

Thomas Gregor

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

6,153
citations

236925

25
h-index

161849

54
g-index

63
all docs

63
docs citations

63
times ranked

7103
citing authors

#	ARTICLE	IF	CITATIONS
1	TRY plant trait database â€œ enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
2	Probing the Limits to Positional Information. <i>Cell</i> , 2007, 130, 153-164.	28.9	869
3	Stability and Nuclear Dynamics of the Bicoid Morphogen Gradient. <i>Cell</i> , 2007, 130, 141-152.	28.9	692
4	Dynamic interplay between enhancerâ€™promoter topology and gene activity. <i>Nature Genetics</i> , 2018, 50, 1296-1303.	21.4	326
5	Quantitative Imaging of Transcription in Living <i>Drosophila</i> Embryos Links Polymerase Activity to Patterning. <i>Current Biology</i> , 2013, 23, 2140-2145.	3.9	307
6	Diffusion and scaling during early embryonic pattern formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18403-18407.	7.1	283
7	The Onset of Collective Behavior in Social Amoebae. <i>Science</i> , 2010, 328, 1021-1025.	12.6	283
8	Precise Developmental Gene Expression Arises from Globally Stochastic Transcriptional Activity. <i>Cell</i> , 2013, 154, 789-800.	28.9	253
9	Dynamic regulation of <i>eve</i> stripe 2 expression reveals transcriptional bursts in living <i>Drosophila</i> embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10598-10603.	7.1	223
10	The Formation of the Bicoid Morphogen Gradient Requires Protein Movement from Anteriorly Localized mRNA. <i>PLoS Biology</i> , 2011, 9, e1000596.	5.6	159
11	Accurate measurements of dynamics and reproducibility in small genetic networks. <i>Molecular Systems Biology</i> , 2013, 9, 639.	7.2	147
12	Enhancer additivity and non-additivity are determined by enhancer strength in the <i>Drosophila</i> embryo. <i>ELife</i> , 2015, 4, .	6.0	146
13	Positional information, in bits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16301-16308.	7.1	144
14	Optimal Decoding of Cellular Identities in a Genetic Network. <i>Cell</i> , 2019, 176, 844-855.e15.	28.9	132
15	Diverse Spatial Expression Patterns Emerge from Unified Kinetics of Transcriptional Bursting. <i>Cell</i> , 2018, 175, 835-847.e25.	28.9	117
16	Dynamic interpretation of maternal inputs by the <i>Drosophila</i> segmentation gene network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6724-6729.	7.1	104
17	The Role of Input Noise in Transcriptional Regulation. <i>PLoS ONE</i> , 2008, 3, e2774.	2.5	91
18	Shape and function of the Bicoid morphogen gradient in dipteran species with different sized embryos. <i>Developmental Biology</i> , 2008, 316, 350-358.	2.0	78

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19	Transcriptional coupling of distant regulatory genes in living embryos. <i>Nature</i> , 2022, 605, 754-760.	27.8	78
20	Positional Information, Positional Error, and Readout Precision in Morphogenesis: A Mathematical Framework. <i>Genetics</i> , 2015, 199, 39-59.	2.9	63
21	From intracellular signaling to population oscillations: bridging size and time scales in collective behavior. <i>Molecular Systems Biology</i> , 2015, 11, 779.	7.2	56
22	The embryo as a laboratory: quantifying transcription in <i>Drosophila</i> . <i>Trends in Genetics</i> , 2014, 30, 364-375.	6.7	54
23	Maternal Origins of Developmental Reproducibility. <i>Current Biology</i> , 2014, 24, 1283-1288.	3.9	42
24	Modeling oscillations and spiral waves in <i>Dictyostelium</i> populations. <i>Physical Review E</i> , 2015, 91, 062711.	2.1	36
25	The many bits of positional information. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	34
26	Chromosome numbers of the flora of Germany – a new online database of georeferenced chromosome counts and flow cytometric ploidy estimates. <i>Plant Systematics and Evolution</i> , 2017, 303, 1123-1129.	0.9	33
27	Drivers of floristic change in large cities – A case study of Frankfurt/Main (Germany). <i>Landscape and Urban Planning</i> , 2012, 104, 230-237.	7.5	30
28	Fly wing vein patterns have spatial reproducibility of a single cell. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140443.	3.4	28
29	Approaching the molecular origins of collective dynamics in oscillating cell populations. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 574-580.	3.3	26
30	Single mRNA Molecule Detection in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2018, 1649, 127-142.	0.9	21
31	Eco-evolutionary significance of ‘‘colonizers’’. <i>PLoS Biology</i> , 2020, 18, e3000642.	5.6	19
32	Live Imaging of mRNA Synthesis in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2018, 1649, 349-357.	0.9	18
33	Climatic differentiation in polyploid apomictic <i>Ranunculus auricomus</i> complex in Europe. <i>BMC Ecology</i> , 2018, 18, 16.	3.0	18
34	Optogenetic control of the Bicoid morphogen reveals fast and slow modes of gap gene regulation. <i>Cell Reports</i> , 2022, 38, 110543.	6.4	17
35	Minimization of the potential energy surface of Lennard-Jones clusters by quantum optimization. <i>Chemical Physics Letters</i> , 2005, 412, 125-130.	2.6	16
36	Response: Can We Fit All of the Data?. <i>Cell</i> , 2008, 132, 17-18.	28.9	16

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37	Quantifying the Bicoid Morphogen Gradient in Living Fly Embryos. Cold Spring Harbor Protocols, 2012, 2012, pdb.top068536-pdb.top068536.	0.3	16
38	Only accessible information is useful: insights from gradient-mediated patterning. Royal Society Open Science, 2015, 2, 150486.	2.4	14
39	Temporally dynamic antagonism between transcription and chromatin compaction controls stochastic photoreceptor specification in flies. Developmental Cell, 2022, 57, 1817-1832.e5.	7.0	12
40	Genetic variability and morphology of tri- and tetraploid members of the Sorbus aria complex in northern Bavaria. Preslia, 2017, 89, 275-290.	2.8	11
41	New diploid species in the Ranunculus auricomus complex (Ranunculaceae) from W and SE Europe. Willdenowia, 2018, 48, 227.	0.8	11
42	Trading bits in the readout from a genetic network. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
43	Long-lived banks of oospores in lake sediments from the Trans-Urals (Russia) indicated by germination in over 300 years old radiocarbon dated sediments. Aquatic Botany, 2014, 119, 84-90.	1.6	10
44	The Impact of Space and Time on the Functional Output of the Genome. Cold Spring Harbor Perspectives in Biology, 2021, , a040378.	5.5	10
45	Diploidy suggests hybrid origin and sexuality in Sorbus subgen. Tormaria from Thuringia, Central Germany. Plant Systematics and Evolution, 2014, 300, 2169-2175.	0.9	9
46	Beschreibung der Characeen-Arten Deutschlands. , 2016, , 209-572.		9
47	Eleocharis mamillata “ Distribution and infraspecific differentiation. Folia Geobotanica, 2003, 38, 49-64.	0.9	7
48	Latent space of a small genetic network: Geometry of dynamics and information. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	6
49	Comprehensive and reliable: a new online portal of critical plant taxa in Germany. Plant Systematics and Evolution, 2017, 303, 1109-1113.	0.9	5
50	(2820) Proposal to conserve the name <i>Potentilla</i> (<i>Rosaceae</i> : <i>Potentilleae</i>) with a conserved type. Taxon, 2021, 70, 680-681.	0.7	4
51	(2303) Proposal to conserve the name <i>Chara hispida</i> (<i>Characeae</i>) with a conserved type. Taxon, 2014, 63, 933-934.	0.7	3
52	<i>Achillea roseoalba</i> “ a long ignored relict in Germany. Feddes Repertorium, 2011, 122, 268-274.	0.5	1
53	Sorting Sloppy Sonic. Cell, 2013, 153, 509-510.	28.9	1
54	Beyond D'Arcy Thompson: Future challenges for quantitative biology. Mechanisms of Development, 2017, 145, 10-12.	1.7	1

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55	A synopsis of the <i>Centaurea soskai</i> and <i>triniifolia</i> group (<i>Centaurea</i> sect. <i>Acrolophus</i>) in the Prespa area and Northern Pindos. <i>Phytotaxa</i> , 2018, 348, 77.	0.3	1
56	(2721) Proposal to conserve the name <i>Chara flexilis</i> (<sc> <i>Nitella flexilis</i> </sc>) (<i>Characeae</i>) with a conserved type. <i>Taxon</i> , 2019, 68, 1363-1364.	0.7	1
57	Neotypification of <i>Potentilla Cinerea</i> Vill. (<i>Rosaceae</i>). <i>Candollea</i> , 2013, 68, 155.	0.2	0
58	North American distribution of <i>Eleocharis mamillata</i> (<i>Cyperaceae</i>) and confusion with <i>E. macrostachya</i> and <i>E. palustris</i> . <i>Rhodora</i> , 2014, 116, 163-186.	0.1	0
59	Nomenklatur. , 2016, , 51-55.		0