Oleg A Barski

List of Publications by Year
in descending order

35 papers	1,645 citations	304701 22 h-index	414395 32 g-index
35 all docs	35 docs citations	35 times ranked	2141 citing authors

#	Article	IF	Citations
1	The Aldo-Keto Reductase Superfamily and its Role in Drug Metabolism and Detoxification. Drug Metabolism Reviews, 2008, 40, 553-624.	3.6	419
2	Mechanism of Human Aldehyde Reductase: Characterization of the Active Site Pocket. Biochemistry, 1995, 34, 11264-11275.	2.5	127
3	Dietary Carnosine Prevents Early Atherosclerotic Lesion Formation in Apolipoprotein Eâ€“Null Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1162-1170.	2.4	87
4	Substrate specificity and catalytic efficiency of aldo-keto reductases with phospholipid aldehydes. Biochemical Journal, 2007, 405, 95-105.	3.7	86
5	Regulation of Ion Channels by Pyridine Nucleotides. Circulation Research, 2013, 112, 721-741.	4.5	77
6	Acrolein consumption induces systemic dyslipidemia and lipoprotein modification. Toxicology and Applied Pharmacology, 2010, 243, 1-12.	2.8	74
7	The C-Terminal Loop of Aldehyde Reductase Determines the Substrate and Inhibitor Specificityâ€. Biochemistry, 1996, 35, 14276-14280.	2.5	68
8	Acrolein activates matrix metalloproteinases by increasing reactive oxygen species in macrophages. Toxicology and Applied Pharmacology, 2009, 236, 194-201.	2.8	68
9	Aldose Reductase Protects Against Early Atherosclerotic Lesion Formation in Apolipoprotein E-Null Mice. Circulation Research, 2009, 105, 793-802.	4.5	66
10	Conditionally Replicating Adenoviruses Expressing Short Hairpin RNAs Silence the Expression of a Target Gene in Cancer Cells. Cancer Research, 2004, 64, 2663-2667.	0.9	59
11	Postischemic Deactivation of Cardiac Aldose Reductase. Journal of Biological Chemistry, 2010, 285, 26135-26148.	3.4	50
12	Catalytic Mechanism and Substrate Specificity of the Î²-Subunit of the Voltage-Gated Potassium Channel. Biochemistry, 2008, 47, 8840-8854.	2.5	48
13	Detoxification of aldehydes by histidine-containing dipeptides: From chemistry to clinical implications. Chemico-Biological Interactions, 2013, 202, 288-297.	4.0	43
14	NADPH binding to Î²-subunit regulates inactivation of voltage-gated K+ channels. Biochemical and Biophysical Research Communications, 2007, 359, 269-276.	2.1	40
15	Interactions between the C-terminus of Kv1.5 and KvÎ² regulate pyridine nucleotide-dependent changes in channel gating. Pflugers Archiv European Journal of Physiology, 2012, 463, 799-818.	2.8	37
16	Characterization of the Human Aldehyde Reductase Gene and Promoter. Genomics, 1999, 60, 188-198.	2.9	34
17	Aldose reductase decreases endoplasmic reticulum stress in ischemic hearts. Chemico-Biological Interactions, 2009, 178, 242-249.	4.0	33
18	Regulation of aldehyde reductase expression by STAF and CHOP. Genomics, 2004, 83, 119-129.	2.9	30

#	Article	IF	Citations
19	Reductive metabolism increases the proinflammatory activity of aldehyde phospholipids. Journal of Lipid Research, 2011, 52, 2209-2225.	4.2	28
20	Developmental expression and function of aldehyde reductase in proximal tubules of the kidney. American Journal of Physiology - Renal Physiology, 2005, 289, F200-F207.	2.7	25
21	Functional expression of novel human and murine AKR1B genes. Chemico-Biological Interactions, 2011, 191, 177-184.	4.0	24
22	A lung type prostaglandin f synthase is expressed in bovine liver: cDNA sequence and expression in E. coli. Biochemical and Biophysical Research Communications, 1992, 183, 1238-1246.	2.1	22
23	Aldo-keto Reductase 1B15 (AKR1B15). Journal of Biological Chemistry, 2015, 290, 6531-6545.	3.4	20
24	Substrate Specificity, Inhibitor Selectivity and Structure-Function Relationships of Aldo-Keto Reductase 1B15: A Novel Human Retinaldehyde Reductase. PLoS ONE, 2015, 10, e0134506.	2.5	17
25	Catalytic reduction of carbonyl groups in oxidized PAPC by KvÎ²2 (AKR6). Chemico-Biological Interactions, 2011, 191, 255-260.	4.0	14
26	Alternative splicing in the aldoâ€“keto reductase superfamily: Implications for protein nomenclature. Chemico-Biological Interactions, 2013, 202, 153-158.	4.0	11
27	Characterization of a Novel Murine Aldo-Keto Reductase. Advances in Experimental Medicine and Biology, 1996, 414, 455-464.	1.6	10
28	Kinetics of nucleotide binding to the Î²-subunit (AKR6A2) of the voltage-gated potassium (Kv) channel. Chemico-Biological Interactions, 2009, 178, 165-170.	4.0	9
29	Metabolism of trans, trans-muconaldehyde, a cytotoxic metabolite of benzene, in mouse liver by alcohol dehydrogenase Adh1 and aldehyde reductase AKR1A4. Toxicology and Applied Pharmacology, 2006, 210, 163-170.	2.8	8
30	Aldehyde Reductase. Advances in Experimental Medicine and Biology, 1996, , 443-451.	1.6	5
31	Characterization of AKR1B16, a novel mouse aldo-keto reductase. Chemico-Biological Interactions, 2017, 276, 182-193.	4.0	4
32	Human aldehyde reductase promoter allows simultaneous expression of two genes in opposite directions. BioTechniques, 2004, 36, 382-388.	1.8	2
33	Pyridine Nucleotide Dependence of Kv Beta - Induced Kv Inactivation: Role of Kv Alpha C-Terminus. Biophysical Journal, 2010, 98, 523a.	0.5	0
34	The lipid peroxidation product 4â€hydroxyâ€transâ€2â€nonenal (HNE) promotes unique ER stress responses. FASEB Journal, 2007, 21, A978.	0.5	0
35	Reductive Metabolism of Phospholipid Aldehydes in Macrophages Enhance their Proâ€inflammatory Potential. FASEB Journal, 2008, 22, 1037.5.	0.5	0