Svetlana V Komarova

List of Publications by Year
in descending order

55	1,457	331670 21	345221 36
papers	citations	h-index	g-index

57	57	57	2245
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Craniofacial Bones and Teeth in Spacefarers: Systematic Review and Meta-analysis. JDR Clinical and Translational Research, 2023, 8, 113-122.	1.9	2
2	Megakaryocyte-bone cell interactions: lessons from mouse models of experimental myelofibrosis and related disorders. American Journal of Physiology - Cell Physiology, 2022, 322, C177-C184.	4.6	3
3	Data on body mass, glucose tolerance and bone phenotype of mice with osteogenesis imperfecta on long-term low-fat and high-fat diets. Data in Brief, 2022, 41, 107961.	1.0	0
4	Bone strength and composition in spacefaring rodents: systematic review and meta-analysis. Npj Microgravity, 2022, 8, 10.	3.7	0
5	Fibrillin-1 regulates white adipose tissue development, homeostasis, and function. Matrix Biology, 2022, 110, 106-128.	3.6	12
6	Research Note: Effect of light intensity of calcium homeostasis in pullets. Poultry Science, 2022, 101, 101982.	3.4	4
7	Male Marfan mice are predisposed to high-fat diet-induced obesity, diabetes, and fatty liver. American Journal of Physiology - Cell Physiology, 2022, 323, C354-C366.	4.6	3
8	Platelets and osteoblasts: secretome connections. American Journal of Physiology - Cell Physiology, 2022, 323, C347-C353.	4.6	2
9	Active hematopoiesis triggers exosomal release of PRDX2 that promotes osteoclast formation. Physiological Reports, 2021, 9, e14745.	1.7	8
10	High-affinity P2Y2 and low-affinity P2X7 receptor interaction modulates ATP-mediated calcium signaling in murine osteoblasts. PLoS Computational Biology, 2021, 17, e1008872.	3.2	17
11	Male but not female mice with severe osteogenesis imperfecta are partially protected from high-fat diet-induced obesity. Molecular Genetics and Metabolism, 2021, 133, 211-221.	1.1	3
12	Bone health in spacefaring rodents and primates: systematic review and meta-analysis. Npj Microgravity, 2021, 7, 19.	3.7	9
13	Mathematical modeling of the role of bone turnover in pH regulation in bone interstitial fluid. Computational Biology and Chemistry, 2021, 94, 107564.	2.3	1
14	Editorial: Ectopic Mineralization of Tissues: Mechanisms, Risk Factors, Diseases, and Prevention. Frontiers in Cell and Developmental Biology, 2021, 9, 759702.	3.7	9
15	HRâ€pQCT Measures of Bone Microarchitecture Predict Fracture: Systematic Review and Metaâ€Analysis. Journal of Bone and Mineral Research, 2020, 35, 446-459.	2.8	92
16	Bone adaptation: Safety factors and load predictability in shaping skeletal form. Bone, 2020, 131, 115114.	2.9	31
17	A systematic review and meta-analysis of bone loss in space travelers. Npj Microgravity, 2020, 6, 13.	3.7	99
18	Role of Altered Metabolic Microenvironment in Osteolytic Metastasis. Frontiers in Cell and Developmental Biology, 2020, 8, 435.	3.7	18

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19	Population analysis of space travelers. Life Sciences in Space Research, 2020, 27, 1-5.	2.3	7
20	Role of UDP-Sugar Receptor P2Y14 in Murine Osteoblasts. International Journal of Molecular Sciences, 2020, 21, 2747.	4.1	10
21	Severity of Megakaryocyte-Driven Osteosclerosis in Mpig6b-Deficient Mice Is Sex-Linked. Journal of Bone and Mineral Research, 2020, 36, 803-813.	2.8	9
22	Extracellular matrix composition of connective tissues: a systematic review and meta-analysis. Scientific Reports, 2019, 9, 10542.	3.3	149
23	Transmission of Mechanical Information by Purinergic Signaling. Biophysical Journal, 2019, 116, 2009-2022.	0.5	18
24	Meta-Analytic Methodology for Basic Research: A Practical Guide. Frontiers in Physiology, 2019, 10, 203.	2.8	110
25	Exosomal Release of L-Plastin by Breast Cancer Cells Facilitates Metastatic Bone Osteolysis. Translational Oncology, 2019, 12, 462-474.	3.7	66
26	Mathematical modeling of calcium phosphate precipitation in biologically relevant systems: scoping review. Biomechanics and Modeling in Mechanobiology, 2019, 18, 277-289.	2.8	5
27	Simultaneous Fluorescent Recordings of Extracellular ATP and Intracellular Calcium in Mammalian Cells. Bio-protocol, 2019, 9, e3242.	0.4	0
28	Megakaryocyte-Driven Myelofibrosis Leads to Progressive Osteosclerosis in G6b-B Knockout Mice. Blood, 2019, 134, 4199-4199.	1.4	1
29	Meta-analysis of mechanically-stimulated ATP release from mammalian cells. Journal of Cell Science, 2018, 131, .	2.0	41
30	Collagen type I degradation fragments act through the collagen receptor LAIR-1 to provide a negative feedback for osteoclast formation. Bone, 2018, 117, 23-30.	2.9	20
31	Mechanically stimulated ATP release from murine bone cells is regulated by a balance of injury and repair. ELife, 2018, 7, .	6.0	38
32	Is it time to reinvent basic cell culture medium?. American Journal of Physiology - Cell Physiology, 2017, 312, C624-C626.	4.6	55
33	Bone Health in Patients With Hematopoietic Disorders of Bone Marrow Origin: Systematic Review and Meta- Analysis. Journal of Bone and Mineral Research, 2017, 32, 731-742.	2.8	36
34	Metabolic phenotype in the mouse model of osteogenesis imperfecta. Journal of Endocrinology, 2017, 234, 279-289.	2.6	23
35	Regulation of Osteoclast Growth and Fusion by mTOR/raptor and mTOR/rictor/Akt. Frontiers in Cell and Developmental Biology, 2017, 5, 54.	3.7	42
36	Modeling Interactions among Individual P2 Receptors to Explain Complex Response Patterns over a Wide Range of ATP Concentrations. Frontiers in Physiology, 2016, 7, 294.	2.8	27

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37	Systematic Characterization of Dynamic Parameters of Intracellular Calcium Signals. Frontiers in Physiology, 2016, 7, 525.	2.8	16
38	Future directions for bone metastasis research â€“ highlights from the 2015 bone and the Oncologist new updates conference (BONUS). Journal of Bone Oncology, 2016, 5, 57-62.	2.4	9
39	The protocol for the isolation and cryopreservation of osteoclast precursors from mouse bone marrow and spleen. Cytotechnology, 2016, 68, 105-114.	1.6	28
40	Mathematical model for bone mineralization. Frontiers in Cell and Developmental Biology, 2015, 3, 51.	3.7	19
41	Characterization of biomimetic calcium phosphate labeled with fluorescent dextran for quantification of osteoclastic activity. Acta Biomaterialia, 2015, 20, 140-146.	8.3	4
42	Hyaluronan mediates airway hyperresponsiveness in oxidative lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L891-L903.	2.9	59
43	Peroxiredoxin 4: A novel secreted mediator of cancer induced osteoclastogenesis. Cancer Letters, 2015, 361, 262-270.	7.2	32
44	Behavioral signs of pain and functional impairment in a mouse model of osteogenesis imperfecta. Bone, 2015, 81, 400-406.	2.9	32
45	Autocrine signaling is a key regulatory element during osteoclastogenesis. Biology Open, 2014, 3, 767-776.	1.2	44
46	Effects of low frequency cyclic mechanical stretching on osteoclastogenesis. Journal of Biomechanics, 2014, 47, 3750-3757.	2.1	6
47	Local membrane deformation and micro-injury lead to qualitatively different responses in osteoblasts. F1000Research, 2014, 3, 162.	1.6	8
48	Molecular Signaling Pathways Mediating Osteoclastogenesis Induced by Prostate Cancer Cells. BMC Cancer, 2013, 13, 605.	2.6	23
49	Fibrillin-1 directly regulates osteoclast formation and function by a dual mechanism. Journal of Cell Science, 2013, 126, 4187-4194.	2.0	26
50	Breast Cancer-derived Factors Stimulate Osteoclastogenesis through the Ca2+/Protein Kinase C and Transforming Growth Factor-Î²/MAPK Signaling Pathways. Journal of Biological Chemistry, 2009, 284, 33662-33670.	3.4	36
51	Osteoclast precursors acquire sensitivity to breast cancer derived factors early in differentiation. Bone, 2008, 43, 386-393.	2.9	39
52	Can osteoclasts be excluded? (Reply). Nature, 2007, 445, E19-E20.	27.8	5
53	A moat around castle walls. Medical Hypotheses, 2006, 67, 698-701.	1.5	3
54	Bone Remodeling in Health and Disease: Lessons From Mathematical Modeling. Annals of the New York Academy of Sciences, 2006, 1068, 557-559.	3.8	13

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55	Mathematical Model of Paracrine Interactions between Osteoclasts and Osteoblasts Predicts Anabolic Action of Parathyroid Hormone on Bone. Endocrinology, 2005, 146, 3589-3595.	2.8	83