Joseph G Kunkel

List of Publications by Year
in descending order

68	3,584	159525 30	138417 58
papers	citations	h-index	g-index

68	68	68	2200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pollen Tube Growth and the Intracellular Cytosolic Calcium Gradient Oscillate in Phase while Extracellular Calcium Influx Is Delayed.. Plant Cell, 1997, 9, 1999-2010.	3.1	340
2	Growing Pollen Tubes Possess a Constitutive Alkaline Band in the Clear Zone and a Growth-dependent Acidic Tip. Journal of Cell Biology, 1999, 144, 483-496.	2.3	287
3	Proton pump-rich cell secretes acid in skin of zebrafish larvae. American Journal of Physiology - Cell Physiology, 2006, 290, C371-C378.	2.1	178
4	Pollen Tube Growth Oscillations and Intracellular Calcium Levels Are Reversibly Modulated by Actin Polymerization. Plant Physiology, 2008, 146, 1611-1621.	2.3	176
5	Cellular oscillations and the regulation of growth: the pollen tube paradigm. BioEssays, 2000, 23, 86-94.	1.2	146
6	Exocytosis Precedes and Predicts the Increase in Growth in Oscillating Pollen Tubes. Plant Cell, 2009, 21, 3026-3040.	3.1	137
7	NAD(P)H Oscillates in Pollen Tubes and Is Correlated with Tip Growth. Plant Physiology, 2006, 142, 1460-1468.	2.3	119
8	Rhizobium Nod factors induce increases in intracellular free calcium and extracellular calcium influxes in bean root hairs. Plant Journal, 1999, 19, 347-352.	2.8	116
9	Oscillatory Increases in Alkalinity Anticipate Growth and May Regulate Actin Dynamics in Pollen Tubes of Lily. Plant Cell, 2006, 18, 2182-2193.	3.1	112
10	Development and the availability of food in the German cockroach, Blattella germanica (L.). Journal of Insect Physiology, 1966, 12, 227-235.	0.9	109
11	Differential organelle movement on the actin cytoskeleton in lily pollen tubes. Cytoskeleton, 2007, 64, 217-232.	4.4	108
12	Involvement of extracellular calcium influx in the self-incompatibility response ofPapaver rhoeas. Plant Journal, 2002, 29, 333-345.	2.8	105
13	Uncoupling secretion and tip growth in lily pollen tubes: evidence for the role of calcium in exocytosis. Plant Journal, 1999, 19, 379-386.	2.8	103
14	Effect of extracellular calcium, pH and borate on growth oscillations in Lilium formosanum pollen tubes. Journal of Experimental Botany, 2003, 54, 65-72.	2.4	101
15	Calcium entry into pollen tubes. Trends in Plant Science, 2012, 17, 32-38.	4.3	101
16	Selectivity of yolk protein uptake: Comparison of vitellogenins of two insects. Journal of Insect Physiology, 1976, 22, 809-818.	0.9	96
17	Ion Changes in Legume Root Hairs Responding to Nod Factors. Plant Physiology, 2000, 123, 443-452.	2.3	95
18	Pollen Tube Growth and the Intracellular Cytosolic Calcium Gradient Oscillate in Phase while Extracellular Calcium Influx Is Delayed. Plant Cell, 1997, 9, 1999.	3.1	93

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19	Bone as an ion exchange organ: Evidence for instantaneous cell-dependent calcium efflux from bone not due to resorption. Bone, 2005, 37, 545-554.	1.4	65
20	Imaging the actin cytoskeleton in growing pollen tubes. Sexual Plant Reproduction, 2006, 19, 51-62.	2.2	65
21	BODY SHAPE METRICS AND ORGANISMAL EVOLUTION. Evolution; International Journal of Organic Evolution, 1982, 36, 914-933.	1.1	62
22	Cellular oscillations and the regulation of growth: the pollen tube paradigm. BioEssays, 2001, 23, 86-94.	1.2	62
23	Mineral Fine Structure of the American Lobster Cuticle. Journal of Shellfish Research, 2012, 31, 515-526.	0.3	57
24	Processing of pro-vitellogenin in insect fat body: A role for high-mannose oligosaccharide. Developmental Biology, 1986, 116, 422-430.	0.9	51
25	Structure and embryonic degradation of two native vitellins in the cockroach, Periplaneta americana. Insect Biochemistry, 1985, 15, 259-275.	1.8	43
26	COCKROACH MOLTING. II. THE NATURE OF REGENERATION-INDUCED DELAY OF MOLTING HORMONE SECRETION. Biological Bulletin, 1977, 153, 145-162.	0.7	40
27	The specificity of an antiserum against mosquito vitellogenin and its use in a radioimmunological precipitation assay for protein synthesis. Journal of Insect Physiology, 1978, 24, 481-489.	0.9	37
28	Arylphorin ofTrichoplusia ni: Characterization and parasite-induced precocious increase in titer. Archives of Insect Biochemistry and Physiology, 1990, 13, 117-125.	0.6	37
29	Visualization of Highly Dynamic F-Actin Plus Ends in Growing Phaseolus vulgaris Root Hair Cells and Their Responses to Rhizobium etli Nod Factors. Plant and Cell Physiology, 2014, 55, 580-592.	1.5	36
30	Correlation of yolk phosphatase expression with the programmed proteolysis of vitellin inBlattella germanica during embryonic development. Archives of Insect Biochemistry and Physiology, 1988, 9, 237-250.	0.6	35
31	Use of Non-Invasive Ion-Selective Microelectrode Techniques for the Study of Plant Development. , 2006, , 109-137.		29
32	Yolk hydrolase activities associated with polypeptide and oligosaccharide processing ofBlattella germanica vitellin. Archives of Insect Biochemistry and Physiology, 1988, 8, 39-58.	0.6	27
33	Gonadotrophic effect of juvenile hormone in Blattella germanica: A rapid, simple quantitative bioassay. Journal of Insect Physiology, 1973, 19, 1285-1297.	0.9	26
34	Ions and Pollen Tube Growth. , 0, , 47-69.		24
35	Characterization of a heat-stable fraction of lipovitellin and development of an immunoassay for vitellogenin and yolk protein in winter flounder (Pleuronectes americanus). , 1997, 278, 156-166.		23
36	Developmental fate of the yolk protein lipovitellin in embryos and larvae of winter flounder,Pleuronectes americanus. , 1999, 284, 686-695.		23

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37	Studies on ligand recognition by vitellogenin receptors in follicle membrane preparations of the german cockroach, Blattella germanica. Insect Biochemistry, 1988, 18, 395-404.	1.8	22
38	Concanavalin a reactivity and carbohydrate structure of Blattella germanica vitellin. Insect Biochemistry, 1980, 10, 703-714.	1.8	21
39	A Minimal Model Of Metamorphosis: Fat Body Competence to Respond to Juvenile Hormone. , 1981, , 107-129.		21
40	Moulting-cycle regulation of haemolymph protein clearance in cockroaches: Possible size-dependent mechanism. Journal of Insect Physiology, 1987, 33, 155-158.	0.9	19
41	Late migration and seawater entry is physiologically disadvantageous for American shad juveniles. Journal of Fish Biology, 2003, 63, 1521-1537.	0.7	19
42	Cyclic fluctuations in arylphorin, the principal serum storage protein of Lymantria dispar, indicate multiple roles in development. Insect Biochemistry, 1990, 20, 73-82.	1.8	18
43	Carbonate apatite formulation in cuticle structure adds resistance to microbial attack for American lobster. Marine Biology Research, 2013, 9, 27-34.	0.3	17
44	Vitellogenesis in the cockroachNauphoeta cinerea: Separation of two classes of ovarian binding sites and calcium effects on binding and uptake. Archives of Insect Biochemistry and Physiology, 1988, 9, 323-337.	0.6	16
45	Follicle Cell Calmodulin in Blattella germanica: Transcript Accumulation during Vitellogenesis Is Regulated by Juvenile Hormone. Developmental Biology, 1995, 170, 314-320.	0.9	16
46	Experimental modifications of an insect vitellin affect its structure and its uptake by oocytes. Archives of Insect Biochemistry and Physiology, 1988, 9, 179-199.	0.6	13
47	Covariance of ion flux measurements allows new interpretation ofXenopus laevis oocyte physiology. The Journal of Experimental Zoology, 2001, 290, 652-661.	1.4	13
48	Modeling the calcium and phosphate mineralization of American lobster cuticle. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 1601-1611.	0.7	13
49	Calcium fluxes at the bone/plasma interface: Acute effects of parathyroid hormone (PTH) and targeted deletion of PTH/PTH-related peptide (PTHrP) receptor in the osteocytes. Bone, 2018, 116, 135-143.	1.4	13
50	The effect of ions, ion channel blockers, and ionophores on uptake of vitellogenin into cockroach follicles. Developmental Biology, 1990, 142, 386-391.	0.9	12
51	High abundance calmodulin from Blattella germanica eggs binds to vitellin subunits but disappears during vitellin utilization. Insect Biochemistry and Molecular Biology, 1992, 22, 293-304.	1.2	11
52	Patterns of ionic currents around the developing oocyte of the German cockroach, Blattella germanica. Developmental Biology, 1990, 137, 266-275.	0.9	9
53	Most Egg Calmodulin Is a Follicle Cell Contribution to the Cytoplasm of the Blattella germanica Oocyte. Developmental Biology, 1994, 161, 513-521.	0.9	9
54	Purification of two distinct oocyte vitellins and identification of their corresponding vitellogenins in fat body and hemolymph of Blaberus discoidalis. Insect Biochemistry, 1987, 17, 189-198.	1.8	8

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55	Larval-specific serum protein in the order dictyopteraâ€"I. immunologic characterization in larval Blattella germanica and cross-reaction throughout the order. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1974, 47, 697-710.	0.2	7
56	Comparison of Defolliculated Oocytes and Intact Follicles of the Cockroach Using the Vibrating Probe to Record Steady Currents. Developmental Biology, 1994, 162, 111-122.	0.9	7
57	Calcium signalling in pollen of Papaver rhoeas undergoing the self-incompatibility (SI) response. Sexual Plant Reproduction, 2001, 14, 105-110.	2.2	7
58	Assessing the ability of zebrafish scales to contribute to the short-term homeostatic regulation of [Ca2+] in the extracellular fluid during calcemic challenges. Fisheries Science, 2019, 85, 943-959.	0.7	7
59	Demonstration of a voltage dependent calcium current in follicles of the cockroachNauphoeta cinerea. Invertebrate Reproduction and Development, 1990, 18, 159-164.	0.3	4
60	Larval-specific protein in the order dictyopteraâ€"II. Antagonistic effects of ecdysone and regeneration on LSP concentration in the hemolymph of the oriental cockroach, Blatta orientalis. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1975, 51, 177-180.	0.2	3
61	A molting rhythm for serum proteins of the cockroach, Blatta orientalis. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1978, 60, 333-337.	0.2	3
62	A comparative study of the size-heterogeneous high mannose oligosaccharides of some insect vitellins. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1984, 79, 379-390.	0.2	3
63	Analytic Immunologic Techniques. Springer Series in Experimental Entomology, 1988, , 1-41.	0.7	3
64	Ionic components of dorsal and ventral currents in vitellogenic follicles of the cockroach, Blattella germanica. Journal of Insect Physiology, 1994, 40, 323-331.	0.9	2
65	3D-Xray-tomography of American lobster shell-structure. An overview. Fisheries Research, 2017, 186, 372-382.	0.9	2
66	Cleaning insect oocytes by dissection and enzyme treatment. Tissue and Cell, 1990, 22, 349-358.	1.0	1
67	Recognizing incipient epizootic shell disease lesions in the carapace of the American lobster, Homarus americanus. Bulletin of Marine Science, 2018, 94, 863-886.	0.4	1
68	My Adventure Volunteering on NOAA Ships. Fisheries, 2015, 40, 360-361.	0.6	0