

Sandra Orgeig

List of Publications by Year in descending order

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109
papers

3,285
citations

159358

30
h-index

174990

52
g-index

118
all docs

118
docs citations

118
times ranked

2429
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of lipids in pulmonary surfactant. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1998, 1408, 90-108.	1.8	610
2	The roles of cholesterol in pulmonary surfactant: insights from comparative and evolutionary studies. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001, 129, 75-89.	0.8	96
3	Dipalmitoylphosphatidylcholine is not the major surfactant phospholipid species in all mammals. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R1426-R1439.	0.9	95
4	Recent advances in alveolar biology: Evolution and function of alveolar proteins. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, S43-S54.	0.7	86
5	Conservation of Surfactant Protein A: Evidence for a Single Origin for Vertebrate Pulmonary Surfactant. <i>Journal of Molecular Evolution</i> , 1998, 46, 131-138.	0.8	83
6	Intrauterine growth restriction delays surfactant protein maturation in the sheep fetus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 298, L575-L583.	1.3	81
7	Pulmonary Surfactant: The Key to the Evolution of Air Breathing. <i>Physiology</i> , 2003, 18, 151-157.	1.6	76
8	The Origin and Evolution of the Surfactant System in Fish: Insights into the Evolution of Lungs and Swim Bladders. <i>Physiological and Biochemical Zoology</i> , 2004, 77, 732-749.	0.6	72
9	Composition of human pulmonary surfactant varies with exercise and level of fitness.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1994, 149, 1619-1627.	2.5	71
10	The comparative biology of pulmonary surfactant: past, present and future. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001, 129, 9-36.	0.8	60
11	Antenatal Steroids and the IUGR Fetus: Are Exposure and Physiological Effects on the Lung and Cardiovascular System the Same as in Normally Grown Fetuses?. <i>Journal of Pregnancy</i> , 2012, 2012, 1-15.	1.1	58
12	EVOLUTION OF SURFACE ACTIVITY RELATED FUNCTIONS OF VERTEBRATE PULMONARY SURFACTANT. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1998, 25, 716-721.	0.9	56
13	Adaptation to low body temperature influences pulmonary surfactant composition thereby increasing fluidity while maintaining appropriately ordered membrane structure and surface activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1581-1589.	1.4	53
14	The Evolution of the Vertebrate Pulmonary Surfactant System. <i>Physiological Zoology</i> , 1995, 68, 539-566.	1.5	52
15	Extended C-terminal tail of wheat histone H2A interacts with DNA of the "linker" region. <i>Journal of Molecular Biology</i> , 1991, 218, 805-813.	2.0	50
16	Recent advances in alveolar biology: Some new looks at the alveolar interface. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, S55-S64.	0.7	48
17	The Changing State of Surfactant Lipids: New Insights from Ancient Animals. <i>American Zoologist</i> , 1998, 38, 305-320.	0.7	43
18	Cardiorespiratory consequences of intrauterine growth restriction: Influence of timing, severity and duration of hypoxaemia. <i>Theriogenology</i> , 2020, 150, 84-95.	0.9	42

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19	Effect of Hyperpnea on the Cholesterol to Disaturated Phospholipid Ratio in Alveolar Surfactant of Rats. <i>Experimental Lung Research</i> , 1995, 21, 157-174.	0.5	40
20	The evolution of a physiological system: The pulmonary surfactant system in diving mammals. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 118-138.	0.7	40
21	The anatomy, physics, and physiology of gas exchange surfaces: is there a universal function for pulmonary surfactant in animal respiratory structures?. <i>Integrative and Comparative Biology</i> , 2007, 47, 610-627.	0.9	39
22	Regulation of fetal lung development in response to maternal overnutrition. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013, 40, 803-816.	0.9	39
23	The evolutionary significance of pulmonary surfactant in lungfish (Dipnoi).. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1995, 13, 161-166.	1.4	37
24	Intrafetal glucose infusion alters glucocorticoid signaling and reduces surfactant protein mRNA expression in the lung of the late-gestation sheep fetus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R538-R545.	0.9	37
25	Glucocorticoids, thyroid hormones, and iodothyronine deiodinases in embryonic saltwater crocodiles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R1155-R1163.	0.9	36
26	The pattern of surfactant cholesterol during vertebrate evolution and development: does ontogeny recapitulate phylogeny?. <i>Reproduction, Fertility and Development</i> , 2003, 15, 55.	0.1	35
27	Pulmonary-type surfactants in the lungs of terrestrial and aquatic amphibians. <i>Respiration Physiology</i> , 1994, 95, 249-258.	2.8	34
28	The composition and function of reptilian pulmonary surfactant. <i>Respiration Physiology</i> , 1995, 102, 121-135.	2.8	34
29	Hypoxic control of the development of the surfactant system in the chicken: evidence for physiological heterokairy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R403-R410.	0.9	32
30	The fetal sheep lung does not respond to cortisol infusion during the late canalicular phase of development. <i>Physiological Reports</i> , 2013, 1, e00130.	0.7	32
31	Antioxidant enzymes in the developing lungs of egg-laying and metamorphosing vertebrates. <i>Journal of Experimental Biology</i> , 2001, 204, 3973-3981.	0.8	32
32	Maternal obesity mediated predisposition to respiratory complications at birth and in later life: understanding the implications of the obesogenic intrauterine environment. <i>Paediatric Respiratory Reviews</i> , 2017, 21, 11-18.	1.2	31
33	Alterations in pulmonary surfactant after rapid arousal from torpor in the marsupial <i>Sminthopsis crassicaudata</i> . <i>Journal of Applied Physiology</i> , 1999, 86, 1959-1970.	1.2	30
34	Recent Advances into Understanding Some Aspects of the Structure and Function of Mammalian and Avian Lungs. <i>Physiological and Biochemical Zoology</i> , 2010, 83, 792-807.	0.6	30
35	Reduced Surface Tension Normalizes Static Lung Mechanics in a Rodent Chronic Heart Failure Model. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 181-187.	2.5	29
36	The Influence of Temperature, Phylogeny, and Lung Structure on the Lipid Composition of Reptilian Pulmonary Surfactant. <i>Experimental Lung Research</i> , 1996, 22, 267-281.	0.5	28

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37	Alterations in the surface properties of lung surfactant in the torpid marsupial <i>Sminthopsis crassicaudata</i> . <i>Journal of Applied Physiology</i> , 1998, 84, 146-156.	1.2	28
38	Periodic Fluctuations in the Pulmonary Surfactant System in Gould's Wattle Bat (<i>Chalinolobus tjj</i>). <i>Journal of Applied Physiology</i> , 2000, 89, 1070-1075.	0.6	27
39	Regenerating lizard tails: A new model for investigating lymphangiogenesis. <i>FASEB Journal</i> , 2003, 17, 1-13.	0.2	27
40	Control of pulmonary surfactant secretion in adult California sea lions. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 727-732.	1.0	27
41	Developmental changes in rat surfactant lipidomics in the context of species variability. <i>Pediatric Pulmonology</i> , 2007, 42, 794-804.	1.0	27
42	Torpor-associated fluctuations in surfactant activity in Gould's wattle bat. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2002, 1580, 57-66.	1.2	26
43	Evolution, Development, and Function of the Pulmonary Surfactant System in Normal and Perturbed Environments. <i>Journal of Applied Physiology</i> , 2015, 113, 363-422.		26
44	Structural and molecular regulation of lung maturation by intratracheal vascular endothelial growth factor administration in the normally grown and placentally restricted fetus. <i>Journal of Physiology</i> , 2016, 594, 1399-1420.	1.3	26
45	Autonomic Control of the Pulmonary Surfactant System and Lung Compliance in the Lizard. <i>Physiological Zoology</i> , 1997, 70, 444-455.	1.5	25
46	Dexamethasone and epinephrine stimulate surfactant secretion in type II cells of embryonic chickens. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R770-R777.	0.9	25
47	The composition of pulmonary surfactant from diving mammals. <i>Respiratory Physiology and Neurobiology</i> , 2006, 152, 152-168.	0.7	25
48	Increased lung prolyl hydroxylase and decreased glucocorticoid receptor are related to decreased surfactant protein in the growth-restricted sheep fetus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L84-L97.	1.3	25
49	Development of the pulmonary surfactant system in two oviparous vertebrates. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 278, R486-R493.	0.9	24
50	Adaptations to hibernation in lung surfactant composition of 13-lined ground squirrels influence surfactant lipid phase segregation properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1707-1714.	1.4	24
51	Postnatal development and control of the pulmonary surfactant system in the tammar wallaby <i>Macropus eugenii</i> . <i>Journal of Experimental Biology</i> , 2001, 204, 4031-4042.	0.8	23
52	The surface activity of pulmonary surfactant from diving mammals. <i>Respiratory Physiology and Neurobiology</i> , 2006, 150, 220-232.	0.7	22
53	The composition and function of the pulmonary surfactant system during metamorphosis in the tiger salamander <i>Ambystoma tigrinum</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 1994, 164, 337-342.	0.7	21
54	Prenatal development of the pulmonary surfactant system and the influence of hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 129-145.	0.7	21

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55	Pulmonary Surfactant Lipids in the Faveolar and Saccular Lung Regions of Snakes. <i>Physiological Zoology</i> , 1995, 68, 812-830.	1.5	19
56	The Ontogeny of Pulmonary Surfactant Secretion in the Embryonic Green Sea Turtle (<i>Chelonia mydas</i>). <i>Physiological and Biochemical Zoology</i> , 2001, 74, 493-501.	0.6	18
57	The development of the pulmonary surfactant system in California sea lions. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2005, 141, 191-199.	0.8	18
58	Positive Selection in the N-Terminal Extramembrane Domain of Lung Surfactant Protein C (SP-C) in Marine Mammals. <i>Journal of Molecular Evolution</i> , 2007, 65, 12-22.	0.8	18
59	Leptin integrates vertebrate evolution: From oxygen to the blood-gas barrier. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, S37-S42.	0.7	18
60	Mature Surfactant Protein-B Expression by Immunohistochemistry as a Marker for Surfactant System Development in the Fetal Sheep Lung. <i>Journal of Histochemistry and Cytochemistry</i> , 2015, 63, 866-878.	1.3	17
61	Regulation of lung maturation by prolyl hydroxylase domain inhibition in the lung of the normally grown and placentally restricted fetus in late gestation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1226-R1243.	0.9	17
62	Maternal chronic hypoxia increases expression of genes regulating lung liquid movement and surfactant maturation in male fetuses in late gestation. <i>Journal of Physiology</i> , 2017, 595, 4329-4350.	1.3	17
63	Alterations in composition and function of surfactant associated with torpor in <i>Sminthopsis crassicaudata</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1996, 271, R437-R445.	0.9	16
64	Control of pulmonary surfactant secretion: an evolutionary perspective. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 278, R611-R619.	0.9	16
65	Antenatal Glucocorticoid Treatment of The Growth-restricted Fetus: Benefit or Cost?. <i>Reproductive Sciences</i> , 2009, 16, 527-538.	1.1	16
66	Thermodynamic and structural studies of mixed monolayers: Mutual mixing of DPPC and DPPG with DoTAP at the air-water interface. <i>Materials Science and Engineering C</i> , 2010, 30, 542-548.	3.8	16
67	Differential effects of late gestation maternal overnutrition on the regulation of surfactant maturation in fetal and postnatal life. <i>Journal of Physiology</i> , 2017, 595, 6635-6652.	1.3	16
68	Chronic hypoxaemia as a molecular regulator of fetal lung development: implications for risk of respiratory complications at birth. <i>Paediatric Respiratory Reviews</i> , 2017, 21, 3-10.	1.2	15
69	Surfactant in the Gas Mantle of the Snail <i>Helix aspersa</i> . <i>Physiological and Biochemical Zoology</i> , 1999, 72, 691-698.	0.6	14
70	Neurochemical and thermal control of surfactant secretion by alveolar type II cells isolated from the marsupial, <i>Sminthopsis crassicaudata</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2001, 171, 223-230.	0.7	14
71	Risk of Respiratory Distress Syndrome and Efficacy of Glucocorticoids: Are They the Same in the Normally Grown and Growth-Restricted Infant?. <i>Reproductive Sciences</i> , 2016, 23, 1459-1472.	1.1	14
72	Control of the development of the pulmonary surfactant system in the saltwater crocodile, <i>Crocodylus porosus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R1164-R1176.	0.9	13

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73	Alterations in surface activity of pulmonary surfactant in Gould's wattled bat during rapid arousal from torpor. <i>Biochemical and Biophysical Research Communications</i> , 2003, 308, 463-468.	1.0	13
74	Regulation of pulmonary surfactant secretion in the developing lizard, <i>Pogona vitticeps</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 133, 539-546.	0.8	11
75	Thermal acclimation of surfactant secretion and its regulation by adrenergic and cholinergic agonists in type II cells isolated from warm-active and torpid golden-mantled ground squirrels, <i>Spermophilus lateralis</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 3031-3041.	0.8	11
76	The pulmonary surfactant system matures upon pipping in the freshwater turtle <i>Chelydra serpentina</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 415-425.	0.8	11
77	Functional significance and control of release of pulmonary surfactant in the lizard lung. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1995, 269, R838-R847.	0.9	10
78	Long-Term Pulmonary Effects of Intrauterine Exposure to Endotoxin Following Preterm Birth in Sheep. <i>Reproductive Sciences</i> , 2012, 19, 1352-1364.	1.1	10
79	The Role of Extrinsic and Intrinsic Factors in the Evolution of the Control of Pulmonary Surfactant Maturation during Development in the Amniotes. <i>Physiological and Biochemical Zoology</i> , 2003, 76, 281-295.	0.6	9
80	How regenerating lymphatics function: Lessons from lizard tails. <i>Anatomical Record</i> , 2007, 290, 108-114.	0.8	9
81	Development of the Pulmonary Surfactant System. , 2004, , 149-167.		9
82	Normalisation of surfactant protein -A and -B expression in the lungs of low birth weight lambs by 21 days old. <i>PLoS ONE</i> , 2017, 12, e0181185.	1.1	8
83	The pulmonary surfactant system matures upon pipping in the freshwater turtle <i>Chelydra serpentina</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 415-25.	0.8	8
84	Surfactant composition and function in lungs of air-breathing fishes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1994, 266, R1309-R1313.	0.9	7
85	Control of pulmonary surfactant secretion from type II pneumocytes isolated from the lizard <i>Pogona vitticeps</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R1705-R1711.	0.9	7
86	Ontogeny of the Pulmonary Surfactant and Antioxidant Enzyme Systems in the Viviparous Lizard, <i>Tiliqua rugosa</i> . <i>Physiological and Biochemical Zoology</i> , 2002, 75, 260-272.	0.6	7
87	Environmental Selection Pressures Shaping the Pulmonary Surfactant System of Adult and Developing Lungs. , 2009, , 205-239.		6
88	Effects of Aging, Disease and the Environment on the Pulmonary Surfactant System. , 2004, , 363-375.		6
89	Increased Alveolar Heparan Sulphate and Reduced Pulmonary Surfactant Amount and Function in the Mucopolysaccharidosis IIIA Mouse. <i>Cells</i> , 2021, 10, 849.	1.8	5
90	Molecular regulation of lung maturation in near-term fetal sheep by maternal daily vitamin C treatment in late gestation. <i>Pediatric Research</i> , 2022, 91, 828-838.	1.1	5

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91	Surfactant regulates pulmonary fluid balance in reptiles. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 273, R2013-R2021.	0.9	4
92	Purifying selection drives the evolution of surfactant protein C (SP-C) independently of body temperature regulation in mammals. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2007, 2, 165-176.	0.4	4
93	The Development of the Pulmonary Surfactant System. , 2014, , 183-209.		4
94	Interstitial lung disease and surfactant dysfunction as a secondary manifestation of disease: insights from lysosomal storage disorders. Drug Discovery Today: Disease Models, 2019, 29-30, 35-42.	1.2	4
95	Impact of maternal late gestation undernutrition on surfactant maturation, pulmonary blood flow and oxygen delivery measured by magnetic resonance imaging in the sheep fetus. Journal of Physiology, 2021, 599, 4705-4724.	1.3	4
96	The effect of temperature on adrenergic receptors of alveolar type II cells of a heterothermic marsupial. Biochemical and Biophysical Research Communications, 2003, 310, 703-709.	1.0	3
97	Does the intrauterine growth-restricted fetus benefit from antenatal glucocorticoids?. Expert Review of Obstetrics and Gynecology, 2010, 5, 149-152.	0.4	3
98	PPAR γ activation in late gestation does not promote surfactant maturation in the fetal sheep lung. Journal of Developmental Origins of Health and Disease, 2021, 12, 963-974.	0.7	3
99	Thermal Cycling of the Pulmonary Surfactant System in Small Heterothermic Mammals. , 2000, , 187-197.		3
100	New Insights into the Thermal Dynamics of the Surfactant System from Warm and Cold Animals. Lung Biology in Health and Disease, 2005, , 17-57.	0.1	3
101	Differential mRNA and tissue expression of lymphangiogenic growth factors (VEGF-C and -D) and their receptor (VEGFR-3) during tail regeneration in a gecko. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2012, 182, 109-126.	0.7	2
102	Coping With the Cold: Effect of Hibernation on Pulmonary Surfactant in the Thirteen-Lined Ground Squirrel. Biophysical Journal, 2010, 98, 76a.	0.2	1
103	Effect of Environment and Aging on the Pulmonary Surfactant System. , 2014, , 447-469.		1
104	Call for Papers: "Morphology is the link between genetics and function" a tribute to Ewald R. Weibel. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L254-L256.	1.3	1
105	The Recorded Interaction Task: A Validation Study of a New Observational Tool to Assess Mother-Infant Bonding. Journal of Midwifery and Women's Health, 2021, 66, 249-255.	0.7	1
106	Changes in lipid metabolism in mucopolysaccharidosis (MPS) IIIA mouse lung tissue and pulmonary surfactant. , 2017, , .		1
107	Pulmonary Surfactant Membranes of Hibernating Ground Squirrels Possess Increased Fluidity but are Capable of Maintaining an Ordered Membrane Structure at Low Temperatures. Biophysical Journal, 2011, 100, 628a.	0.2	0
108	The role of surfactant and distal lung dysfunction in the pathology of lysosomal storage diseases. Current Opinion in Physiology, 2021, 23, 100467.	0.9	0

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109	Physicochemical Investigation on the Pulmonary Surfactant of Some Vertebrates. Journal of Surface Science and Technology, 2017, 33, 127.	0.3	0