

# Juana Gallar

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

4,096  
citations

236925

25  
h-index

175258

52  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2327  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural basis of sensation in intact and injured corneas. <i>Experimental Eye Research</i> , 2004, 78, 513-525.	2.6	438
2	Ocular surface wetness is regulated by TRPM8-dependent cold thermoreceptors of the cornea. <i>Nature Medicine</i> , 2010, 16, 1396-1399.	30.7	270
3	Decreased Corneal Sensitivity in Patients with Dry Eye. , 2005, 46, 2341.		212
4	Excitation by irritant chemical substances of sensory afferent units in the cat's cornea.. <i>Journal of Physiology</i> , 1991, 437, 709-725.	2.9	211
5	Response of sensory units with unmyelinated fibres to mechanical, thermal and chemical stimulation of the cat's cornea.. <i>Journal of Physiology</i> , 1993, 468, 609-622.	2.9	183
6	Nerves and Sensations from the Eye Surface. <i>Ocular Surface</i> , 2004, 2, 248-253.	4.4	181
7	Neurobiology of ocular pain. <i>Progress in Retinal and Eye Research</i> , 1997, 16, 117-156.	15.5	167
8	The Influence of Eye Solutions on Blinking and Ocular Comfort at Rest and During Work at Video Display Terminals. <i>Experimental Eye Research</i> , 1999, 68, 663-669.	2.6	157
9	What Causes Eye Pain?. <i>Current Ophthalmology Reports</i> , 2015, 3, 111-121.	1.2	148
10	Cold Thermoreceptors, Unexpected Players in Tear Production and Ocular Dryness Sensations. , 2011, 52, 3888.		133
11	Sensory experiences in humans and single-unit activity in cats evoked by polymodal stimulation of the cornea. <i>Journal of Physiology</i> , 2001, 534, 511-525.	2.9	130
12	CO2Stimulation of the Cornea: A Comparison Between Human Sensation and Nerve Activity in Polymodal Nociceptive Afferents of the Cat. <i>European Journal of Neuroscience</i> , 1995, 7, 1154-1163.	2.6	109
13	Tear fluid hyperosmolality increases nerve impulse activity of cold thermoreceptor endings of the cornea. <i>Pain</i> , 2014, 155, 1481-1491.	4.2	105
14	Tear Secretion Induced by Selective Stimulation of Corneal and Conjunctival Sensory Nerve Fibers. , 2004, 45, 2333.		91
15	Abnormal activity of corneal cold thermoreceptors underlies the unpleasant sensations in dry eye disease. <i>Pain</i> , 2016, 157, 399-417.	4.2	86
16	The TFOS International Workshop on Contact Lens Discomfort: Report of the Subcommittee on Neurobiology. , 2013, 54, TFOS71.		79
17	Functional Properties of Sensory Nerve Terminals of the Mouse Cornea. , 2017, 58, 404.		71
18	Quantification and immunocytochemical characteristics of trigeminal ganglion neurons projecting to the cornea: Effect of corneal wounding. <i>European Journal of Pain</i> , 1999, 3, 31-39.	2.8	65

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19	Regeneration of functional nerves within full thickness collagen-phosphorylcholine corneal substitute implants in guinea pigs. <i>Biomaterials</i> , 2010, 31, 2770-2778.	11.4	65
20	Influence of age, gender and iris color on mechanical and chemical sensitivity of the cornea and conjunctiva. <i>Experimental Eye Research</i> , 2006, 83, 932-938.	2.6	61
21	Selective Changes in Human Corneal Sensation Associated with Herpes Simplex Virus Keratitis. , 2010, 51, 4516.		57
22	Changes in sensory activity of ocular surface sensory nerves during allergic keratoconjunctivitis. <i>Pain</i> , 2013, 154, 2353-2362.	4.2	55
23	Arginine-rich peptides are blockers of VR-1 channels with analgesic activity. <i>FEBS Letters</i> , 2000, 481, 131-136.	2.8	54
24	Responses of nerve fibres of the rat saphenous nerve neuroma to mechanical and chemical stimulation: an in vitro study. <i>Journal of Physiology</i> , 2000, 527, 305-313.	2.9	51
25	Recovery of Corneal Sensitivity to Mechanical and Chemical Stimulation After Laser in situ Keratomileusis. <i>Journal of Refractive Surgery</i> , 2004, 20, 229-235.	2.3	51
26	Impulse Activity in Corneal Sensory Nerve Fibers after Photorefractive Keratectomy. , 2007, 48, 4033.		48
27	Corneal Sensory Nerve Activity in an Experimental Model of UV Keratitis. , 2014, 55, 3403.		48
28	Acid-sensing ion channels detect moderate acidifications to induce ocular pain. <i>Pain</i> , 2015, 156, 483-495.	4.2	47
29	Morphological and functional changes in TRPM8-expressing corneal cold thermoreceptor neurons during aging and their impact on tearing in mice. <i>Journal of Comparative Neurology</i> , 2018, 526, 1859-1874.	1.6	47
30	Regenerative Approaches as Alternatives to Donor Allografting for Restoration of Corneal Function. <i>Ocular Surface</i> , 2012, 10, 170-183.	4.4	43
31	Increased Levels of Diadenosine Polyphosphates in Dry Eye. , 2006, 47, 4053.		40
32	Changes in Mechanical, Chemical, and Thermal Sensitivity of the Cornea after Topical Application of Nonsteroidal Anti-inflammatory Drugs. , 2005, 46, 282.		33
33	Corneal Sensitivity in Diabetic Patients Subjected to Retinal Laser Photocoagulation. , 2011, 52, 6043.		33
34	Melanopsin expression in the cornea. <i>Visual Neuroscience</i> , 2018, 35, E004.	1.0	33
35	Blockade by calcium antagonists of chemical excitation and sensitization of polymodal nociceptors in the cat's cornea.. <i>Journal of Physiology</i> , 1992, 450, 179-189.	2.9	29
36	Decreased Corneal Sensitivity and Tear Production in Fibromyalgia. , 2009, 50, 4129.		29

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37	Activation of Scleral Cold Thermoreceptors by Temperature and Blood Flow Changes. , 2003, 44, 697.		27
38	Comparative Effects of the Nonsteroidal Anti-inflammatory Drug Nepafenac on Corneal Sensory Nerve Fibers Responding to Chemical Irritation. , 2007, 48, 182.		26
39	Corneal Sensitivity and Dry Eye Symptoms in Patients with Keratoconus. PLoS ONE, 2015, 10, e0141621.	2.5	26
40	Functional and Morphologic Alterations in Mechanical, Polymodal, and Cold Sensory Nerve Fibers of the Cornea Following Photorefractive Keratectomy. , 2018, 59, 2281.		26
41	Molecular Determinants of the Sensory and Motor Neuron-derived Factor Insertion into Plasma Membrane. Journal of Biological Chemistry, 2002, 277, 19905-19912.	3.4	25
42	Small fiber neuropathy in the cornea of Covid-19 patients associated with the generation of ocular surface disease. Ocular Surface, 2022, 23, 40-48.	4.4	24
43	Effects of corneal injury on ciliary nerve fibre activity and corneal nociception in mice: A behavioural and electrophysiological study. European Journal of Pain, 2019, 23, 589-602.	2.8	22
44	Irritation of the anterior segment of the eye by ultraviolet radiation: influence of nerve blockade and calcium antagonists. Current Eye Research, 1995, 14, 827-835.	1.5	19
45	Influence of diltiazem on the ocular irritative response to nitrogen mustard. Experimental Eye Research, 1995, 61, 205-212.	2.6	17
46	Adenine nucleotide effect on intraocular pressure: Involvement of the parasympathetic nervous system. Experimental Eye Research, 2009, 89, 63-70.	2.6	16
47	Recovery of corneal sensitivity to mechanical and chemical stimulation after laser in situ keratomileusis. Journal of Refractive Surgery, 2004, 20, 229-35.	2.3	16
48	Expression of Cholecystokinin, Gastrin, and Their Receptors in the Mouse Cornea. , 2014, 55, 1965.		15
49	Sensory Innervation of the Eye. , 2011, , 363-384.		15
50	Three-dimensional reconstruction of scleral cold thermoreceptors of the cat eye. Journal of Comparative Neurology, 2001, 441, 148-154.	1.6	13
51	Sodium Channel Blockers Modulate Abnormal Activity of Regenerating Nociceptive Corneal Nerves After Surgical Lesion. , 2021, 62, 2.		13
52	Polymodality in Nociceptive Neurons: Experimental Models of Chemotransduction. , 1994, , 87-117.		13
53	Epithelial and sensory mechanisms of nasal hyperreactivity. Allergy: European Journal of Allergy and Clinical Immunology, 2022, 77, 1450-1463.	5.7	13
54	In vivocAMP level in rabbit iris-ciliary body after topical epinephrine treatment. Current Eye Research, 1996, 15, 1025-1032.	1.5	12

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55	Topical treatment with a mu opioid receptor agonist alleviates corneal allodynia and corneal nerve sensitization in mice. <i>Biomedicine and Pharmacotherapy</i> , 2020, 132, 110794.	5.6	12
56	The Effect of Tear Supplementation on Ocular Surface Sensations during the Interblink Interval in Patients with Dry Eye. <i>PLoS ONE</i> , 2015, 10, e0135629.	2.5	11
57	Preclinical pharmacology, ocular tolerability and ocular hypotensive efficacy of a novel non-peptide bradykinin mimetic small molecule. <i>Experimental Eye Research</i> , 2014, 128, 170-180.	2.6	10
58	Deciphering the Action of Perfluorohexyloctane Eye Drops to Reduce Ocular Discomfort and Pain. <i>Frontiers in Medicine</i> , 2021, 8, 709712.	2.6	10
59	Lacosamide diminishes dryness-induced hyperexcitability of corneal cold sensitive nerve terminals. <i>European Journal of Pharmacology</i> , 2016, 787, 2-8.	3.5	7
60	Unilateral Corneal Insult Also Alters Sensory Nerve Activity in the Contralateral Eye. <i>Frontiers in Medicine</i> , 2021, 8, 767967.	2.6	7
61	An Experimental Model of Neuro-immune Interactions in the Eye: Corneal Sensory Nerves and Resident Dendritic Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2997.	4.1	7
62	Inhibitory Effect of Amitriptyline on the Impulse Activity of Cold Thermoreceptor Terminals of Intact and Tear-Deficient Guinea Pig Corneas. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2018, 34, 195-203.	1.4	6
63	Membrane potential instabilities in sensory neurons: mechanisms and pathophysiological relevance. <i>Pain</i> , 2022, 163, 64-74.	4.2	6
64	The Effect of Tear Supplementation with 0.15% Preservative-Free Zinc-Hyaluronate on Ocular Surface Sensations in Patients with Dry Eye. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2017, 33, 487-492.	1.4	5
65	Optical Assessment of Nociceptive TRP Channel Function at the Peripheral Nerve Terminal. <i>International Journal of Molecular Sciences</i> , 2021, 22, 481.	4.1	5
66	OSDI Questions on Daily Life Activities Allow to Detect Subclinical Dry Eye in Young Contact Lens Users. <i>Journal of Clinical Medicine</i> , 2022, 11, 2626.	2.4	4
67	A genetic compensatory mechanism regulated by Jun and Mef2d modulates the expression of distinct class IIa Hdacs to ensure peripheral nerve myelination and repair. <i>ELife</i> , 2022, 11, .	6.0	3
68	Acute Increase in Blood $\hat{\pm}$ CGRP at Maximal Exercise and Its Association to Cardiorespiratory Fitness, Carbohydrate Oxidation and Work Performed: An Exploratory Study in Young Men. <i>Biology</i> , 2021, 10, 783.	2.8	2
69	Polymodal nociceptors and neurogenic inflammation in the cornea. <i>Experimental Eye Research</i> , 1992, 55, 53.	2.6	1
70	Cover Image, Volume 526, Issue 11. <i>Journal of Comparative Neurology</i> , 2018, 526, C1-C1.	1.6	0
71	Corneal Sensitivity to Mechanical and Chemical Stimulation After LASIK/Reply. <i>Journal of Refractive Surgery</i> , 2005, 21, 764-764.	2.3	0