

Uh-Hyun Kim

List of Publications by Year in descending order

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107
papers

3,374
citations

117625

34
h-index

168389

53
g-index

112
all docs

112
docs citations

112
times ranked

4353
citing authors

#	ARTICLE	IF	CITATIONS
1	Doxorubicin-induced reactive oxygen species generation and intracellular Ca ²⁺ increase are reciprocally modulated in rat cardiomyocytes. <i>Experimental and Molecular Medicine</i> , 2006, 38, 535-545.	7.7	213
2	Two genetic variants of CD38 in subjects with autism spectrum disorder and controls. <i>Neuroscience Research</i> , 2010, 67, 181-191.	1.9	176
3	Ca ²⁺ Signaling Tools Acquired from Prostrasomes Are Required for Progesterone-Induced Sperm Motility. <i>Science Signaling</i> , 2011, 4, ra31.	3.6	146
4	Generation of Nicotinic Acid Adenine Dinucleotide Phosphate and Cyclic ADP-Ribose by Glucagon-Like Peptide-1 Evokes Ca ²⁺ Signal That Is Essential for Insulin Secretion in Mouse Pancreatic Islets. <i>Diabetes</i> , 2008, 57, 868-878.	0.6	123
5	Hyaluronan inhibits osteoclast differentiation via Toll-like receptor 4. <i>Journal of Cell Science</i> , 2007, 120, 166-176.	2.0	96
6	Localization of the Cyclic ADP-ribose-dependent Calcium Signaling Pathway in Hepatocyte Nucleus. <i>Journal of Biological Chemistry</i> , 2000, 275, 24807-24817.	3.4	90
7	Carbon monoxide protects against hepatic steatosis in mice by inducing sestrin-2 via the PERK-eIF2 γ -ATF4 pathway. <i>Free Radical Biology and Medicine</i> , 2017, 110, 81-91.	2.9	83
8	A novel fibroblast growth factor receptor-5 preferentially expressed in the pancreas. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001, 1518, 152-156.	2.4	73
9	Blockade of airway hyperresponsiveness and inflammation in a murine model of asthma by a prodrug of cysteine, L-oxothiazolidine-4-carboxylic acid. <i>FASEB Journal</i> , 2004, 18, 1917-1919.	0.5	71
10	Carbon monoxide-induced TFEB nuclear translocation enhances mitophagy/mitochondrial biogenesis in hepatocytes and ameliorates inflammatory liver injury. <i>Cell Death and Disease</i> , 2018, 9, 1060.	6.3	65
11	Purification and Characterization of NAD Glycohydrolase from Rabbit Erythrocytes. <i>Archives of Biochemistry and Biophysics</i> , 1993, 305, 147-152.	3.0	64
12	Hemolytic mechanism of cytolysin produced from. <i>Life Sciences</i> , 1993, 53, 571-577.	4.3	61
13	Generation of Cyclic ADP-ribose and Nicotinic Acid Adenine Dinucleotide Phosphate by CD38 for Ca ²⁺ Signaling in Interleukin-8-treated Lymphokine-activated Killer Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 21877-21887.	3.4	61
14	CD38-mediated Ca ²⁺ Signaling Contributes to Angiotensin II-induced Activation of Hepatic Stellate Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 576-582.	3.4	58
15	Exercise Ameliorates Insulin Resistance via Ca ²⁺ Signals Distinct From Those of Insulin for GLUT4 Translocation in Skeletal Muscles. <i>Diabetes</i> , 2015, 64, 1224-1234.	0.6	57
16	Activation of CD38 by Interleukin-8 Signaling Regulates Intracellular Ca ²⁺ Level and Motility of Lymphokine-activated Killer Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 2888-2895.	3.4	56
17	Interaction of Two Classes of ADP-ribose Transfer Reactions in Immune Signaling. <i>Journal of Biological Chemistry</i> , 2000, 275, 20799-20805.	3.4	53
18	Nitric Oxide Induces ADP-Ribosylation of Actin in Murine Macrophages: Association with the Inhibition of Pseudopodia Formation, Phagocytic Activity, and Adherence on a Laminin Substratum. <i>Cellular Immunology</i> , 1996, 174, 25-34.	3.0	52

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19	Cytokines Secreted by Lymphokine-Activated Killer Cells Induce Endogenous Nitric Oxide Synthesis and Apoptosis in DLD-1 Colon Cancer Cells. <i>Cellular Immunology</i> , 2000, 203, 84-94.	3.0	52
20	NAADP Mediates Insulin-Stimulated Glucose Uptake and Insulin Sensitization by PPAR δ in Adipocytes. <i>Cell Reports</i> , 2012, 2, 1607-1619.	6.4	51
21	Impaired learning and memory in CD38 null mutant mice. <i>Molecular Brain</i> , 2016, 9, 16.	2.6	48
22	Angiotensin-(1 α -7) stimulates high atrial pacing-induced ANP secretion via Mas/PI3-kinase/Akt axis and Na ⁺ /H ⁺ exchanger. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1365-H1374.	3.2	46
23	A novel signaling pathway of ADP-ribosyl cyclase activation by angiotensin II in adult rat cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H77-H88.	3.2	45
24	Connexin-43 Hemichannels Mediate Cyclic ADP-ribose Generation and Its Ca ²⁺ -mobilizing Activity by NAD ⁺ /Cyclic ADP-ribose Transport. <i>Journal of Biological Chemistry</i> , 2011, 286, 44480-44490.	3.4	44
25	Role of Ca ²⁺ in alloxan-induced pancreatic β -cell damage. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994, 1227, 87-91.	3.8	43
26	An immunohistochemical, enzymatic, and behavioral study of CD157/BST-1 as a neuroregulator. <i>BMC Neuroscience</i> , 2017, 18, 35.	1.9	43
27	The Role of CD38 in Fc γ 3 Receptor (Fc γ 3R)-mediated Phagocytosis in Murine Macrophages. <i>Journal of Biological Chemistry</i> , 2012, 287, 14502-14514.	3.4	42
28	α 1B-Adrenoceptor Signaling and Cell Motility. <i>Journal of Biological Chemistry</i> , 2004, 279, 36593-36600.	3.4	41
29	Critical Role for CD38-mediated Ca ²⁺ Signaling in Thrombin-induced Procoagulant Activity of Mouse Platelets and Hemostasis. <i>Journal of Biological Chemistry</i> , 2011, 286, 12952-12958.	3.4	41
30	Seminal CD38 is a pivotal regulator for fetomaternal tolerance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1559-1564.	7.1	41
31	Function of NAD glycohydrolase in ADP-ribose uptake from NAD by human erythrocytes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1993, 1178, 121-126.	4.1	39
32	FGF21 induced by carbon monoxide mediates metabolic homeostasis via the PERK/ATF4 pathway. <i>FASEB Journal</i> , 2018, 32, 2630-2643.	0.5	39
33	Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) and Cyclic ADP-Ribose (cADPR) Mediate Ca ²⁺ Signaling in Cardiac Hypertrophy Induced by β -Adrenergic Stimulation. <i>PLoS ONE</i> , 2016, 11, e0149125.	2.5	38
34	Antidiabetic Effect of a Prodrug of Cysteine,l-2-Oxothiazolidine-4-carboxylic Acid, through CD38 Dimerization and Internalization. <i>Journal of Biological Chemistry</i> , 2002, 277, 5315-5321.	3.4	34
35	Cooperative interaction between reactive oxygen species and Ca ²⁺ signals contributes to angiotensin II-induced hypertrophy in adult rat cardiomyocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H901-H909.	3.2	34
36	Epidermal growth factor and platelet-derived growth factor promote translocation of phospholipase C- β 3 from cytosol to membrane. <i>FEBS Letters</i> , 1990, 270, 33-36.	2.8	33

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37	ADP-ribosyl cyclase couples to cyclic AMP signaling in the cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2005, 330, 1290-1298.	2.1	33
38	NAADP-mediated Ca ²⁺ signaling promotes autophagy and protects against LPS-induced liver injury. <i>FASEB Journal</i> , 2017, 31, 3126-3137.	0.5	33
39	Membrane-associated NAD ⁺ glycohydrolase from rabbit erythrocytes is solubilized by phosphatidylinositol-specific phospholipase C. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1988, 965, 76-81.	2.4	32
40	Increase of intracellular Ca ²⁺ during ischemia/reperfusion injury of heart is mediated by cyclic ADP-ribose. <i>Biochemical and Biophysical Research Communications</i> , 2003, 307, 713-718.	2.1	32
41	ADP-ribose/TRPM2-mediated Ca ²⁺ signaling is essential for cytolytic degranulation and antitumor activity of natural killer cells. <i>Scientific Reports</i> , 2015, 5, 9482.	3.3	31
42	Significance of Ecto-Cyclase Activity of CD38 in Insulin Secretion of Mouse Pancreatic Islet Cells. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 781-786.	2.1	29
43	Inhibition of Voltage-sensitive Calcium Channels by the A _{2A} Adenosine Receptor in PC12 cells. <i>Journal of Neurochemistry</i> , 1998, 71, 1251-1260.	3.9	29
44	A Prodrug of Cysteine, l-2-Oxothiazolidine-4-carboxylic Acid, Regulates Vascular Permeability by Reducing Vascular Endothelial Growth Factor Expression in Asthma. <i>Molecular Pharmacology</i> , 2005, 68, 1281-1290.	2.3	28
45	Autocrine/Paracrine Function of Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) for Glucose Homeostasis in Pancreatic β -Cells and Adipocytes. <i>Journal of Biological Chemistry</i> , 2013, 288, 35548-35558.	3.4	28
46	GSK-3 β inhibition by curcumin mitigates amyloidogenesis via TFEB activation and anti-oxidative activity in human neuroblastoma cells. <i>Free Radical Research</i> , 2020, 54, 918-930.	3.3	28
47	Association of CD38 with Nonmuscle Myosin Heavy Chain IIA and Lck Is Essential for the Internalization and Activation of CD38. <i>Journal of Biological Chemistry</i> , 2007, 282, 5653-5660.	3.4	27
48	Inhibition of ADP-ribosyl cyclase attenuates angiotensin II-induced cardiac hypertrophy. <i>Cardiovascular Research</i> , 2009, 81, 582-591.	3.8	27
49	CD38-mediated Ca ²⁺ signaling contributes to glucagon-induced hepatic gluconeogenesis. <i>Scientific Reports</i> , 2015, 5, 10741.	3.3	27
50	Purification and characterization of adenosine diphosphate ribose pyrophosphatase from human erythrocytes. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 629-638.	2.8	26
51	Interleukin-8 drives CD38 to form NAADP from NAD ⁺ and NAAD in the endolysosomes to mobilize Ca ²⁺ and effect cell migration. <i>FASEB Journal</i> , 2020, 34, 12565-12576.	0.5	26
52	Molecular mechanism of ADP-ribosyl cyclase activation in angiotensin II signaling in murine mesangial cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F982-F989.	2.7	25
53	Cross-talk between CD38 and TTP Is Essential for Resolution of Inflammation during Microbial Sepsis. <i>Cell Reports</i> , 2020, 30, 1063-1076.e5.	6.4	25
54	Insulin receptor signaling for the proliferation of pancreatic β -cells: Involvement of Ca ²⁺ second messengers, IP ₃ , NAADP and cADPR. <i>Islets</i> , 2009, 1, 216-223.	1.8	23

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73	Carbon monoxide induces the assembly of stress granule through the integrated stress response. <i>Biochemical and Biophysical Research Communications</i> , 2019, 512, 289-294.	2.1	12
74	Low-density lipoprotein protects <i>Vibrio vulnificus</i> -induced lethality through blocking lipopolysaccharide action. <i>Experimental and Molecular Medicine</i> , 2007, 39, 673-678.	7.7	11
75	The Essential Role of Ca ²⁺ Signals in UVB-Induced IL-1 β Secretion in Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2019, 139, 1362-1372.	0.7	11
76	Trpm2 Ablation Accelerates Protein Aggregation by Impaired ADPR and Autophagic Clearance in the Brain. <i>Molecular Neurobiology</i> , 2019, 56, 3819-3832.	4.0	11
77	Seminal CD38 Enhances Human Sperm Capacitation through Its Interaction with CD31. <i>PLoS ONE</i> , 2015, 10, e0139110.	2.5	11
78	Glycosylphosphatidylinositol-anchored NAD glycohydrolase is released from peritoneal macrophages activated by interferon- γ and lipopolysaccharide. <i>Journal of Leukocyte Biology</i> , 1994, 56, 792-796.	3.3	10
79	Immunohistochemical localization of NAD glycohydrolase in human and rabbit tissues. <i>Histochemistry and Cell Biology</i> , 1995, 104, 185-189.	1.7	10
80	Nitric Oxide Inhibits Capping in HL-60 Cells. <i>Biochemical and Biophysical Research Communications</i> , 1997, 232, 827-831.	2.1	10
81	Expression System for Enhanced Green Fluorescence Protein Conjugated Recombinant Antibody Fragment. <i>Hybridoma</i> , 2004, 23, 279-286.	0.4	10
82	Hyperglycemia associated blood viscosity can be a nexus stimuli. <i>Clinical Hemorheology and Microcirculation</i> , 2019, 71, 103-112.	1.7	10
83	Connexin-43 Mediates Fc γ 3 Receptor-Induced Calcium Signaling by Acting as an NAD/Cyclic ADP-Ribose Transporter.. <i>Blood</i> , 2007, 110, 3853-3853.	1.4	10
84	Selectivity of phospholipase C isozymes in growth factor signaling. <i>FEBS Letters</i> , 1993, 334, 257-260.	2.8	8
85	Role of Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) in Keratinocyte Differentiation. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1692-1694.	0.7	8
86	Expression of Glycosylphosphatidylinositol-Anchored NAD Glycohydrolase in Differentiated HL60 Cells by Phorbol Ester. <i>Biochemical and Biophysical Research Communications</i> , 1995, 213, 730-736.	2.1	7
87	Receptor-Mediated Activation of Murine Peritoneal Macrophages by Antithrombin III Acts as a Costimulatory Signal for Nitric Oxide Synthesis. <i>Cellular Immunology</i> , 1998, 188, 33-40.	3.0	7
88	PERK activation by SB202190 ameliorates amyloidogenesis via the TFEB-induced autophagy-lysosomal pathway. <i>Aging</i> , 2022, 14, 1233-1252.	3.1	6
89	Roles of cADPR and NAADP in pancreatic beta cell signaling. <i>Cell Calcium</i> , 2022, 103, 102562.	2.4	6
90	Murine Responses to Immunization with Pertussis Toxin and Bovine Serum Albumin: I. Mortality Observed after Bovine Albumin Challenge is Due To an Anaphylactic Reaction. <i>Pediatric Research</i> , 1987, 22, 262-267.	2.3	5

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91	CO ameliorates cellular senescence and aging by modulating the miR-34a/Sirt1 pathway. Free Radical Research, 2020, 54, 848-858.	3.3	5
92	The Role of Glutamine in the Prevention of Ultraviolet-C-Induced Platelet Activation. Biochemistry Research International, 2020, 2020, 1-7.	3.3	5
93	Arginine Thiazolidine Carboxylate Stimulates Insulin Secretion through Production of Ca ²⁺ -Mobilizing Second Messengers NAADP and cADPR in Pancreatic Islets. PLoS ONE, 2015, 10, e0134962.	2.5	4
94	Protein tyrosine phosphatase 1B is a mediator of cyclic ADP ribose-induced Ca ²⁺ signaling in ventricular myocytes. Experimental and Molecular Medicine, 2017, 49, e341-e341.	7.7	4
95	A novel fluorometric assay for ADP-ribose pyrophosphatase activity. Journal of Proteomics, 2005, 63, 161-169.	2.4	3
96	Critical Role of CD38 for Generation of Ca ²⁺ Signaling Messengers in Angiotensin II-Stimulated Kupffer Cells. Messenger (Los Angeles, Calif: Print), 2012, 1, 77-85.	0.3	3
97	Physicochemical Properties of Heme Iron Products in the Korean Market. Journal of Medicinal Food, 2006, 9, 231-236.	1.5	2
98	Role of calcium/calmodulin signaling pathway in Vibrio vulnificus cytotoxin-induced hyperpermeability. Microbial Pathogenesis, 2009, 47, 47-51.	2.9	2
99	The critical role of uterine CD31 as a post-progesterone signal in early pregnancy. Reproduction, 2017, 154, 595-605.	2.6	2
100	Human anti-peptidoglycan-IgG-mediated opsonophagocytosis is controlled by calcium mobilization in phorbol myristate acetate-treated U937 cells. BMB Reports, 2015, 48, 36-41.	2.4	2
101	Increase of NAD glycohydrolase activity in uterine cervix cancers is caused by infiltration of lymphocytes. Cancer Letters, 1999, 146, 201-205.	7.2	1
102	The Preparation of Butyrylated NAD ⁺ -Type of Biological Molecules. Synthetic Communications, 2003, 33, 2803-2810.	2.1	1
103	HEME IRON POLYPEPTIDE POLYMER WITH HIGH IRON CONTENT AS AN IDEAL IRON SUPPLEMENT. Journal of Food Biochemistry, 2010, 34, no-no.	2.9	1
104	<i>A Special Issue on</i> Third and Fourth NAD (ASIAN 3) Meetings in 2014. Messenger (Los Angeles,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.3	1
105	Kidney ADP-Ribosyl Cyclase Inhibitors as a Therapeutic Tool for Diabetic Nephropathy. , 2012, , .		0
106	Critical Role for NAD Glycohydrolase in Regulation of Erythropoiesis by Hematopoietic Stem Cells through Control of Intracellular NAD Content. Journal of Biological Chemistry, 2014, 289, 16362-16373.	3.4	0
107	Seminal CD38: Ever-Expanding Breadth of Its Function in Reproductive Biology. Messenger (Los) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.3	0