

Charles R Rosenfeld

List of Publications by Year in descending order

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102
papers

4,625
citations

87888

38
h-index

102487

66
g-index

109
all docs

109
docs citations

109
times ranked

2565
citing authors

#	ARTICLE	IF	CITATIONS
1	The neonatal blood count in health and disease.I. Reference values for neutrophilic cells. Journal of Pediatrics, 1979, 95, 89-98.	1.8	715
2	Prevalence of Spontaneous Closure of the Ductus Arteriosus in Neonates at a Birth Weight of 1000 Grams or Less. Pediatrics, 2006, 117, 1113-1121.	2.1	354
3	Biomarkers for Severity of Neonatal Hypoxic-Ischemic Encephalopathy and Outcomes in Newborns Receiving Hypothermia Therapy. Journal of Pediatrics, 2014, 164, 468-474.e1.	1.8	182
4	Circulatory Changes in the Reproductive Tissues of Ewes during Pregnancy. Gynecologic and Obstetric Investigation, 1974, 5, 252-268.	1.6	161
5	Effects of epinephrine on distribution of blood flow in the pregnant ewe. American Journal of Obstetrics and Gynecology, 1976, 124, 156-163.	1.3	161
6	The differential leukocyte count in the assessment and outcome of early-onset neonatal group B streptococcal disease. Journal of Pediatrics, 1977, 91, 632-637.	1.8	154
7	Effect of estradiol-17 β on blood flow to reproductive and nonreproductive tissues in pregnant ewes. American Journal of Obstetrics and Gynecology, 1976, 124, 618-629.	1.3	147
8	The Small for Gestational Age Infant: Accelerated or Delayed Pulmonary Maturation? Increased or Decreased Survival?. Pediatrics, 1995, 95, 534-538.	2.1	126
9	Systemic and uterine responses to β -adrenergic stimulation in pregnant and nonpregnant ewes. American Journal of Obstetrics and Gynecology, 1986, 155, 897-904.	1.3	114
10	Calcium-activated potassium channels and nitric oxide coregulate estrogen-induced vasodilation. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H319-H328.	3.2	103
11	Circulatory response to systemic infusion of norepinephrine in the pregnant ewe. American Journal of Obstetrics and Gynecology, 1977, 127, 376-383.	1.3	101
12	Effect of Estradiol-17, β on the Magnitude and Distribution of Uterine Blood Flow in Nonpregnant, Oophorectomized Ewes. Pediatric Research, 1973, 7, 139-148.	2.3	97
13	Neutropenia in high-risk neonates. Journal of Pediatrics, 1984, 105, 982-986.	1.8	94
14	Placental pathology is associated with severity of neonatal encephalopathy and adverse developmental outcomes following hypothermia. American Journal of Obstetrics and Gynecology, 2015, 213, 849.e1-849.e7.	1.3	76
15	Mechanisms modulating estrogen-induced uterine vasodilation. Vascular Pharmacology, 2002, 38, 115-125.	2.1	68
16	The Concentration of the 35-kDa Surfactant Apoprotein in Amniotic Fluid from Normal and Diabetic Pregnancies. Pediatric Research, 1988, 24, 728-734.	2.3	63
17	Are Complete Blood Cell Counts Useful in the Evaluation of Asymptomatic Neonates Exposed to Suspected Chorioamnionitis?. Pediatrics, 2004, 113, 1173-1180.	2.1	63
18	Prediction of the severity of meconium aspiration syndrome. American Journal of Obstetrics and Gynecology, 1993, 169, 61-70.	1.3	60

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19	Angiotensin II metabolic clearance rate and pressor responses in nonpregnant and pregnant women. American Journal of Obstetrics and Gynecology, 1994, 171, 668-679.	1.3	60
20	Ca ²⁺ -activated K ⁺ channels modulate basal and E ₂ -induced rises in uterine blood flow in ovine pregnancy. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H422-H431.	3.2	56
21	Estrogen-induced refractoriness to the pressor effects of infused angiotensin II. American Journal of Obstetrics and Gynecology, 1984, 148, 429-435.	1.3	55
22	Estrogen selectively up-regulates eNOS and nNOS in reproductive arteries by transcriptional mechanisms. Journal of the Society for Gynecologic Investigation, 2003, 10, 205-215.	1.7	55
23	Regulation of types I and III NOS in ovine uterine arteries by daily and acute estrogen exposure. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H2134-H2142.	3.2	52
24	Hospital Survival of Very-Low-Birth-Weight Neonates from 1977 to 2000. Journal of Perinatology, 2004, 24, 343-350.	2.0	51
25	MECHANISM OF ARGININE VASOPRESSIN RELEASE IN THE SHEEP FETUS. Pediatric Research, 1982, 16, 504-506.	2.3	49
26	Angiotensin II vascular smooth-muscle receptors are not down-regulated in near-term pregnant sheep. American Journal of Obstetrics and Gynecology, 1991, 165, 1641-1648.	1.3	46
27	Symptomatic patent ductus arteriosus in very-low-birth-weight infants: 1987-1989. Early Human Development, 1991, 27, 65-77.	1.8	46
28	Pregnancy modifies the large conductance Ca ²⁺ -activated K ⁺ channel and cGMP-dependent signaling pathway in uterine vascular smooth muscle. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1878-H1887.	3.2	46
29	Estrogen regulates Ca^{2+} -activated K ⁺ channels in arteries from reproductive tissues. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1417-H1427.	3.2	44
30	Maternal high-fat diet is associated with impaired fetal lung development. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L360-L368.	2.9	44
31	Mechanisms regulating angiotensin II responsiveness by the uteroplacental circulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1025-R1040.	1.8	42
32	Augmented H ₂ S production via cystathionine-beta-synthase upregulation plays a role in pregnancy-associated uterine vasodilation. Biology of Reproduction, 2017, 96, 664-672.	2.7	41
33	Ontogeny of Vascular Angiotensin II Receptor Subtype Expression in Ovine Development. Pediatric Research, 1999, 45, 414-424.	2.3	41
34	Incidence and risk factors for symptomatic patent ductus arteriosus among inborn very-low-birth-weight infants. Early Human Development, 1985, 12, 39-48.	1.8	40
35	Determinants of blood pressure in very low birth weight neonates: lack of effect of antenatal steroids. Early Human Development, 2000, 59, 37-50.	1.8	40
36	Urinary Arginine Vasopressin: Pattern of Excretion in the Neonatal Period. Pediatric Research, 1986, 20, 103-108.	2.3	39

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37	Systemic and uterine responsiveness to angiotensin II and norepinephrine in estrogen-treated nonpregnant sheep. American Journal of Obstetrics and Gynecology, 1985, 153, 417-425.	1.3	38
38	Mechanisms for attenuated pressor responses to $\hat{1}\pm$ -agonists in ovine pregnancy. American Journal of Obstetrics and Gynecology, 1988, 159, 252-261.	1.3	38
39	Hemodynamic effects of indomethacin in chronically instrumented pregnant sheep. American Journal of Obstetrics and Gynecology, 1985, 151, 484-494.	1.3	37
40	Large-Conductance Ca^{2+} -Dependent K^{+} Channels Regulate Basal Uteroplacental Blood Flow in Ovine Pregnancy. Journal of the Society for Gynecologic Investigation, 2005, 12, 402-408.	1.7	37
41	Elevated systolic blood pressure in preterm very-low-birth-weight infants $\hat{\text{a}}\%3$ years of life. Pediatric Nephrology, 2011, 26, 1115-1121.	1.7	37
42	Estrogen Replacement Therapy in Ovariectomized Nonpregnant Ewes Stimulates Uterine Artery Hydrogen Sulfide Biosynthesis by Selectively Up-Regulating Cystathionine $\hat{1}^2$ -Synthase Expression. Endocrinology, 2015, 156, 2288-2298.	2.8	37
43	Serial Neutrophil Values Facilitate Predicting the Absence of Neonatal Early-Onset Sepsis. Journal of Pediatrics, 2014, 164, 522-528.e3.	1.8	36
44	Ovine Fetoplacental Sulfoconjugation and Aromatization of Dehydroepiandrosterone*. Endocrinology, 1980, 106, 1971-1979.	2.8	31
45	Renal function and systolic blood pressure in very-low-birth-weight infants $\hat{1}\hat{\text{a}}\text{€}^3\hat{\text{A}}$ years of age. Pediatric Nephrology, 2012, 27, 2285-2291.	1.7	28
46	Prenatal Care Evaluation and Cohort Analyses. Pediatrics, 1990, 85, 195-204.	2.1	25
47	Extreme Preterm Infant Rates of Overweight and Obesity at School Age in the SUPPORT Neuroimaging and Neurodevelopmental Outcomes Cohort. Journal of Pediatrics, 2018, 200, 132-139.e3.	1.8	23
48	Regional Blood Flows in Newborn Lambs During Endotracheal Continuous Airway Pressure and Continuous Negative Pressure Breathing. Pediatric Research, 1981, 15, 874-878.	2.3	22
49	Large Conductance Ca^{2+} -Activated K^{+} Channels Contribute to Vascular Function in Nonpregnant Human Uterine Arteries. Reproductive Sciences, 2008, 15, 651-660.	2.5	22
50	Regulation of the cGMP-cPKG pathway and large-conductance Ca^{2+} -activated K^{+} channels in uterine arteries during the ovine ovarian cycle. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E222-E228.	3.5	22
51	Vasopressin and Catecholamine Secretion during Metabolic Acidemia in the Ovine Fetus. Pediatric Research, 1987, 21, 38-43.	2.3	19
52	Neonatal intracranial hemorrhage: I. changing pattern in inborn low-birth-weight infants. Early Human Development, 1990, 23, 117-128.	1.8	19
53	Estrogen Selectively Up-Regulates eNOS and nNOS in Reproductive Arteries By Transcriptional Mechanisms. Journal of the Society for Gynecologic Investigation, 2003, 10, 205-215.	1.7	19
54	Impact of multiple placental pathologies on neonatal death, bronchopulmonary dysplasia, and neurodevelopmental impairment in preterm infants. Pediatric Research, 2020, 87, 885-891.	2.3	19

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55	Angiotensin II indirectly vasoconstricts the ovine uterine circulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R337-R344.	1.8	18
56	Vascular development in early ovine gestation: carotid smooth muscle function, phenotype, and biochemical markers. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R323-R333.	1.8	18
57	Differential Sensitivity to Angiotensin II and Norepinephrine in Human Uterine Arteries. Journal of Clinical Endocrinology and Metabolism, 2012, 97, 138-147.	3.6	18
58	Circulatory responses to systemic infusions of estrone and estradiol-17 β in nonpregnant, oophorectomized ewes. American Journal of Obstetrics and Gynecology, 1978, 132, 442-448.	1.3	17
59	Ontogeny of angiotensin II vascular smooth muscle receptors in ovine fetal aorta and placental and uterine arteries. American Journal of Obstetrics and Gynecology, 1993, 168, 1562-1569.	1.3	17
60	Pregnancy increases myometrial artery myogenic tone via NOS- or COX-independent mechanisms. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R368-R375.	1.8	17
61	Interrater Reliability and Effect of State on Blood Pressure Measurements in Infants 1 to 3 Years of Age. Pediatrics, 2008, 122, e590-e594.	2.1	16
62	Meconium Increases Type 1 Angiotensin II Receptor Expression and Alveolar Cell Death. Pediatric Research, 2008, 63, 251-256.	2.3	16
63	Prolonged uterine artery nitric oxide synthase inhibition modestly alters basal uteroplacental vasodilation in the last third of ovine pregnancy. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H1196-H1203.	3.2	16
64	Optimizing individual nutrition in preterm very low birth weight infants: double-blinded randomized controlled trial. Journal of Perinatology, 2020, 40, 655-665.	2.0	16
65	Lenticulostriate vasculopathy in neonates: Is it a marker of cerebral insult? Critical review of the literature. Early Human Development, 2015, 91, 423-426.	1.8	14
66	Differential development of umbilical and systemic arteries. II. Contractile proteins. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R1815-R1823.	1.8	13
67	Angiotensin II mediates uterine vasoconstriction through α_1 -stimulation. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H126-H134.	3.2	13
68	Vessel-Specific Regulation of Angiotensin II Receptor Subtypes During Ovine Development. Pediatric Research, 2005, 57, 124-132.	2.3	13
69	Large Conductance Ca ²⁺ -Activated and Voltage-Activated K ⁺ Channels Contribute to the Rise and Maintenance of Estrogen-Induced Uterine Vasodilation and Maintenance of Blood Pressure. Endocrinology, 2012, 153, 6012-6020.	2.8	13
70	Fetal-placental crosstalk occurs through fetal cytokine synthesis and placental clearance. Placenta, 2018, 69, 1-8.	1.5	13
71	Biomarkers of adiposity are elevated in preterm very-low-birth-weight infants at 1, 2, and 3 y of age. Pediatric Research, 2017, 81, 780-786.	2.3	12
72	Lenticulostriate vasculopathy in preterm infants: a new classification, clinical associations and neurodevelopmental outcome. Journal of Perinatology, 2018, 38, 1370-1378.	2.0	12

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73	Adjustable feedings plus accurate serial length measurements decrease discharge weight-length disproportion in very preterm infants: quality improvement project. <i>Journal of Perinatology</i> , 2019, 39, 1131-1139.	2.0	12
74	The Renin-Angiotensin System in Conscious Newborn Sheep: Metabolic Clearance Rate and Activity. <i>Pediatric Research</i> , 2007, 61, 681-686.	2.3	11
75	Fetal responses to maternal infusions of angiotensin II. <i>American Journal of Obstetrics and Gynecology</i> , 1986, 154, 195-203.	1.3	10
76	Failure to Detect a Stimulatory Effect of Estradiol-17 β on Ovine Fetal Lung Maturation. <i>Pediatric Research</i> , 1987, 22, 145-149.	2.3	10
77	The effect of systemic infusions of dehydroisoandrosterone on the distribution of uterine blood flow in ovine pregnancy. <i>American Journal of Obstetrics and Gynecology</i> , 1978, 130, 385-390.	1.3	9
78	Lenticulostriate vasculopathy in neonates: Perspective of the radiologist. <i>Early Human Development</i> , 2015, 91, 431-435.	1.8	9
79	Defining the differential sensitivity to norepinephrine and angiotensin II in the ovine uterine vasculature. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R59-R67.	1.8	8
80	Valid serial length measurements in preterm infants permit characterization of growth patterns. <i>Journal of Perinatology</i> , 2018, 38, 1694-1701.	2.0	8
81	Data electronically extracted from the electronic health record require validation. <i>Journal of Perinatology</i> , 2019, 39, 468-474.	2.0	8
82	Screening and Serial Neutrophil Counts Do Not Contribute to the Recognition or Diagnosis of Late-Onset Neonatal Sepsis. <i>Journal of Pediatrics</i> , 2019, 205, 105-111.e2.	1.8	8
83	Large Conductance Ca ²⁺ -Activated K ⁺ Channels Modulate Uterine β 1-Adrenergic Sensitivity in Ovine Pregnancy. <i>Reproductive Sciences</i> , 2014, 21, 456-464.	2.5	6
84	Autism spectrum disorders in extremely preterm infants and placental pathology findings: a matched case-control study. <i>Pediatric Research</i> , 2021, 89, 1825-1831.	2.3	6
85	Association of age of initiation and type of complementary foods with body mass index and weight-for-length at 12 months of age in preterm infants. <i>Journal of Perinatology</i> , 2020, 40, 1394-1404.	2.0	6
86	Decrease in the frequency of treatment for patent ductus arteriosus after implementation of consensus guidelines: a 15-year experience. <i>Journal of Perinatology</i> , 2019, 39, 1569-1576.	2.0	5
87	Association of antenatal steroids with neonatal mortality and morbidity in preterm infants born to mothers with diabetes mellitus and hypertension. <i>Journal of Perinatology</i> , 2021, 41, 1660-1668.	2.0	5
88	Effects of Systemic and Local Phenylephrine and Arginine Vasopressin Infusions in Conscious Postnatal Sheep. <i>Pediatric Research</i> , 2005, 58, 58-65.	2.3	4
89	Adrenal insufficiency in neonates undergoing cardiopulmonary bypass and postoperative hypothalamic-pituitary-adrenal function after prophylactic glucocorticoids. <i>Journal of Perinatology</i> , 2019, 39, 640-647.	2.0	4
90	Discontinuing Nasal Continuous Positive Airway Pressure in Infants ≥ 32 Weeks of Gestational Age: A Randomized Control Trial. <i>Journal of Pediatrics</i> , 2021, 230, 93-99.e3.	1.8	4

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91	Regulation of the Placental Circulation. , 2004, , 97-103.		4
92	Placental clearance not synthesis tempers exaggerated pro-inflammatory cytokine response in neonates exposed to chorioamnionitis. Pediatric Research, 2023, 93, 675-681.	2.3	4
93	Placental clearance/synthesis of neurobiomarkers GFAP and UCH-L1 in healthy term neonates and those with moderateâ€“severe neonatal encephalopathy. Pediatric Research, 2019, 86, 500-504.	2.3	3
94	Risk Factors for the Occurrence of Pregnancy-Induced Hypertension. Clinical and Experimental Hypertension Part B, Hypertension in Pregnancy, 1987, 6, 281-297.	0.2	2
95	Quality improvement project designed to reduce disproportionate growth in extremely low gestational age neonates: cognitive neurodevelopmental outcome at 18â€“41 months. Journal of Perinatology, 2021, 41, 1050-1058.	2.0	2
96	Regulation of the Placental Circulation. , 2017, , 114-121.e2.		1
97	Carotid smooth muscle contractility changes after severe burn. Scientific Reports, 2021, 11, 18094.	3.3	1
98	Differential Responses to Systemic and Local Angiotensin II Infusions in Conscious Postnatal Sheep. Pediatric Research, 2002, 52, 333-341.	2.3	1
99	Association of antenatal steroids with surfactant administration in moderate preterm infants born to women with diabetes mellitus and/or hypertension. Journal of Perinatology, 2022, 42, 993-1000.	2.0	1
100	Persistent high blood pressure and renal dysfunction in preterm infants during childhood. Pediatric Research, 2023, 93, 217-225.	2.3	1
101	Regulation of the Placental Circulation. , 2011, , 121-127.		0
102	Why Use Indomethacin?. Pediatrics, 1990, 86, 146-147.	2.1	0