

Svetlana V Komarova

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,457
citations

331670

21
h-index

345221

36
g-index

57
all docs

57
docs citations

57
times ranked

2245
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular matrix composition of connective tissues: a systematic review and meta-analysis. <i>Scientific Reports</i> , 2019, 9, 10542.	3.3	149
2	Meta-Analytic Methodology for Basic Research: A Practical Guide. <i>Frontiers in Physiology</i> , 2019, 10, 203.	2.8	110
3	A systematic review and meta-analysis of bone loss in space travelers. <i>Npj Microgravity</i> , 2020, 6, 13.	3.7	99
4	HRâ€pQCT Measures of Bone Microarchitecture Predict Fracture: Systematic Review and Metaâ€Analysis. <i>Journal of Bone and Mineral Research</i> , 2020, 35, 446-459.	2.8	92
5	Mathematical Model of Paracrine Interactions between Osteoclasts and Osteoblasts Predicts Anabolic Action of Parathyroid Hormone on Bone. <i>Endocrinology</i> , 2005, 146, 3589-3595.	2.8	83
6	Exosomal Release of L-Plastin by Breast Cancer Cells Facilitates Metastatic Bone Osteolysis. <i>Translational Oncology</i> , 2019, 12, 462-474.	3.7	66
7	Hyaluronan mediates airway hyperresponsiveness in oxidative lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L891-L903.	2.9	59
8	Is it time to reinvent basic cell culture medium?. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C624-C626.	4.6	55
9	Autocrine signaling is a key regulatory element during osteoclastogenesis. <i>Biology Open</i> , 2014, 3, 767-776.	1.2	44
10	Regulation of Osteoclast Growth and Fusion by mTOR/raptor and mTOR/rictor/Akt. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 54.	3.7	42
11	Meta-analysis of mechanically-stimulated ATP release from mammalian cells. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	41
12	Osteoclast precursors acquire sensitivity to breast cancer derived factors early in differentiation. <i>Bone</i> , 2008, 43, 386-393.	2.9	39
13	Mechanically stimulated ATP release from murine bone cells is regulated by a balance of injury and repair. <i>ELife</i> , 2018, 7, .	6.0	38
14	Breast Cancer-derived Factors Stimulate Osteoclastogenesis through the Ca ²⁺ /Protein Kinase C and Transforming Growth Factor- β /MAPK Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2009, 284, 33662-33670.	3.4	36
15	Bone Health in Patients With Hematopoietic Disorders of Bone Marrow Origin: Systematic Review and Meta- Analysis. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 731-742.	2.8	36
16	Peroxiredoxin 4: A novel secreted mediator of cancer induced osteoclastogenesis. <i>Cancer Letters</i> , 2015, 361, 262-270.	7.2	32
17	Behavioral signs of pain and functional impairment in a mouse model of osteogenesis imperfecta. <i>Bone</i> , 2015, 81, 400-406.	2.9	32
18	Bone adaptation: Safety factors and load predictability in shaping skeletal form. <i>Bone</i> , 2020, 131, 115114.	2.9	31

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19	The protocol for the isolation and cryopreservation of osteoclast precursors from mouse bone marrow and spleen. <i>Cytotechnology</i> , 2016, 68, 105-114.	1.6	28
20	Modeling Interactions among Individual P2 Receptors to Explain Complex Response Patterns over a Wide Range of ATP Concentrations. <i>Frontiers in Physiology</i> , 2016, 7, 294.	2.8	27
21	Fibrillin-1 directly regulates osteoclast formation and function by a dual mechanism. <i>Journal of Cell Science</i> , 2013, 126, 4187-4194.	2.0	26
22	Molecular Signaling Pathways Mediating Osteoclastogenesis Induced by Prostate Cancer Cells. <i>BMC Cancer</i> , 2013, 13, 605.	2.6	23
23	Metabolic phenotype in the mouse model of osteogenesis imperfecta. <i>Journal of Endocrinology</i> , 2017, 234, 279-289.	2.6	23
24	Collagen type I degradation fragments act through the collagen receptor LAIR-1 to provide a negative feedback for osteoclast formation. <i>Bone</i> , 2018, 117, 23-30.	2.9	20
25	Mathematical model for bone mineralization. <i>Frontiers in Cell and Developmental Biology</i> , 2015, 3, 51.	3.7	19
26	Transmission of Mechanical Information by Purinergic Signaling. <i>Biophysical Journal</i> , 2019, 116, 2009-2022.	0.5	18
27	Role of Altered Metabolic Microenvironment in Osteolytic Metastasis. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 435.	3.7	18
28	High-affinity P2Y2 and low-affinity P2X7 receptor interaction modulates ATP-mediated calcium signaling in murine osteoblasts. <i>PLoS Computational Biology</i> , 2021, 17, e1008872.	3.2	17
29	Systematic Characterization of Dynamic Parameters of Intracellular Calcium Signals. <i>Frontiers in Physiology</i> , 2016, 7, 525.	2.8	16
30	Bone Remodeling in Health and Disease: Lessons From Mathematical Modeling. <i>Annals of the New York Academy of Sciences</i> , 2006, 1068, 557-559.	3.8	13
31	Fibrillin-1 regulates white adipose tissue development, homeostasis, and function. <i>Matrix Biology</i> , 2022, 110, 106-128.	3.6	12
32	Role of UDP-Sugar Receptor P2Y14 in Murine Osteoblasts. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2747.	4.1	10
33	Future directions for bone metastasis research – highlights from the 2015 bone and the Oncologist new updates conference (BONUS). <i>Journal of Bone Oncology</i> , 2016, 5, 57-62.	2.4	9
34	Severity of Megakaryocyte-Driven Osteosclerosis in Mpeg6b-Deficient Mice Is Sex-Linked. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 803-813.	2.8	9
35	Bone health in spacefaring rodents and primates: systematic review and meta-analysis. <i>Npj Microgravity</i> , 2021, 7, 19.	3.7	9
36	Editorial: Ectopic Mineralization of Tissues: Mechanisms, Risk Factors, Diseases, and Prevention. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 759702.	3.7	9

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37	Active hematopoiesis triggers exosomal release of PRDX2 that promotes osteoclast formation. <i>Physiological Reports</i> , 2021, 9, e14745.	1.7	8
38	Local membrane deformation and micro-injury lead to qualitatively different responses in osteoblasts. <i>F1000Research</i> , 2014, 3, 162.	1.6	8
39	Population analysis of space travelers. <i>Life Sciences in Space Research</i> , 2020, 27, 1-5.	2.3	7
40	Effects of low frequency cyclic mechanical stretching on osteoclastogenesis. <i>Journal of Biomechanics</i> , 2014, 47, 3750-3757.	2.1	6
41	Can osteoclasts be excluded? (Reply). <i>Nature</i> , 2007, 445, E19-E20.	27.8	5
42	Mathematical modeling of calcium phosphate precipitation in biologically relevant systems: scoping review. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 277-289.	2.8	5
43	Characterization of biomimetic calcium phosphate labeled with fluorescent dextran for quantification of osteoclastic activity. <i>Acta Biomaterialia</i> , 2015, 20, 140-146.	8.3	4
44	Research Note: Effect of light intensity of calcium homeostasis in pullets. <i>Poultry Science</i> , 2022, 101, 101982.	3.4	4
45	A moat around castle walls. <i>Medical Hypotheses</i> , 2006, 67, 698-701.	1.5	3
46	Male but not female mice with severe osteogenesis imperfecta are partially protected from high-fat diet-induced obesity. <i>Molecular Genetics and Metabolism</i> , 2021, 133, 211-221.	1.1	3
47	Megakaryocyte-bone cell interactions: lessons from mouse models of experimental myelofibrosis and related disorders. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C177-C184.	4.6	3
48	Male Marfan mice are predisposed to high-fat diet-induced obesity, diabetes, and fatty liver. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C354-C366.	4.6	3
49	Craniofacial Bones and Teeth in Spacefarers: Systematic Review and Meta-analysis. <i>JDR Clinical and Translational Research</i> , 2023, 8, 113-122.	1.9	2
50	Platelets and osteoblasts: secretome connections. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C347-C353.	4.6	2
51	Mathematical modeling of the role of bone turnover in pH regulation in bone interstitial fluid. <i>Computational Biology and Chemistry</i> , 2021, 94, 107564.	2.3	1
52	Megakaryocyte-Driven Myelofibrosis Leads to Progressive Osteosclerosis in G6b-B Knockout Mice. <i>Blood</i> , 2019, 134, 4199-4199.	1.4	1
53	Simultaneous Fluorescent Recordings of Extracellular ATP and Intracellular Calcium in Mammalian Cells. <i>Bio-protocol</i> , 2019, 9, e3242.	0.4	0
54	Data on body mass, glucose tolerance and bone phenotype of mice with osteogenesis imperfecta on long-term low-fat and high-fat diets. <i>Data in Brief</i> , 2022, 41, 107961.	1.0	0

#	ARTICLE	IF	CITATIONS
55	Bone strength and composition in spacefaring rodents: systematic review and meta-analysis. Npj Microgravity, 2022, 8, 10.	3.7	0