinformatics</i> , 2007, 23, 3119-3124.  | 4.1  | 176       |
| 10 | Intraspecific variation of recombination rate in maize. <i>Genome Biology</i> , 2013, 14, R103.  | 9.6  | 176       |
| 11 | Detailed Recombination Studies Along Chromosome 3B Provide New Insights on Crossover Distribution in Wheat ( <i>Triticum aestivum</i> L.). <i>Genetics</i> , 2009, 181, 393-403.                 | 2.9  | 157       |
| 12 | Toward a Theory of Marker-Assisted Gene Pyramiding. <i>Genetics</i> , 2004, 168, 513-523.  | 2.9  | 156       |
| 13 | Combining simulated annealing with local search heuristics. <i>Annals of Operations Research</i> , 1996, 63, 57-75.  | 4.1  | 146       |
| 14 | Plant roots sense soil compaction through restricted ethylene diffusion. <i>Science</i> , 2021, 371, 276-280.  | 12.6 | 145       |
| 15 | Spin and Link Overlaps in Three-Dimensional Spin Glasses. <i>Physical Review Letters</i> , 2000, 85, 3013-3016.  | 7.8  | 136       |
| 16 | Constrained Allocation Flux Balance Analysis. <i>PLoS Computational Biology</i> , 2016, 12, e1004913.  | 3.2  | 136       |
| 17 | Statistical mechanics methods and phase transitions in optimization problems. <i>Theoretical Computer Science</i> , 2001, 265, 3-67.   | 0.9  | 130       |
| 18 | Anomalous dimensions and the renormalization group in a nonlinear diffusion process. <i>Physical Review Letters</i> , 1990, 64, 1361-1364.   | 7.8  | 128       |

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|----|--|-----|-----------|
| 19 | Class models on Bethe lattices. <i>European Physical Journal B</i> , 2003, 37, 55-78.  | 1.5 | 123       |
| 20 | Sex-Specific Crossover Distributions and Variations in Interference Level along <i>Arabidopsis thaliana</i> Chromosome 4. <i>PLoS Genetics</i> , 2007, 3, e106.  | 3.5 | 123       |
| 21 | Intermediate asymptotics and renormalization group theory. <i>Journal of Scientific Computing</i> , 1989, 4, 355-372.  | 2.3 | 121       |
| 22 | Iterated Local Search: Framework and Applications. <i>Profiles in Operations Research</i> , 2019, , 129-168.   | 0.4 | 94        |
| 23 | Monte Carlo estimates of the mass gap of the O(2) and O(3) spin models in 1+1 dimensions. <i>Nuclear Physics B</i> , 1982, 205, 188-220.   | 2.5 | 86        |
| 24 | Phenotypic plasticity can facilitate adaptive evolution in gene regulatory circuits. <i>BMC Evolutionary Biology</i> , 2011, 11, 5.  | 3.2 | 86        |
| 25 | Energy exponents and corrections to scaling in Ising spin glasses. <i>Physical Review B</i> , 2003, 68, .  | 3.2 | 84        |
| 26 | Finite Size and Dimensional Dependence in the Euclidean Traveling Salesman Problem. <i>Physical Review Letters</i> , 1996, 76, 1188-1191.  | 7.8 | 77        |
| 27 | Spatial and Topological Organization of DNA Chains Induced by Gene Co-localization. <i>PLoS Computational Biology</i> , 2010, 6, e1000678.   | 3.2 | 73        |
| 28 | Motifs emerge from function in model gene regulatory networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17263-17268.  | 7.1 | 69        |
| 29 | Saffman-Taylor fingers with anisotropic surface tension. <i>Physical Review A</i> , 1987, 35, 3989-3992.   | 2.5 | 67        |
| 30 | Neutral network sizes of biological RNA molecules can be computed and are not atypically small. <i>BMC Bioinformatics</i> , 2008, 9, 464.  | 2.6 | 65        |
| 31 | Combined fluorescent and electron microscopic imaging unveils the specific properties of two classes of meiotic crossovers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13415-13420. | 7.1 | 60        |
| 32 | Scalings of Domain Wall Energies in Two Dimensional Ising Spin Glasses. <i>Physical Review Letters</i> , 2003, 91, 087201.   | 7.8 | 58        |
| 33 | Strong Universality and Algebraic Scaling in Two-Dimensional Ising Spin Glasses. <i>Physical Review Letters</i> , 2006, 96, 237205.  | 7.8 | 58        |
| 34 | Two Types of Meiotic Crossovers Coexist in Maize. <i>Plant Cell</i> , 2010, 21, 3915-3925.   | 6.6 | 53        |
| 35 | Genotype networks in metabolic reaction spaces. <i>BMC Systems Biology</i> , 2010, 4, 30.  | 3.0 | 49        |
| 36 | Recombination patterns in maize reveal limits to crossover homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15982-15987.   | 7.1 | 49        |

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|----|---|-----|-----------|
| 37 | Effects of Recombination on Complex Regulatory Circuits. <i>Genetics</i> , 2009, 183, 673-684.  | 2.9 | 48        |
| 38 | Development of new genetic resources for faba bean ( <i>Vicia faba</i> L.) breeding through the discovery of gene-based SNP markers and the construction of a high-density consensus map. <i>Scientific Reports</i> , 2020, 10, 6790. | 3.3 | 46        |
| 39 | Origin of sidebranching in dendritic growth. <i>Physical Review A</i> , 1987, 35, 1382-1390.  | 2.5 | 45        |
| 40 | Crossover rate between homologous chromosomes and interference are regulated by the addition of specific unpaired chromosomes in <i>Brassica</i> . <i>New Phytologist</i> , 2014, 201, 645-656.                                       | 7.3 | 45        |
| 41 | Amplifying recombination genome-wide and reshaping crossover landscapes in Brassicas. <i>PLoS Genetics</i> , 2017, 13, e1006794.  | 3.5 | 43        |
| 42 | Ising Spin Glasses in a Magnetic Field. <i>Physical Review Letters</i> , 1999, 82, 4934-4937.   | 7.8 | 39        |
| 43 | Renormalization for Discrete Optimization. <i>Physical Review Letters</i> , 1999, 83, 1030-1033.  | 7.8 | 39        |
| 44 | Crossover Localisation Is Regulated by the Neddylation Posttranslational Regulatory Pathway. <i>PLoS Biology</i> , 2014, 12, e1001930.  | 5.6 | 39        |
| 45 | Phenotypic robustness can increase phenotypic variability after nongenetic perturbations in gene regulatory circuits. <i>Journal of Evolutionary Biology</i> , 2011, 24, 1284-1297.   | 1.7 | 38        |
| 46 | Critical Thermodynamics of the Two-Dimensional $\pm$ Ising Spin Glass. <i>Physical Review Letters</i> , 2004, 92, 117202.   | 7.8 | 37        |
| 47 | Zero-Temperature Responses of a 3D Spin Glass in a Magnetic Field. <i>Physical Review Letters</i> , 2001, 87, 197204.   | 7.8 | 36        |
| 48 | Chaotic temperature dependence in a model of spin glasses. <i>European Physical Journal B</i> , 2002, 28, 199-208.  | 1.5 | 34        |
| 49 | Large deviations in spin-glass ground-state energies. <i>European Physical Journal B</i> , 2004, 41, 365-375.   | 1.5 | 33        |
| 50 | The Stochastic Traveling Salesman Problem: Finite Size Scaling and the Cavity Prediction. <i>Journal of Statistical Physics</i> , 1999, 94, 739-758.  | 1.2 | 32        |
| 51 | Partitioning of unstructured meshes for load balancing. <i>Concurrency and Computation: Practice and Experience</i> , 1995, 7, 303-314.   | 0.5 | 30        |
| 52 | Cut Size Statistics of Graph Bisection Heuristics. <i>SIAM Journal on Optimization</i> , 1999, 10, 231-251.   | 2.0 | 30        |
| 53 | Large-scale low-energy excitations in 3-d spin glasses. <i>European Physical Journal B</i> , 2000, 18, 467-477.   | 1.5 | 30        |
| 54 | A geometrical picture for finite-dimensional spin glasses. <i>Europhysics Letters</i> , 2000, 49, 794-800.  | 2.0 | 30        |

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|----|--|-----|-----------|
| 55 | New structural variation in evolutionary searches of RNA neutral networks. <i>BioSystems</i> , 2007, 90, 475-485.  | 2.0 | 29        |
| 56 | CODA (crossover distribution analyzer): quantitative characterization of crossover position patterns along chromosomes. <i>BMC Bioinformatics</i> , 2011, 12, 27.                | 2.6 | 29        |
| 57 | Comparing mean field and Euclidean matching problems. <i>European Physical Journal B</i> , 1998, 6, 383-393.   | 1.5 | 28        |
| 58 | Multifunctionality and Robustness Trade-Offs in Model Genetic Circuits. <i>Biophysical Journal</i> , 2008, 94, 2927-2937.  | 0.5 | 27        |
| 59 | Hierarchical approach for computing spin glass ground states. <i>Physical Review E</i> , 2001, 64, 056704.   | 2.1 | 25        |
| 60 | Seeing asymptotic freedom in SU(3) lattice gauge theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985, 153, 87-91.             | 4.1 | 24        |
| 61 | Scaling Universalities of $k$ th-Nearest Neighbor Distances on Closed Manifolds. <i>Advances in Applied Mathematics</i> , 1998, 21, 424-436.                                     | 0.7 | 24        |
| 62 | The Schwinger model via a local Monte Carlo algorithm. <i>Nuclear Physics B</i> , 1982, 203, 297-310.  | 2.5 | 23        |
| 63 | Temperature Chaos, Rejuvenation, and Memory in Migdal-Kadanoff Spin Glasses. <i>Physical Review Letters</i> , 2003, 91, 097201.  | 7.8 | 23        |
| 64 | Patterns of Recombination and MLH1 Foci Density Along Mouse Chromosomes: Modeling Effects of Interference and Obligate Chiasma. <i>Genetics</i> , 2007, 176, 1453-1467.          | 2.9 | 22        |
| 65 | Reducing the number of flavors in the microcanonical method. <i>Physical Review D</i> , 1985, 31, 435-437.   | 4.7 | 21        |
| 66 | Two- and Three-Locus Tests for Linkage Analysis Using Recombinant Inbred Lines. <i>Genetics</i> , 2006, 173, 451-459.  | 2.9 | 21        |
| 67 | Chiral symmetry breaking in strongly coupled lattice gauge theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 131, 419-422. | 4.1 | 20        |
| 68 | Non-compact local excitations in spin-glasses. <i>Europhysics Letters</i> , 2002, 58, 321-327.   | 2.0 | 20        |
| 69 | Frozen Glass Phase in the Multi-index Matching Problem. <i>Physical Review Letters</i> , 2004, 93, 217205.   | 7.8 | 19        |
| 70 | Random multi-index matching problems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P09006-P09006.  | 2.3 | 19        |
| 71 | Lyapunov exponents of stochastic dynamical systems. <i>Journal of Statistical Physics</i> , 1985, 41, 249-261.   | 1.2 | 18        |
| 72 | Discrete velocities for solitary-wave solutions selected by self-induced transparency. <i>Physical Review A</i> , 1991, 43, 1549-1563.   | 2.5 | 18        |

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|----|---|-----|-----------|
| 73 | Pairing Hamiltonian by a path integral Monte Carlo procedure. <i>Physical Review C</i> , 1993, 47, 2610-2615.   | 2.9 | 18        |
| 74 | Finite population-size effects in projection Monte Carlo methods. <i>Physical Review E</i> , 1995, 51, 3679-3693.   | 2.1 | 18        |
| 75 | From simple to complex networks: Inherent structures, barriers, and valleys in the context of spin glasses. <i>Physical Review E</i> , 2006, 73, 036110.  | 2.1 | 18        |
| 76 | Network of inherent structures in spin glasses: Scaling and scale-free distributions. <i>Physical Review E</i> , 2007, 76, 051107.  | 2.1 | 18        |
| 77 | Network function shapes network structure: the case of the Arabidopsis flower organ specification genetic network. <i>Molecular BioSystems</i> , 2013, 9, 1726.   | 2.9 | 17        |
| 78 | Hot Regions of Noninterfering Crossovers Coexist with a Nonuniformly Interfering Pathway in Arabidopsis thaliana. <i>Genetics</i> , 2013, 195, 769-779.   | 2.9 | 17        |
| 79 | Temperature chaos in two-dimensional Ising spin glasses with binary couplings: a further case for universality. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, L10001-L10001. | 2.3 | 16        |
| 80 | Environmental versatility promotes modularity in genome-scale metabolic networks. <i>BMC Systems Biology</i> , 2011, 5, 135.  | 3.0 | 16        |
| 81 | Distribution of essential interactions in model gene regulatory networks under mutation-selection balance. <i>Physical Review E</i> , 2010, 82, 011908.   | 2.1 | 15        |
| 82 | Randomizing Genome-Scale Metabolic Networks. <i>PLoS ONE</i> , 2011, 6, e22295.   | 2.5 | 14        |
| 83 | Minimum complexity drives regulatory logic in Boolean models of living systems. , 2022, 1, .  |     | 14        |
| 84 | Local excitations of a spin glass in a magnetic field. <i>Physical Review B</i> , 2003, 68, .   | 3.2 | 13        |
| 85 | Phenotypic innovation through recombination in genome-scale metabolic networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161536.                                       | 2.6 | 13        |
| 86 | Discrete energy landscapes and replica symmetry breaking at zero temperature. <i>Europhysics Letters</i> , 2001, 53, 749-755.   | 2.0 | 12        |
| 87 | Enhancing backcross programs through increased recombination. <i>Genetics Selection Evolution</i> , 2021, 53, 25.   | 3.0 | 12        |
| 88 | Mesons and baryons at large N and strong coupling. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983, 130, 411-414.  | 4.1 | 11        |
| 89 | The quark model on the lattice. <i>Nuclear Physics B</i> , 1985, 261, 79-103.   | 2.5 | 11        |
| 90 | Solitary-wave velocity selection in self-induced transparency. <i>Physical Review Letters</i> , 1990, 65, 2638-2641.  | 7.8 | 11        |

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|-----|--|-----|-----------|
| 91  | Droplet Phenomenology and Mean Field in a Frustrated Disordered System. <i>Physical Review Letters</i> , 1998, 81, 2554-2557.  | 7.8 | 11        |
| 92  | Spatial correlation functions in three-dimensional Ising spin glasses. <i>Physical Review B</i> , 2005, 72, .  | 3.2 | 11        |
| 93  | Statistics of the number of minima in a random energy landscape. <i>Physical Review E</i> , 2006, 74, 061112.  | 2.1 | 11        |
| 94  | Recombination suppression in heterozygotes for a pericentric inversion induces the interchromosomal effect on crossovers in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2019, 100, 1163-1175.        | 5.7 | 11        |
| 95  | Distribution of Parental Genome Blocks in Recombinant Inbred Lines. <i>Genetics</i> , 2011, 189, 645-654.  | 2.9 | 10        |
| 96  | Historical contingency and the gradual evolution of metabolic properties in central carbon and genome-scale metabolisms. <i>BMC Systems Biology</i> , 2014, 8, 48.                                   | 3.0 | 10        |
| 97  | Drivers of structural features in gene regulatory networks: From biophysical constraints to biological function. <i>Physics of Life Reviews</i> , 2016, 17, 124-158.                                 | 2.8 | 10        |
| 98  | Asymptotics of Partial Differential Equations and the Renormalisation Group. <i>NATO ASI Series Series B: Physics</i> , 1991, , 375-383.   | 0.2 | 10        |
| 99  | Systematic errors in Monte Carlo methods for fermions. <i>Nuclear Physics B</i> , 1986, 264, 89-98.  | 2.5 | 9         |
| 100 | Fast evaluation of lattice Green functions. <i>Journal of Physics A</i> , 1987, 20, 5095-5111.   | 1.6 | 9         |
| 101 | Iterated Local Search. <i>SSRN Electronic Journal</i> , 2001, , .  | 0.4 | 9         |
| 102 | Return probabilities and hitting times of random walks on sparse Erdős-Rényi graphs. <i>Physical Review E</i> , 2010, 81, 031111.  | 2.1 | 9         |
| 103 | Assessing by Modeling the Consequences of Increased Recombination in Recurrent Selection of <i>Oryza sativa</i> and <i>Brassica rapa</i> . <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 4169-4181. | 1.8 | 9         |
| 104 | Hadronic matrix elements at strong coupling. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 174, 94-98.   | 4.1 | 8         |
| 105 | PROJECTION MONTE CARLO METHODS: AN ALGORITHMIC ANALYSIS. <i>International Journal of Modern Physics C</i> , 1995, 06, 693-723.   | 1.7 | 8         |
| 106 | Absence of an Equilibrium Ferromagnetic Spin-Glass Phase in Three Dimensions. <i>Physical Review Letters</i> , 2002, 89, 267202.   | 7.8 | 8         |
| 107 | Finite-size scaling in Villain's fully frustrated model and singular effects of plaquette disorder. <i>Europhysics Letters</i> , 2006, 73, 779-785.  | 2.0 | 8         |
| 108 | Mean Field and Corrections for the Euclidean Minimum Matching Problem. <i>Physical Review Letters</i> , 1997, 79, 167-170.   | 7.8 | 7         |

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|-----|---|-----|-----------|
| 109 | Feedback between environment and traits under selection in a seasonal environment: consequences for experimental evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180284. | 2.6 | 7         |
| 110 | Houdayer and Martin Reply:. <i>Physical Review Letters</i> , 2000, 84, 1057-1057.   | 7.8 | 6         |
| 111 | Temperature chaos in a replica-symmetry-broken spin glass model—A hierarchical model with temperature chaos. <i>Europhysics Letters</i> , 2002, 60, 316-322.  | 2.0 | 6         |
| 112 | Population size effects in evolutionary dynamics on neutral networks and toy landscapes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P05011-P05011.                              | 2.3 | 6         |
| 113 | In response to comment on “A congruence index for testing topological similarity between trees”™. <i>Bioinformatics</i> , 2009, 25, 150-151.  | 4.1 | 6         |
| 114 | Modelling the emergence of polarity patterns for the intercellular transport of auxin in plants. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141223.  | 3.4 | 6         |
| 115 | Responses to auxin signals: an operating principle for dynamical sensitivity yet high resilience. <i>Royal Society Open Science</i> , 2018, 5, 172098.  | 2.4 | 6         |
| 116 | Gauge-invariant spin glasses. <i>Physical Review B</i> , 1986, 34, 301-305.   | 3.2 | 5         |
| 117 | Statistical Physics Methods Provide the Exact Solution to a Long-Standing Problem of Genetics. <i>Physical Review Letters</i> , 2015, 114, 238101.  | 7.8 | 5         |
| 118 | A comparison of Langevin and microcanonical simulations for fermions. <i>Nuclear Physics B</i> , 1987, 280, 497-509.  | 2.5 | 4         |
| 119 | Magnetic exponents of two-dimensional Ising spin glasses. <i>Physical Review B</i> , 2007, 76, .  | 3.2 | 4         |
| 120 | Adaptive networks of trading agents. <i>Physical Review E</i> , 2008, 78, 046106.   | 2.1 | 4         |
| 121 | Short relaxation times but long transient times in both simple and complex reaction networks. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160388.   | 3.4 | 4         |
| 122 | High-throughput measurement of recombination rates and genetic interference in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2018, 35, 431-442.  | 1.7 | 4         |
| 123 | Role of <i>Cis</i> , <i>Trans</i> , and Inbreeding Effects on Meiotic Recombination in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2018, 210, 1213-1226.  | 2.9 | 4         |
| 124 | Position space calculation of a two-loop lattice diagram. <i>Journal of Physics A</i> , 1990, 23, 1575-1587.  | 1.6 | 3         |
| 125 | Equilibrium valleys in spin glasses at low temperature. <i>Physical Review B</i> , 2001, 64, .  | 3.2 | 3         |
| 126 | Sinusoidal swinging dynamics of the telomere repair and cell growth activation functions of telomerase in rat liver cancer cells. <i>FEBS Letters</i> , 2007, 581, 125-130.                                       | 2.8 | 3         |



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|-----|--|-----|-----------|
| 127 | QUANTIFYING SLOW EVOLUTIONARY DYNAMICS IN RNA FITNESS LANDSCAPES. <i>Journal of Bioinformatics and Computational Biology</i> , 2010, 08, 1027-1040.    | 0.8 | 3         |
| 128 | Haldane, Waddington and recombinant inbred lines: extension of their work to any number of genes. <i>Journal of Genetics</i> , 2017, 96, 795-800.      | 0.7 | 3         |
| 129 | Random walks on the Sierpinski Gasket. <i>Journal De Physique</i> , 1986, 47, 1663-1669.   | 1.8 | 3         |
| 130 | Correlated subtractions for computer simulations. <i>Nuclear Physics B</i> , 1985, 251, 425-438.   | 2.5 | 2         |
| 131 | Strongly coupled QCD with a Euclidean version of the SLAC derivative. <i>Nuclear Physics B</i> , 1987, 279, 684-710.                                   | 2.5 | 2         |
| 132 | Random walks for on-lattice DLA simulations. <i>Journal of Physics A</i> , 1988, 21, 827-832.  | 1.6 | 2         |
| 133 | Critical dynamics of one-dimensional irreversible systems. <i>Physica D: Nonlinear Phenomena</i> , 1990, 45, 345-354.                                  | 2.8 | 2         |
| 134 | Memory capacity in large idiotypic networks. <i>Bulletin of Mathematical Biology</i> , 1995, 57, 109-136.  | 1.9 | 2         |
| 135 | A numerical study of persistence length effects on DNA conformation in sequencing electrophoresis. <i>Electrophoresis</i> , 1996, 17, 1420-1424.       | 2.4 | 2         |
| 136 | Discreteness and entropic fluctuations in generalized-random-energy-model-like systems. <i>Physical Review B</i> , 2002, 66, .                         | 3.2 | 2         |
| 137 | Shining fresh light on the evolution of photosynthesis. <i>ELife</i> , 2013, 2, e01403.  | 6.0 | 2         |
| 138 | Solitary-Waves in Self-Induced Transparency. <i>NATO ASI Series Series B: Physics</i> , 1991, , 327-336.   | 0.2 | 2         |
| 139 | Quantitative modelling of fine-scale variations in the <i>Arabidopsis thaliana</i> crossover landscape. <i>Quantitative Plant Biology</i> , 2022, 3, . | 2.0 | 2         |
| 140 | Scaling in lattice QCD with Kogut-Susskind fermions. <i>Physical Review D</i> , 1985, 31, 1768-1770.   | 4.7 | 1         |
| 141 | Computer techniques for lattice gauge theories. <i>Computer Physics Communications</i> , 1986, 40, 173-179.  | 7.5 | 1         |
| 142 | Challenges in experimental data integration within genome-scale metabolic models. <i>Algorithms for Molecular Biology</i> , 2010, 5, 20.               | 1.2 | 1         |
| 143 | CNVmap: A Method and Software To Detect and Map Copy Number Variants from Segregation Data. <i>Genetics</i> , 2020, 214, 561-576.                      | 2.9 | 1         |
| 144 | Novel ordering in the XYspin glass. <i>Physical Review B</i> , 1986, 34, 2032-2034.  | 3.2 | 0         |

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|-----|--|-----|-----------|
| 145 | Low T scaling in the binary 2d spin glass. Biophysical Chemistry, 2005, 115, 109-114.  | 2.8 | 0         |
| 146 | Thermodynamics of 2D Ising Spin Glasses with Binary Couplings on Large Lattices Using Exact Computations of Partition Functions. Progress of Theoretical Physics Supplement, 2005, 157, 17-24. | 0.1 | 0         |
| 147 | Network architectures and operating principles. Physics of Life Reviews, 2016, 17, 168-171.  | 2.8 | 0         |
| 148 | Probabilities of Multilocus Genotypes in SIB Recombinant Inbred Lines. Frontiers in Genetics, 2019, 10, 833.   | 2.3 | 0         |
| 149 | A preference for link operator functions can drive Boolean biological networks towards critical dynamics. Journal of Biosciences, 2022, 47, 1.   | 1.1 | 0         |