

Viktorie Vlachova

List of Publications by Year in descending order

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68
papers

2,369
citations

201385

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all docs

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docs citations

69
times ranked

2267
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Functional Role of C-Terminal Cytoplasmic Tail of Rat Vanilloid Receptor 1. <i>Journal of Neuroscience</i> , 2003, 23, 1340-1350. | 1.7 | 181 |
| 2 | The effect of external pH changes on responses to excitatory amino acids in mouse hippocampal neurones.. <i>Journal of Physiology</i> , 1990, 430, 497-517. | 1.3 | 151 |
| 3 | Inflammatory Mediators at Acidic pH Activate Capsaicin Receptors in Cultured Sensory Neurons From Newborn Rats. <i>Journal of Neurophysiology</i> , 1998, 79, 670-676. | 0.9 | 103 |
| 4 | Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. <i>EMBO Journal</i> , 2012, 31, 3795-3808. | 3.5 | 103 |
| 5 | Reducing and Oxidizing Agents Sensitize Heat-Activated Vanilloid Receptor (TRPV1) <i>Current Molecular Pharmacology</i> , 2006, 70, 383-394. | 1.0 | 99 |
| 6 | Copper Modulation of NMDA Responses in Mouse and Rat Cultured Hippocampal Neurons. <i>European Journal of Neuroscience</i> , 1996, 8, 2257-2264. | 1.2 | 93 |
| 7 | Temperature coefficient of membrane currents induced by noxious heat in sensory neurones in the rat. <i>Journal of Physiology</i> , 1999, 517, 181-192. | 1.3 | 89 |
| 8 | Improved superfusion technique for rapid cooling or heating of cultured cells under patch-clamp conditions. <i>Journal of Neuroscience Methods</i> , 2006, 151, 178-185. | 1.3 | 79 |
| 9 | A Ca^{2+} -Cute Ca^{2+} ; Desensitization of TRPV1. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 122-129. | 0.9 | 76 |
| 10 | Structural mechanism of heat-induced opening of a temperature-sensitive TRP channel. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 564-572. | 3.6 | 76 |
| 11 | A technique for fast application of heated solutions of different composition to cultured neurones. <i>Journal of Neuroscience Methods</i> , 1998, 82, 195-201. | 1.3 | 72 |
| 12 | Conserved Residues within the Putative S4-S5 Region Serve Distinct Functions among Thermosensitive Vanilloid Transient Receptor Potential (TRPV) Channels. <i>Journal of Biological Chemistry</i> , 2010, 285, 41455-41462. | 1.6 | 68 |
| 13 | Contribution of the Putative Inner-Pore Region to the Gating of the Transient Receptor Potential Vanilloid Subtype 1 Channel (TRPV1). <i>Journal of Neuroscience</i> , 2007, 27, 7578-7585. | 1.7 | 61 |
| 14 | Functional changes in the vanilloid receptor subtype 1 channel during and after acute desensitization. <i>Neuroscience</i> , 2007, 149, 144-154. | 1.1 | 60 |
| 15 | Gadolinium activates and sensitizes the vanilloid receptor TRPV1 through the external protonation sites. <i>Molecular and Cellular Neurosciences</i> , 2005, 30, 207-217. | 1.0 | 56 |
| 16 | Ethanol inhibits cold-menthol receptor TRPM8 by modulating its interaction with membrane phosphatidylinositol 4,5-bisphosphate. <i>Journal of Neurochemistry</i> , 2007, 100, 211-224. | 2.1 | 55 |
| 17 | The action of excitatory amino acids on chick spinal cord neurones in culture.. <i>Journal of Physiology</i> , 1987, 386, 425-438. | 1.3 | 52 |
| 18 | Molecular Basis of TRPA1 Regulation in Nociceptive Neurons. A Review. <i>Physiological Research</i> , 2017, 66, 425-439. | 0.4 | 52 |

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|----|---|-----|-----------|
| 19 | Odontoblast TRPC5 channels signal cold pain in teeth. <i>Science Advances</i> , 2021, 7, . | 4.7 | 42 |
| 20 | C-terminal Acidic Cluster Is Involved in Ca ²⁺ -induced Regulation of Human Transient Receptor Potential Ankyrin 1 Channel. <i>Journal of Biological Chemistry</i> , 2012, 287, 18067-18077. | 1.6 | 39 |
| 21 | Properties of NMDA receptors in rat spinal cord motoneurons. <i>European Journal of Neuroscience</i> , 1999, 11, 827-836. | 1.2 | 37 |
| 22 | Reducing agent dithiothreitol facilitates activity of the capsaicin receptor VR-1. <i>Neuroscience</i> , 2002, 111, 435-441. | 1.1 | 37 |
| 23 | Amplified Cold Transduction in Native Nociceptors by M-Channel Inhibition. <i>Journal of Neuroscience</i> , 2013, 33, 16627-16641. | 1.7 | 37 |
| 24 | The C-terminal basic residues contribute to the chemical- and voltage-dependent activation of TRPA1. <i>Biochemical Journal</i> , 2011, 433, 197-204. | 1.7 | 36 |
| 25 | Modelling the consequences of receptorâ€™G-protein promiscuity. <i>Trends in Pharmacological Sciences</i> , 2002, 23, 171-176. | 4.0 | 32 |
| 26 | Intracellular spermine decreases open probability of N-methyl-D-aspartate receptor channels. <i>Neuroscience</i> , 2004, 125, 879-887. | 1.1 | 31 |
| 27 | Comprehensive thermal preference phenotyping in mice using a novel automated circular gradient assay. <i>Temperature</i> , 2016, 3, 77-91. | 1.7 | 31 |
| 28 | Human and Mouse TRPA1 Are Heat and Cold Sensors Differentially Tuned by Voltage. <i>Cells</i> , 2020, 9, 57. | 1.8 | 30 |
| 29 | Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003, 14, 1061-1065. | 0.6 | 28 |
| 30 | Evidence that excitatory amino acids not only activate the receptor channel complex but also lead to use-dependent block. <i>Brain Research</i> , 1986, 363, 148-151. | 1.1 | 25 |
| 31 | The effects of capsaicin and acidity on currents generated by noxious heat in cultured neonatal rat dorsal root ganglion neurones. <i>Journal of Physiology</i> , 2001, 533, 717-728. | 1.3 | 25 |
| 32 | Intracellular cavity of sensor domain controls allosteric gating of TRPA1 channel. <i>Science Signaling</i> , 2018, 11, . | 1.6 | 25 |
| 33 | Molecular and functional properties of synaptically activated NMDA receptors in neonatal motoneurons in rat spinal cord slices. <i>European Journal of Neuroscience</i> , 2000, 12, 955-963. | 1.2 | 24 |
| 34 | Oxidizing reagent copper-o-phenanthroline is an open channel blocker of the vanilloid receptor TRPV1. <i>Neuropharmacology</i> , 2004, 47, 273-285. | 2.0 | 24 |
| 35 | Essential role for the putative S6 inner pore region in the activation gating of the human TRPA1 channel. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1279-1288. | 1.9 | 22 |
| 36 | N-terminal tetrapeptide T/SPLH motifs contribute to multimodal activation of human TRPA1 channel. <i>Scientific Reports</i> , 2016, 6, 28700. | 1.6 | 21 |

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|----|---|-----|-----------|
| 37 | Spontaneous Openings of NMDA Receptor Channels in Cultured Rat Hippocampal Neurons. <i>European Journal of Neuroscience</i> , 1997, 9, 1999-2008. | 1.2 | 20 |
| 38 | Structural modeling and patch-clamp analysis of pain-related mutation TRPA1-N855S reveal inter-subunit salt bridges stabilizing the channel open state. <i>Neuropharmacology</i> , 2015, 93, 294-307. | 2.0 | 20 |
| 39 | Protons stabilize the closed conformation of gain-of-function mutants of the TRPV1 channel. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 520-528. | 1.9 | 19 |
| 40 | The First Extracellular Linker Is Important for Several Aspects of the Gating Mechanism of Human TRPA1 Channel. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 16. | 1.4 | 19 |
| 41 | Voltage-dependent chloride channels with several substates in excised patches from mouse neuroblastoma cells. <i>Neuroscience Letters</i> , 1987, 77, 298-302. | 1.0 | 18 |
| 42 | Heat-resistant action potentials require TTX-resistant sodium channels NaV1.8 and NaV1.9. <i>Journal of General Physiology</i> , 2018, 150, 1125-1144. | 0.9 | 17 |
| 43 | Acute exposure to high-frequency electromagnetic field affects activity of model peripheral sensory neurons. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 1355-1362. | 1.6 | 16 |
| 44 | ATP binding site on the C-terminus of the vanilloid receptor. <i>Archives of Biochemistry and Biophysics</i> , 2007, 465, 389-398. | 1.4 | 15 |
| 45 | Pore Helix Domain Is Critical to Camphor Sensitivity of Transient Receptor Potential Vanilloid 1 Channel. <i>Anesthesiology</i> , 2012, 116, 903-917. | 1.3 | 15 |
| 46 | Proximal C-Terminus Serves as a Signaling Hub for TRPA1 Channel Regulation via Its Interacting Molecules and Supramolecular Complexes. <i>Frontiers in Physiology</i> , 2020, 11, 189. | 1.3 | 14 |
| 47 | Dual effects of muscarinic M2 receptors on the synthesis of cyclic AMP in CHO cells. <i>Life Sciences</i> , 2001, 68, 2501-2510. | 2.0 | 13 |
| 48 | The effects of excessive heat on heat-activated membrane currents in cultured dorsal root ganglia neurons from neonatal rat. <i>Pain</i> , 2002, 95, 207-214. | 2.0 | 13 |
| 49 | Putative interaction site for membrane phospholipids controls activation of TRPA1 channel at physiological membrane potentials. <i>FEBS Journal</i> , 2019, 286, 3664-3683. | 2.2 | 12 |
| 50 | Vanilloid receptor TRPV1 is not activated by vanilloids applied intracellularly. <i>NeuroReport</i> , 2003, 14, 1061-1065. | 0.6 | 11 |
| 51 | Cytoplasmic Inter-Subunit Interface Controls Use-Dependence of Thermal Activation of TRPV3 Channel. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3990. | 1.8 | 10 |
| 52 | Interaction of a peptide derived from C-terminus of human TRPA1 channel with model membranes mimicking the inner leaflet of the plasma membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1147-1156. | 1.4 | 9 |
| 53 | Transient Receptor Potential Ankyrin 1 Channel: An Evolutionarily Tuned Thermosensor. <i>Physiological Research</i> , 2021, 70, 363-381. | 0.4 | 9 |
| 54 | Procaine excites nociceptors in cultures from dorsal root ganglion of the rat. <i>Neuroscience Letters</i> , 1999, 263, 49-52. | 1.0 | 7 |

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|----|---|-----|-----------|
| 55 | G-Protein Modulation of Glycine-resistant NMDA Receptor Desensitization in Rat Cultured Hippocampal Neurons. <i>European Journal of Neuroscience</i> , 1995, 7, 1826-1830. | 1.2 | 6 |
| 56 | Editorial [Hot topic: TRP Channels: From Understanding to Action (Guest Editor: Viktorie Vlachova)]. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1-2. | 0.9 | 6 |
| 57 | Cobaltions block l-glutamate and l-aspartate-induced currents in cultured neurons from embryonic chick spinal cord. <i>Neuroscience Letters</i> , 1985, 61, 345-350. | 1.0 | 4 |
| 58 | Glutamine-induced membrane currents in cultured chick spinal cord neurons. <i>Neuroscience Letters</i> , 1988, 90, 333-337. | 1.0 | 4 |
| 59 | Axotomy-induced change in the properties of (S)- \pm -amino-3-hydroxy-5-methyl-4-isoxazolepropionate receptor channels in rat motoneurons. <i>Neuroscience</i> , 2000, 99, 119-131. | 1.1 | 4 |
| 60 | The human transient receptor potential vanilloid 3 channel is sensitized via the ERK pathway. <i>Journal of Biological Chemistry</i> , 2017, 292, 21083-21091. | 1.6 | 4 |
| 61 | Membrane currents induced by l-homocysteic acid in mouse cultured hippocampal neurons. <i>Neuroscience</i> , 1992, 48, 813-819. | 1.1 | 3 |
| 62 | Cellular context determines primary characteristics of human TRPC5 as a cold-activated channel. <i>Journal of Cellular Physiology</i> , 2022, 237, 3614-3626. | 2.0 | 3 |
| 63 | Ionic currents in neuroblastoma clone E-7 cells. <i>Neuroscience Letters</i> , 1985, 55, 197-201. | 1.0 | 2 |
| 64 | Single K ⁺ currents during differentiation of embryonic muscle cells in vitro. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 986, 146-150. | 1.4 | 2 |
| 65 | Activity dependent inhibition of TRPC1/4/5 channels by duloxetine involves voltage sensor-like domain. <i>Biomedicine and Pharmacotherapy</i> , 2022, 152, 113262. | 2.5 | 2 |
| 66 | Searching for Voltage Sensors in Thermosensitive TRP Channels. <i>Biophysical Journal</i> , 2012, 102, 30a. | 0.2 | 0 |
| 67 | S4-S5 Linker is Involved in Voltage-Dependent Gating of Human Transient Receptor Potential Ankyrin 1 Channel. <i>Biophysical Journal</i> , 2013, 104, 453a-454a. | 0.2 | 0 |
| 68 | Phospho-Mimetic Mutation at Ser602 Inactivates Human TRPA1 Channel. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7995. | 1.8 | 0 |