MaÃ«l MontÃ©vil

List of Publications by Year
in descending order

36 papers	1,072 citations	516681 16 h-index	454934 30 g-index
48 all docs	48 docs citations	48 times ranked	509 citing authors

#	Article	IF	Citations
1	Historicity at the heart of biology. Theory in Biosciences, 2022, 141, 165-173.	1.4	13
2	The Identity of Organisms in Scientific Practice: Integrating Historical and Relational Conceptions. Frontiers in Physiology, 2020, 11, 611.	2.8	8
3	A Combined Morphometric and Statistical Approach to Assess Nonmonotonicity in the Developing Mammary Gland of Rats in the CLARITY-BPA Study. Environmental Health Perspectives, 2020, 128, 57001.	6.0	26
4	Measurement in biology is methodized by theory. Biology and Philosophy, 2019, 34, 1.	1.4	18
5	Possibility spaces and the notion of novelty: from music to biology. SynthÃˆse, 2019, 196, 4555-4581.	1.1	16
6	A Primer on Mathematical Modeling in the Study of Organisms and Their Parts. Methods in Molecular Biology, 2018, 1702, 41-55.	0.9	3
7	Springer Handbook of Model-Based Science. Springer Handbooks, 2017, , .	0.6	41
8	Comparing Symmetries in Models and Simulations. , 2017, , 843-856.		3
9	Repetition and Reversibility in Evolution: Theoretical Population Genetics. Boston Studies in the Philosophy and History of Science, 2017, , 275-314.	0.9	3
10	The biological default state of cell proliferation with variation and motility, a fundamental principle for a theory of organisms. Progress in Biophysics and Molecular Biology, 2016, 122, 16-23.	2.9	39
11	Toward a theory of organisms: Three founding principles in search of a useful integration. Progress in Biophysics and Molecular Biology, 2016, 122, 77-82.	2.9	38
12	Modeling mammary organogenesis from biological first principles: Cells and their physical constraints. Progress in Biophysics and Molecular Biology, 2016, 122, 58-69.	2.9	43
13	Theoretical principles for biology: Organization. Progress in Biophysics and Molecular Biology, 2016, 122, 24-35.	2.9	66
14	Theoretical principles for biology: Variation. Progress in Biophysics and Molecular Biology, 2016, 122, 36-50.	2.9	65
15	SAMA: A Method for 3D Morphological Analysis. PLoS ONE, 2016, 11, e0153022.	2.5	12
16	Theoretical approach of ductal morphogenesis. Journal of Theoretical and Applied Vascular Research, 2016, 1, 45-49.	0.0	0
17	In search of principles for a Theory of Organisms. Journal of Biosciences, 2015, 40, 955-968.	1.1	48
18	Biological organisation as closure of constraints. Journal of Theoretical Biology, 2015, 372, 179-191.	1.7	159

#	Article	IF	Citations
19	Ecological Models for Gene Therapy. I. Models for Intraorganismal Ecology. Biological Theory, 2014, 9, 401-413.	1.5	1
20	Ecological Models for Gene Therapy. II. Niche Construction, Nongenetic Inheritance, and Ecosystem Perturbations. Biological Theory, 2014, 9, 414-422.	1.5	1
21	Perspectives on Organisms. Lecture Notes in Morphogenesis, 2014, , .	0.2	84
22	Biological Order as a Consequence of Randomness: Anti-entropy and Symmetry Changes. Lecture Notes in Morphogenesis, 2014, , 215-248.	0.2	2
23	From Single Cells to Tissues: Interactions between the Matrix and Human Breast Cells in Real Time. PLoS ONE, 2014, 9, e93325.	2.5	39
24	Critical Phase Transitions. Lecture Notes in Morphogenesis, 2014, , 137-160.	0.2	0
25	Biological Phase Spaces and Enablement. Lecture Notes in Morphogenesis, 2014, , 187-213.	0.2	0
26	A 2-Dimensional Geometry for Biological Time. Lecture Notes in Morphogenesis, 2014, , 75-97.	0.2	0
27	Lâ€™incompressible complexitÃ© du rÃ©el et la construction Ã©volutive du simple. , 2014, , .		0
28	Extended criticality, phase spaces and enablement in biology. Chaos, Solitons and Fractals, 2013, 55, 64-79.	5.1	29
29	From Bottom-Up Approaches to Levels of Organization and Extended Critical Transitions. Frontiers in Physiology, 2012, 3, 232.	2.8	23
30	No entailing laws, but enablement in the evolution of the biosphere. , 2012, , .		130
31	Randomness Increases Order in Biological Evolution. Lecture Notes in Computer Science, 2012, , 289-308.	1.3	6
32	The Inert vs. the Living State of Matter: Extended Criticality, Time Geometry, Anti-Entropy â€“ An Overview. Frontiers in Physiology, 2012, 3, 39.	2.8	25
33	A 2-dimensional geometry for biological time. Progress in Biophysics and Molecular Biology, 2011, 106, 474-484.	2.9	24
34	From physics to biology by extending criticality and symmetry breakings. Progress in Biophysics and Molecular Biology, 2011, 106, 340-347.	2.9	61
35	Protention and retention in biological systems. Theory in Biosciences, 2011, 130, 107-117.	1.4	15
36	Entropies and the Anthropocene crisis. AI and Society, 0, , 1.	4.6	9