Smadar Ben-tabou De-leon

List of Publications by Year
in descending order

29 papers	916 citations	566801 15 h-index	500791 28 g-index
35 all docs	35 docs citations	35 times ranked	900 citing authors

#	Article	IF	Citations
1	Gene Regulation: Gene Control Network in Development. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 191-212.	18.3	145
2	Exciton-exciton interactions in quantum wells: Optical properties and energy and spin relaxation. Physical Review B, 2001, 63, .	1.1	94
3	Modeling the dynamics of transcriptional gene regulatory networks for animal development. Developmental Biology, 2009, 325, 317-328.	0.9	84
4	The regulatory genome and the computer. Developmental Biology, 2007, 310, 187-195.	0.9	76
5	Gene regulatory control in the sea urchin aboral ectoderm: Spatial initiation, signaling inputs, and cell fate lockdown. Developmental Biology, 2013, 374, 245-254.	0.9	61
6	Information processing at the <i>foxa</i> node of the sea urchin endomesoderm specification network. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10103-10108.	3.3	55
7	Neurons culturing and biophotonic sensing using porous silicon. Applied Physics Letters, 2004, 84, 4361-4363.	1.5	49
8	Possible cooption of a VEGF-driven tubulogenesis program for biomineralization in echinoderms. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12353-12362.	3.3	49
9	Comparative Study of Regulatory Circuits in Two Sea Urchin Species Reveals Tight Control of Timing and High Conservation of Expression Dynamics. PLoS Genetics, 2015, 11, e1005435.	1.5	44
10	Quantitative developmental transcriptomes of the Mediterranean sea urchin Paracentrotus lividus. Marine Genomics, 2016, 25, 89-94.	0.4	23
11	Deciphering the Underlying Mechanism of Specification and Differentiation: The Sea Urchin Gene Regulatory Network. Science's STKE: Signal Transduction Knowledge Environment, 2006, 2006, pe47-pe47.	4.1	22
12	Parallel embryonic transcriptional programs evolve under distinct constraints and may enable morphological conservation amidst adaptation. Developmental Biology, 2017, 430, 202-213.	0.9	21
13	Energy spectrum of heterostructures. Solid State Communications, 1997, 104, 257-262.	0.9	20
14	Experimentally based sea urchin gene regulatory network and the causal explanation of developmental phenomenology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2009, 1, 237-246.	6.6	20
15	The conserved role and divergent regulation of foxa, a pan-eumetazoan developmental regulatory gene. Developmental Biology, 2011, 357, 21-26.	0.9	18
16	VEGF signaling activates the matrix metalloproteinases, MmpL7 and MmpL5 at the sites of active skeletal growth and MmpL7 regulates skeletal elongation. Developmental Biology, 2021, 473, 80-89.	0.9	18
17	Developmental transcriptomes of the sea star, Patiria miniata, illuminate how gene expression changes with evolutionary distance. Scientific Reports, 2019, 9, 16201.	1.6	15
18	The Evolution of Biomineralization through the Co-Option of Organic Scaffold Forming Networks. Cells, 2022, 11, 595.	1.8	14

#	Article	IF	Citations
19	InAs/GaSb interfaces; the problem of boundary conditions. Journal of Physics Condensed Matter, 1998, 10, 8715-8729.	0.7	12
20	The biological regulation of sea urchin larval skeletogenesis â€“ From genes to biomineralized tissue. Journal of Structural Biology, 2021, 213, 107797.	1.3	12
21	Calcium-vesicles perform active diffusion in the sea urchin embryo during larval biomineralization. PLoS Computational Biology, 2021, 17, e1008780.	1.5	11
22	The spin structure of quasiâ€“two-dimensional biexcitons in quantum wells. Europhysics Letters, 2002, 59, 728-734.	0.7	9
23	Distinct regulatory states control the elongation of individual skeletal rods in the sea urchin embryo. Developmental Dynamics, 2022, 251, 1322-1339.	0.8	9
24	Mature maternal mRNAs are longer than zygotic ones and have complex degradation kinetics in sea urchin. Developmental Biology, 2016, 414, 121-131.	0.9	8
25	Regulatory heterochronies and loose temporal scaling between sea star and sea urchin regulatory circuits. International Journal of Developmental Biology, 2017, 61, 347-356.	0.3	8
26	The tolerance to hypoxia is defined by a time-sensitive response of the gene regulatory network in sea urchin embryos. Development (Cambridge), 2021, 148, .	1.2	7
27	Perturbation analysis analyzedâ€”mathematical modeling of intact and perturbed gene regulatory circuits for animal development. Developmental Biology, 2010, 344, 1110-1118.	0.9	4
28	Robustness and Accuracy in Sea Urchin Developmental Gene Regulatory Networks. Frontiers in Genetics, 2016, 7, 16.	1.1	4
29	The network remains. History and Philosophy of the Life Sciences, 2017, 39, 32.	0.6	0