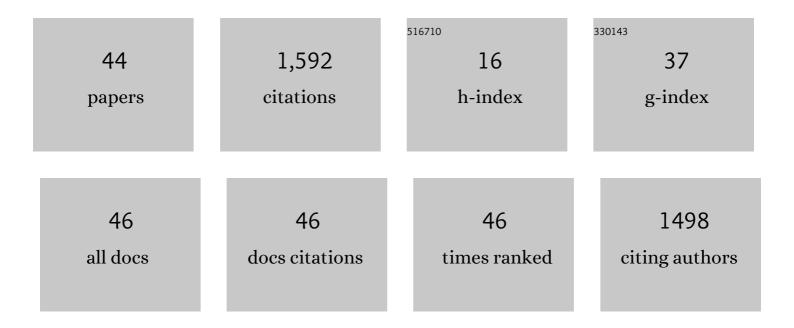
Sebastien Roch

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6036616/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Upstream reciprocity and the evolution of gratitude. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 605-610. | 2.6 | 236 |
| 2 | Likelihood-based tree reconstruction on a concatenation of aligned sequence data sets can be statistically inconsistent. Theoretical Population Biology, 2015, 100, 56-62. | 1.1 | 218 |
| 3 | On the Robustness to Gene Tree Estimation Error (or lack thereof) of Coalescent-Based Species Tree Methods. Systematic Biology, 2015, 64, 663-676. | 5.6 | 161 |
| 4 | Incomplete Lineage Sorting: Consistent Phylogeny Estimation from Multiple Loci. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2010, 7, 166-171. | 3.0 | 146 |
| 5 | A Short Proof that Phylogenetic Tree Reconstruction by Maximum Likelihood Is Hard. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 92-94. | 3.0 | 108 |
| 6 | An approximation algorithm for Stackelberg network pricing. Networks, 2005, 46, 57-67. | 2.7 | 77 |
| 7 | Submodularity of Influence in Social Networks: From Local to Global. SIAM Journal on Computing, 2010, 39, 2176-2188. | 1.0 | 77 |
| 8 | Long-Branch Attraction in Species Tree Estimation: Inconsistency of Partitioned Likelihood and Topology-Based Summary Methods. Systematic Biology, 2019, 68, 281-297. | 5.6 | 77 |
| 9 | Toward Extracting All Phylogenetic Information from Matrices of Evolutionary Distances. Science, 2010, 327, 1376-1379. | 12.6 | 48 |
| 10 | Data Requirement for Phylogenetic Inference from Multiple Loci: A New Distance Method. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2015, 12, 422-432. | 3.0 | 36 |
| 11 | Learning nonsingular phylogenies and hidden Markov models. Annals of Applied Probability, 2006, 16, 583. | 1.3 | 35 |
| 12 | Evolutionary trees and the Ising model on the Bethe lattice: a proof of Steel's conjecture. Probability Theory and Related Fields, 2011, 149, 149-189. | 1.8 | 35 |
| 13 | Recovering the Treelike Trend of Evolution Despite Extensive Lateral Genetic Transfer: A Probabilistic Analysis. Journal of Computational Biology, 2013, 20, 93-112. | 1.6 | 31 |
| 14 | Geometry of the Sample Frequency Spectrum and the Perils of Demographic Inference. Genetics, 2018, 210, 665-682. | 2.9 | 29 |
| 15 | The Kesten-Stigum Reconstruction Bound Is Tight for Roughly Symmetric Binary Channels. , 2006, , . | | 28 |
| 16 | A smoothing heuristic for a bilevel pricing problem. European Journal of Operational Research, 2006, 174, 1396-1413. | 5.7 | 24 |
| 17 | Polynomial-Time Statistical Estimation of Species Trees Under Gene Duplication and Loss. Journal of Computational Biology, 2021, 28, 452-468. | 1.6 | 23 |
| 18 | Species Tree Estimation Using ASTRAL: How Many Genes Are Enough?. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1738-1747. | 3.0 | 19 |

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| # | Article | IF | CITATIONS |
|----|--|--------------|-------------|
| 19 | Phylogenies without Branch Bounds: Contracting the Short, Pruning the Deep. SIAM Journal on Discrete Mathematics, 2011, 25, 872-893. | 0.8 | 16 |
| 20 | Alignment-free phylogenetic reconstruction: Sample complexity via a branching process analysis. Annals of Applied Probability, 2013, 23, . | 1.3 | 14 |
| 21 | Phase transition in the sample complexity of likelihood-based phylogeny inference. Probability Theory and Related Fields, 2017, 169, 3-62. | 1.8 | 14 |
| 22 | Phase transition on the convergence rate of parameter estimation under an Ornstein–Uhlenbeck diffusion on a tree. Journal of Mathematical Biology, 2017, 74, 355-385. | 1.9 | 13 |
| 23 | Phylogenies without Branch Bounds: Contracting the Short, Pruning the Deep. Lecture Notes in Computer Science, 2009, , 451-465. | 1.3 | 13 |
| 24 | Network delay inference from additive metrics. Random Structures and Algorithms, 2010, 37, 176-203. | 1.1 | 12 |
| 25 | On the Inference of Large Phylogenies with Long Branches: How Long Is Too Long?. Bulletin of Mathematical Biology, 2011, 73, 1627-1644. | 1.9 | 11 |
| 26 | Sequence Length Requirement of Distance-Based Phylogeny Reconstruction: Breaking the Polynomial Barrier. , 2008, , . | | 10 |
| 27 | Global alignment of molecular sequences via ancestral state reconstruction. Stochastic Processes and Their Applications, 2012, 122, 3852-3874. | 0.9 | 10 |
| 28 | Robust Estimation of Latent Tree Graphical Models: Inferring Hidden States With Inexact Parameters. IEEE Transactions on Information Theory, 2013, 59, 4357-4373. | 2.4 | 10 |
| 29 | Species Trees from Gene Trees Despite a High Rate of Lateral Genetic Transfer: A Tight Bound (Extended) Tj ETQo | 1 1 0.784 ון | 314 rgBT /O |
| 30 | Slow emergence of cooperation for win-stay lose-shift on trees. Machine Learning, 2007, 67, 7-22. | 5.4 | 6 |
| 31 | Phylogenetic mixtures: Concentration of measure in the large-tree limit. Annals of Applied Probability, 2012, 22, . | 1.3 | 6 |
| 32 | Identifiability and inference of non-parametric rates-across-sites models on large-scale phylogenies. Journal of Mathematical Biology, 2013, 67, 767-797. | 1.9 | 6 |
| 33 | Polynomial-Time Statistical Estimation of Species Trees Under Gene Duplication and Loss. Lecture Notes in Computer Science, 2020, , 120-135. | 1.3 | 6 |
| 34 | AN ANALYTICAL COMPARISON OF MULTILOCUS METHODS UNDER THE MULTISPECIES COALESCENT: THE THREE-TAXON CASE. , 2012, , . | | 5 |
| 35 | Distance-based species tree estimation under the coalescent: Information-theoretic trade-off between number of loci and sequence length. Annals of Applied Probability, 2017, 27, . | 1.3 | 5 |
| 36 | Hands-on Introduction to Sequence-Length Requirements in Phylogenetics. Computational Biology, 2019, , 47-86. | 0.2 | 4 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Generalized least squares can overcome the critical threshold in respondent-driven sampling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10299-10304. | 7.1 | 2 |
| 38 | Statistically consistent and computationally efficient inference of ancestral DNA sequences in the TKF91 model under dense taxon sampling. Bulletin of Mathematical Biology, 2020, 82, 21. | 1.9 | 2 |
| 39 | An analytical comparison of multilocus methods under the multispecies coalescent: the three-taxon case. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2013, , 297-306. | 0.7 | 2 |
| 40 | On the Variance of Internode Distance Under the Multispecies Coalescent. Lecture Notes in Computer Science, 2018, , 196-206. | 1.3 | 1 |
| 41 | Impossibility of Consistent Distance Estimation from Sequence Lengths Under the TKF91 Model. Bulletin of Mathematical Biology, 2020, 82, 123. | 1.9 | 1 |
| 42 | Sufficient condition for root reconstruction by parsimony on binary trees with general weights. Electronic Communications in Probability, 2021, 26, . | 0.4 | 1 |
| 43 | A stochastic Farris transform for genetic data under the multispecies coalescent with applications to data requirements. Journal of Mathematical Biology, 2022, 84, 36. | 1.9 | 1 |
| 44 | On learning thresholds of parities and unions of rectangles in random walk models. Random Structures and Algorithms, 2007, 31, 406-417. | 1.1 | 0 |