

David M Olson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7219665/publications.pdf>

Version: 2024-02-01

78
papers

3,261
citations

147566

31
h-index

155451

55
g-index

120
all docs

120
docs citations

120
times ranked

3368
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflammatory processes in preterm and term parturition. <i>Journal of Reproductive Immunology</i> , 2008, 79, 50-57.	0.8	417
2	The role of prostaglandins in the initiation of parturition. <i>Best Practice and Research in Clinical Obstetrics and Gynaecology</i> , 2003, 17, 717-730.	1.4	212
3	Maternal Stress Induces Epigenetic Signatures of Psychiatric and Neurological Diseases in the Offspring. <i>PLoS ONE</i> , 2013, 8, e56967.	1.1	170
4	Ancestral exposure to stress epigenetically programs preterm birth risk and adverse maternal and newborn outcomes. <i>BMC Medicine</i> , 2014, 12, 121.	2.3	119
5	Interleukin-6 Is an Essential Determinant of On-Time Parturition in the Mouse. <i>Endocrinology</i> , 2010, 151, 3996-4006.	1.4	114
6	Novel Noncompetitive IL-1 Receptor Biased Ligand Prevents Infection- and Inflammation-Induced Preterm Birth. <i>Journal of Immunology</i> , 2015, 195, 3402-3415.	0.4	114
7	Prostaglandin endoperoxide-H synthase-1 and -2 messenger ribonucleic acid levels in human amnion with spontaneous labor onset. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1995, 80, 517-523.	1.8	112
8	Adverse childhood experiences are associated with spontaneous preterm birth: a case-control study. <i>BMC Medicine</i> , 2015, 13, 124.	2.3	107
9	Antenatal Suppression of IL-1 Protects against Inflammation-Induced Fetal Injury and Improves Neonatal and Developmental Outcomes in Mice. <i>Journal of Immunology</i> , 2017, 198, 2047-2062.	0.4	102
10	Expression of Myometrial Activation and Stimulation Genes in a Mouse Model of Preterm Labor: Myometrial Activation, Stimulation, and Preterm Labor. <i>Endocrinology</i> , 2000, 141, 1718-1728.	1.4	85
11	Allostatic Load and Preterm Birth. <i>International Journal of Molecular Sciences</i> , 2015, 16, 29856-29874.	1.8	81
12	The role of nitric oxide and metalloproteinases in the pathogenesis of hyperoxia-induced lung injury in newborn rats. <i>British Journal of Pharmacology</i> , 1998, 125, 1455-1462.	2.7	80
13	A critical role of interleukin-1 in preterm labor. <i>Cytokine and Growth Factor Reviews</i> , 2016, 28, 37-51.	3.2	71
14	Prostaglandin Endoperoxide H Synthase (PGHS) Activity and PGHS-1 and -2 Messenger Ribonucleic Acid Abundance in Human Chorion Throughout Gestation and With Preterm Labor. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 1358-1367.	1.8	62
15	Maternal Whole Blood Gene Expression at 18 and 28 Weeks of Gestation Associated with Spontaneous Preterm Birth in Asymptomatic Women. <i>PLoS ONE</i> , 2016, 11, e0155191.	1.1	60
16	Lactate produced during labor modulates uterine inflammation via GPR81 (HCA1). <i>American Journal of Obstetrics and Gynecology</i> , 2017, 216, 60.e1-60.e17.	0.7	57
17	Interleukin-6 controls uterine Th9 cells and CD8 ⁺ T regulatory cells to accelerate parturition in mice. <i>Immunology and Cell Biology</i> , 2016, 94, 79-89.	1.0	56
18	Toll-Like Receptor 4 Is an Essential Upstream Regulator of On-Time Parturition and Perinatal Viability in Mice. <i>Endocrinology</i> , 2015, 156, 3828-3841.	1.4	54

#	ARTICLE	IF	CITATIONS
19	Novel Toll-like receptor-4 antagonist (+)-naloxone protects mice from inflammation-induced preterm birth. <i>Scientific Reports</i> , 2016, 6, 36112.	1.6	54
20	Development and validation of primary human myometrial cell culture models to study pregnancy and labour. <i>BMC Pregnancy and Childbirth</i> , 2013, 13, S7.	0.9	47
21	Mouse Placental Prostaglandins Are Associated with Uterine Activation and the Timing of Birth1. <i>Biology of Reproduction</i> , 2003, 68, 579-587.	1.2	43
22	Does a maternal history of abuse before pregnancy affect pregnancy outcomes? A systematic review with meta-analysis. <i>BMC Pregnancy and Childbirth</i> , 2018, 18, 404.	0.9	43
23	The Interleukin 1beta-Induced Expression of Human Prostaglandin F2alpha Receptor Messenger RNA in Human Myometrial-Derived ULTR Cells Requires the Transcription Factor, NFkappaB1. <i>Biology of Reproduction</i> , 2006, 75, 697-704.	1.2	40
24	PGF ₂ modulates the output of chemokines and pro-inflammatory cytokines in myometrial cells from term pregnant women through divergent signaling pathways. <i>Molecular Human Reproduction</i> , 2015, 21, 603-614.	1.3	39
25	Prostaglandin endoperoxide H synthase mRNA expression in the human amnion and decidua during pregnancy and in the amnion at preterm labour. <i>Molecular Human Reproduction</i> , 1999, 5, 182-187.	1.3	38
26	Effects of PGF ₂ on the Expression of Uterine Activation Proteins in Pregnant Human Myometrial Cells From Upper and Lower Segment. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 2975-2983.	1.8	37
27	Altered brain morphology and functional connectivity reflect a vulnerable affective state after cumulative multigenerational stress in rats. <i>Neuroscience</i> , 2016, 330, 79-89.	1.1	37
28	Timing of hyperoxic exposure during alveolarization influences damage mediated by leukotrienes. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001, 281, L799-L806.	1.3	35
29	Prostaglandin-endoperoxide H synthase-2 expression and activity increases with term labor in human chorion. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1997, 272, E832-E840.	1.8	34
30	Ancestral experience as a game changer in stress vulnerability and disease outcomes. <i>BioEssays</i> , 2015, 37, 602-611.	1.2	34
31	Delay of preterm birth in sheep by THG113.31, a prostaglandin F ₂ receptor antagonist. <i>American Journal of Obstetrics and Gynecology</i> , 2005, 193, 256-266.	0.7	32
32	Targeting Toll-like receptor 4 to tackle preterm birth and fetal inflammatory injury. <i>Clinical and Translational Immunology</i> , 2020, 9, e1121.	1.7	32
33	Prenatal two-hit stress affects maternal and offspring pregnancy outcomes and uterine gene expression in rats: match or mismatch? <i>Biology of Reproduction</i> , 2019, 100, 195-207.	1.2	29
34	Interleukin (IL) 1 in rat parturition: IL receptors 1 and 2 and accessory proteins abundance in pregnant rat uterus at term – regulation by progesterone. <i>Physiological Reports</i> , 2016, 4, e12866.	0.7	28
35	Cooperative effects of sequential PGF ₂ and IL-1 ² on IL-6 and COX-2 expression in human myometrial cells. <i>Biology of Reproduction</i> , 2019, 100, 1370-1385.	1.2	28
36	The determinant role of IL-6 in the establishment of inflammation leading to spontaneous preterm birth. <i>Cytokine and Growth Factor Reviews</i> , 2021, 59, 118-130.	3.2	28

#	ARTICLE	IF	CITATIONS
37	Emerging tocolytics: challenges in designing and testing drugs to delay preterm delivery and prolong pregnancy. <i>Expert Opinion on Emerging Drugs</i> , 2008, 13, 695-707.	1.0	26
38	Lack of Social Support Raises Stress Vulnerability in Rats with a History of Ancestral Stress. <i>Scientific Reports</i> , 2017, 7, 5277.	1.6	26
39	Antenatal IL-1-dependent inflammation persists postnatally and causes retinal and sub-retinal vasculopathy in progeny. <i>Scientific Reports</i> , 2018, 8, 11875.	1.6	26
40	Racial disparities in pregnancy outcomes: genetics, epigenetics, and allostatic load. <i>Current Opinion in Physiology</i> , 2020, 13, 155-165.	0.9	26
41	Inflammatory Amplification: A Central Tenet of Uterine Transition for Labor. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 660983.	1.8	26
42	Prostaglandin Endoperoxide H Synthase-1 and -2 mRNA Levels and Enzyme Activity in Human Decidua at Term Labor. <i>Journal of the Society for Gynecologic Investigation</i> , 1998, 5, 13-20.	1.9	26
43	DNA methylation-associated repression of MEST/PEG1 expression contributes to the invasion of extravillous trophoblast cells. <i>Placenta</i> , 2016, 46, 92-101.	0.7	22
44	Prenatal Maternal Stress Causes Preterm Birth and Affects Neonatal Adaptive Immunity in Mice. <i>Frontiers in Immunology</i> , 2020, 11, 254.	2.2	22
45	Hydrogen Sulfide Delays LPS-Induced Preterm Birth in Mice via Anti-Inflammatory Pathways. <i>PLoS ONE</i> , 2016, 11, e0152838.	1.1	22
46	The Promise of Prostaglandins: Have They Fulfilled Their Potential as Therapeutic Targets for the Delay of Preterm Birth?. <i>Journal of the Society for Gynecologic Investigation</i> , 2005, 12, 466-478.	1.9	21
47	Climate change is a major stressor causing poor pregnancy outcomes and child development. <i>F1000Research</i> , 2020, 9, 1222.	0.8	21
48	Recent Canadian efforts to develop population-level pregnancy intervention studies to mitigate effects of natural disasters and other tragedies. <i>Journal of Developmental Origins of Health and Disease</i> , 2019, 10, 108-114.	0.7	18
49	Maternal Mental Health after a Wildfire: Effects of Social Support in the Fort McMurray Wood Buffalo Study. <i>Canadian Journal of Psychiatry</i> , 2021, 66, 710-718.	0.9	18
50	Landscape of Preterm Birth Therapeutics and a Path Forward. <i>Journal of Clinical Medicine</i> , 2021, 10, 2912.	1.0	17
51	Prostaglandin Endoperoxide H Synthase-1 and -2 mRNA Levels and Enzyme Activity in Human Decidua at Term Labor. <i>Journal of the Society for Gynecologic Investigation</i> , 1998, 5, 13-20.	1.9	16
52	Oncoplastic and reconstructive breast surgery in Canada: breaking new ground in general surgical training. <i>Canadian Journal of Surgery</i> , 2018, 61, 294-299.	0.5	15
53	Maternal and fetal intrauterine tissue crosstalk promotes proinflammatory amplification and uterine transition. <i>Biology of Reproduction</i> , 2019, 100, 783-797.	1.2	14
54	Cloning and characterization of the promoter region of the human prostaglandin F2 β receptor gene. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2004, 1676, 193-202.	2.4	12

#	ARTICLE	IF	CITATIONS
55	Progesterone and Prostaglandin H Synthase-2 Involvement in Alcohol-Induced Preterm Birth in Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 1999, 23, 1793-1800.	1.4	11
56	IL-27 induces a pro-inflammatory response in human fetal membranes mediating preterm birth. <i>International Immunopharmacology</i> , 2017, 50, 361-369.	1.7	11
57	The rat cumulative allostatic load measure (rCALM): a new translational assessment of the burden of stress. <i>Environmental Epigenetics</i> , 2019, 5, dvz005.	0.9	10
58	An allosteric interleukin-1 receptor modulator mitigates inflammation and photoreceptor toxicity in a model of retinal degeneration. <i>Journal of Neuroinflammation</i> , 2020, 17, 359.	3.1	10
59	IFPA meeting 2016 workshop report III: Decidua-trophoblast interactions; trophoblast implantation and invasion; immunology at the maternal-fetal interface; placental inflammation. <i>Placenta</i> , 2017, 60, S15-S19.	0.7	9
60	Multiple prenatal stresses increase sexual dimorphism in adult offspring behavior. <i>Psychoneuroendocrinology</i> , 2019, 107, 251-260.	1.3	9
61	Uterotonic Neuromedin U Receptor 2 and Its Ligands Are Upregulated by Inflammation in Mice and Humans, and Elicit Preterm Birth. <i>Biology of Reproduction</i> , 2016, 95, 72-72.	1.2	8
62	Pregnant human peripheral leukocyte migration during several late pregnancy clinical conditions: a cross-sectional observational study. <i>BMC Pregnancy and Childbirth</i> , 2017, 17, 16.	0.9	8
63	The Importance of Impermeant Support in Small Bowel Preservation: A Morphologic, Metabolic and Functional study. <i>American Journal of Transplantation</i> , 2001, 1, 236-242.	2.6	7
64	Improving Wait Times and Patient Experience Through Implementation of a Provincial Expedited Diagnostic Pathway for BI-RADS 5 Breast Lesions. <i>Annals of Surgical Oncology</i> , 2019, 26, 3361-3367.	0.7	7
65	Direct administration of the non-competitive interleukin-1 receptor antagonist rytvela transiently reduced intrauterine inflammation in an extremely preterm sheep model of chorioamnionitis. <i>PLoS ONE</i> , 2021, 16, e0257847.	1.1	6
66	Preterm Birth and Neonatal Injuries: Importance of Interleukin-1 and Potential of Interleukin-1 Receptor Antagonists. <i>Current Pharmaceutical Design</i> , 2018, 23, 6132-6141.	0.9	6
67	Two novel genetic variants in the mineralocorticoid receptor gene associated with spontaneous preterm birth. <i>BMC Medical Genetics</i> , 2015, 16, 59.	2.1	5
68	Screening in the Prenatal Period for Intimate Partner Violence and History of Abuse: A Survey of Edmonton Obstetrician/Gynaecologists. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2019, 41, 38-45.	0.3	5
69	Unexpected effects of expressive writing on post-disaster distress in the Hurricane Harvey Study: a randomized controlled trial in perinatal women. <i>Psychological Medicine</i> , 2021, , 1-9.	2.7	5
70	The Fort McMurray Mommy Baby Study: A Protocol to Reduce Maternal Stress Due to the 2016 Fort McMurray Wood Buffalo, Alberta, Canada Wildfire. <i>Frontiers in Public Health</i> , 2021, 9, 601375.	1.3	4
71	Blunted Cardiac AMPK Response is Associated with Susceptibility to Ischemia/ Reperfusion in Male Offspring of Gestational Diabetic Rats. <i>Cellular Physiology and Biochemistry</i> , 2019, 52, 1103-1116.	1.1	3
72	Effect of Developmental Age and Hyperoxia Exposure on Kinase and Phosphatase Activities in Newborn Rat Lungs. <i>Experimental Lung Research</i> , 1998, 24, 339-353.	0.5	1

#	ARTICLE	IF	CITATIONS
73	Prostaglandin endoperoxide H synthase mRNA expression in the fetal membranes correlates with fetal fibronectin concentration in the cervico-vaginal fluids at term: evidence of enzyme induction before the onset of labour. BJOG: an International Journal of Obstetrics and Gynaecology, 2000, 107, 267-273.	1.1	1
74	A Strategic Program for Risk Assessment and Intervention to Mitigate Environmental Stressor-Related Adverse Pregnancy Outcomes in the Indian Population. Frontiers in Reproductive Health, 2021, 3, .	0.6	1
75	Hyperoxia regulates leukotriene (LT) receptor mRNA expression in the developing rat lung. FASEB Journal, 2006, 20, A1442.	0.2	1
76	Enhancing Resilience in Canadian Military Families and Communities: A Qualitative Analysis of the Reaching Inâ€¦ Reaching Out and Bounce Back and Thrive! Resiliency Skills Training Programs. Frontiers in Public Health, 2021, 9, 662313.	1.3	0
77	Resilient Parentsâ€¦ Resilient Communities: A Pilot Study Trialing the Bounce Back and Thrive! Resilience-Training Program With Military Families. Frontiers in Psychology, 2021, 12, 651522.	1.1	0
78	A Leukocyte Migration Assay Assists Understanding of Interleukin-1 ^{Î²} -Induced Leukocyte Migration Into Preterm Mouse Uterus. Frontiers in Pharmacology, 0, 13, .	1.6	0