# Cesare Usai

List of Publications by Year
in descending order



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|---|---|---|---|
| 104 papers | 4,433 citations | 87888 38 h-index | 118850 62 g-index |
| 106 all docs | 106 docs citations | 106 times ranked | 5536 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Abscisic acid is an endogenous cytokine in human granulocytes with cyclic ADP-ribose as second messenger. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5759-5764. | 7.1 | 183 |
| 2 | Fumarates modulate microglia activation through a novel HCAR2 signaling pathway and rescue synaptic dysregulation in inflamed CNS. Acta Neuropathologica, 2015, 130, 279-295. | 7.7 | 160 |
| 3 | Multi-photon excitation microscopy. BioMedical Engineering OnLine, 2006, 5, 36. | 2.7 | 132 |
| 4 | Extracellular NAD+Is an Agonist of the Human P2Y11Purinergic Receptor in Human Granulocytes. Journal of Biological Chemistry, 2006, 281, 31419-31429. | 3.4 | 129 |
| 5 | Abscisic Acid Is an Endogenous Stimulator of Insulin Release from Human Pancreatic Islets with Cyclic ADP Ribose as Second Messenger. Journal of Biological Chemistry, 2008, 283, 32188-32197. | 3.4 | 129 |
| 6 | Mesenchymal Stem Cells Shape Microglia Effector Functions Through the Release of CX3CL1. Stem Cells, 2012, 30, 2044-2053. | 3.2 | 127 |
| 7 | Cytokines induce tight junction disassembly in airway cells via an EGFR-dependent MAPK/ERK1/2-pathway. Laboratory Investigation, 2012, 92, 1140-1148. | 3.7 | 123 |
| 8 | The temperature-signaling cascade in sponges involves a heat-gated cation channel, abscisic acid, and cyclic ADP-ribose. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14859-14864. | 7.1 | 118 |
| 9 | The transmembrane glycoprotein CD38 is a catalytically active transporter responsible for generation and influx of the second messenger cyclic ADPâ€ribose across membranes. FASEB Journal, 1998, 12, 1507-1520. | 0.5 | 115 |
| 10 | Expression of CD38 Increases Intracellular Calcium Concentration and Reduces Doubling Time in HeLa and 3T3 Cells. Journal of Biological Chemistry, 1998, 273, 8017-8024. | 3.4 | 111 |
| 11 | LANCL2 Is Necessary for Abscisic Acid Binding and Signaling in Human Granulocytes and in Rat Insulinoma Cells. Journal of Biological Chemistry, 2009, 284, 28045-28057. | 3.4 | 107 |
| 12 | Paracrine Roles of NAD+ and Cyclic ADP-ribose in Increasing Intracellular Calcium and Enhancing Cell Proliferation of 3T3 Fibroblasts. Journal of Biological Chemistry, 2001, 276, 21642-21648. | 3.4 | 103 |
| 13 | Ligandâ€induced internalization of CD38 results in intracellular Ca<sup>2+</sup>mobilization: role of NAD<sup>+</sup>transport across cell membranes. FASEB Journal, 1999, 13, 273-283. | 0.5 | 100 |
| 14 | A Self-restricted CD38-connexin 43 Cross-talk Affects NAD+ and Cyclic ADP-ribose Metabolism and Regulates Intracellular Calcium in 3T3 Fibroblasts. Journal of Biological Chemistry, 2001, 276, 48300-48308. | 3.4 | 99 |
| 15 | Glia re-sealed particles freshly prepared from adult rat brain are competent for exocytotic release of glutamate. Journal of Neurochemistry, 2006, 96, 656-668. | 3.9 | 99 |
| 16 | Electro-magnetic field promotes osteogenic differentiation of BM-hMSCs through a selective action on Ca2+-related mechanisms. Scientific Reports, 2015, 5, 13856. | 3.3 | 98 |
| 17 | Bronchial Airway Epithelial Cell Damage Following Exposure to Cigarette Smoke Includes Disassembly of Tight Junction Components Mediated by the Extracellular Signal-Regulated Kinase 1/2 Pathway. Chest, 2009, 135, 1502-1512. | 0.8 | 88 |
| 18 | Association of increased CCL5 and CXCL7 chemokine expression with neutrophil activation in severe stable COPD. Thorax, 2009, 64, 968-975. | 5.6 | 79 |

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|---|---|---|---|
| 19 | Abscisic Acid Released by Human Monocytes Activates Monocytes and Vascular Smooth Muscle Cell Responses Involved in Atherogenesis. Journal of Biological Chemistry, 2009, 284, 17808-17818. | 3.4 | 74 |
| 20 | Extracellular cyclic ADPâ€ribose increases intracellular free calcium concentration and stimulates proliferation of human hemopoietic progenitors. FASEB Journal, 2000, 14, 680-690. | 0.5 | 72 |
| 21 | Role of miRNAs shuttled by mesenchymal stem cell-derived small extracellular vesicles in modulating neuroinflammation. Scientific Reports, 2021, 11, 1740. | 3.3 | 69 |
| 22 | Extracellular NAD+ regulates intracellular calcium levels and induces activation of human granulocytes. Biochemical Journal, 2006, 393, 697-704. | 3.7 | 67 |
| 23 | Abscisic Acid Activates the Murine Microglial Cell Line N9 through the Second Messenger Cyclic ADP-ribose. Journal of Biological Chemistry, 2009, 284, 14777-14787. | 3.4 | 64 |
| 24 | Abnormal exocytotic release of glutamate in a mouse model of amyotrophic lateral sclerosis. Journal of Neurochemistry, 2011, 116, 1028-1042. | 3.9 | 63 |
| 25 | P2X7-mediated Increased Intracellular Calcium Causes Functional Derangement in Schwann Cells from Rats with CMT1A Neuropathy. Journal of Biological Chemistry, 2009, 284, 23146-23158. | 3.4 | 60 |
| 26 | Cyclic ADP-Ribose-Mediated Expansion and Stimulation of Human Mesenchymal Stem Cells by the Plant Hormone Abscisic Acid. Stem Cells, 2008, 26, 2855-2864. | 3.2 | 59 |
| 27 | Photobleaching. , 2006, , 690-702. | | 57 |
| 28 | Pathways of Cadmium Influx in Mammalian Neurons. Journal of Neurochemistry, 2008, 72, 2154-2161. | 3.9 | 57 |
| 29 | Cyclic ADP-ribose is a second messenger in the lipopolysaccharide-stimulated proliferation of human peripheral blood mononuclear cells. Biochemical Journal, 2003, 375, 395-403. | 3.7 | 56 |
| 30 | NAADP+ is an agonist of the human P2Y11 purinergic receptor. Cell Calcium, 2008, 43, 344-355. | 2.4 | 55 |
| 31 | Ectocellular in vitro and in vivo metabolism of cADP-ribose in cerebellum. Biochemical Journal, 1996, 320, 665-671. | 3.7 | 53 |
| 32 | Functional expression of release-regulating glycine transporters GLYT1 on GABAergic neurons and GLYT2 on astrocytes in mouse spinal cord. Neurochemistry International, 2008, 52, 103-112. | 3.8 | 51 |
| 33 | Presynaptic mGlu7 receptors control GABA release in mouse hippocampus. Neuropharmacology, 2013, 66, 215-224. | 4.1 | 51 |
| 34 | Regulation of Human Mesenchymal Stem Cell Functions by an Autocrine Loop Involving NAD<sup>+</sup>Release and P2Y11-Mediated Signaling. Stem Cells and Development, 2011, 20, 1183-1198. | 2.1 | 50 |
| 35 | Presynaptic mGlu1 and mGlu5 autoreceptors facilitate glutamate exocytosis from mouse cortical nerve endings. Neuropharmacology, 2008, 55, 474-482. | 4.1 | 49 |
| 36 | ABA- and cADPR-mediated effects on respiration and filtration downstream of the temperature-signaling cascade in sponges. Journal of Cell Science, 2003, 116, 629-636. | 2.0 | 48 |

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| 37 | Concentrative Uptake of Cyclic ADP-ribose Generated by BST-1+ Stroma Stimulates Proliferation of Human Hematopoietic Progenitors. Journal of Biological Chemistry, 2005, 280, 5343-5349. | 3.4 | 43 |
| 38 | In vitro activation of GAT1 transporters expressed in spinal cord gliosomes stimulates glutamate release that is abnormally elevated in the SOD1/G93A(+) mouse model of amyotrophic lateral sclerosis. Journal of Neurochemistry, 2010, 113, 489-501. | 3.9 | 42 |
| 39 | Group I metabotropic glutamate autoreceptors induce abnormal glutamate exocytosis in a mouse model of amyotrophic lateral sclerosis. Neuropharmacology, 2013, 66, 253-263. | 4.1 | 39 |
| 40 | Evaluation of energy metabolism and calcium homeostasis in cells affected by Shwachman-Diamond syndrome. Scientific Reports, 2016, 6, 25441. | 3.3 | 39 |
| 41 | The Plant Hormone Abscisic Acid Stimulates the Proliferation of Human Hemopoietic Progenitors through the Second Messenger Cyclic ADP-Ribose. Stem Cells, 2009, 27, 2469-2477. | 3.2 | 38 |
| 42 | G-protein coupling and nuclear translocation of the human abscisic acid receptor LANCL2. Scientific Reports, 2016, 6, 26658. | 3.3 | 38 |
| 43 | Stromaâ€generated cyclic ADPâ€ribose stimulates the expansion of early human hemopoietic progenitors by a paracrine interaction. FASEB Journal, 2001, 15, 1610-1612. | 0.5 | 37 |
| 44 | Autocrine abscisic acid plays a key role in quartzâ€induced macrophage activation. FASEB Journal, 2012, 26, 1261-1271. | 0.5 | 37 |
| 45 | InÂvitro exposure to nicotine induces endocytosis of presynaptic AMPA receptors modulating dopamine release in rat nucleus accumbens nerve terminals. Neuropharmacology, 2012, 63, 916-926. | 4.1 | 37 |
| 46 | The General Anesthetic Propofol Inhibits Transmembrane Calcium Current in Chick Sensory Neurons. Anesthesia and Analgesia, 1994, 78, 955???960. | 2.2 | 36 |
| 47 | Cyclic ADP-ribose is a second messenger in the lipopolysaccharide-stimulated activation of murine N9 microglial cell line. Journal of Neurochemistry, 2006, 99, 165-176. | 3.9 | 36 |
| 48 | Extracellular cyclic ADP-ribose potentiates ACh-induced contraction in bovine tracheal smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L98-L106. | 2.9 | 35 |
| 49 | From The Cover: ADP-ribosyl cyclases generate two unusual adenine homodinucleotides with cytotoxic activity on mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14509-14514. | 7.1 | 35 |
| 50 | The enzymatic activities of CD38 enhance CLL growth and trafficking: implications for therapeutic targeting. Leukemia, 2015, 29, 356-368. | 7.2 | 33 |
| 51 | The effect of pulsed electromagnetic field exposure on osteoinduction of human mesenchymal stem cells cultured on nano-TiO2 surfaces. PLoS ONE, 2018, 13, e0199046. | 2.5 | 32 |
| 52 | Concentrative Influx of Functionally Active Cyclic ADP-ribose in Dimethyl Sulfoxide-differentiated HL-60 Cells. Journal of Biological Chemistry, 2004, 279, 22066-22075. | 3.4 | 31 |
| 53 | In-vivo effects of knocking-down metabotropic glutamate receptor 5 in the SOD1 mouse model of amyotrophic lateral sclerosis. Neuropharmacology, 2017, 123, 433-445. | 4.1 | 30 |
| 54 | Expression of vascular remodelling markers in relation to bradykinin receptors in asthma and COPD. Thorax, 2013, 68, 803-811. | 5.6 | 29 |

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| 55 | Swimming behavior regulation by GABAB receptors in Paramecium. Experimental Cell Research, 2003, 291, 398-405. | 2.6 | 28 |
| 56 | Altered glucose catabolism in the presynaptic and perisynaptic compartments of SOD1<sup>G93A</sup> mouse spinal cord and motor cortex indicates that mitochondria are the site of bioenergetic imbalance in ALS. Journal of Neurochemistry, 2019, 151, 336-350. | 3.9 | 24 |
| 57 | Properties of ionic transport through phospholipid-glycolipid artificial bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1982, 693, 165-172. | 2.6 | 23 |
| 58 | Exocytosis regulates trafficking of GABA and glycine heterotransporters in spinal cord glutamatergic synapses: a mechanism for the excessive heterotransporter-induced release of glutamate in experimental amyotrophic lateral sclerosis. Neurobiology of Disease, 2015, 74, 314-324. | 4.4 | 22 |
| 59 | 5-HT2A-mGlu2/3 receptor complex in rat spinal cord glutamatergic nerve endings: A 5-HT2A to mGlu2/3 signalling to amplify presynaptic mechanism of auto-control of glutamate exocytosis. Neuropharmacology, 2018, 133, 429-439. | 4.1 | 22 |
| 60 | Presynaptic, releaseâ€regulating mGlu<sub>2</sub>â€preferring and mGlu<sub>3</sub>â€preferring autoreceptors in CNS: pharmacological profiles and functional roles in demyelinating disease. British Journal of Pharmacology, 2016, 173, 1465-1477. | 5.4 | 21 |
| 61 | A role for GABAA receptors in the modulation of Paramecium swimming behavior. Neuroscience Letters, 2005, 386, 179-183. | 2.1 | 20 |
| 62 | Chapter 21 Glutamate Release from Astrocytic Gliosomes under Physiological and Pathological Conditions. International Review of Neurobiology, 2009, 85, 295-318. | 2.0 | 20 |
| 63 | The Role of the C-Terminus for Functional Heteromerization of the Plant Channel KDC1. Biophysical Journal, 2009, 96, 4063-4074. | 0.5 | 20 |
| 64 | Two systems of branching axons in monkey's retina. Journal of Comparative Neurology, 1991, 308, 149-161. | 1.6 | 19 |
| 65 | High affinity block by nimodipine of the internal calcium elevation in chronically depolarized rat cerebellar granule neurons. Neuroscience Letters, 1996, 207, 77-80. | 2.1 | 18 |
| 66 | Endocytosis of GABAB receptors modulates membrane excitability in the single-celled organism Paramecium. Journal of Cell Science, 2006, 119, 2056-2064. | 2.0 | 18 |
| 67 | The endocannabinoid system in rat gliosomes and its role in the modulation of glutamate release. Cellular and Molecular Life Sciences, 2011, 68, 833-845. | 5.4 | 17 |
| 68 | Immunoâ€pharmacological characterization of group II metabotropic glutamate receptors controlling glutamate exocytosis in mouse cortex and spinal cord. British Journal of Pharmacology, 2017, 174, 4785-4796. | 5.4 | 17 |
| 69 | Effect of gangliosides on phospholipid bilayers: A study with the lipophilic ions relaxation method. Journal of Membrane Biology, 1984, 82, 15-23. | 2.1 | 16 |
| 70 | Notes on theory and experimental conditions behind two-photon excitation microscopy. Microscopy Research and Technique, 2004, 63, 12-17. | 2.2 | 16 |
| 71 | The Highâ€Mobility Group Box 1 Cytokine Induces Transporterâ€Mediated Release of Glutamate from Glial Subcellular Particles (Gliosomes) Prepared from in Situâ€Matured Astrocytes. International Review of Neurobiology, 2007, 82, 73-93. | 2.0 | 16 |
| 72 | Mechanisms of bradykinin-induced contraction in human fetal lung fibroblasts. European Respiratory Journal, 2010, 36, 655-664. | 6.7 | 15 |

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| 73 | Dysregulated Ca2+ Homeostasis in Fanconi anemia cells. Scientific Reports, 2015, 5, 8088. | 3.3 | 15 |
| 74 | GABA receptor subunits identified in by immunofluorescence confocal microscopy. FEMS Microbiology Letters, 2004, 238, 449-453. | 1.8 | 14 |
| 75 | GABAAreceptor subunits identified inParameciumby immunofluorescence confocal microscopy. FEMS Microbiology Letters, 2004, 238, 449-453. | 1.8 | 13 |
| 76 | Activation of ?-aminobutyric acid GAT-1 transporters on glutamatergic terminals of mouse spinal cord mediates glutamate release through anion channels and by transporter reversal. Journal of Neuroscience Research, 2005, 80, 424-433. | 2.9 | 13 |
| 77 | Bradykinin B2 receptor expression in the bronchial mucosa of allergic asthmatics: the role of <scp>NF</scp>â€<scp>κB</scp>. Clinical and Experimental Allergy, 2016, 46, 428-438. | 2.9 | 13 |
| 78 | Presynaptic mGlu1 Receptors Control GABAB Receptors in an Antagonist-Like Manner in Mouse Cortical GABAergic and Glutamatergic Nerve Endings. Frontiers in Molecular Neuroscience, 2018, 11, 324. | 2.9 | 13 |
| 79 | Enhanced Function and Overexpression of Metabotropic Glutamate Receptors 1 and 5 in the Spinal Cord of the SOD1G93A Mouse Model of Amyotrophic Lateral Sclerosis during Disease Progression. International Journal of Molecular Sciences, 2019, 20, 4552. | 4.1 | 13 |
| 80 | Extracellular NAD+ Is an Agonist of the Human P2Y11 Purinergic Receptor in Human Granulocytes. Journal of Biological Chemistry, 2006, 281, 31419-31429. | 3.4 | 13 |
| 81 | Capacitance-voltage relationship in phospholipid bilayers containing gangliosides. FEBS Letters, 1983, 153, 315-319. | 2.8 | 12 |
| 82 | GABAB receptor intracellular trafficking after internalization inParamecium. Microscopy Research and Technique, 2005, 68, 290-295. | 2.2 | 12 |
| 83 | Î³-Amino butyric acid (GABA) release in the ciliated protozoonParameciumoccurs by neuronal-like exocytosis. Journal of Experimental Biology, 2010, 213, 1251-1258. | 1.7 | 12 |
| 84 | A new function for glycine GlyT2 transporters: Stimulation of Î³â€aminobutyric acid release from cerebellar nerve terminals through GAT1 transporter reversal and Ca<sup>2+</sup>â€dependent anion channels. Journal of Neuroscience Research, 2014, 92, 398-408. | 2.9 | 12 |
| 85 | Immuno-Pharmacological Characterization of Presynaptic GluN3A-Containing NMDA Autoreceptors: Relevance to Anti-NMDA Receptor Autoimmune Diseases. Molecular Neurobiology, 2019, 56, 6142-6155. | 4.0 | 12 |
| 86 | An interplexiform cell in the goldfish retina: light-evked response pattern and intracellular staining with horseradish peroxidase. Cell and Tissue Research, 1991, 264, 111-116. | 2.9 | 11 |
| 87 | Diadenosine Homodinucleotide Products of ADP-ribosyl Cyclases Behave as Modulators of the Purinergic Receptor P2X7. Journal of Biological Chemistry, 2010, 285, 21165-21174. | 3.4 | 10 |
| 88 | Pharmacological characterization of N-methyl-d-aspartic acid (NMDA)-like receptors in the single-celled organismParamecium primaurelia. Journal of Experimental Biology, 2014, 217, 463-71. | 1.7 | 10 |
| 89 | Patch-clamp recordings in isolated sponge cells (Axinella polypoides). Journal of Proteomics, 2003, 55, 179-189. | 2.4 | 9 |
| 90 | Three-dimensional microscopy migrates to the web with ?PowerUp Your Microscope?. Microscopy Research and Technique, 2004, 64, 196-203. | 2.2 | 9 |

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| 91 | Effect of the bioactive metabolite euplotin C on phagocytosis and fluid-phase endocytosis in the single-celled eukaryote Paramecium. Aquatic Toxicology, 2007, 85, 67-75. | 4.0 | 9 |
| 92 | Co-Existence of GABA and Glu Transporters in the Central Nervous System. Current Topics in Medicinal Chemistry, 2006, 6, 979-988. | 2.1 | 8 |
| 93 | Pharmacological Modulation of the Bradykinin-Induced Differentiation of Human Lung Fibroblasts: Effects of Budesonide and Formoterol. Journal of Asthma, 2012, 49, 1004-1011. | 1.7 | 7 |
| 94 | Antibodies Against the NH2-Terminus of the GluA Subunits Affect the AMPA-Evoked Releasing Activity: The Role of Complement. Frontiers in Immunology, 2021, 12, 586521. | 4.8 | 7 |
| 95 | Two-Photon Excitation Fluorescence Microscopy. , 2007, , 751-789. | | 6 |
| 96 | Subcellular and Intercellular Traffic of NAD<SUP>+</SUP>, NAD<SUP>+</SUP> Precursors and NAD<SUP>+</SUP>-Derived Signal Metabolites and Second Messengers: Old and New Topological Paradoxes. Messenger (Los Angeles, Calif: Print), 2012, 1, 34-52. | 0.3 | 6 |
| 97 | Colocalization of neurotransmitter transporters on the plasma membrane of the same nerve terminal may reflect cotransmission. Brain Research Bulletin, 2016, 127, 100-110. | 3.0 | 5 |
| 98 | Evidence for ciliary pigment localization in colored ciliates and implications for their photosensory transduction chain: A confocal microscopy study. Microscopy Research and Technique, 2007, 70, 1028-1033. | 2.2 | 4 |
| 99 | Biophysical effects of the natural product euplotin C on the Paramecium membrane. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2009, 195, 1061-1069. | 1.6 | 4 |
| 100 | Extracellular pancuronium affects sodium current in chick embryo sensory neurones. British Journal of Pharmacology, 1994, 111, 283-287. | 5.4 | 3 |
| 101 | Imaging of Endocytosis in Paramecium by Confocal Microscopy. , 0, , . | | 3 |
| 102 | Visualizing GABAB Receptor Internalization and Intracellular Trafficking. Neuromethods, 2012, , 71-95. | 0.3 | 0 |
| 103 | Shwachman-Diamond Syndrome: Energetic Stress, Calcium Homeostasis and mTOR Pathway. Blood, 2015, 126, 2410-2410. | 1.4 | 0 |
| 104 | From Microscopy to Nanoscopy: How to Get and Read Optical Data at Single Molecule Level Using Confocal and Two-Photon Excitation Microscopy. , 2005, , 187-207. | | 0 |