# Sustainable computational science: the ReScience initia

Citation Report

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Replicability or reproducibility? On the replication crisis in computational neuroscience and sharing only relevant detail. Journal of Computational Neuroscience, 2018, 45, 163-172. | 0.6 | 61 |
| 2 | â€œReproducibleâ€•Research in Mathematical Sciences Requires Changes in our Peer Review Culture and Modernization of our Current Publication Approach. Bulletin of Mathematical Biology, 2018, 80, 3095-3105. | 0.9 | 17 |
| 3 | Reproducing Polychronization: A Guide to Maximizing the Reproducibility of Spiking Network Models. Frontiers in Neuroinformatics, 2018, 12, 46. | 1.3 | 34 |
| 4 | Computational Models for Calcium-Mediated Astrocyte Functions. Frontiers in Computational Neuroscience, 2018, 12, 14. | 1.2 | 64 |
| 5 | Re-run, Repeat, Reproduce, Reuse, Replicate: Transforming Code into Scientific Contributions. Frontiers in Neuroinformatics, 2017, 11, 69. | 1.3 | 64 |
| 6 | Challenges in Reproducibility, Replicability, and Comparability of Computational Models and Tools for Neuronal and Glial Networks, Cells, and Subcellular Structures. Frontiers in Neuroinformatics, 2018, 12, 20. | 1.3 | 22 |
| 7 | Neuroinformatics and Computational Modelling as Complementary Tools for Neurotoxicology Studies. Basic and Clinical Pharmacology and Toxicology, 2018, 123, 56-61. | 1.2 | 5 |
| 8 | Rinse and Repeat: Understanding the Value of Replication across Different Ways of Knowing. Publications, 2019, 7, 52. | 1.9 | 18 |
| 9 | ReScience C: A Journal for Reproducible Replications in Computational Science. Lecture Notes in Computer Science, 2019, , 150-156. | 1.0 | 3 |
| 10 | Can You Repeat That? Exploring the Definition of a Successful Model Replication in Health Economics. Pharmacoeconomics, 2019, 37, 1371-1381. | 1.7 | 6 |
| 11 | Automatised pharmacophoric deconvolution of plant extracts â€" application toCinchonabark crude extract. Faraday Discussions, 2019, 218, 441-458. | 1.6 | 1 |
| 12 | Open collaborative writing with Manubot. PLoS Computational Biology, 2019, 15, e1007128. | 1.5 | 51 |
| 13 | Successes and Struggles with Computational Reproducibility: Lessons from the Fragile Families Challenge. Socius, 2019, 5, 237802311984980. | 1.1 | 10 |
| 14 | A Review of Microsoft Academic Services for Science of Science Studies. Frontiers in Big Data, 2019, 2, 45. | 1.8 | 88 |
| 15 | Opportunities in Open Science With AI. Frontiers in Big Data, 2019, 2, 26. | 1.8 | 10 |
| 16 | Finite element analysis of the rotator cuff: A systematic review. Clinical Biomechanics, 2020, 71, 73-85. | 0.5 | 2 |
| 17 | Double trouble? The communication dimension of the reproducibility crisis in experimental psychology and neuroscience. European Journal for Philosophy of Science, 2020, 10, 1. | 0.6 | 8 |
| 18 | Computational experiment design for operations model simulation. Electric Power Systems Research, 2020, 189, 106680. | 2.1 | 7 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 19 | HOW TO MAKE A PIE: REPRODUCIBLE RESEARCH FOR EMPIRICAL ECONOMICS AND ECONOMETRICS. Journal of Economic Surveys, 2020, 34, 1134-1169. | 3.7 | 5 |
| 20 | Calculating with Permanent Marker: How Blockchains Record Immutable Mistakes in Computational Chemistry. Journal of Physical Chemistry Letters, 2020, 11, 6618-6620. | 2.1 | 3 |
| 21 | International Collaboration in Open Access Publications: How Income Shapes International Collaboration. Publications, 2020, 8, 13. | 1.9 | 11 |
| 22 | Overview of green business practices within the Bangladeshi RMG industry: competitiveness and sustainable development perspective. Environmental Science and Pollution Research, 2020, 27, 22888-22901. | 2.7 | 26 |
| 23 | Computational chemistry experiments performed directly on a blockchain virtual computer. Chemical Science, 2020, 11, 4644-4647. | 3.7 | 11 |
| 24 | Keeping modelling notebooks with TRACE: Good for you and good for environmental research and management support. Environmental Modelling and Software, 2021, 136, 104932. | 1.9 | 19 |
| 25 | Executable Simulation Model of the Liver. , 2021, , 413-422. | | 0 |
| 26 | Unbiased Recursive Partitioning Enables Robust and Reliable Outcome Prediction in Acute Spinal Cord Injury. Journal of Neurotrauma, 2022, 39, 266-276. | 1.7 | 20 |
| 27 | The role of the elaphrocentre in void galaxy formation. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1223-1238. | 1.6 | 4 |
| 28 | Lessons Learnt on Reproducibility in Machine Learning Based Android Malware Detection. Empirical Software Engineering, 2021, 26, 1. | 3.0 | 9 |
| 29 | Building a model of the brain: from detailed connectivity maps to network organization. European Physical Journal: Special Topics, 2021, 230, 2887-2909. | 1.2 | 4 |
| 30 | Tool-based Support for the FAIR Principles for Control Theoretic Results: The "Automatic Control Knowledge Repository". System Theory, Control and Computing Journal, 2021, 1, 56-67. | 0.3 | 1 |
| 31 | IDENTIFYING THE FACTORS AFFECTING THE REPLICABILITY OF OPEN SOURCE HARDWARE DESIGNS. Proceedings of the Design Society, 2021, 1, 1817-1826. | 0.5 | 4 |
| 33 | â€œAutomatic Control Knowledge Repositoryâ€•â€" A Computational Approach for Simpler and More Robust Reproducibility of Results in Control Theory. , 2020, , . | | 3 |
| 34 | Astrocyte-mediated spike-timing-dependent long-term depression modulates synaptic properties in the developing cortex. PLoS Computational Biology, 2020, 16, e1008360. | 1.5 | 18 |
| 35 | State of the Art and Future Trends in Data Reduction for High-Performance Computing. Supercomputing Frontiers and Innovations, 2020, 7, . | 0.5 | 5 |
| 36 | Brian 2, an intuitive and efficient neural simulator. ELife, 2019, 8, . | 2.8 | 418 |
| 37 | Pixel: a content management platform for quantitative omics data. PeerJ, 2019, 7, e6623. | 0.9 | 2 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 38 | A Systematic Review of Reproducibility Research in Natural Language Processing. , 2021, , . | | 13 |
| 40 | Open-source Software Sustainability Models: Initial White Paper From the Informatics Technology for Cancer Research Sustainability and Industry Partnership Working Group. Journal of Medical Internet Research, 2021, 23, e20028. | 2.1 | 2 |
| 42 | Inferring Mycobacterium bovis transmission between cattle and badgers using isolates from the Randomised Badger Culling Trial. PLoS Pathogens, 2021, 17, e1010075. | 2.1 | 20 |
| 43 | Inishell 2.0: semantically driven automatic GUI generation for scientific models. Geoscientific Model Development, 2022, 15, 365-378. | 1.3 | 4 |
| 59 | Neuronâ€"Glia Interactions and Brain Circuits. Advances in Experimental Medicine and Biology, 2022, 1359, 87-103. | 0.8 | 7 |
| 60 | Mitigating Computer Limitations in Replicating Numerical Simulations of a Neural Network Model With Hodgkin-Huxley-Type Neurons. Frontiers in Neuroinformatics, 2022, 16, . | 1.3 | 2 |
| 61 | Exploring possibilities for solar irradiance prediction from solar photosphere images using recurrent neural networks. Journal of Space Weather and Space Climate, 2022, 12, 19. | 1.1 | 3 |
| 62 | A Modular Workflow for Performance Benchmarking of Neuronal Network Simulations. Frontiers in Neuroinformatics, 2022, 16, . | 1.3 | 6 |
| 63 | A Metrological Perspective on Reproducibility in NLP. Computational Linguistics, 0, , 1-10. | 2.5 | 1 |
| 64 | HandGCNN model for gesture recognition based voice assistance. Multimedia Tools and Applications, 0, , . | 2.6 | 0 |
| 65 | It's time! Ten reasons to start replicating simulation studies. , 0, 2, . | | 6 |
| 66 | Detection of <i>Klebsiella pneumoniae</i> human gut carriage: a comparison of culture, qPCR, and whole metagenomic sequencing methods. Gut Microbes, 2022, 14, . | 4.3 | 10 |
| 67 | Connectivity concepts in neuronal network modeling. PLoS Computational Biology, 2022, 18, e1010086. | 1.5 | 12 |
| 68 | Does relativistic cosmology software handle emergent volume evolution?. Classical and Quantum Gravity, 2022, 39, 215007. | 1.5 | 0 |
| 69 | Repeatable high-resolution statistical downscaling through deep learning. Geoscientific Model Development, 2022, 15, 7353-7370. | 1.3 | 5 |
| 70 | Vision, status, and research topics of Natural Language Processing. , 2022, 1, 100001. | | 3 |
| 71 | A Thorough Reproducibility Study on Sentiment Classification: Methodology, Experimental Setting, Results. Information (Switzerland), 2023, 14, 76. | 1.7 | 1 |
| 72 | The Issues with Journal Issues: Let Journals Be Digital Libraries. Publications, 2023, 11, 7. | 1.9 | 1 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 73 | On the Analyses of Medical Images Using Traditional Machine Learning Techniques and Convolutional Neural Networks. Archives of Computational Methods in Engineering, 2023, 30, 3173-3233. | 6.0 | 16 |
| 74 | Replication of the natural selection of bad science. Royal Society Open Science, 2023, 10, . | 1.1 | 3 |
| 75 | Analysis of Network Models with Neuron-Astrocyte Interactions. Neuroinformatics, 2023, 21, 375-406. | 1.5 | 4 |
| 79 | Laying Foundations to Quantify the â€œEffort of Reproducibilityâ€•. , 2023, , . | | 0 |
| 84 | Review of gene expression using microarray and RNA-seq. , 2024, , 159-187. | | 0 |
| 85 | Identifying Quality Mersenne Twister Streams for Parallel Stochastic Simulations. , 2023, , . | | 0 |