

# Alexei G Basnakian

## List of Publications by Year in descending order

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60  
papers

2,014  
citations

218677

26  
h-index

243625

44  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2396  
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating tumor cell identification by functionalized silver-gold nanorods with multicolor, super-enhanced SERS and photothermal resonances. <i>Scientific Reports</i> , 2014, 4, 4752.	3.3	172
2	Carbamylated low-density lipoprotein induces death of endothelial cells: A link to atherosclerosis in patients with kidney disease. <i>Kidney International</i> , 2005, 68, 173-178.	5.2	137
3	Apoptotic pathways in ischemic acute renal failure. <i>Kidney International</i> , 2004, 66, 500-506.	5.2	132
4	Cisplatin Nephrotoxicity Is Mediated by Deoxyribonuclease I. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 697-702.	6.1	111
5	Carbamylated Low-Density Lipoprotein Induces Monocyte Adhesion to Endothelial Cells Through Intercellular Adhesion Molecule-1 and Vascular Cell Adhesion Molecule-1. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 826-832.	2.4	80
6	In Vivo Magnetic Enrichment, Photoacoustic Diagnosis, and Photothermal Purging of Infected Blood Using Multifunctional Gold and Magnetic Nanoparticles. <i>PLoS ONE</i> , 2012, 7, e45557.	2.5	78
7	Scavenger Receptors of Endothelial Cells Mediate the Uptake and Cellular Proatherogenic Effects of Carbamylated LDL. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1622-1630.	2.4	76
8	The beneficial effects of AMP kinase activation against oxidative stress are associated with prevention of PPAR $\alpha$ -cyclophilin D interaction in cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H749-H758.	3.2	72
9	Apoptotic Pathways of Oxidative Damage to Renal Tubular Epithelial Cells. <i>Antioxidants and Redox Signaling</i> , 2002, 4, 915-924.	5.4	65
10	Quantification of Carbamylated LDL in Human Sera by a New Sandwich ELISA. <i>Clinical Chemistry</i> , 2005, 51, 719-728.	3.2	61
11	Deoxyribonuclease 1 aggravates acetaminophen-induced liver necrosis in male CD-1 mice. <i>Hepatology</i> , 2006, 43, 297-305.	7.3	60
12	Ceramide synthase is essential for endonuclease-mediated death of renal tubular epithelial cells induced by hypoxia-reoxygenation. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 288, F308-F314.	2.7	56
13	Carbamylated low-density lipoprotein induces proliferation and increases adhesion molecule expression of human coronary artery smooth muscle cells. <i>Nephrology</i> , 2008, 13, 480-486.	1.6	55
14	Quantification of 3'-OH DNA Breaks by Random Oligonucleotide-Primed Synthesis (ROPS) Assay. <i>DNA and Cell Biology</i> , 1996, 15, 255-262.	1.9	52
15	Regulation of Apoptotic Endonucleases by EndoG. <i>DNA and Cell Biology</i> , 2015, 34, 316-326.	1.9	52
16	Endonuclease G promotes cell death of non-invasive human breast cancer cells. <i>Experimental Cell Research</i> , 2006, 312, 4139-4149.	2.6	49
17	Induction of Renal Endonuclease G by Cisplatin Is Reduced in DNase I-Deficient Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 2544-2553.	6.1	48
18	DNase I-Like Endonuclease in Rat Kidney Cortex That Is Activated during Ischemia/Reperfusion Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2002, 13, 1000-1007.	6.1	47

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19	TUNEL Assay: A Powerful Tool for Kidney Injury Evaluation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 412.	4.1	43
20	Modified LDLs induce proliferation-mediated death of human vascular endothelial cells through MAPK pathway. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H1836-H1846.	3.2	41
21	Endonuclease G promotes autophagy by suppressing mTOR signaling and activating the DNA damage response. <i>Nature Communications</i> , 2021, 12, 476.	12.8	41
22	Role of Ceramide Synthase in Oxidant Injury to Renal Tubular Epithelial Cells. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 2384-2391.	6.1	31
23	Carbamylated Low-Density Lipoprotein: Nontraditional Risk Factor for Cardiovascular Events in Patients With Chronic Kidney Disease. , 2012, 22, 134-138.		30
24	Mechanism of graphene-induced cytotoxicity: Role of endonucleases. <i>Journal of Applied Toxicology</i> , 2017, 37, 1325-1332.	2.8	30
25	Carbamylated LDL. <i>Advances in Clinical Chemistry</i> , 2010, 51, 25-52.	3.7	29
26	Endonuclease G mediates endothelial cell death induced by carbamylated LDL. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1997-H2004.	3.2	29
27	Carbamylated-Oxidized LDL: Proatherosclerotic Effects on Endothelial Cells and Macrophages. <i>Journal of Atherosclerosis and Thrombosis</i> , 2013, 20, 878-892.	2.0	29
28	Sensitivity of human prostate cancer cells to chemotherapeutic drugs depends on EndoG expression regulated by promoter methylation. <i>Cancer Letters</i> , 2008, 270, 132-143.	7.2	28
29	Deoxyribonuclease I is Essential for DNA Fragmentation Induced by Gamma Radiation in Mice. <i>Radiation Research</i> , 2009, 172, 481-492.	1.5	25
30	Expression of sulfotransferase isoform 1A1 (SULT1A1) in breast cancer cells significantly increases 4-hydroxytamoxifen-induced apoptosis. <i>International Journal of Molecular Epidemiology and Genetics</i> , 2010, 1, 92-103.	0.4	25
31	Synthesis of Hydrazone Derivatives of 4-[4-Formyl-3-(2-oxochromen-3-yl)pyrazol-1-yl]benzoic acid as Potent Growth Inhibitors of Antibiotic-resistant <i>Staphylococcus aureus</i> and <i>Acinetobacter baumannii</i> . <i>Molecules</i> , 2019, 24, 2051.	3.8	22
32	Photoacoustic flow cytometry for nanomaterial research. <i>Photoacoustics</i> , 2017, 6, 16-25.	7.8	20
33	Uptake of Foreign Nucleic Acids in Kidney Tubular Epithelial Cells Deficient in Proapoptotic Endonucleases. <i>DNA and Cell Biology</i> , 2009, 28, 435-442.	1.9	17
34	2-amino-1-methyl-6-phenylimidazo(4,5-b) pyridine (PhIP) induces gene expression changes in JAK/STAT and MAPK pathways related to inflammation, diabetes and cancer. <i>Nutrition and Metabolism</i> , 2016, 13, 54.	3.0	17
35	Novel Cytoprotective Inhibitors for Apoptotic Endonuclease G. <i>DNA and Cell Biology</i> , 2015, 34, 92-100.	1.9	15
36	Identification and expression of deoxyribonuclease (DNase) I alternative transcripts in the rat. <i>Gene</i> , 2002, 289, 87-96.	2.2	14

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37	Effects of Gamma-Tocotrienol on Intestinal Injury in a GI-Specific Acute Radiation Syndrome Model in Nonhuman Primate. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4643.	4.1	14
38	Interaction of carbamylated LDL with LOX-1 in the induction of endothelial dysfunction and atherosclerosis: Figure 1. <i>European Heart Journal</i> , 2014, 35, 2996-2997.	2.2	13
39	Gamma-Tocotrienol Protects the Intestine from Radiation Potentially by Accelerating Mesenchymal Immune Cell Recovery. <i>Antioxidants</i> , 2019, 8, 57.	5.1	13
40	Netrin-1: a potential universal biomarker for acute kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F729-F730.	2.7	12
41	Recent Advances in Understanding the Pathogenesis of Atherosclerosis in CKD Patients. , 2015, 25, 205-208.		12
42	Synthesis of 4,4-((4-Formyl-1H-pyrazole-1,3-diyl)dibenzoic Acid Derivatives as Narrow Spectrum Antibiotics for the Potential Treatment of <i>Acinetobacter Baumannii</i> Infections. <i>Antibiotics</i> , 2020, 9, 650.	3.7	12
43	Protective effect of zinc-N-acetylcysteine on the rat kidney during cold storage. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F1022-F1030.	2.7	11
44	Novel High-Throughput Deoxyribonuclease 1 Assay. <i>Journal of Biomolecular Screening</i> , 2015, 20, 202-211.	2.6	7
45	Light-Powered Nanoconverters Cytotoxic to Breast Cancer Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7916-7924.	3.1	7
46	DNase I Induces Other Endonucleases in Kidney Tubular Epithelial Cells by Its DNA-Degrading Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8665.	4.1	7
47	Antimelanoma activities of chimeric thiazole-androstenone derivatives. <i>Royal Society Open Science</i> , 2021, 8, 210395.	2.4	7
48	Fractionated radiation suppresses Kruppel-like factor 2 pathway to a greater extent than by single exposure to the same total dose. <i>Scientific Reports</i> , 2020, 10, 7734.	3.3	4
49	Apoptotic DNase network: Mutual induction and cooperation among apoptotic endonucleases. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 6496-6499.	3.6	1
50	DNase activity in kidney cell pyknosis induced by serum deprivation. <i>FASEB Journal</i> , 2013, 27, 889.12.	0.5	1
51	Apoptotic/Recombinogenic Endonuclease G is Regulated by Promoter Methylation and Histone Acetylation.. <i>FASEB Journal</i> , 2008, 22, 987.2.	0.5	0
52	Radioprotection by inactivation of deoxyribonuclease I. <i>FASEB Journal</i> , 2009, 23, 618.1.	0.5	0
53	Carbamylated LDL: the missing link between uremia and atherosclerosis. <i>FASEB Journal</i> , 2010, 24, 116.5.	0.5	0
54	ICAM-1 is Key Molecule in Carbamylated LDL-Induced Monocyte Adhesion. <i>FASEB Journal</i> , 2010, 24, 589.17.	0.5	0

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55	Quantitative cytoplasmic TUNEL: the method to measure apoptosis and necrosis coexisting in a single liver or kidney cell. FASEB Journal, 2010, 24, 38.10.	0.5	0
56	Downregulation of DNase I expression by EndoG in kidney tubular epithelial cells. FASEB Journal, 2012, 26, lb568.	0.5	0
57	Sirtuin 1 enzyme activity and autophagy proteins are increased in the kidney during murine sepsis. FASEB Journal, 2012, 26, 1051.15.	0.5	0
58	Induction of kidney endonucleases by DNase I: evidence of endonuclease network. FASEB Journal, 2012, 26, 852.7.	0.5	0
59	Development of cell-based high-throughput screening assay for DNase I inhibitors or activators. FASEB Journal, 2013, 27, 663.15.	0.5	0
60	Alternatively-spliced DNase I acts as dominant-negative inhibiting cisplatin toxicity to kidney cells. FASEB Journal, 2013, 27, 889.4.	0.5	0