Vsevolod Y Polotsky

List of Publications by Year
in descending order

138 papers	10,407 citations	34016 52 h-index	33814 99 g-index
140 all docs	140 docs citations	140 times ranked	8584 citing authors

#	Article	IF	Citations
1	D-dimer in Marfan syndrome: effect of obstructive sleep apnea induced blood pressure surges. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H742-H748.	1.5	1
2	Metformin Alleviates Airway Hyperresponsiveness in a Mouse Model of Diet-Induced Obesity. Frontiers in Physiology, 2022, 13, 883275.	1.3	4
3	Obesityâ€Induced Breathing Variability During Sleep Is Independent of Apneas and Sleep Fragmentation. FASEB Journal, 2022, 36, .	0.2	1
4	The effect of brain serotonin deficiency on breathing is magnified by age. Physiological Reports, 2022, 10, e15245.	0.7	7
5	0167 Obesity-Induced Breathing Variability During Sleep Is Not Entirely Attributed to Apneas and Sleep Fragmentation. Sleep, 2022, 45, A77-A78.	0.6	0
6	Leptin-mediated neural targets in obesity hypoventilation syndrome. Sleep, 2022, 45, .	0.6	13
7	Designer Receptors Exclusively Activated by Designer Drugs Approach to Treatment of Sleep-disordered Breathing. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 102-110.	2.5	25
8	Gene delivery to the hypoglossal motor system: preclinical studies and translational potential. Gene Therapy, 2021, 28, 402-412.	2.3	7
9	Leptin receptor expression in the dorsomedial hypothalamus stimulates breathing during NREM sleep indb/dbmice. Sleep, 2021, 44, .	0.6	21
10	Intranasal leptin improves survival after opioid overdose in a mouse model. Journal of Translational Medicine, 2021, 19, 134.	1.8	5
11	Leptin Induces Epigenetic Regulation of Transient Receptor Potential Melastatin 7 in Rat Adrenal Pheochromocytoma Cells. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 214-221.	1.4	13
12	Effects of Dinner Timing on Sleep Stage Distribution and EEG Power Spectrum in Healthy Volunteers. Nature and Science of Sleep, 2021, Volume 13, 601-612.	1.4	6
13	Role of Leptinâ€TRPM7 Signaling in Carotid Bodies in the Pathogenesis of Sleepâ€Disordered Breathing in Obesity. FASEB Journal, 2021, 35, .	0.2	1
14	The Effect of DREADD Activation of Leptin Receptor Positive Neurons in the Nucleus of the Solitary Tract on Sleep Disordered Breathing. International Journal of Molecular Sciences, 2021, 22, 6742.	1.8	8
15	Pharmacological and Genetic Blockade ofTrpm7in the Carotid Body Treats Obesity-Induced Hypertension. Hypertension, 2021, 78, 104-114.	1.3	10
16	Leptin Receptor Blockade Attenuates Hypertension, but Does Not Affect Ventilatory Response to Hypoxia in a Model of Polygenic Obesity. Frontiers in Physiology, 2021, 12, 688375.	1.3	9
17	Sleep Apnea, Hypoxia Inducible Factor, and Fatty Liver: More Questions Than Answers?. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 337-338.	1.4	1
18	Of Mice and Babies: PHOX2B and Obstructive Apneas in Congenital Central Hypoventilation Syndrome. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1128-1130.	2.5	1

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19	Impaired metabolism in obstructive sleep apnea. , 2021, , .		0
20	Obstructive sleep apnoea and susceptibility to cardiovascular disease: A blessing or curse of old age?. Respirology, 2020, 25, 242-243.	1.3	5
21	GABA and glycine neurons from the ventral medullary region inhibit hypoglossal motoneurons. Sleep, 2020, 43, .	0.6	11
22	Carotid Body and Metabolic Syndrome: Mechanisms and Potential Therapeutic Targets. International Journal of Molecular Sciences, 2020, 21, 5117.	1.8	13
23	Metabolic Effects of Late Dinner in Healthy Volunteersâ€"A Randomized Crossover Clinical Trial. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 2789-2802.	1.8	62
24	Intranasal Leptin Prevents Opioid-induced Sleep-disordered Breathing in Obese Mice. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 502-509.	1.4	23
25	Experimental Approach to Examine Leptin Signaling in the Carotid Bodies and its Effects on Control of Breathing. Journal of Visualized Experiments, 2019, , .	0.2	5
26	Leptin Induces Hypertension Acting on Transient Receptor Potential Melastatin 7 Channel in the Carotid Body. Circulation Research, 2019, 125, 989-1002.	2.0	53
27	Caloric restriction prevents the development of airway hyperresponsiveness in mice on a high fat diet. Scientific Reports, 2019, 9, 279.	1.6	7
28	Upright posture increases oxyhemoglobin saturation in Peruvian highlanders. Respiratory Physiology and Neurobiology, 2019, 266, 138-143.	0.7	1
29	0111 Leptin Receptor Blockade Decreased Blood Pressure and Hypoxic Ventilatory Response in an Animal Model of Metabolic Syndrome. Sleep, 2019, 42, A46-A46.	0.6	0
30	0073 Activation of Leptin Receptor Positive Neurons in the Nucleus of The Solitary Tract (NTS) Alleviates Sleep Disordered Breathing in Obese Mice. Sleep, 2019, 42, A30-A31.	0.6	0
31	0126 A Novel Non-invasive Approach for Measuring Upper Airway Collapsibility in Mice. Sleep, 2019, 42, A52-A52.	0.6	0
32	The Role of Animal Models in Developing Pharmacotherapy for Obstructive Sleep Apnea. Journal of Clinical Medicine, 2019, 8, 2049.	1.0	12
33	Intranasal Leptin Relieves Sleep-disordered Breathing in Mice with Diet-induced Obesity. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 773-783.	2.5	56
34	Pharmacotherapy of Obstructive Sleep Apnea: Is Salvation Just Around a Corner?. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 1186-1187.	2.5	5
35	Leptin acts in the carotid bodies to increase minute ventilation during wakefulness and sleep and augment the hypoxic ventilatory response. Journal of Physiology, 2019, 597, 151-172.	1.3	47
36	Metabolic syndrome and sleep apnea: A bidirectional relationship. , 2019, , 169-200.		1

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37	Vertical sleeve gastrectomy improves ventilatory drive through a leptin-dependent mechanism. JCI Insight, 2019, 4, .	2.3	11
38	High fat diet induces airway hyperresponsiveness in mice. Scientific Reports, 2018, 8, 6404.	1.6	21
39	Obstructive sleep apnea and effects of continuous positive airway pressure on triglyceride-rich lipoprotein metabolism. Journal of Lipid Research, 2018, 59, 1027-1033.	2.0	30
40	Disturbed sleep and diabetes: A potential nexus of dementia risk. Metabolism: Clinical and Experimental, 2018, 84, 85-93.	1.5	37
41	A Novel Non-invasive Approach for Measuring Upper Airway Collapsibility in Mice. Frontiers in Neurology, 2018, 9, 985.	1.1	2
42	Silencing of Hypoglossal Motoneurons Leads to Sleep Disordered Breathing in Lean Mice. Frontiers in Neurology, 2018, 9, 962.	1.1	19
43	Neurostimulation Treatment of OSA. Chest, 2018, 154, 1435-1447.	0.4	39
44	Sleep-disordered breathing in C57BL/6J mice with diet-induced obesity. Sleep, 2018, 41, .	0.6	37
45	Integrating loop gain into the understanding of obstructive sleep apnoea mechanisms. Journal of Physiology, 2018, 596, 3819-3820.	1.3	6
46	Leptin and Leptin Resistance in the Pathogenesis of Obstructive Sleep Apnea: A Possible Link to Oxidative Stress and Cardiovascular Complications. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-8.	1.9	77
47	Hypoxia-Inducible Factors and Cancer. Current Sleep Medicine Reports, 2017, 3, 1-10.	0.7	154
48	Sleep Apnea. Journal of the American College of Cardiology, 2017, 69, 841-858.	1.2	872
49	Optogenetic identification of hypothalamic orexin neuron projections to paraventricular spinally projecting neurons. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H808-H817.	1.5	17
50	Update in Sleep-disordered Breathing 2016. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1561-1566.	2.5	12
51	Obstructive Sleep Apnea Dynamically Increases Nocturnal Plasma Free Fatty Acids, Glucose, and Cortisol During Sleep. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 3172-3181.	1.8	99
52	Effect of adrenal medullectomy on metabolic responses to chronic intermittent hypoxia in the frequently sampled intravenous glucose tolerance test. Journal of Applied Physiology, 2017, 122, 767-774.	1.2	16
53	Chemogenetic stimulation of the hypoglossal neurons improves upper airway patency. Scientific Reports, 2017, 7, 44392.	1.6	35
54	Cross-Sectional Comparison of Sleep-Disordered Breathing in Native Peruvian Highlanders and Lowlanders. High Altitude Medicine and Biology, 2017, 18, 11-19.	0.5	37

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55	Cardiometabolic correlates of sleep disordered breathing in Andean highlanders. European Respiratory Journal, 2017, 49, 1601705.	3.1	12
56	Adipose HIF-1Î± causes obesity by suppressing brown adipose tissue thermogenesis. Journal of Molecular Medicine, 2017, 95, 287-297.	1.7	34
57	Hepatocyte Hypoxia Inducible Factor-1 Mediates the Development of Liver Fibrosis in a Mouse Model of Nonalcoholic Fatty Liver Disease. PLoS ONE, 2016, 11, e0168572.	1.1	81
58	Hypoxia and hypercapnia inhibit hypothalamic orexin neurons in rats. Journal of Neurophysiology, 2016, 116, 2250-2259.	0.9	19
59	Pharyngeal collapsibility during sleep is elevated in insulin-resistant females with morbid obesity. European Respiratory Journal, 2016, 47, 1718-1726.	3.1	8
60	Serum from obstructive sleep apnea patients induces inflammatory responses in coronary artery endothelial cells. Atherosclerosis, 2016, 254, 59-66.	0.4	45
61	Genome-Wide Association Studies in Obstructive Sleep Apnea. Will We Catch a Black Cat in a Dark Room?. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 789-791.	2.5	5
62	Direct projections from hypothalamic orexin neurons to brainstem cardiac vagal neurons. Neuroscience, 2016, 339, 47-53.	1.1	21
63	Localizing Effects of Leptin on Upper Airway and Respiratory Control during Sleep. Sleep, 2016, 39, 1097-1106.	0.6	48
64	Increased Cardiometabolic Risk and Worsening Hypoxemia at High Altitude. High Altitude Medicine and Biology, 2016, 17, 93-100.	0.5	38
65	Stressful sleep. European Respiratory Journal, 2016, 47, 366-368.	3.1	2
66	Sleep Apnea Research in Animals. Past, Present, and Future. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 299-305.	1.4	52
67	Effect of Acute Intermittent CPAP Depressurization during Sleep in Obese Patients. PLoS ONE, 2016, 11, e0146606.	1.1	5
68	Metabolic dysfunction in obstructive sleep apnea: A critical examination of underlying mechanisms. Sleep and Biological Rhythms, 2015, 13, 2-17.	0.5	55
69	Lysyl Oxidase as a Serum Biomarker of Liver Fibrosis in Patients with Severe Obesity and Obstructive Sleep Apnea. Sleep, 2015, 38, 1583-1591.	0.6	58
70	Translational approaches to understanding metabolic dysfunction and cardiovascular consequences of obstructive sleep apnea. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1101-H1111.	1.5	90
71	Inflammation in sleep apnea: An update. Reviews in Endocrine and Metabolic Disorders, 2015, 16, 25-34.	2.6	153
72	Are we waking up to the effects of NEFA?. Diabetologia, 2015, 58, 651-653.	2.9	5

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73	Intermittent Hypoxia Alters Gene Expression in Peripheral Blood Mononuclear Cells of Healthy Volunteers. PLoS ONE, 2015, 10, e0144725.	1.1	16
74	Intermittent hypoxia-induced glucose intolerance is abolished by Î±-adrenergic blockade or adrenal medullectomy. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E1073-E1083.	1.8	55
75	New frontiers in obstructive sleep apnoea. Clinical Science, 2014, 127, 209-216.	1.8	46
76	Carotid body denervation prevents fasting hyperglycemia during chronic intermittent hypoxia. Journal of Applied Physiology, 2014, 117, 765-776.	1.2	55
77	The effect of adrenal medullectomy on metabolic responses to chronic intermittent hypoxia. Respiratory Physiology and Neurobiology, 2014, 203, 60-67.	0.7	30
78	Leptin and the control of pharyngeal patency during sleep in severe obesity. Journal of Applied Physiology, 2014, 116, 1334-1341.	1.2	43
79	Metabolic monitoring by the carotid body (873.8). FASEB Journal, 2014, 28, 873.8.	0.2	1
80	Sleep Disorders and the Development of Insulin Resistance and Obesity. Endocrinology and Metabolism Clinics of North America, 2013, 42, 617-634.	1.2	73
81	Macrophage A2A Adenosinergic Receptor Modulates Oxygen-Induced Augmentation of Murine Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 635-646.	1.4	24
82	Chronic Intermittent Hypoxia Induces Atherosclerosis via Activation of Adipose Angiopoietin-like 4. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 240-248.	2.5	155
83	Obstructive Sleep Apnea. Journal of the American College of Cardiology, 2013, 62, 569-576.	1.2	586
84	Thermoneutrality modifies the impact of hypoxia on lipid metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E424-E435.	1.8	30
85	Effect of chronic intermittent hypoxia on triglyceride uptake in different tissues. Journal of Lipid Research, 2013, 54, 1058-1065.	2.0	56
86	Intermittent Hypoxia Impairs Glucose Homeostasis in C57BL6/J Mice: Partial Improvement with Cessation of the Exposure. Sleep, 2013, 36, 1483-1490.	0.6	103
87	Acute hypoxia induces hypertriglyceridemia by decreasing plasma triglyceride clearance in mice. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E377-E388.	1.8	73
88	Intermittent hypoxia inhibits clearance of triglyceride-rich lipoproteins and inactivates adipose lipoprotein lipase in a mouse model of sleep apnoea. European Heart Journal, 2012, 33, 783-790.	1.0	124
89	Obstructive Sleep Apnea and Non-Alcoholic Fatty Liver Disease: Is the Liver Another Target?. Frontiers in Neurology, 2012, 3, 149.	1.1	61
90	Effects of leptin and obesity on the upper airway function. Journal of Applied Physiology, 2012, 112, 1637-1643.	1.2	70

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91	Sleep and Sleep Loss: An Energy Paradox?. Sleep, 2012, 35, 1447-1448.	0.6	5
92	Metabolic Consequences of High-Fat Diet Are Attenuated by Suppression of HIF-1Î±. PLoS ONE, 2012, 7, e46562.	1.1	55
93	Intermittent Hypoxia Exacerbates Metabolic Effects of Dietâ€Induced Obesity. Obesity, 2011, 19, 2167-2174.	1.5	180
94	Effect of age and weight on upper airway function in a mouse model. Journal of Applied Physiology, 2011, 111, 696-703.	1.2	35
95	Effects of Sleep Apnea on Nocturnal Free Fatty Acids in Subjects with Heart Failure. Sleep, 2011, 34, 1207-1213.	0.6	61
96	Sleep Apnea Determines Soluble TNF-Î± Receptor 2 Response to Massive Weight Loss. Obesity Surgery, 2011, 21, 1413-1423.	1.1	23
97	Effects of different acute hypoxic regimens on tissue oxygen profiles and metabolic outcomes. Journal of Applied Physiology, 2011, 111, 881-890.	1.2	149
98	Lipid Metabolism: A New Frontier in Sleep Apnea Research. American Journal of Respiratory and Critical Care Medicine, 2011, 184, 288-290.	2.5	29
99	Obstructive Sleep Apnea. Chest, 2011, 140, 534-542.	0.4	264
100	Chronic intermittent hypoxia induces lung growth in adult mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L266-L273.	1.3	34
101	Restoring leptin signaling reduces hyperlipidemia and improves vascular stiffness induced by chronic intermittent hypoxia. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1467-H1476.	1.5	34
102	Obstructive Sleep Apnea and Metabolic Dysfunction. , 2011, , 1331-1338.		1
103	Obstructive sleep apnea and dyslipidemia: implications for atherosclerosis. Current Opinion in Endocrinology, Diabetes and Obesity, 2010, 17, 161-165.	1.2	116
104	The Impact of Obstructive Sleep Apnea on Metabolic and Inflammatory Markers in Consecutive Patients with Metabolic Syndrome. PLoS ONE, 2010, 5, e12065.	1.1	216
105	Intermittent and sustained hypoxia induce a similar gene expression profile in human aortic endothelial cells. Physiological Genomics, 2010, 41, 306-314.	1.0	57
106	Metabolic consequences of intermittent hypoxia: Relevance to obstructive sleep apnea. Best Practice and Research in Clinical Endocrinology and Metabolism, 2010, 24, 843-851.	2.2	179
107	Effect of intermittent hypoxia on atherosclerosis in apolipoprotein E-deficient mice. Atherosclerosis, 2010, 209, 381-386.	0.4	146
108	Cardiovascular Aspects in Obstructive Sleep Apnea Syndrome â€“ Molecular Issues, Hypoxia and Cytokine Profiles. Respiration, 2009, 78, 361-370.	1.2	68

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109	Obstructive Sleep Apnea, Insulin Resistance, and Steatohepatitis in Severe Obesity. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 228-234.	2.5	184
110	Metabolic Consequences of Sleep-Disordered Breathing. ILAR Journal, 2009, 50, 289-306.	1.8	88
111	Chronic intermittent hypoxia and acetaminophen induce synergistic liver injury in mice. Experimental Physiology, 2009, 94, 228-239.	0.9	40
112	Behavioral and respiratory characteristics during sleep in neonatal DBA/2J and A/J mice. Brain Research, 2008, 1241, 84-91.	1.1	13
113	Obesity and Obstructive Sleep Apnea: Pathogenic Mechanisms and Therapeutic Approaches. Proceedings of the American Thoracic Society, 2008, 5, 185-192.	3.5	524
114	Intermittent hypoxia has organ-specific effects on oxidative stress. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1274-R1281.	0.9	105
115	Dyslipidemia and Atherosclerosis Induced by Chronic Intermittent Hypoxia Are Attenuated by Deficiency of Stearoyl Coenzyme A Desaturase. Circulation Research, 2008, 103, 1173-1180.	2.0	132
116	Management of Obesity and Childhood Obstructive Sleep Apnea: The Dangerous Combination. Obesity Management, 2008, 4, 338-343.	0.2	1
117	Disruption of Nrf2, a Key Inducer of Antioxidant Defenses, Attenuates ApoE-Mediated Atherosclerosis in Mice. PLoS ONE, 2008, 3, e3791.	1.1	156
118	Neuromechanical control of the isolated upper airway of mice. Journal of Applied Physiology, 2008, 105, 1237-1245.	1.2	21
119	Hyperlipidemia and lipid peroxidation are dependent on the severity of chronic intermittent hypoxia. Journal of Applied Physiology, 2007, 102, 557-563.	1.2	215
120	Chronic Intermittent Hypoxia Induces Atherosclerosis. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 1290-1297.	2.5	347
121	Intermittent Hypoxia Causes Insulin Resistance in Lean Mice Independent of Autonomic Activity. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 851-857.	2.5	315
122	Effect of deficiency in SREBP cleavage-activating protein on lipid metabolism during intermittent hypoxia. Physiological Genomics, 2007, 31, 273-280.	1.0	65
123	Chronic intermittent hypoxia causes hepatitis in a mouse model of diet-induced fatty liver. American Journal of Physiology - Renal Physiology, 2007, 293, G871-G877.	1.6	173
124	Sleep-Disordered Breathing and Metabolic Effects: Evidence from Animal Models. Sleep Medicine Clinics, 2007, 2, 263-277.	1.2	34
125	Mouse model of the metabolic syndrome: the quest continues. Journal of Applied Physiology, 2007, 102, 2088-2089.	1.2	8
126	Chronic intermittent hypoxia predisposes to liver injury. Hepatology, 2007, 45, 1007-1013.	3.6	242

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127	Intermittent hypoxia causes REM sleep deficits and decreases EEG delta power in NREM sleep in the C57BL/6J mouse. Sleep Medicine, 2006, 7, 7-16.	0.8	104
128	Altered metabolic responses to intermittent hypoxia in mice with partial deficiency of hypoxia-inducible factor-1Î±. Physiological Genomics, 2006, 25, 450-457.	1.0	153
129	Chronic intermittent hypoxia upregulates genes of lipid biosynthesis in obese mice. Journal of Applied Physiology, 2005, 99, 1643-1648.	1.2	174
130	Intermittent Hypoxia Induces Hyperlipidemia in Lean Mice. Circulation Research, 2005, 97, 698-706.	2.0	274
131	Disorders of glucose metabolism in sleep apnea. Journal of Applied Physiology, 2005, 99, 1998-2007.	1.2	329
132	Impact of interrupted leptin pathways on ventilatory control. Journal of Applied Physiology, 2004, 96, 991-998.	1.2	69
133	Intermittent Hypoxia Increases Insulin Resistance in Genetically Obese Mice. Journal of Physiology, 2003, 552, 253-264.	1.3	331
134	Sleep-disordered breathing, glucose intolerance, and insulin resistance. Respiratory Physiology and Neurobiology, 2003, 136, 167-178.	0.7	191
135	Differences in Sleep-induced Hypoxia between A/J and DBA/2J Mouse Strains. American Journal of Respiratory and Critical Care Medicine, 2003, 168, 1520-1527.	2.5	35
136	Basis for substrate specificity of the Toxoplasma gondii nucleoside triphosphate hydrolase. Molecular and Biochemical Parasitology, 1998, 97, 209-220.	0.5	54
137	Interaction of Human Mannoseâ€Binding Protein withMycobacterium avium. Journal of Infectious Diseases, 1997, 175, 1159-1168.	1.9	86
138	Immunogenicity of Two Types of Shigella flexneri 2a O-Specific Polysaccharide-Tetanus Toxoid Conjugates. Annals of the New York Academy of Sciences, 1994, 730, 359-360.	1.8	3