# Maximilian J Telford

List of Publications by Year
in descending order



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|---|---|---|---|
| 96 papers | 8,870 citations | 57719 44 h-index | 46771 89 g-index |
| 110 all docs | 110 docs citations | 110 times ranked | 7544 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | TranslatorX: multiple alignment of nucleotide sequences guided by amino acid translations. Nucleic Acids Research, 2010, 38, W7-W13. | 6.5 | 1,238 |
| 2 | Deuterostome phylogeny reveals monophyletic chordates and the new phylum Xenoturbellida. Nature, 2006, 444, 85-88. | 13.7 | 528 |
| 3 | Acoelomorph flatworms are deuterostomes related to Xenoturbella. Nature, 2011, 470, 255-258. | 13.7 | 400 |
| 4 | Uncertainty in the Timing of Origin of Animals and the Limits of Precision in Molecular Timescales. Current Biology, 2015, 25, 2939-2950. | 1.8 | 370 |
| 5 | Expression of homeobox genes shows chelicerate arthropods retain their deutocerebral segment. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10671-10675. | 3.3 | 241 |
| 6 | A congruent solution to arthropod phylogeny: phylogenomics, microRNAs and morphology support monophyletic Mandibulata. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 298-306. | 1.2 | 227 |
| 7 | Phylogenetic tree building in the genomic age. Nature Reviews Genetics, 2020, 21, 428-444. | 7.7 | 226 |
| 8 | Changes in mitochondrial genetic codes as phylogenetic characters: Two examples from the flatworms. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11359-11364. | 3.3 | 223 |
| 9 | The First Myriapod Genome Sequence Reveals Conservative Arthropod Gene Content and Genome Organisation in the Centipede Strigamia maritima. PLoS Biology, 2014, 12, e1002005. | 2.6 | 221 |
| 10 | MicroRNAs and phylogenomics resolve the relationships of Tardigrada and suggest that velvet worms are the sister group of Arthropoda. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15920-15924. | 3.3 | 212 |
| 11 | The evolution of the Ecdysozoa. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1529-1537. | 1.8 | 203 |
| 12 | Xenoturbella is a deuterostome that eats molluscs. Nature, 2003, 424, 925-928. | 13.7 | 189 |
| 13 | Hox genes and the phylogeny of the arthropods. Current Biology, 2001, 11, 759-763. | 1.8 | 177 |
| 14 | Consideration of RNA Secondary Structure Significantly Improves Likelihood-Based Estimates of Phylogeny: Examples from the Bilateria. Molecular Biology and Evolution, 2005, 22, 1129-1136. | 3.5 | 168 |
| 15 | Large-scale sequencing and the new animal phylogeny. Trends in Ecology and Evolution, 2006, 21, 614-620. | 4.2 | 164 |
| 16 | A Transcriptomic-Phylogenomic Analysis of the Evolutionary Relationships of Flatworms. Current Biology, 2015, 25, 1347-1353. | 1.8 | 160 |
| 17 | The origin and evolution of arthropods. Nature, 2009, 457, 812-817. | 13.7 | 159 |
| 18 | Ecdysozoan Mitogenomics: Evidence for a Common Origin of the Legged Invertebrates, the Panarthropoda. Genome Biology and Evolution, 2010, 2, 425-440. | 1.1 | 154 |

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|---|---|---|---|
| 19 | Phylogenomic Insights into Animal Evolution. Current Biology, 2015, 25, R876-R887. | 1.8 | 154 |
| 20 | Combined large and small subunit ribosomal RNA phylogenies support a basal position of the acoelomorph flatworms. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 1077-1083. | 1.2 | 140 |
| 21 | Broad taxon and gene sampling indicate that chaetognaths are protostomes. Current Biology, 2006, 16, R575-R576. | 1.8 | 128 |
| 22 | Testing the new animal phylogeny: A phylum level molecular analysis of the animal kingdom. Molecular Phylogenetics and Evolution, 2008, 49, 23-31. | 1.2 | 121 |
| 23 | Mitigating Anticipated Effects of Systematic Errors Supports Sister-Group Relationship between Xenacoelomorpha and Ambulacraria. Current Biology, 2019, 29, 1818-1826.e6. | 1.8 | 120 |
| 24 | A multi criterion approach for the selection of optimal outgroups in phylogeny: Recovering some support for Mandibulata over Myriochelata using mitogenomics. Molecular Phylogenetics and Evolution, 2008, 48, 103-111. | 1.2 | 117 |
| 25 | Gnathostomulidaâ€"An Enigmatic Metazoan Phylum from both Morphological and Molecular Perspectives. Molecular Phylogenetics and Evolution, 1998, 9, 72-79. | 1.2 | 111 |
| 26 | OMA standalone: orthology inference among public and custom genomes and transcriptomes. Genome Research, 2019, 29, 1152-1163. | 2.4 | 111 |
| 27 | MtZoa: A general mitochondrial amino acid substitutions model for animal evolutionary studies. Molecular Phylogenetics and Evolution, 2009, 52, 268-272. | 1.2 | 105 |
| 28 | Systematic searches for molecular synapomorphies in model metazoan genomes give some support for Ecdysozoa after accounting for the idiosyncrasies of Caenorhabditis elegans. Evolution & Development, 2004, 6, 164-169. | 1.1 | 104 |
| 29 | Phylogenomic analysis of echinoderm class relationships supports Asterozoa. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140479. | 1.2 | 102 |
| 30 | Topology-dependent asymmetry in systematic errors affects phylogenetic placement of Ctenophora and Xenacoelomorpha. Science Advances, 2020, 6, . | 4.7 | 102 |
| 31 | Evidence for the derivation of the Drosophila fushi tarazu gene from a Hox gene orthologous to lophotrochozoan Lox5. Current Biology, 2000, 10, 349-352. | 1.8 | 88 |
| 32 | Interrelationships of the Gastrotricha and their place among the Metazoa inferred from 18S rRNA genes. Zoologica Scripta, 2006, 35, 251-259. | 0.7 | 88 |
| 33 | Mitogenomics and phylogenomics reveal priapulid worms as extant models of the ancestral Ecdysozoan. Evolution & Development, 2006, 8, 502-510. | 1.1 | 88 |
| 34 | A software tool â€˜CroCoâ€™ detects pervasive cross-species contamination in next generation sequencing data. BMC Biology, 2018, 16, 28. | 1.7 | 82 |
| 35 | Evolution of 28S Ribosomal DNA in Chaetognaths: Duplicate Genes and Molecular Phylogeny. Journal of Molecular Evolution, 1997, 44, 135-144. | 0.8 | 77 |
| 36 | Evidence for Multiple Independent Origins of trans-Splicing in Metazoa. Molecular Biology and Evolution, 2010, 27, 684-693. | 3.5 | 71 |

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|---|---|---|---|
| 37 | Improving animal phylogenies with genomic data. Trends in Genetics, 2011, 27, 186-195. | 2.9 | 66 |
| 38 | Of mites and zen : expression studies in a chelicerate arthropod confirm zen is a divergent Hox gene. Development Genes and Evolution, 1998, 208, 591-594. | 0.4 | 64 |
| 39 | Is it possible to reconstruct an accurate cell lineage using CRISPR recorders?. ELife, 2019, 8, . | 2.8 | 62 |
| 40 | The multimeric beta-thymosin found in nematodes and arthropods is not a synapomorphy of the Ecdysozoa. Evolution & Development, 2004, 6, 90-94. | 1.1 | 60 |
| 41 | Lack of support for Deuterostomia prompts reinterpretation of the first Bilateria. Science Advances, 2021, 7, . | 4.7 | 60 |
| 42 | The complete mitochondrial genome of Flustrellidra hispida and the phylogenetic position of Bryozoa among the Metazoa. Molecular Phylogenetics and Evolution, 2006, 40, 195-207. | 1.2 | 57 |
| 43 | Identification of planarian homeobox sequences indicates the antiquity of most Hox/homeotic gene subclasses.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 7227-7231. | 3.3 | 56 |
| 44 | Demise of the Atelocerata?. Nature, 1995, 376, 123-124. | 13.7 | 56 |
| 45 | Elongation Factor 1-Alpha Sequences Alone Do Not Assist in Resolving the Position of the Acoela Within the Metazoa. Molecular Biology and Evolution, 2001, 18, 437-442. | 3.5 | 56 |
| 46 | A sisterly dispute. Nature, 2016, 529, 286-287. | 13.7 | 54 |
| 47 | Turning Hox "signatures" into synapomorphies. Evolution & Development, 2000, 2, 360-364. | 1.1 | 50 |
| 48 | Appendage development in embryos of the oribatid mite Archegozetes longisetosus (Acari, Oribatei,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 0.6 | 45 |
| 49 | Animal phylogeny. Current Biology, 2006, 16, R981-R985. | 1.8 | 45 |
| 50 | Comparative gene expression supports the origin of the incisor and molar process from a single endite in the mandible of the red flour beetle Tribolium castaneum. EvoDevo, 2013, 4, 1. | 1.3 | 45 |
| 51 | Xenoturbella bocki exhibits direct development with similarities to Acoelomorpha. Nature Communications, 2013, 4, 1537. | 5.8 | 43 |
| 52 | The place of phylogeny and cladistics in Evo-Devo research. International Journal of Developmental Biology, 2003, 47, 479-90. | 0.3 | 40 |
| 53 | A parthenogenetic quasi-program causes teratoma-like tumors during aging in wild-type C. elegans. Npj Aging and Mechanisms of Disease, 2018, 4, 6. | 4.5 | 39 |
| 54 | Along came a sea spider. Nature, 2005, 437, 1099-1101. | 13.7 | 38 |

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|---|---|---|---|
| 55 | The mitochondrial genome structure of Xenoturbella bocki(phylum Xenoturbellida) is ancestral within the deuterostomes. BMC Evolutionary Biology, 2009, 9, 107. | 3.2 | 36 |
| 56 | Benchmarked approaches for reconstruction of inÂvitro cell lineages and in silico models of C. elegans and M. musculus developmental trees. Cell Systems, 2021, 12, 810-826.e4. | 2.9 | 36 |
| 57 | Resolving Animal Phylogeny: A Sledgehammer for a Tough Nut?. Developmental Cell, 2008, 14, 457-459. | 3.1 | 35 |
| 58 | Evolution of Hox3 and ftz in arthropods: insights from the crustacean Daphnia pulex. Development Genes and Evolution, 2007, 217, 315-322. | 0.4 | 32 |
| 59 | Orthonectids Are Highly Degenerate Annelid Worms. Current Biology, 2018, 28, 1970-1974.e3. | 1.8 | 31 |
| 60 | Systematic errors in phylogenetic trees. Current Biology, 2021, 31, R59-R64. | 1.8 | 31 |
| 61 | Put a tiger in your tank: the polyclad flatworm Maritigrella crozieri as a proposed model for evo-devo. EvoDevo, 2013, 4, 29. | 1.3 | 29 |
| 62 | Computational discovery of hidden breaks in 28S ribosomal RNAs across eukaryotes and consequences for RNA Integrity Numbers. Scientific Reports, 2019, 9, 19477. | 1.6 | 29 |
| 63 | Light-sheet microscopy for everyone? Experience of building an OpenSPIM to study flatworm development. BMC Developmental Biology, 2016, 16, 22. | 2.1 | 28 |
| 64 | Systematic errors in orthology inference and their effects on evolutionary analyses. IScience, 2021, 24, 102110. | 1.9 | 27 |
| 65 | Extraocular, rod-like photoreceptors in a flatworm express xenopsin photopigment. ELife, 2019, 8, . | 2.8 | 27 |
| 66 | Animal Phylogeny: Back to the Coelomata?. Current Biology, 2004, 14, R274-R276. | 1.8 | 25 |
| 67 | Expression of homothorax and extradenticle mRNA in the legs of the crustacean Parhyale hawaiensis: evidence for a reversal of gene expression regulation in the pancrustacean lineage. Development Genes and Evolution, 2008, 218, 333-339. | 0.4 | 24 |
| 68 | Invertebrate Evolution: Bringing Order to the Molluscan Chaos. Current Biology, 2011, 21, R964-R966. | 1.8 | 24 |
| 69 | Xenoturbellida: The fourth deuterostome phylum and the diet of worms. Genesis, 2008, 46, 580-586. | 0.8 | 23 |
| 70 | Feeding ecology of Xenoturbella bocki (phylum Xenoturbellida) revealed by genetic barcoding. Molecular Ecology Resources, 2008, 8, 18-22. | 2.2 | 23 |
| 71 | Comparative gene expression in the heads of Drosophila melanogaster and Tribolium castaneum and the segmental affinity of the Drosophila hypopharyngeal lobes. Evolution & Development, 2009, 11, 88-96. | 1.1 | 22 |
| 72 | The mitochondrial genomes of the acoelomorph worms Paratomella rubra, Isodiametra pulchra and Archaphanostoma ylvae. Scientific Reports, 2017, 7, 1847. | 1.6 | 22 |

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|---|---|---|---|
| 73 | Animal Phylogeny: Fatal Attraction. Current Biology, 2005, 15, R296-R299. | 1.8 | 21 |
| 74 | The mitochondrial genome of Priapulus caudatus Lamarck (Priapulida: Priapulidae). Gene, 2007, 389, 96-105. | 1.0 | 19 |
| 75 | Cap'n'collar differentiates the mandible from the maxilla in the beetle Tribolium castaneum. EvoDevo, 2012, 3, 25. | 1.3 | 18 |
| 76 | Molecular developmental evidence for a subcoxal origin of pleurites in insects and identity of the subcoxa in the gnathal appendages. Scientific Reports, 2015, 5, 15757. | 1.6 | 18 |
| 77 | Affinity for arrow worms. Nature, 2004, 431, 254-256. | 13.7 | 15 |
| 78 | Phylogenomics. Current Biology, 2007, 17, R945-R946. | 1.8 | 15 |
| 79 | Cellular dynamics during regeneration of the flatworm Monocelissp. (Proseriata, Platyhelminthes). EvoDevo, 2014, 5, 37. | 1.3 | 14 |
| 80 | Regulatory circuit rewiring and functional divergence of the duplicate admp genes in dorsoventral axial patterning. Developmental Biology, 2016, 410, 108-118. | 0.9 | 14 |
| 81 | Zoology: War of the Worms. Current Biology, 2016, 26, R335-R337. | 1.8 | 13 |
| 82 | SALMFamide2 and serotonin immunoreactivity in the nervous system of some acoels (<scp>X</scp>enacoelomorpha). Journal of Morphology, 2018, 279, 589-597. | 0.6 | 13 |
| 83 | Animal Evolution: Once upon a Time. Current Biology, 2009, 19, R339-R341. | 1.8 | 11 |
| 84 | The Complete Mitochondrial Genome of the Geophilomorph Centipede Strigamia maritima. PLoS ONE, 2015, 10, e0121369. | 1.1 | 11 |
| 85 | Spermatozoon ultrastructure of Xenoturbella bocki (Westblad 1949). Acta Zoologica, 2011, 92, 109-115. | 0.6 | 10 |
| 86 | CeLaVi: an interactive cell lineage visualization tool. Nucleic Acids Research, 2021, 49, W80-W85. | 6.5 | 9 |
| 87 | A Single Origin of the Central Nervous System?. Cell, 2007, 129, 237-239. | 13.5 | 8 |
| 88 | Reinvestigating the early embryogenesis in the flatworm Maritigrella crozieri highlights the unique spiral cleavage program found in polyclad flatworms. EvoDevo, 2019, 10, 12. | 1.3 | 8 |
| 89 | Field et al. Redux.. EvoDevo, 2013, 4, 5. | 1.3 | 6 |
| 90 | Cladistic analyses of molecular characters: The good, the bad and the ugly. Contributions To Zoology, 2002, 71, 93-100. | 0.2 | 5 |

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|---|---|---|---|
| 91 | Mollusc Evolution: Seven Shells on the Sea Shore. Current Biology, 2013, 23, R952-R954. | 1.8 | 5 |
| 92 | The evolution of the animals: introduction to a Linnean tercentenary celebration. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1421-1424. | 1.8 | 4 |
| 93 | The Animal Tree of Life. Science, 2013, 339, 764-766. | 6.0 | 4 |
| 94 | The mitochondrial genomes of the mesozoansIntoshia linei,Dicyemasp. andDicyema japonicum. Parasitology Open, 2018, 4, . | 0.9 | 2 |
| 95 | Evolution: Arrow Worms Find Their Place on the Tree ofÂLife. Current Biology, 2019, 29, R152-R154. | 1.8 | 1 |
| 96 | Nucleusâ€“Plasma Membrane Contact Sites Are Formed During Spermiogenesis in the Acoel Symsagittifera roscoffensis. Contact (Thousand Oaks (Ventura County, Calif )), 2020, 3, 251525642092635. | 0.4 | 1 |