

# Alexander Y Kots

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4922928/publications.pdf>

Version: 2024-02-01

31  
papers

898  
citations

471509

17  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1221  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Role of nitric oxide signaling components in differentiation of embryonic stem cells into myocardial cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18924-18929.               | 7.1  | 96        |
| 2  | Nitroprusside stimulates the cysteine-specific mono(ADP-ribosylation) of glyceraldehyde-3-phosphate dehydrogenase from human erythrocytes. FEBS Letters, 1992, 300, 9-12.  | 2.8  | 91        |
| 3  | A Short History of cGMP, Guanylyl Cyclases, and cGMP-Dependent Protein Kinases. Handbook of Experimental Pharmacology, 2009, , 1-14.   | 1.8  | 72        |
| 4  | A constitutively activated mutant of human soluble guanylyl cyclase (sGC): Implication for the mechanism of sGC activation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9208-9213. | 7.1  | 63        |
| 5  | Role of soluble guanylyl cyclaseâ€“cyclic GMP signaling in tumor cell proliferation. Nitric Oxide - Biology and Chemistry, 2010, 22, 43-50.  | 2.7  | 57        |
| 6  | Pyridopyrimidine derivatives as inhibitors of cyclic nucleotide synthesis: Application for treatment of diarrhea. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8440-8445.           | 7.1  | 54        |
| 7  | NOSâ€“ signaling and cancer therapy. IUBMB Life, 2012, 64, 676-683.  | 3.4  | 51        |
| 8  | Differential expression of genes involved in cGMP-dependent nitric oxide signaling in murine embryonic stem (ES) cells and ES cell-derived cardiomyocytes. Nitric Oxide - Biology and Chemistry, 2006, 14, 1-11.                   | 2.7  | 48        |
| 9  | Vasorelaxant and antiplatelet activity of 4,7-dimethyl-1,2,5-oxadiazolo[3,4-d ]pyridazine 1,5,6-trioxide: role of soluble guanylate cyclase, nitric oxide and thiols. British Journal of Pharmacology, 2000, 129, 1163-1177.       | 5.4  | 42        |
| 10 | Novel pyridopyrimidine derivatives as inhibitors of stable toxin a (STa) induced cGMP synthesis. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 3067-3071.  | 2.2  | 40        |
| 11 | Differentiation of Human Induced Pluripotent or Embryonic Stem Cells Decreases the DNA Damage Repair by Homologous Recombination. Stem Cell Reports, 2017, 9, 1660-1674.   | 4.8  | 33        |
| 12 | Restoring Soluble Guanylyl Cyclase Expression and Function Blocks the Aggressive Course of Glioma. Molecular Pharmacology, 2011, 80, 1076-1084.  | 2.3  | 29        |
| 13 | Curcumin induces differentiation of embryonic stem cells through possible modulation of nitric oxide-cyclic GMP pathway. Protein and Cell, 2012, 3, 535-544.   | 11.0 | 28        |
| 14 | Nitric Oxide and Cyclic GMP Signaling Pathway as a Focus for Drug Development. Current Medicinal Chemistry, 2011, 18, 3299-3305.   | 2.4  | 24        |
| 15 | Biphasic Regulation of Myosin Light Chain Phosphorylation by p21-activated Kinase Modulates Intestinal Smooth Muscle Contractility. Journal of Biological Chemistry, 2013, 288, 1200-1213.   | 3.4  | 19        |
| 16 | Serum nitrite and nitrate levels, NO<i>x</i>, can predict cardiovascular mortality in the elderly in a 3â€“year followâ€“up study. BioFactors, 2017, 43, 82-89.  | 5.4  | 19        |
| 17 | Increase in perfused boundary region of endothelial glycocalyx is associated with higher prevalence of ischemic heart disease and lesions of microcirculation and vascular wall. Microcirculation, 2018, 25, e12454.               | 1.8  | 19        |
| 18 | Nitric Oxide Receptor Soluble Guanylyl Cyclase Undergoes Splicing Regulation in Differentiating Human Embryonic Cells. Stem Cells and Development, 2011, 20, 1287-1293.  | 2.1  | 14        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Associations of SNPs of the ADIPOQ Gene with Serum Adiponectin Levels, Unstable Angina, and Coronary Artery Disease. <i>Biomolecules</i> , 2019, 9, 537.  | 4.0 | 14        |
| 20 | Ratios of leptin to insulin and adiponectin to endothelin are sex-dependently associated with extent of coronary atherosclerosis. <i>Biomarkers</i> , 2017, 22, 239-245.  | 1.9 | 13        |
| 21 | Glyceraldehyde-3-phosphate activates auto-ADP-ribosylation of glyceraldehyde-3-phosphate dehydrogenase. <i>FEBS Letters</i> , 1993, 324, 33-36.   | 2.8 | 12        |
| 22 | Serum nitrate and nitrite are associated with the prevalence of various chronic diseases except cancer. <i>International Angiology</i> , 2017, 36, 160-166.   | 0.9 | 12        |
| 23 | Epigenetic regulation of soluble guanylate cyclase (sGC) $\beta_1$ in breast cancer cells. <i>FASEB Journal</i> , 2016, 30, 3171-3180.  | 0.5 | 11        |
| 24 | Elevated levels of serum nitrite and nitrate, NO <sub>x</sub> , are associated with increased total and cardiovascular mortality in an 8-year follow-up study. <i>European Journal of Clinical Investigation</i> , 2018, 49, e13061.  | 3.4 | 10        |
| 25 | The GTP-binding regulatory proteins, G <sub>s</sub> and G <sub>i</sub> , are altered in erythrocyte membranes of patients with ischemic heart disease resulting from coronary atherosclerosis. <i>Arteriosclerosis and Thrombosis: A Journal of Vascular Biology</i> , 1993, 13, 1244-1251.   | 3.9 | 7         |
| 26 | Effects of the JNK inhibitor anthra[1,9-cd]pyrazol-6(2H)-one (SP-600125) on soluble guanylyl cyclase $\beta_1$ gene regulation and cGMP synthesis. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C778-C784.  | 4.6 | 7         |
| 27 | The Relaxant Activity of 4,7-Dimethyl-1,2,5-oxadiazolo[3,4-d]-pyridazine 1,5,6-Trioxide in the Mouse Corpus Cavernosum. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 316, 753-761.  | 2.5 | 6         |
| 28 | Associations of endothelial biomarkers, nitric oxide metabolites and endothelin, with blood pressure and coronary lesions depend on cardiovascular risk and sex to mark endothelial dysfunction on the SCORE scale. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2020, 41, . | 0.7 | 3         |
| 29 | Evaluating the Potential Role of Nitric Oxide as a Mediator of Hydrostatic Edema Mediated Intestinal Contractile Dysfunction. <i>Journal of Surgical Research</i> , 2010, 163, 102-109.   | 1.6 | 2         |
| 30 | Levels of nitric oxide metabolites, adiponectin and endothelin are associated with SNPs of the adiponectin and endothelin genes. <i>Biomedical Reports</i> , 2019, 11, 154-164.   | 2.0 | 2         |
| 31 | Regulation of soluble guanylate cyclase activity by direct interaction with heat shock protein Hsp90. <i>BMC Pharmacology</i> , 2005, 5, P44.   | 0.4 | 0         |