

Luis-Miguel Chevin

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

4,249
citations

218677

26
h-index

223800

46
g-index

56
all docs

56
docs citations

56
times ranked

5455
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Adaptation, Plasticity, and Extinction in a Changing Environment: Towards a Predictive Theory. <i>PLoS Biology</i> , 2010, 8, e1000357. | 5.6 | 1,476 |
| 2 | Evolution of phenotypic plasticity in extreme environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160138. | 4.0 | 267 |
| 3 | WHEN DO ADAPTIVE PLASTICITY AND GENETIC EVOLUTION PREVENT EXTINCTION OF A DENSITY-REGULATED POPULATION?. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1143-1150. | 2.3 | 216 |
| 4 | Selective Sweep at a Quantitative Trait Locus in the Presence of Background Genetic Variation. <i>Genetics</i> , 2008, 180, 1645-1660. | 2.9 | 173 |
| 5 | Phenotypic plasticity in response to climate change: the importance of cue variation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180178. | 4.0 | 165 |
| 6 | Adaptation to marginal habitats by evolution of increased phenotypic plasticity. <i>Journal of Evolutionary Biology</i> , 2011, 24, 1462-1476. | 1.7 | 163 |
| 7 | On measuring selection in experimental evolution. <i>Biology Letters</i> , 2011, 7, 210-213. | 2.3 | 162 |
| 8 | Phenotypic plasticity and evolutionary demographic responses to climate change: taking theory out to the field. <i>Functional Ecology</i> , 2013, 27, 967-979. | 3.6 | 152 |
| 9 | Phenotypic plasticity in evolutionary rescue experiments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120089. | 4.0 | 130 |
| 10 | FISHER'S MODEL AND THE GENOMICS OF ADAPTATION: RESTRICTED PLEIOTROPY, HETEROGENOUS MUTATION, AND PARALLEL EVOLUTION. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 3213-3231. | 2.3 | 127 |
| 11 | GENETIC CONSTRAINTS ON ADAPTATION TO A CHANGING ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 708-721. | 2.3 | 100 |
| 12 | Predicting evolutionary rescue via evolving plasticity in stochastic environments. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161690. | 2.6 | 98 |
| 13 | Evolution of environmental cues for phenotypic plasticity. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 2767-2775. | 2.3 | 84 |
| 14 | Estimating the variation, autocorrelation, and environmental sensitivity of phenotypic selection. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 2319-2332. | 2.3 | 74 |
| 15 | Fluctuating optimum and temporally variable selection on breeding date in birds and mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31969-31978. | 7.1 | 69 |
| 16 | NICHE DIMENSIONALITY AND THE GENETICS OF ECOLOGICAL SPECIATION. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1244-1256. | 2.3 | 66 |
| 17 | Reduced phenotypic plasticity evolves in less predictable environments. <i>Ecology Letters</i> , 2020, 23, 1664-1672. | 6.4 | 64 |
| 18 | Stochastic Evolutionary Demography under a Fluctuating Optimum Phenotype. <i>American Naturalist</i> , 2017, 190, 786-802. | 2.1 | 43 |

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|----|---|-----|-----------|
| 19 | Hitchhiking Both Ways: Effect of Two Interfering Selective Sweeps on Linked Neutral Variation. <i>Genetics</i> , 2008, 180, 301-316. | 2.9 | 39 |
| 20 | Evolutionary Rescue over a Fitness Landscape. <i>Genetics</i> , 2018, 209, 265-279. | 2.9 | 39 |
| 21 | Automixis in <i>Artemia</i> : solving a century-old controversy. <i>Journal of Evolutionary Biology</i> , 2015, 28, 2337-2348. | 1.7 | 38 |
| 22 | Phenotypic memory drives population growth and extinction risk in a noisy environment. <i>Nature Ecology and Evolution</i> , 2020, 4, 193-201. | 7.8 | 37 |
| 23 | Where is the optimum? Predicting the variation of selection along climatic gradients and the adaptive value of plasticity. A case study on tree phenology. <i>Evolution Letters</i> , 2020, 4, 109-123. | 3.3 | 36 |
| 24 | Evolution of adult size depends on genetic variance in growth trajectories: a comment on analyses of evolutionary dynamics using integral projection models. <i>Methods in Ecology and Evolution</i> , 2015, 6, 981-986. | 5.2 | 34 |
| 25 | Maladaptive Shifts in Life History in a Changing Environment. <i>American Naturalist</i> , 2019, 194, 558-573. | 2.1 | 34 |
| 26 | Patterns of Molecular Evolution Associated With Two Selective Sweeps in the T _b Dwarf8 Region in Maize. <i>Genetics</i> , 2008, 180, 1107-1121. | 2.9 | 32 |
| 27 | Evolution of Discrete Phenotypes from Continuous Norms of Reaction. <i>American Naturalist</i> , 2013, 182, 13-27. | 2.1 | 32 |
| 28 | Niche Limits of Symbiotic Gut Microbiota Constrain the Salinity Tolerance of Brine Shrimp. <i>American Naturalist</i> , 2015, 186, 390-403. | 2.1 | 30 |
| 29 | EVOLUTION OF PHENOTYPE-ENVIRONMENT ASSOCIATIONS BY GENETIC RESPONSES TO SELECTION AND PHENOTYPIC PLASTICITY IN A TEMPORALLY AUTOCORRELATED ENVIRONMENT. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1374-1384. | 2.3 | 29 |
| 30 | The temporal distribution of directional gradients under selection for an optimum. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 3381-3394. | 2.3 | 26 |
| 31 | Selection on skewed characters and the paradox of stasis. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2703-2713. | 2.3 | 24 |
| 32 | Chaos and the (un)predictability of evolution in a changing environment. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 375-385. | 2.3 | 23 |
| 33 | Resurrection ecology in <i>Artemia</i> . <i>Evolutionary Applications</i> , 2018, 11, 76-87. | 3.1 | 22 |
| 34 | The Hitchhiking Effect of an Autosomal Meiotic Drive Gene. <i>Genetics</i> , 2006, 173, 1829-1832. | 2.9 | 17 |
| 35 | Species selection and random drift in macroevolution. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 513-525. | 2.3 | 17 |
| 36 | Selective Sweep at a QTL in a Randomly Fluctuating Environment. <i>Genetics</i> , 2019, 213, 987-1005. | 2.9 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Using phenotypic plasticity to understand the structure and evolution of the genotypeâ€“phenotype map. <i>Genetica</i> , 2022, 150, 209-221. | 1.1 | 16 |
| 38 | How does the strength of selection influence genetic correlations?. <i>Evolution Letters</i> , 2020, 4, 468-478. | 3.3 | 15 |
| 39 | Ageâ€“dependent phenological plasticity in a wild bird. <i>Journal of Animal Ecology</i> , 2020, 89, 2733-2741. | 2.8 | 14 |
| 40 | From adaptation to molecular evolution. <i>Heredity</i> , 2012, 108, 457-459. | 2.6 | 8 |
| 41 | The ontogeny of tolerance curves: habitat quality vs. acclimation in a stressful environment. <i>Journal of Animal Ecology</i> , 2016, 85, 1625-1635. | 2.8 | 8 |
| 42 | Predicting population genetic change in an autocorrelated random environment: Insights from a large automated experiment. <i>PLoS Genetics</i> , 2021, 17, e1009611. | 3.5 | 8 |
| 43 | Frequency dependence and the predictability of evolution in a changing environment. <i>Evolution Letters</i> , 2022, 6, 21-33. | 3.3 | 8 |
| 44 | Plasticity across levels: Relating epigenomic, transcriptomic, and phenotypic responses to osmotic stress in a halotolerant microalga. <i>Molecular Ecology</i> , 2022, 31, 4672-4687. | 3.9 | 7 |
| 45 | Fluctuations in lifetime selection in an autocorrelated environment. <i>Theoretical Population Biology</i> , 2020, 134, 119-128. | 1.1 | 4 |
| 46 | Molecular signature of epistatic selection: interrogating genetic interactions in the <i>sex-ratio</i> meiotic drive of <i>Drosophila simulans</i> . <i>Genetical Research</i> , 2009, 91, 171-182. | 0.9 | 3 |