Luigia Santella

List of Publications by Year
in descending order

87 papers	3,371 citations	126907 33 h-index	155660 55 g-index
90 all docs	90 docs citations	90 times ranked	2145 citing authors

#	Article	IF	Citations
1	Regulation of the Actin Cytoskeleton-Linked Ca2+ Signaling by Intracellular pH in Fertilized Eggs of Sea Urchin. Cells, 2022, 11, 1496.	4.1	6
2	Calcium | Intracellular Calcium Waves. , 2021, , 669-677.		0
3	Fertilization and development of Arbacia lixula eggs are affected by osmolality conditions. BioSystems, 2021, 206, 104448.	2.0	8
4	Editorial: Waves in fertilization, cell division and embryogenesis. BioSystems, 2021, 210, 104560.	2.0	0
5	Effects of Dithiothreitol on Fertilization and Early Development in Sea Urchin. Cells, 2021, 10, 3573.	4.1	7
6	Effects of Salinity and pH of Seawater on the Reproduction of the Sea UrchinParacentrotus lividus. Biological Bulletin, 2020, 239, 13-23.	1.8	19
7	Nicotine Induces Polyspermy in Sea Urchin Eggs through a Non-Cholinergic Pathway Modulating Actin Dynamics. Cells, 2020, 9, 63.	4.1	8
8	Cellular and molecular aspects of oocyte maturation and fertilization: a perspective from the actin cytoskeleton. Zoological Letters, 2020, 6, 5.	1.3	26
9	Oxygen supersaturation mitigates the impact of the regime of contaminated sediment reworking on sea urchin fertilization process. Marine Environmental Research, 2020, 158, 104951.	2.5	7
10	Sodium-mediated fast electrical depolarization does not prevent polyspermic fertilization in Paracentrotus lividus eggs. Zygote, 2019, 27, 241-249.	1.1	19
11	Contributions of suboolemmal acidic vesicles and microvilli to the intracellular Ca²⁺ increase in the sea urchin eggs at fertilization. International Journal of Biological Sciences, 2019, 15, 757-775.	6.4	17
12	Altered actin cytoskeleton in ageing eggs of starfish affects fertilization process. Experimental Cell Research, 2019, 381, 179-190.	2.6	18
13	Polyspermy-preventing mechanisms in sea urchin eggs: New developments for an old problem. Biochemical and Biophysical Research Communications, 2019, 520, 695-698.	2.1	4
14	Maturation and fertilization of echinoderm eggs: Role of actin cytoskeleton dynamics. Biochemical and Biophysical Research Communications, 2018, 506, 361-371.	2.1	26
15	Disassembly of Subplasmalemmal Actin Filaments Induces Cytosolic Ca2+ Increases in Astropecten aranciacus Eggs. Cellular Physiology and Biochemistry, 2018, 48, 2011-2034.	1.6	19
16	Fertilization in Starfish and Sea Urchin: Roles of Actin. Results and Problems in Cell Differentiation, 2018, 65, 33-47.	0.7	9
17	De novo assembly of a transcriptome from the eggs and early embryos of Astropecten aranciacus. PLoS ONE, 2017, 12, e0184090.	2.5	9
18	New insights into negative effects of lithium on sea urchin Paracentrotus lividus embryos. Scientific Reports, 2016, 6, 32157.	3.3	23

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19	Calcium and actin in the saga of awakening oocytes. Biochemical and Biophysical Research Communications, 2015, 460, 104-113.	2.1	48
20	Ca2+ influx-linked protein kinase C activity regulates the Î²-catenin localization, micromere induction signalling and the oralâ€“aboral axis formation in early sea urchin embryos. Zygote, 2015, 23, 426-446.	1.1	7
21	Novel Ca2+ increases in the maturing oocytes of starfish during the germinal vesicle breakdown. Cell Calcium, 2015, 58, 500-510.	2.4	18
22	Assisted yes, but where do we draw the line?. Reproductive BioMedicine Online, 2015, 31, 476-478.	2.4	40
23	Early events of fertilization in sea urchin eggs are sensitive to actin-binding organic molecules. Biochemical and Biophysical Research Communications, 2014, 450, 1166-1174.	2.1	43
24	INTRODUCTION. Biochemical and Biophysical Research Communications, 2014, 450, 1133-1134.	2.1	0
25	Actin Cytoskeleton and Fertilization in Starfish Eggs. , 2014, , 141-155.		5
26	Antibody against the actin-binding protein depactin attenuates Ca2+ signaling in starfish eggs. Biochemical and Biophysical Research Communications, 2013, 441, 301-307.	2.1	16
27	Calcium | Calcium Signaling by Cyclic ADP-Ribose and NAADP. , 2013, , 609-614.		0
28	Fertilization in echinoderms. Biochemical and Biophysical Research Communications, 2012, 425, 588-594.	2.1	61
29	Effects of Ionomycin on Egg Activation and Early Development in Starfish. PLoS ONE, 2012, 7, e39231.	2.5	43
30	Actin, more than just a housekeeping protein at the scene of fertilization. Science China Life Sciences, 2011, 54, 733-743.	4.9	28
31	The Biphasic Increase of PIP2 in the Fertilized Eggs of Starfish: New Roles in Actin Polymerization and Ca2+ Signaling. PLoS ONE, 2010, 5, e14100.	2.5	41
32	Guanine Nucleotides in the Meiotic Maturation of Starfish Oocytes: Regulation of the Actin Cytoskeleton and of Ca2+ Signaling. PLoS ONE, 2009, 4, e6296.	2.5	20
33	Roles of the actinâ€binding proteins in intracellular Ca²⁺ signalling. Acta Physiologica, 2009, 195, 61-70.	3.8	28
34	The actin cytoskeleton in meiotic maturation and fertilization of starfish eggs. Biochemical and Biophysical Research Communications, 2009, 384, 141-143.	2.1	15
35	Actin cytoskeleton modulates calcium signaling during maturation of starfish oocytes. Developmental Biology, 2008, 320, 426-435.	2.0	48
36	Alteration of the Cortical Actin Cytoskeleton Deregulates Ca2+ Signaling, Monospermic Fertilization, and Sperm Entry. PLoS ONE, 2008, 3, e3588.	2.5	76

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37	The role of the actin cytoskeleton in calcium signaling in starfish oocytes. International Journal of Developmental Biology, 2008, 52, 571-584.	0.6	26
38	Calcium and fertilization. New Comprehensive Biochemistry, 2007, , 425-443.	0.1	3
39	NAADP and InsP3 play distinct roles at fertilization in starfish oocytes. Developmental Biology, 2006, 294, 24-38.	2.0	44
40	Pharmacological characterization of NAADP-induced Ca2+ signals in starfish oocytes. Biochemical and Biophysical Research Communications, 2006, 348, 329-336.	2.1	31
41	Modulation of calcium signalling by the actin-binding protein cofilin. Biochemical and Biophysical Research Communications, 2006, 348, 109-114.	2.1	45
42	The cell cycle: a new entry in the field of Ca2+ signaling. Cellular and Molecular Life Sciences, 2005, 62, 2405-2413.	5.4	54
43	NAADP: A New Second Messenger Comes of Age. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2005, 5, 70-72.	3.4	24
44	Calcium and fertilization: the beginning of life. Trends in Biochemical Sciences, 2004, 29, 400-408.	7.5	99
45	Calcium and fertilization: the beginning of life. Trends in Biochemical Sciences, 2004, 29, 571.	7.5	0
46	Mechanisms of Calcium Elevation in the Micromeres of Sea Urchin Embryos. Biology of the Cell, 2004, 96, 153-167.	2.0	8
47	NAADP triggers the fertilization potential in starfish oocytes. Cell Calcium, 2004, 36, 515-524.	2.4	52
48	Calcium Signaling: Cell Cycle. , 2004, , 246-249.		0
49	Ca2+ signalling and membrane current activated by cADPr in starfish oocytes. Pflugers Archiv European Journal of Physiology, 2003, 446, 541-552.	2.8	17
50	The M-phase-promoting Factor Modulates the Sensitivity of the Ca2+ Stores to Inositol 1,4,5-Trisphosphate via the Actin Cytoskeleton. Journal of Biological Chemistry, 2003, 278, 42505-42514.	3.4	44
51	NAADP activates a Ca 2+ current that is dependent on Fâ€actin cytoskeleton. FASEB Journal, 2003, 17, 1-20.	0.5	62
52	Activated M-phase-promoting factor (MPF) is exported from the nucleus of starfish oocytes to increase the sensitivity of the Ins(1,4,5)P3 receptors. Biochemical Society Transactions, 2003, 31, 79-82.	3.4	22
53	Ca2+-dependent phosphatidylserine synthesis in immature and mature starfish oocytes.. Acta Biochimica Polonica, 2003, 50, 377-387.	0.5	2
54	Activation of oocytes by latrunculin A. FASEB Journal, 2002, 16, 1050-1056.	0.5	48

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55	Ca2+ Response to cADPr during Maturation and Fertilization of Starfish Oocytes. Biochemical and Biophysical Research Communications, 2002, 290, 1015-1021.	2.1	37
56	Role of the actin cytoskeleton in store-mediated calcium entry in glioma C6 cells. Biochemical and Biophysical Research Communications, 2002, 296, 484-491.	2.1	25
57	Calcium and Calcium-Linked Second Messengers are Main Actors in the Maturation and Fertilization of Starfish Oocytes. , 2002, , 381-396.		0
58	Generation, Control, and Processing of Cellular Calcium Signals. Critical Reviews in Biochemistry and Molecular Biology, 2001, 36, 107-260.	5.2	459
59	NAADP+initiates the Ca2+response during fertilization of starfish oocytes. FASEB Journal, 2001, 15, 2257-2267.	0.5	87
60	Nicotinic Acid Adenine Dinucleotide Phosphate-induced Ca2+ Release. Journal of Biological Chemistry, 2000, 275, 8301-8306.	3.4	101
61	Breakdown of Cytoskeletal Proteins during Meiosis of Starfish Oocytes and Proteolysis Induced by Calpain. Experimental Cell Research, 2000, 259, 117-126.	2.6	27
62	Cortical Granule Translocation during Maturation of Starfish Oocytes Requires Cytoskeletal Rearrangement Triggered by InsP3-Mediated Ca2+Release. Experimental Cell Research, 1999, 248, 567-574.	2.6	52
63	Calcium, protease action, and the regulation of the cell cycle. Cell Calcium, 1998, 23, 123-130.	2.4	74
64	The Role of Calcium in the Cell Cycle: Facts and Hypotheses. Biochemical and Biophysical Research Communications, 1998, 244, 317-324.	2.1	166
65	Separate Activation of the Cytoplasmic and Nuclear Calcium Pools in Maturing Starfish Oocytes. Biochemical and Biophysical Research Communications, 1998, 252, 1-4.	2.1	43
66	Ligand-Activated Ca2+ Channels in the Nuclear Envelope of Starfish Oocytes. , 1998, , 227-230.		0
67	Calcium signaling in the cell nucleus. FASEB Journal, 1997, 11, 1091-1109.	0.5	202
68	Association of Calmodulin with Nuclear Structures in Starfish Oocytes and Its Role in the Resumption of Meiosis. FEBS Journal, 1997, 246, 602-610.	0.2	20
69	Effects of 1-methyladenine on nuclear Ca2* transients and meiosis resumption in starfish oocytes are mimicked by the nuclear injection of inositol 1,4,5-trisphosphate and cADP-ribose. Cell Calcium, 1997, 22, 11-20.	2.4	91
70	The Cell Nucleus: An Eldorado to Future Calcium Research?. Journal of Membrane Biology, 1996, 153, 83-92.	2.1	37
71	Respiratory metabolism during embryonic subitaneous and diapause development in Pontella mediterranea (Crustacea, Copepoda). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1996, 166, 157-163.	1.5	22
72	Calcium regulation and calcium function in the nucleus of starfish oocytes. Invertebrate Reproduction and Development, 1996, 30, 7-15.	0.8	9

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73	Fertilization of sea urchin eggs in space and subsequent development under normal conditions. Advances in Space Research, 1994, 14, 197-208.	2.6	13
74	Voltage clamp of the nuclear envelope. Proceedings of the Royal Society B: Biological Sciences, 1994, 255, 119-124.	2.6	20
75	Reinitiation of Meiosis in Starfish Oocytes Requires an Increase in Nuclear Ca2+. Biochemical and Biophysical Research Communications, 1994, 203, 674-680.	2.1	66
76	Is the human oocyte plasma membrane polarized?. Human Reproduction, 1992, 7, 999-1003.	0.9	81
77	Fertilization envelope in diapause eggs ofPontella mediterranea (crustacea, copepoda). Molecular Reproduction and Development, 1992, 33, 463-469.	2.0	13
78	Tight junctions and cavitation in the human pre-embryo. Molecular Reproduction and Development, 1992, 32, 81-87.	2.0	44
79	Intercellular communication in the early human embryo. Molecular Reproduction and Development, 1991, 29, 22-28.	2.0	97
80	Diapause embryos in the neustonic copepodAnomalocera patersoni. Marine Biology, 1991, 108, 387-394.	1.5	50
81	Subitaneous and diapause eggs in Mediterranean populations ofPontella mediterranea (Copepoda:) Tj ETQq1 1 0.784314 rgBT /Overl	1.5	53
82	Cold shock induces actin reorganization and polyspermy in sea urchin eggs. The Journal of Experimental Zoology, 1989, 252, 183-189.	1.4	3
83	Partially Fertilized Sea Urchin Eggs: An Electrophysiological and Morphological Study.. (Sea urchin) Tj ETQq1 1 0.784314 rgBT /Overlo	1.5	5
84	Rapid important paper. Neurochemistry International, 1986, 8, 435-442.	3.8	47
85	The Differentiation of the Vitelline Envelope of Xenopus Oocytes*. (xenopus/oocyte/vitelline) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 189-200.	1.5	7
86	Studies on the differentiation of egg envelopes. Developmental Biology, 1983, 99, 473-481.	2.0	13
87	Electrical coupling of blastomeres in early embryos of ascidians and sea urchins. Experimental Cell Research, 1982, 140, 457-461.	2.6	18