

Oliver M Schlatter

List of Publications by Year in descending order

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84
papers

6,375
citations

76326

40
h-index

69250

77
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86
all docs

86
docs citations

86
times ranked

6433
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca ²⁺ -permeable AMPA receptors set the threshold for retrieval of drug memories. <i>Molecular Psychiatry</i> , 2022, 27, 2868-2878.	7.9	4
2	Cocaine Triggers Astrocyte-Mediated Synaptogenesis. <i>Biological Psychiatry</i> , 2021, 89, 386-397.	1.3	57
3	Spine dynamics of PSD-95-deficient neurons in the visual cortex link silent synapses to structural cortical plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
4	Reduce and refine: Plasma treated water vs conventional disinfectants for conveyor-belt cleaning in sustainable food-production lines. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	5
5	Cold atmospheric pressure plasma inactivation of dairy associated planktonic cells of <i>Listeria monocytogenes</i> and <i>Staphylococcus aureus</i> . <i>LWT - Food Science and Technology</i> , 2021, 146, 111452.	5.2	5
6	Effect of <i>Yarrowia lipolytica</i> RO25 cricket-based hydrolysates on sourdough quality parameters. <i>LWT - Food Science and Technology</i> , 2021, 148, 111760.	5.2	14
7	Bioavailability of nutrients from edible insects. <i>Current Opinion in Food Science</i> , 2021, 41, 240-248.	8.0	72
8	Effect of cold atmospheric pressure plasma processing on quality and shelf life of red currants. <i>LWT - Food Science and Technology</i> , 2021, 151, 112213.	5.2	15
9	AMPA and NMDA Receptor Trafficking at Cocaine-Generated Synapses. <i>Journal of Neuroscience</i> , 2021, 41, 1996-2011.	3.6	11
10	Neuropathic pain generates silent synapses in thalamic projection to anterior cingulate cortex. <i>Pain</i> , 2021, 162, 1322-1333.	4.2	25
11	Aqueous and gaseous plasma applications for the treatment of mung bean seeds. <i>Scientific Reports</i> , 2021, 11, 19681.	3.3	10
12	Fluorescence-based characterisation of selected edible insect species: Excitation emission matrix (EEM) and parallel factor (PARAFAC) analysis. <i>Current Research in Food Science</i> , 2021, 4, 862-872.	5.8	7
13	Potential of <i>Yarrowia lipolytica</i> and <i>Debaryomyces hansenii</i> strains to produce high quality food ingredients based on cricket powder. <i>LWT - Food Science and Technology</i> , 2020, 119, 108866.	5.2	12
14	Silent synapses dictate cocaine memory destabilization and reconsolidation. <i>Nature Neuroscience</i> , 2020, 23, 32-46.	14.8	65
15	Food waste valorisation and circular economy concepts in insect production and processing. <i>Waste Management</i> , 2020, 118, 600-609.	7.4	142
16	Impact of plasma processed air (PPA) on phenolic model systems: Suggested mechanisms and relevance for food applications. <i>Innovative Food Science and Emerging Technologies</i> , 2020, 64, 102432.	5.6	5
17	Cortical and Thalamic Interaction with Amygdala-to-Accumbens Synapses. <i>Journal of Neuroscience</i> , 2020, 40, 7119-7132.	3.6	19
18	Silent Synapse-Based Mechanisms of Critical Period Plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 213.	3.7	17

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19	Impact of cold atmospheric pressure plasma processing on storage of blueberries. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14581.	2.0	15
20	Safety Control of Whole Berries by Cold Atmospheric Pressure Plasma Processing: A Review. <i>Journal of Food Protection</i> , 2019, 82, 1233-1243.	1.7	17
21	High hydrostatic pressure effects on membrane-related quality parameters of fresh radish tubers. <i>Postharvest Biology and Technology</i> , 2019, 151, 1-9.	6.0	11
22	Ventral Tegmental Area Projection Regulates Glutamatergic Transmission in Nucleus Accumbens. <i>Scientific Reports</i> , 2019, 9, 18451.	3.3	11
23	Sanitation of fresh-cut endive lettuce by plasma processed tap water (PPtW) – Up-scaling to industrial level. <i>Innovative Food Science and Emerging Technologies</i> , 2019, 53, 45-55.	5.6	36
24	Hypersocial behavior and biological redundancy in mice with reduced expression of PSD95 or PSD93. <i>Behavioural Brain Research</i> , 2018, 352, 35-45.	2.2	43
25	An opposing function of paralogs in balancing developmental synapse maturation. <i>PLoS Biology</i> , 2018, 16, e2006838.	5.6	35
26	Sublethal Injury and Viable but Non-culturable (VBNC) State in Microorganisms During Preservation of Food and Biological Materials by Non-thermal Processes. <i>Frontiers in Microbiology</i> , 2018, 9, 2773.	3.5	103
27	Pre-drying treatment of plant related tissues using plasma processed air: Impact on enzyme activity and quality attributes of cut apple and potato. <i>Innovative Food Science and Emerging Technologies</i> , 2017, 40, 78-86.	5.6	95
28	Insect biodiversity: underutilized bioresource for sustainable applications in life sciences. <i>Regional Environmental Change</i> , 2017, 17, 1445-1454.	2.9	21
29	Adrenergic Gate Release for Spike Timing-Dependent Synaptic Potentiation. <i>Neuron</i> , 2017, 93, 394-408.	8.1	34
30	Calcium-permeable AMPA receptors and silent synapses in cocaine-conditioned place preference. <i>EMBO Journal</i> , 2017, 36, 458-474.	7.8	36
31	Inactivation of Salmonella Enteritidis PT30 on the surface of unpeeled almonds by cold plasma. <i>Innovative Food Science and Emerging Technologies</i> , 2017, 44, 242-248.	5.6	75
32	A Feedforward Inhibitory Circuit Mediated by CB1-Expressing Fast-Spiking Interneurons in the Nucleus Accumbens. <i>Neuropsychopharmacology</i> , 2017, 42, 1146-1156.	5.4	29
33	Nucleus accumbens feedforward inhibition circuit promotes cocaine self-administration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8750-E8759.	7.1	62
34	Scale-up to pilot plant dimensions of plasma processed water generation for fresh-cut lettuce treatment. <i>Food Packaging and Shelf Life</i> , 2017, 14, 40-45.	7.5	37
35	Factors involved in Bacillus spore's resistance to cold atmospheric pressure plasma. <i>Innovative Food Science and Emerging Technologies</i> , 2017, 43, 173-181.	5.6	31
36	Characterization of high hydrostatic pressure effects on fresh produce cell turgor using pressure probe analyses. <i>Postharvest Biology and Technology</i> , 2017, 132, 188-194.	6.0	13

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37	A Comparison of Carbon Footprint and Production Cost of Different Pasta Products Based on Whole Egg and Pea Flour. <i>Foods</i> , 2016, 5, 17.	4.3	13
38	Cocaine-Induced Synaptic Alterations in Thalamus to Nucleus Accumbens Projection. <i>Neuropsychopharmacology</i> , 2016, 41, 2399-2410.	5.4	83
39	Re-silencing of silent synapses unmasks anti-relapse effects of environmental enrichment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5089-5094.	7.1	37
40	Circuit-wide Transcriptional Profiling Reveals Brain Region-Specific Gene Networks Regulating Depression Susceptibility. <i>Neuron</i> , 2016, 90, 969-983.	8.1	272
41	Cold atmospheric pressure plasma processing of insect flour from <i>Tenebrio molitor</i> : Impact on microbial load and quality attributes in comparison to dry heat treatment. <i>Innovative Food Science and Emerging Technologies</i> , 2016, 36, 277-286.	5.6	64
42	Opposing mechanisms mediate morphine- and cocaine-induced generation of silent synapses. <i>Nature Neuroscience</i> , 2016, 19, 915-925.	14.8	149
43	Non-destructive mobile monitoring of microbial contaminations on meat surfaces using porphyrin fluorescence intensities. <i>Meat Science</i> , 2016, 115, 1-8.	5.5	19
44	Impact of surface structure and feed gas composition on <i>Bacillus subtilis</i> endospore inactivation during direct plasma treatment. <i>Frontiers in Microbiology</i> , 2015, 6, 774.	3.5	37
45	Flow cytometric evaluation of physico-chemical impact on Gram-positive and Gram-negative bacteria. <i>Frontiers in Microbiology</i> , 2015, 6, 939.	3.5	22
46	Increased Excitability of Lateral Habenula Neurons in Adolescent Rats following Cocaine Self-Administration. <i>International Journal of Neuropsychopharmacology</i> , 2015, 18, pyu109-pyu109.	2.1	29
47	Silent Synapses Speak Up. <i>Neuroscientist</i> , 2015, 21, 451-459.	3.5	35
48	Impact of remote plasma treatment on natural microbial load and quality parameters of selected herbs and spices. <i>Journal of Food Engineering</i> , 2015, 167, 12-17.	5.2	88
49	Impact of thermal treatment versus cold atmospheric plasma processing on the techno-functional protein properties from <i>Pisum sativum</i> "Salamanca". <i>Journal of Food Engineering</i> , 2015, 167, 166-174.	5.2	127
50	Progressive maturation of silent synapses governs the duration of a critical period. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3131-40.	7.1	85
51	The impact of different process gas compositions on the inactivation effect of an atmospheric pressure plasma jet on <i>Bacillus</i> spores. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 30, 112-118.	5.6	58
52	Inactivation of Shiga toxin-producing <i>Escherichia coli</i> O104:H4 using cold atmospheric pressure plasma. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 275-279.	2.2	36
53	Impact of cold atmospheric pressure plasma on physiology and flavonol glycoside profile of peas (<i>Pisum sativum</i> "Salamanca"). <i>Food Research International</i> , 2015, 76, 132-141.	6.2	67
54	Decontamination of whole black pepper using different cold atmospheric pressure plasma applications. <i>Food Control</i> , 2015, 55, 221-229.	5.5	181

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55	Interactions of Non-Thermal Atmospheric Pressure Plasma with Solid and Liquid Food Systems: A Review. <i>Food Engineering Reviews</i> , 2015, 7, 82-108.	5.9	215
56	Impact of plasma processed air (PPA) on quality parameters of fresh produce. <i>Postharvest Biology and Technology</i> , 2015, 100, 120-126.	6.0	60
57	Impact of cold plasma on <i>Citrobacter freundii</i> in apple juice: Inactivation kinetics and mechanisms. <i>International Journal of Food Microbiology</i> , 2014, 174, 63-71.	4.7	167
58	Non-thermal atmospheric pressure plasma: Screening for gentle process conditions and antibacterial efficiency on perishable fresh produce. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 22, 147-157.	5.6	93
59	Comparison of volumetric and surface decontamination techniques for innovative processing of mealworm larvae (<i>Tenebrio molitor</i>). <i>Innovative Food Science and Emerging Technologies</i> , 2014, 26, 232-241.	5.6	55
60	Evidence for a radial strain gradient in apple fruit cuticles. <i>Planta</i> , 2014, 240, 891-897.	3.2	31
61	Bidirectional Modulation of Incubation of Cocaine Craving by Silent Synapse-Based Remodeling of Prefrontal Cortex to Accumbens Projections. <i>Neuron</i> , 2014, 83, 1453-1467.	8.1	284
62	VIS/NIR spectroscopy, chlorophyll fluorescence, biospeckle and backscattering to evaluate changes in apples subjected to hydrostatic pressures. <i>Postharvest Biology and Technology</i> , 2014, 96, 88-98.	6.0	19
63	Nutrient composition of insects and their potential application in food and feed in Europe. <i>Food Chain</i> , 2014, 4, 129-139.	0.4	16
64	Direct non-thermal plasma treatment for the sanitation of fresh corn salad leaves: Evaluation of physical and physiological effects and antimicrobial efficacy. <i>Postharvest Biology and Technology</i> , 2013, 84, 81-87.	6.0	99
65	Potential and challenges of insects as an innovative source for food and feed production. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 17, 1-11.	5.6	532
66	Maturation of silent synapses in amygdala-accumbens projection contributes to incubation of cocaine craving. <i>Nature Neuroscience</i> , 2013, 16, 1644-1651.	14.8	256
67	Opinion on the use of plasma processes for treatment of foods*. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 920-927.	3.3	135
68	Synaptic State-Dependent Functional Interplay between Postsynaptic Density-95 and Synapse-Associated Protein 102. <i>Journal of Neuroscience</i> , 2013, 33, 13398-13409.	3.6	15
69	Differential Roles of Postsynaptic Density-93 Isoforms in Regulating Synaptic Transmission. <i>Journal of Neuroscience</i> , 2013, 33, 15504-15517.	3.6	30
70	Selective presynaptic enhancement of the prefrontal cortex to nucleus accumbens pathway by cocaine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 713-718.	7.1	91
71	Indirect plasma treatment of fresh pork: Decontamination efficiency and effects on quality attributes. <i>Innovative Food Science and Emerging Technologies</i> , 2012, 16, 381-390.	5.6	130
72	A Method for Viability Testing of <i>Pectobacterium carotovorum</i> in Postharvest Processing by Means of Flow Cytometry. <i>Food and Bioprocess Technology</i> , 2012, 5, 2871-2879.	4.7	10

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73	Decontamination of Microbiologically Contaminated Specimen by Direct and Indirect Plasma Treatment. <i>Plasma Processes and Polymers</i> , 2012, 9, 569-575.	3.0	83
74	Treating lambâ€™s lettuce with a cold plasma â€“ Influence of atmospheric pressure Ar plasma immanent species on the phenolic profile of <i>Valerianella locusta</i> . <i>LWT - Food Science and Technology</i> , 2011, 44, 2285-2289.	5.2	131
75	A Silent Synapse-Based Mechanism for Cocaine-Induced Locomotor Sensitization. <i>Journal of Neuroscience</i> , 2011, 31, 8163-8174.	3.6	156
76	Surface morphology and chemical composition of lambâ€™s lettuce (<i>Valerianella locusta</i>) after exposure to a low-pressure oxygen plasma. <i>Food Chemistry</i> , 2010, 122, 1145-1152.	8.2	123
77	Reaction Chemistry of 1,4â€“Benzopyrone Derivates in Nonâ€“Equilibrium Lowâ€“Temperature Plasmas. <i>Plasma Processes and Polymers</i> , 2010, 7, 466-473.	3.0	25
78	Characterization of High-Hydrostatic-Pressure Effects on Fresh Produce Using Chlorophyll Fluorescence Image Analysis. <i>Food and Bioprocess Technology</i> , 2009, 2, 291-299.	4.7	57
79	In Vivo Cocaine Experience Generates Silent Synapses. <i>Neuron</i> , 2009, 63, 40-47.	8.1	229
80	Fluorimetric detection of protoporphyrins as an indicator for quality monitoring of fresh intact pork meat. <i>Meat Science</i> , 2008, 80, 1320-1325.	5.5	35
81	Molecular Dissociation of the Role of PSD-95 in Regulating Synaptic Strength and LTD. <i>Neuron</i> , 2008, 57, 248-262.	8.1	161
82	Alternative N-Terminal Domains of PSD-95 and SAP97 Govern Activity-Dependent Regulation of Synaptic AMPA Receptor Function. <i>Neuron</i> , 2006, 51, 99-111.	8.1	209
83	High pressureâ€“low temperature processing of foods: impact on cell membranes, texture, color and visual appearance of potato tissue. <i>Innovative Food Science and Emerging Technologies</i> , 2005, 6, 59-71.	5.6	65
84	A Complete Genetic Analysis of Neuronal Rab3 Function. <i>Journal of Neuroscience</i> , 2004, 24, 6629-6637.	3.6	258