

Sergey V Novoselov

List of Publications by Year in descending order

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28
papers

6,689
citations

236925

25
h-index

552781

26
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28
all docs

28
docs citations

28
times ranked

7507
citing authors

#	ARTICLE	IF	CITATIONS
1	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.	12.6	2,354
2	Characterization of Mammalian Selenoproteomes. <i>Science</i> , 2003, 300, 1439-1443.	12.6	2,019
3	Selenoproteins and selenocysteine insertion system in the model plant cell system, <i>Chlamydomonas reinhardtii</i> . <i>EMBO Journal</i> , 2002, 21, 3681-3693.	7.8	257
4	Identification and Characterization of a New Mammalian Glutaredoxin (Thioltransferase), Grx2. <i>Journal of Biological Chemistry</i> , 2001, 276, 30374-30380.	3.4	201
5	SelT, SelW, SelH, and Rdx12: Genomics and Molecular Insights into the Functions of Selenoproteins of a Novel Thioredoxin-like Family. <i>Biochemistry</i> , 2007, 46, 6871-6882.	2.5	187
6	Mammalian Selenoprotein Thioredoxin-glutathione Reductase. <i>Journal of Biological Chemistry</i> , 2005, 280, 26491-26498.	3.4	170
7	Specific Excision of the Selenocysteine tRNA ^{[Ser]Sec} (Trsp) Gene in Mouse Liver Demonstrates an Essential Role of Selenoproteins in Liver Function. <i>Journal of Biological Chemistry</i> , 2004, 279, 8011-8017.	3.4	157
8	Mammalian Selenoprotein in Which Selenocysteine (Sec) Incorporation Is Supported by a New Form of Sec Insertion Sequence Element. <i>Molecular and Cellular Biology</i> , 2002, 22, 1402-1411.	2.3	142
9	MsrB1 (Methionine-R-sulfoxide Reductase 1) Knock-out Mice. <i>Journal of Biological Chemistry</i> , 2009, 284, 5986-5993.	3.4	110
10	Selenoprotein deficiency and high levels of selenium compounds can effectively inhibit hepatocarcinogenesis in transgenic mice. <i>Oncogene</i> , 2005, 24, 8003-8011.	5.9	104
11	Selenoprotein H Is a Nucleolar Thioredoxin-like Protein with a Unique Expression Pattern. <i>Journal of Biological Chemistry</i> , 2007, 282, 11960-11968.	3.4	104
12	Reconsidering the evolution of eukaryotic selenoproteins: a novel nonmammalian family with scattered phylogenetic distribution. <i>EMBO Reports</i> , 2004, 5, 71-77.	4.5	99
13	Platyhelminth Mitochondrial and Cytosolic Redox Homeostasis Is Controlled by a Single Thioredoxin Glutathione Reductase and Dependent on Selenium and Glutathione. <i>Journal of Biological Chemistry</i> , 2008, 283, 17898-17907.	3.4	97
14	Diversity and functional plasticity of eukaryotic selenoproteins: Identification and characterization of the SelJ family. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16188-16193.	7.1	94
15	Identification and characterization of a selenoprotein family containing a diselenide bond in a redox motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13919-13924.	7.1	93
16	Reaction Mechanism and Regulation of Mammalian Thioredoxin/Glutathione Reductase. <i>Biochemistry</i> , 2005, 44, 14528-14537.	2.5	73
17	The Plasmodium selenoproteome. <i>Nucleic Acids Research</i> , 2006, 34, 496-505.	14.5	68
18	A highly efficient form of the selenocysteine insertion sequence element in protozoan parasites and its use in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7857-7862.	7.1	65

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19	Regulation of Selenoproteins and Methionine Sulfoxide Reductases A and B1 by Age, Calorie Restriction, and Dietary Selenium in Mice. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 829-838.	5.4	59
20	Non-animal origin of animal thioredoxin reductases: Implications for selenocysteine evolution and evolution of protein function through carboxy-terminal extensions. <i>Protein Science</i> , 2003, 12, 372-378.	7.6	44
21	A novel 45 kDa secretory protein from rat olfactory epithelium: primary structure and localisation. <i>FEBS Letters</i> , 1999, 450, 126-130.	2.8	37
22	A functional link between housekeeping selenoproteins and phase II enzymes. <i>Biochemical Journal</i> , 2008, 413, 151-161.	3.7	37
23	Identification and characterization of Fep15, a new selenocysteine-containing member of the Sep15 protein family. <i>Biochemical Journal</i> , 2006, 394, 575-579.	3.7	36
24	<i>Chlamydomonas reinhardtii</i> selenocysteine tRNA[Ser]Sec. <i>Rna</i> , 2003, 9, 923-930.	3.5	33
25	Selenoprotein expression is essential in endothelial cell development and cardiac muscle function. <i>Neuromuscular Disorders</i> , 2007, 17, 135-142.	0.6	33
26	A novel stem loop control elementâ€dependent UGA readâ€through system without translational selenocysteine incorporation in <i>Drosophila</i> . <i>FASEB Journal</i> , 2009, 23, 107-113.	0.5	15
27	Mouse models for assessing the role of selenoproteins in health and development. , 2006, , 333-341.		1
28	A comparative analysis of selenoproteins and global gene expression in liver selenocysteine tRNA knockout mice and its rescued variants. <i>FASEB Journal</i> , 2006, 20, A427.	0.5	0