Susan Wray

List of Publications by Year in descending order

165 papers	8,094 citations	50170 46 h-index	56606 83 g-index
167 all docs	167 docs citations	167 times ranked	6118 citing authors

#	Article	IF	Citations
1	Characterization of the near infrared absorption spectra of cytochrome aa3 and haemoglobin for the non-invasive monitoring of cerebral oxygenation. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 933, 184-192.	0.5	774
2	QUANTIFICATION OF CEREBRAL OXYGENATION AND HAEMODYNAMICS IN SICK NEWBORN INFANTS BY NEAR INFRARED SPECTROPHOTOMETRY. Lancet, The, 1986, 328, 1063-1066.	6.3	534
3	Poor uterine contractility in obese women. BJOG: an International Journal of Obstetrics and Gynaecology, 2007, 114, 343-348.	1.1	251
4	Effect of metformin on maternal and fetal outcomes in obese pregnant women (EMPOWaR): a randomised, double-blind, placebo-controlled trial. Lancet Diabetes and Endocrinology,the, 2015, 3, 778-786.	5.5	206
5	Oxytocin: Its Mechanism of Action and Receptor Signalling in the Myometrium. Journal of Neuroendocrinology, 2014, 26, 356-369.	1.2	200
6	Maternal obesity and labour complications following induction of labour in prolonged pregnancy. BJOG: an International Journal of Obstetrics and Gynaecology, 2011, 118, 578-588.	1.1	180
7	A critical assessment of methods of measuring metabolite concentrations by NMR spectroscopy. NMR in Biomedicine, 1988, 1, 1-10.	1.6	166
8	Obstructed labour. British Medical Bulletin, 2003, 67, 191-204.	2.7	166
9	Distribution of AQP2 and AQP3 water channels in human tissue microarrays. Journal of Molecular Histology, 2005, 36, 1-14.	1.0	166
10	Calcium signaling and uterine contractility. Journal of the Society for Gynecologic Investigation, 2003, 10, 252-264.	1.9	166
11	Sarcoplasmic Reticulum Function in Smooth Muscle. Physiological Reviews, 2010, 90, 113-178.	13.1	154
12	Vimentin-Positive, c-KIT-Negative Interstitial Cells in Human and Rat Uterus: A Role in Pacemaking?1. Biology of Reproduction, 2005, 72, 276-283.	1.2	130
13	Oxytocic plant cyclotides as templates for peptide G protein-coupled receptor ligand design. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21183-21188.	3.3	129
14	Calcium signalling in smooth muscle. Cell Calcium, 2005, 38, 397-407.	1.1	111
15	The Physiological Basis of Uterine Contractility: A Short Review. Experimental Physiology, 2001, 86, 239-246.	0.9	110
16	Hypoxia and smooth muscle function: key regulatory events during metabolic stress. Journal of Physiology, 1998, 509, 315-325.	1.3	107
17	Insights into the uterus. Experimental Physiology, 2007, 92, 621-631.	0.9	107
18	Increased cholesterol decreases uterine activity: functional effects of cholesterol alteration in pregnant rat myometrium. American Journal of Physiology - Cell Physiology, 2005, 288, C982-C988.	2.1	96

#	Article	IF	Citations
19	Calcium transporters and signalling in smooth muscles. Cell Calcium, 2007, 42, 467-476.	1.1	92
20	Action potential refractory period in ureter smooth muscle is set by Ca sparks and BK channels. Nature, 2005, 436, 559-562.	13.7	90
21	Depletion of membrane cholesterol eliminates the Ca2+-activated component of outward potassium current and decreases membrane capacitance in rat uterine myocytes. Journal of Physiology, 2007, 581, 445-456.	1.3	90
22	Dysfunctional Labor and Myometrial Lactic Acidosis. Obstetrics and Gynecology, 2004, 103, 718-723.	1.2	89
23	Changes in brain phosphorus metabolites during the postâ€natal development of the rat.. Journal of Physiology, 1985, 359, 417-429.	1.3	88
24	Simultaneous measurements of changes in sarcoplasmic reticulum and cytosolic [Ca 2+] in rat uterine smooth muscle cells. Journal of Physiology, 2001, 531, 707-713.	1.3	88
25	Contribution of sarcoplasmic reticular calcium to smooth muscle contractile activation: gestational dependence in isolated rat uterus. Journal of Physiology, 1998, 511, 133-144.	1.3	87
26	Intracellular calcium stores and agonist-induced contractions in isolated human myometrium. American Journal of Obstetrics and Gynecology, 1999, 181, 468-476.	0.7	83
27	The effects of inhibiting Rho-associated kinase with Y-27632 on force and intracellular calcium in human myometrium. Pflugers Archiv European Journal of Physiology, 2001, 443, 112-114.	1.3	80
28	Properties of voltage-activated [Ca2+]itransients in single smooth muscle cells isolated from pregnant rat uterus. Journal of Physiology, 1998, 511, 803-811.	1.3	76
29	A review of the actions and control of intracellular pH in vascular smooth muscle. Cardiovascular Research, 1998, 38, 316-331.	1.8	72
30	Interactions Between Ca2+and H+and Functional Consequences in Vascular Smooth Muscle. Circulation Research, 2000, 86, 355-363.	2.0	72
31	Effect of inhibiting the sarcoplasmic reticulum on spontaneous and oxytocin-induced contractions of human myometrium. BJOG: an International Journal of Obstetrics and Gynaecology, 2002, 109, 289-296.	1.1	70
32	Modulating signaling events in smooth muscle: cleavage of annexin 2 abolishes its binding to lipid rafts. FASEB Journal, 2002, 16, 1177-1184.	0.2	69
33	Contractility and Calcium Signaling of Human Myometrium Are Profoundly Affected by Cholesterol Manipulation: Implications for Labor?. Reproductive Sciences, 2007, 14, 456-466.	1.1	69
34	Domain architecture of the smooth-muscle plasma membrane: regulation by annexins. Biochemical Journal, 2005, 387, 309-314.	1.7	65
35	The role of the sarcoplasmic reticulum as a Ca2+sink in rat uterine smooth muscle cells. Journal of Physiology, 1999, 520, 153-163.	1.3	64
36	Rho-kinase inhibition and electromechanical coupling in rat and guinea-pig ureter smooth muscle: Ca2+-dependent and -independent mechanisms. Journal of Physiology, 2004, 560, 839-855.	1.3	64

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37	Lipid rafts, the sarcoplasmic reticulum and uterine calcium signalling: an integrated approach. Journal of Physiology, 2006, 570, 29-35.	1.3	62
38	In vivopH and metabolite changes during a single contraction in rat uterine smooth muscle. Journal of Physiology, 1999, 518, 783-790.	1.3	60
39	How calcium signals in myocytes and pericytes are integrated across in situ microvascular networks and control microvascular tone. Cell Calcium, 2013, 54, 163-174.	1.1	59
40	Electrophysiological characterization and functional importance of calcium-activated chloride channel in rat uterine myocytes. Pflugers Archiv European Journal of Physiology, 2004, 448, 36-43.	1.3	57
41	The effects of pregnancy and parturition on phosphorus metabolites in rat uterus studied by 31P nuclear magnetic resonance.. Journal of Physiology, 1985, 368, 19-31.	1.3	54
42	A comparison of the contractile properties of human myometrium obtained from the upper and lower uterine segments. BJOG: an International Journal of Obstetrics and Gynaecology, 2000, 107, 1309-1311.	1.1	52
43	A review of recent insights into the role of the sarcoplasmic reticulum and Ca entry in uterine smooth muscle. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 144, S11-S19.	0.5	52
44	What do we know about what happens to myometrial function as women age?. Journal of Muscle Research and Cell Motility, 2012, 33, 209-217.	0.9	52
45	Ca2+ entry, efflux and release in smooth muscle. Biological Research, 2004, 37, 617-24.	1.5	51
46	Drugs acting on the pregnant uterus. Obstetrics, Gynaecology and Reproductive Medicine, 2010, 20, 241-247.	0.1	48
47	A new technique for simultaneous and in situ measurements of Ca2+ signals in arteriolar smooth muscle and endothelial cells. Cell Calcium, 2003, 34, 27-33.	1.1	46
48	Modulation of agonist-induced Ca2+ release by SR Ca2+ load: direct SR and cytosolic Ca2+ measurements in rat uterine myocytes. Cell Calcium, 2005, 37, 215-223.	1.1	46
49	Hypoxia-induced force increase (HIFI) is a novel mechanism underlying the strengthening of labor contractions, produced by hypoxic stresses. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9763-9768.	3.3	46
50	Sex Hormones and Excitationâ€“Contraction Coupling in the Uterus: The Effects of Oestrous and Hormones. Journal of Neuroendocrinology, 2008, 20, 451-461.	1.2	44
51	Sodium pump: Birthday present for digitalis. Nature, 1985, 316, 674-675.	13.7	42
52	Noninvasive measurement of molar concentrations of31P metabolitesin vivo, using surface coil NMR spectroscopy. Magnetic Resonance in Medicine, 1988, 6, 84-86.	1.9	42
53	Simultaneous measurement of intracellular pH and contraction in uterine smooth muscle. Pflugers Archiv European Journal of Physiology, 1993, 423, 527-529.	1.3	42
54	Progress in understanding electro-mechanical signalling in the myometrium. Acta Physiologica, 2015, 213, 417-431.	1.8	42

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55	Direct in vivo measurement of absolute metabolite concentrations using 31P nuclear magnetic resonance spectroscopy. Biochimica Et Biophysica Acta - Molecular Cell Research, 1986, 886, 399-405.	1.9	41
56	Abolition of contractions in the myometrium by acidification in vitro. Lancet, The, 1994, 344, 717-718.	6.3	40
57	In Situ Calcium Signaling: No Calcium Sparks Detected in Rat Myometrium. Annals of the New York Academy of Sciences, 2007, 1101, 85-96.	1.8	40
58	The Myometrium: From Excitation to Contractions and Labour. Advances in Experimental Medicine and Biology, 2019, 1124, 233-263.	0.8	40
59	Inhibitory effect of visfatin and leptin on human and rat myometrial contractility. Life Sciences, 2015, 125, 57-62.	2.0	39
60	Spontaneous Propagating Calcium Waves Underpin Airway Peristalsis in Embryonic Rat Lung. American Journal of Respiratory Cell and Molecular Biology, 2005, 33, 153-160.	1.4	38
61	A New Slow Releasing, H2S Generating Compound, GYY4137 Relaxes Spontaneous and Oxytocin-Stimulated Contractions of Human and Rat Pregnant Myometrium. PLoS ONE, 2012, 7, e46278.	1.1	38
62	Carboxyeosin decreases the rate of decay of the [Ca 2+] i transient in uterine smooth muscle cells isolated from pregnant rats. Pflugers Archiv European Journal of Physiology, 1998, 437, 158-160.	1.3	37
63	Diabetes is associated with impairment of uterine contractility and high Caesarean section rate. Diabetologia, 2012, 55, 489-498.	2.9	37
64	A short review of adipokines, smooth muscle and uterine contractility. Life Sciences, 2015, 125, 2-8.	2.0	37
65	Functional architecture of the SR calcium store in uterine smooth muscle. Cell Calcium, 2004, 35, 501-508.	1.1	35
66	Differential cellular expression of FXYD1 (phospholemman) and FXYD2 (gamma subunit of Na, K-ATPase) in normal human tissues: A study using high density human tissue microarrays. Annals of Anatomy, 2010, 192, 7-16.	1.0	35
67	Insights from physiology into myometrial function and dysfunction. Experimental Physiology, 2015, 100, 1468-1476.	0.9	35
68	The effect of inhibition of myosin light chain kinase by Wortmannin on intracellular [Ca 2+], electrical activity and force in phasic smooth muscle. Pflugers Archiv European Journal of Physiology, 1998, 436, 801-803.	1.3	34
69	The Effects of Pomegranate Seed Extract and Î²-Sitosterol on Rat Uterine Contractions. Reproductive Sciences, 2010, 17, 288-296.	1.1	34
70	Subtle modifications to oxytocin produce ligands that retain potency and improved selectivity across species. Science Signaling, 2017, 10, .	1.6	34
71	Cytochrome oxidase content of rat brain during development. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1057, 273-275.	0.5	33
72	Development of a human vasopressin V1a-receptor antagonist from an evolutionary-related insect neuropeptide. Scientific Reports, 2017, 7, 41002.	1.6	33

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73	Myometrial physiology â€“ time to translate?. Experimental Physiology, 2014, 99, 495-502.	0.9	32
74	Functional and Molecular Characterization of Voltage-Gated Sodium Channels in Uteri from Nonpregnant Rats1. Biology of Reproduction, 2007, 77, 855-863.	1.2	31
75	The effects of pH change on Ca++ signaling and force in pregnant human myometrium. American Journal of Obstetrics and Gynecology, 2003, 188, 1031-1038.	0.7	30
76	Characterization of Contractile Activity and Intracellular Ca2+ Signalling in Mouse Myometrium. Journal of the Society for Gynecologic Investigation, 2004, 11, 207-212.	1.9	30
77	Temporal and spatial variations in spontaneous Ca events and mechanical activity in pregnant rat myometrium. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 144, S25-S32.	0.5	30
78	Poor Spontaneous and Oxytocin-Stimulated Contractility in Human Myometrium from Postdates Pregnancies. PLoS ONE, 2012, 7, e36787.	1.1	30
79	A Comparison of the Contractile Properties of Myometrium from Singleton and Twin Pregnancies. PLoS ONE, 2013, 8, e63800.	1.1	30
80	Mechanisms of action of pH-induced effects on vascular smooth muscle. Molecular and Cellular Biochemistry, 2004, 263, 163-172.	1.4	29
81	How Structure, Ca Signals, and Cellular Communications Underlie Function in Precapillary Arterioles. Circulation Research, 2009, 105, 803-810.	2.0	29
82	The mechanism of agonist induced Ca2+ signalling in intact endothelial cells studied confocally in in situ arteries. Cell Calcium, 2011, 49, 66-77.	1.1	29
83	Changes of pH affect calcium currents but not outward potassium currents in rat myometrial cells. Pflugers Archiv European Journal of Physiology, 1995, 431, 135-137.	1.3	28
84	The role of the sarcolemmal Ca2+-ATPase in the pH transients associated with contraction in rat smooth muscle. Journal of Physiology, 1997, 505, 329-336.	1.3	28
85	Agonist mobilization of sarcoplasmic reticular calcium in smooth muscle: functional coupling to the plasmalemmal Na+/Ca2+ exchanger?. Cell Calcium, 1997, 22, 333-341.	1.1	27
86	The role of the sarcoplasmic reticulum in neonatal uterine smooth muscle: enhanced role compared to adult rat. Journal of Physiology, 2002, 545, 557-566.	1.3	26
87	Distribution, expression and functional effects of small conductance Ca-activated potassium (SK) channels in rat myometrium. Cell Calcium, 2010, 47, 47-54.	1.1	26
88	Cholesterol depletion alters coronary artery myocyte Ca2+ signalling in a stimulus-specific manner. Cell Calcium, 2010, 47, 84-91.	1.1	25
89	Level of lactate in amniotic fluid and its relation to the use of oxytocin and adverse neonatal outcome. Acta Obstetricia Et Gynecologica Scandinavica, 2014, 93, 80-85.	1.3	25
90	The relationship between the action potential, intracellular calcium and force in intact phasic, guinea-pig uretic smooth muscle. Journal of Physiology, 1999, 520, 867-883.	1.3	24

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91	Store-operated Ca2+ entry and depolarization explain the anomalous behaviour of myometrial SR: Effects of SERCA inhibition on electrical activity, Ca2+ and force. Cell Calcium, 2014, 56, 188-194.	1.1	24
92	Uterine Excitability and Ion Channels and Their Changes with Gestation and Hormonal Environment. Annual Review of Physiology, 2021, 83, 331-357.	5.6	24
93	Stimulus-dependent modulation of smooth muscle intracellular calcium and force by altered intracellular pH. Pflugers Archiv European Journal of Physiology, 1996, 432, 803-811.	1.3	23
94	On the Mechanisms Whereby Temperature Affects Excitation-Contraction Coupling in Smooth Muscle. Journal of General Physiology, 2002, 119, 93-104.	0.9	23
95	Role of the calcium store in uterine contractility. Seminars in Cell and Developmental Biology, 2007, 18, 315-320.	2.3	23
96	The in vivo relationship between blood flow, contractions, pH and metabolites in the rat uterus. Pflugers Archiv European Journal of Physiology, 1998, 435, 810-817.	1.3	22
97	The Effects of Wild Ginger (Costus speciosus (Koen) Smith) Rhizome Extract and Diosgenin on Rat Uterine Contractions. Reproductive Sciences, 2011, 18, 516-524.	1.1	22
98	Physiological increases in lactate inhibit intracellular calcium transients, acidify myocytes and decrease force in term pregnant rat myometrium. Journal of Physiology, 2015, 593, 4603-4614.	1.3	22
99	The mechanism of Ca2+ release from the SR of permeabilised guinea-pig and rat ureteric smooth muscle. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1402, 109-114.	1.9	21
100	The effect of cyclopiazonic acid on excitation-contraction coupling in guinea-pig ureteric smooth muscle: role of the sarcoplasmic reticulum. Journal of Physiology, 1999, 517, 855-865.	1.3	21
101	Airway Smooth Muscle Dysfunction Precedes Teratogenic Congenital Diaphragmatic Hernia and May Contribute to Hypoplastic Lung Morphogenesis. American Journal of Respiratory Cell and Molecular Biology, 2006, 35, 571-578.	1.4	21
102	The effects of intracellular and extracellular alkalinization on contractions of the isolated rat uterus. Pflugers Archiv European Journal of Physiology, 1992, 422, 24-30.	1.3	19
103	A quantitative study of the relation between intracellular pH and force in rat mesenteric vascular smooth muscle. Pflugers Archiv European Journal of Physiology, 1994, 427, 270-276.	1.3	19
104	Simultaneous Measurement of Intracellular pH, Calcium, and Tension in Rat Mesenteric Vessels: Effects of Extracellular pH. Biochemical and Biophysical Research Communications, 1996, 222, 537-540.	1.0	19
105	Developmental changes in intracellular pH buffering power in smooth muscle. Pflugers Archiv European Journal of Physiology, 1998, 435, 575-577.	1.3	19
106	Escherichia coli-Mediated Impairment of Ureteric Contractility Is Uropathogenic E. coli Specific. Journal of Infectious Diseases, 2012, 206, 1589-1596.	1.9	19
107	A randomized controlled trial of a new treatment for labor dystocia. Journal of Maternal-Fetal and Neonatal Medicine, 2018, 31, 2237-2244.	0.7	19
108	Simultaneous measurements of electrical activity, intracellular [Ca 2+] and force in intact smooth muscle. Pflugers Archiv European Journal of Physiology, 1997, 435, 182-184.	1.3	18

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109	A short review of twin pregnancy and how oxytocin receptor expression may differ in multiple pregnancy. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 144, S40-S44.	0.5	18
110	Ethnobotanical survey of Rinorea dentata (Violaceae) used in South-Western Nigerian ethnomedicine and detection of cyclotides. Journal of Ethnopharmacology, 2016, 179, 83-91.	2.0	18
111	Characterisation of the ionic currents in freshly isolated rat ureter smooth muscle cells: evidence for species-dependent currents. Pflugers Archiv European Journal of Physiology, 2002, 445, 444-453.	1.3	17
112	Differing In Vitro Potencies of Tocolytics and Progesterone in Myometrium From Singleton and Twin Pregnancies. Reproductive Sciences, 2016, 23, 98-111.	1.1	16
113	The effects of changing intracellular pH on calcium and potassium currents in smooth muscle cells from the guinea-pig ureter. Pflugers Archiv European Journal of Physiology, 1998, 435, 518-522.	1.3	15
114	Evidence that a Ca2+ sparks/STOCs coupling mechanism is responsible for the inhibitory effect of caffeine on electro-mechanical coupling in guinea pig ureteric smooth muscle. Cell Calcium, 2007, 42, 303-311.	1.1	15
115	Efficacy of metformin in pregnant obese women: a randomised controlled trial. BMJ Open, 2015, 5, e006854-e006854.	0.8	15
116	Inhibitory Effects of Ginger Oil on Spontaneous and PGF2Î±-Induced Contraction of Rat Myometrium. Planta Medica, 2008, 74, 385-391.	0.7	14
117	The Effects of Watermelon (Citrullus lanatus) Extracts and l-Citrulline on Rat Uterine Contractility. Reproductive Sciences, 2013, 20, 437-448.	1.1	14
118	The effects of Ginseng Java root extract on uterine contractility in nonpregnant rats. Physiological Reports, 2014, 2, e12230.	0.7	14
119	Hypoxic conditioning in blood vessels and smooth muscle tissues: effects on function, mechanisms, and unknowns. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H756-H770.	1.5	14
120	Differential effects of external pH alteration on intracellular pH in rat coronary and cardiac myocytes. Pflugers Archiv European Journal of Physiology, 1994, 428, 674-676.	1.3	13
121	The effects of metabolic inhibition on intracellular calcium and contractility of human myometrium. BJOG: an International Journal of Obstetrics and Gynaecology, 2003, 110, 1050-1056.	1.1	13
122	Atherosclerosis affects calcium signalling in endothelial cells from apolipoprotein E knockout mice before plaque formation. Cell Calcium, 2014, 55, 146-154.	1.1	13
123	The combination tocolytic effect of magnesium sulfate and an oxytocinÂreceptor antagonist in myometrium fromÂsingletonÂand twin pregnancies. American Journal of Obstetrics and Gynecology, 2016, 215, 789.e1-789.e9.	0.7	13
124	A31P NMR investigation into the effects of repeated vascular occlusion on uterine metabolites, intracellular pH and force,in vivo. NMR in Biomedicine, 1995, 8, 28-32.	1.6	12
125	The effect of metabolic inhibition on rat uterine intracellular pH and its role in contractile failure. Pflugers Archiv European Journal of Physiology, 1995, 430, 125-131.	1.3	12
126	Morphology, Calcium Signaling and Mechanical Activity in Human Ureter. Journal of Urology, 2008, 180, 398-405.	0.2	12

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127	Finding new agents in medicinal plants to act on the myometrium. Experimental Physiology, 2014, 99, 530-537.	0.9	12
128	Changes in intracellular pH close to term and their possible significance to labour. Pflugers Archiv European Journal of Physiology, 1995, 430, 1012-1014.	1.3	11
129	Intracellular Na + measurements in smooth muscle using SBFI - changes in [Na +], Ca 2+ and force in normal and Na + -loaded ureter. Pflugers Archiv European Journal of Physiology, 1998, 435, 523-527.	1.3	11
130	Ion pumping in biological membranes. Contemporary Physics, 1985, 26, 3-21.	0.8	10
131	Na,Kâ€ATPase Isoforms in Pregnant and Nonpregnant Rat Uterus. Annals of the New York Academy of Sciences, 2003, 986, 614-616.	1.8	10
132	Expression and Distribution of Na, K-ATPase Isoforms in the Human Uterus. Reproductive Sciences, 2010, 17, 366-376.	1.1	10
133	Abnormal tracheal smooth muscle function in the CF mouse. Physiological Reports, 2013, 1, e00138.	0.7	10
134	Atherosclerosis differentially affects calcium signalling in endothelial cells from aortic arch and thoracic aorta in Apolipoprotein E knockout mice. Physiological Reports, 2014, 2, e12171.	0.7	10
135	Gestation changes sodium pump isoform expression, leading to changes in ouabain sensitivity, contractility, and intracellular calcium in rat uterus. Physiological Reports, 2017, 5, e13527.	0.7	10
136	Calcium-Activated Chloride Channels in Myometrial and Vascular Smooth Muscle. Frontiers in Physiology, 2021, 12, 751008.	1.3	10
137	Regulation of intracellular pH in rat uterine smooth muscle, studied by 31P NMR spectroscopy. Biochimica Et Biophysica Acta - Molecular Cell Research, 1988, 972, 299-301.	1.9	9
138	An investigation of intrinsic buffering power in rat vascular smooth muscle cells. Pflugers Archiv European Journal of Physiology, 1995, 429, 325-331.	1.3	9
139	External alkalinization decreases intracellular Ca++ and spontaneous contractions in pregnant rat myometrium. American Journal of Obstetrics and Gynecology, 1997, 177, 959-963.	0.7	9
140	pH regulation and buffering power in gastric smooth muscle. Pflugers Archiv European Journal of Physiology, 2001, 442, 459-466.	1.3	9
141	Modulation of ureteric Ca signaling and contractility in humans and rats by uropathogenic E. coli. American Journal of Physiology - Renal Physiology, 2010, 298, F900-F908.	1.3	9
142	Two centuries of excitationâ€“contraction coupling. Cell Calcium, 2004, 35, 485-489.	1.1	7
143	Sarcoplasmic Reticulum Function and Contractile Consequences in Ureteric Smooth Muscles. Novartis Foundation Symposium, 2008, , 208-220.	1.2	7
144	In vitro myometrial contractility reflects indication for caesarean section. BJOG: an International Journal of Obstetrics and Gynaecology, 2011, 118, 1499-1506.	1.1	7

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145	Activation of Nuclear Chromatin in Stretch-Dependent Growth of Tissues. Connective Tissue Research, 1985, 13, 217-225.	1.1	6
146	Role of the Sarcoplasmic Reticulum in Uterine Smooth Muscle. Novartis Foundation Symposium, 2008, , 6-25.	1.2	6
147	Human myometrial artery function and endothelial cell calcium signalling are reduced by obesity: Can this contribute to poor labour outcomes?. Acta Physiologica, 2019, 227, e13341.	1.8	6
148	Calcium Signaling in Smooth Muscle. , 2010, , 1009-1025.		5
149	Justicia flava leaf extract potently relaxes pregnant human myometrial contractility: a lead plant for drug discovery of new tocolytic drugs. Experimental Physiology, 2020, 105, 2033-2037.	0.9	5
150	Does metformin reduce excess birthweight in offspring of obese pregnant women? A randomised controlled trial of efficacy, exploration of mechanisms and evaluation of other pregnancy complications. Efficacy and Mechanism Evaluation, 2016, 3, 1-800.	0.9	5
151	Sarcoplasmic reticulum function and contractile consequences in ureteric smooth muscles. Novartis Foundation Symposium, 2002, 246, 208-17; discussion 217-20, 221-7.	1.2	5
152	Developmental and species differences in the response of the ureter to metabolic inhibition. Pflugers Archiv European Journal of Physiology, 1998, 436, 443-448.	1.3	4
153	Introduction: Myometrial physiology â€“ time to translate?. Experimental Physiology, 2014, 99, 487-488.	0.9	3
154	The effects of metabolic inhibition on intracellular calcium and contractility of human myometrium. BJOG: an International Journal of Obstetrics and Gynaecology, 2003, 110, 1050-6.	1.1	3
155	pH-induced changes in calcium: functional consequences and mechanisms of action in guinea pig portal vein. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H2518-H2526.	1.5	2
156	Uterine Smooth Muscle. , 2012, , 1207-1216.		2
157	The association of second trimester biomarkers in amniotic fluid and fetal outcome. Journal of Maternal-Fetal and Neonatal Medicine, 2019, 32, 3627-3632.	0.7	2
158	Role of the sarcoplasmic reticulum in uterine smooth muscle. Novartis Foundation Symposium, 2002, 246, 6-18; discussion 18-25, 48-51.	1.2	2
159	Regulation of intracellular pH in rat uterine smooth muscle studied by 31P NMR spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 972, 299-301.	0.5	1
160	Gestational and Hormonal Effects on Magnesium Sulfateâ€™s Ability to Inhibit Mouse Uterine Contractility. Reproductive Sciences, 2019, , 193371911982808.	1.1	1
161	The effects of inhibiting myosin light chain kinase on contraction and calcium signalling in human and rat myometrium. Pflugers Archiv European Journal of Physiology, 2000, 440, 315.	1.3	1
162	Gestational and Hormonal Effects on Magnesium Sulfateâ€™s Ability to Inhibit Mouse Uterine Contractility. Reproductive Sciences, 2020, 27, 1570-1579.	1.1	1

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163	The Outside-in Story of pH, Ca2+and Vascular Tone. Journal of Physiology, 1997, 503, 235-235.	1.3	0
164	pH and smooth muscle: regulation and functional effects. , 1999, , 275-298.		0
165	Biomedical Nuclear Magnetic Resonance Spectroscopy and Transport. , 1991, , 273-296.		0