

Noam Sobel

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

6,612
citations

66315

42
h-index

66879

78
g-index

100
all docs

100
docs citations

100
times ranked

4772
citing authors

#	ARTICLE	IF	CITATIONS
1	An Odor is Not Worth a Thousand Words: From Multidimensional Odors to Unidimensional Odor Objects. <i>Annual Review of Psychology</i> , 2010, 61, 219-241.	9.9	355
2	Predicting Odor Pleasantness from Odorant Structure: Pleasantness as a Reflection of the Physical World. <i>Journal of Neuroscience</i> , 2007, 27, 10015-10023.	1.7	345
3	The Sniff Is Part of the Olfactory Percept. <i>Chemical Senses</i> , 2006, 31, 181-196.	1.1	317
4	Mechanisms of scent-tracking in humans. <i>Nature Neuroscience</i> , 2007, 10, 27-29.	7.1	292
5	Time Course of Odorant-Induced Activation in the Human Primary Olfactory Cortex. <i>Journal of Neurophysiology</i> , 2000, 83, 537-551.	0.9	276
6	Attentional modulation in human primary olfactory cortex. <i>Nature Neuroscience</i> , 2005, 8, 114-120.	7.1	241
7	Odorant-Induced and Sniff-Induced Activation in the Cerebellum of the Human. <i>Journal of Neuroscience</i> , 1998, 18, 8990-9001.	1.7	221
8	A metric for odorant comparison. <i>Nature Methods</i> , 2008, 5, 425-429.	9.0	212
9	Blind smell: brain activation induced by an undetected air-borne chemical. <i>Brain</i> , 1999, 122, 209-217.	3.7	194
10	Human Tears Contain a Chemosignal. <i>Science</i> , 2011, 331, 226-230.	6.0	184
11	Smelling a Single Component of Male Sweat Alters Levels of Cortisol in Women. <i>Journal of Neuroscience</i> , 2007, 27, 1261-1265.	1.7	180
12	Humans can learn new information during sleep. <i>Nature Neuroscience</i> , 2012, 15, 1460-1465.	7.1	180
13	Brain Mechanisms for Extracting Spatial Information from Smell. <i>Neuron</i> , 2005, 47, 581-592.	3.8	164
14	Olfactomotor activity during imagery mimics that during perception. <i>Nature Neuroscience</i> , 2003, 6, 1142-1144.	7.1	156
15	Human olfaction: a constant state of change-blindness. <i>Experimental Brain Research</i> , 2010, 205, 13-29.	0.7	150
16	The world smells different to each nostril. <i>Nature</i> , 1999, 402, 35-35.	18.7	147
17	Rapid Olfactory Processing Implicates Subcortical Control of an Olfactomotor System. <i>Journal of Neurophysiology</i> , 2003, 90, 1084-1094.	0.9	137
18	Hedonic-Specific Activity in Piriform Cortex During Odor Imagery Mimics That During Odor Perception. <i>Journal of Neurophysiology</i> , 2007, 98, 3254-3262.	0.9	133

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19	Perceptual convergence of multi-component mixtures in olfaction implies an olfactory white. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19959-19964.	3.3	117
20	Auditory aversive learning increases discrimination thresholds. Nature Neuroscience, 2011, 14, 791-796.	7.1	114
21	Human non-olfactory cognition phase-locked with inhalation. Nature Human Behaviour, 2019, 3, 501-512.	6.2	114
22	Humans as an Animal Model for Systems-Level Organization of Olfaction. Neuron, 2005, 48, 431-454.	3.8	102
23	Predicting Odor Perceptual Similarity from Odor Structure. PLoS Computational Biology, 2013, 9, e1003184.	1.5	92
24	Global Features of Neural Activity in the Olfactory System Form a Parallel Code That Predicts Olfactory Behavior and Perception. Journal of Neuroscience, 2010, 30, 9017-9026.	1.7	86
25	Neural activity at the human olfactory epithelium reflects olfactory perception. Nature Neuroscience, 2011, 14, 1455-1461.	7.1	86
26	One nostril knows what the other learns. Nature, 2002, 419, 802-802.	13.7	84
27	Dissociating Intensity from Valence as Sensory Inputs to Emotion. Neuron, 2003, 39, 581-583.	3.8	79
28	Altered responses to social chemosignals in autism spectrum disorder. Nature Neuroscience, 2018, 21, 111-119.	7.1	78
29	A Mechanistic Link between Olfaction and Autism Spectrum Disorder. Current Biology, 2015, 25, 1904-1910.	1.8	77
30	Methods for building an olfactometer with known concentration outcomes. Journal of Neuroscience Methods, 2007, 160, 231-245.	1.3	74
31	Olfactory Aversive Conditioning during Sleep Reduces Cigarette-Smoking Behavior. Journal of Neuroscience, 2014, 34, 15382-15393.	1.7	74
32	Spared and Impaired Olfactory Abilities after Thalamic Lesions. Journal of Neuroscience, 2009, 29, 12059-12069.	1.7	73
33	Measuring and Characterizing the Human Nasal Cycle. PLoS ONE, 2016, 11, e0162918.	1.1	73
34	The Prevalence of Androstenone Anosmia. Chemical Senses, 2003, 28, 423-432.	1.1	71
35	Olfactory Impairments in Patients with Unilateral Cerebellar Lesions Are Selective to Inputs from the Contralesional Nostril. Journal of Neuroscience, 2005, 25, 6362-6371.	1.7	68
36	A Specialized Odor Memory Buffer in Primary Olfactory Cortex. PLoS ONE, 2009, 4, e4965.	1.1	62

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37	The Influence of Odorants on Respiratory Patterns in Sleep. <i>Chemical Senses</i> , 2010, 35, 31-40.	1.1	62
38	Predicting Odor Pleasantness with an Electronic Nose. <i>PLoS Computational Biology</i> , 2010, 6, e1000740.	1.5	57
39	Sniffing enables communication and environmental control for the severely disabled. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14413-14418.	3.3	55
40	Relationship Between Odor Intensity Estimates and COVID-19 Prevalence Prediction in a Swedish Population. <i>Chemical Senses</i> , 2020, 45, 449-456.	1.1	53
41	A measure of smell enables the creation of olfactory metamers. <i>Nature</i> , 2020, 588, 118-123.	13.7	50
42	A social chemosignaling function for human handshaking. <i>ELife</i> , 2015, 4, .	2.8	50
43	Measuring smells. <i>Current Opinion in Neurobiology</i> , 2008, 18, 438-444.	2.0	48
44	Human Olfaction without Apparent Olfactory Bulbs. <i>Neuron</i> , 2020, 105, 35-45.e5.	3.8	48
45	A Comparison of Methods for Sniff Measurement Concurrent with Olfactory Tasks in Humans. <i>Chemical Senses</i> , 2006, 31, 795-806.	1.1	47
46	Odors enhance slow-wave activity in non-rapid eye movement sleep. <i>Journal of Neurophysiology</i> , 2016, 115, 2294-2302.	0.9	47
47	Individual olfactory perception reveals meaningful nonolfactory genetic information. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 8750-8755.	3.3	44
48	The Privileged Brain Representation of First Olfactory Associations. <i>Current Biology</i> , 2009, 19, 1869-1874.	1.8	43
49	The perceptual logic of smell. <i>Current Opinion in Neurobiology</i> , 2014, 25, 107-115.	2.0	43
50	Olfactory sniffing signals consciousness in unresponsive patients with brain injuries. <i>Nature</i> , 2020, 581, 428-433.	13.7	36
51	Local Targeted Memory Reactivation in Human Sleep. <i>Current Biology</i> , 2020, 30, 1435-1446.e5.	1.8	30
52	From Nose to Brain: Un-Sensed Electrical Currents Applied in the Nose Alter Activity in Deep Brain Structures. <i>Cerebral Cortex</i> , 2016, 26, 4180-4191.	1.6	27
53	Proof of concept for real-time detection of SARS CoV-2 infection with an electronic nose. <i>PLoS ONE</i> , 2021, 16, e0252121.	1.1	27
54	Neural Processing at the Speed of Smell. <i>Neuron</i> , 2004, 44, 744-747.	3.8	26

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55	The Scented Brain. <i>Neuron</i> , 2001, 31, 512-514.	3.8	25
56	Working memory across nostrils.. <i>Behavioral Neuroscience</i> , 2008, 122, 1031-1037.	0.6	25
57	Prediction Models for the Pleasantness of Binary Mixtures in Olfaction. <i>Chemical Senses</i> , 2008, 33, 599-609.	1.1	23
58	Olfactory perception as a compass for olfactory neural maps. <i>Trends in Cognitive Sciences</i> , 2011, 15, 537-545.	4.0	23
59	SmellSpace: An Odor-Based Social Network as a Platform for Collecting Olfactory Perceptual Data. <i>Chemical Senses</i> , 2019, 44, 267-278.	1.1	21
60	Detection of response to command using voluntary control of breathing in disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1020.	1.0	19
61	Sniffing patterns uncover implicit memory for undetected odors. <i>Current Biology</i> , 2014, 24, R263-R264.	1.8	19
62	Odorant Concentration Dependence in Electroolfactograms Recorded From the Human Olfactory Epithelium. <i>Journal of Neurophysiology</i> , 2009, 102, 2121-2130.	0.9	18
63	Are humans constantly but subconsciously smelling themselves?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190372.	1.8	18
64	Predicting the Receptive Range of Olfactory Receptors. <i>PLoS Computational Biology</i> , 2008, 4, e18.	1.5	16
65	Unexplained repeated pregnancy loss is associated with altered perceptual and brain responses to men's body-odor. <i>ELife</i> , 2020, 9, .	2.8	12
66	What's primary about primary olfactory cortex?. <i>Nature Neuroscience</i> , 2012, 15, 10-12.	7.1	11
67	Odorant similarity in the mouse olfactory bulb. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2916-E2917.	3.3	11
68	Mirror Sniffing: Humans Mimic Olfactory Sampling Behavior. <i>Chemical Senses</i> , 2014, 39, 277-281.	1.1	11
69	Smelling <i>Pseudomonas aeruginosa</i> infections using a whole-cell biosensor – An alternative for the gold-standard culturing assay. <i>Journal of Biotechnology</i> , 2018, 267, 45-49.	1.9	11
70	Sniffing the human body volatile hexadecanal blocks aggression in men but triggers aggression in women. <i>Science Advances</i> , 2021, 7, eabg1530.	4.7	11
71	There is chemistry in social chemistry. <i>Science Advances</i> , 2022, 8, .	4.7	11
72	An olfactory self-test effectively screens for COVID-19. <i>Communications Medicine</i> , 2022, 2, .	1.9	10

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73	Male Behavior by Knockout. <i>Neuron</i> , 2007, 55, 689-693.	3.8	9
74	Disinhibition of olfaction: Human olfactory performance improves following low levels of alcohol. <i>Behavioural Brain Research</i> , 2014, 272, 66-74.	1.2	8
75	Does a unique olfactory genome imply a unique olfactory world?. <i>Nature Neuroscience</i> , 2014, 17, 6-8.	7.1	8
76	Increased number of volatile organic compounds over malignant glottic lesions. <i>Laryngoscope</i> , 2016, 126, 1606-1611.	1.1	8
77	Revisiting the revisit: added evidence for a social chemosignal in human emotional tears. <i>Cognition and Emotion</i> , 2017, 31, 151-157.	1.2	8
78	Functional Neuroimaging of Human Olfaction. , 2003, , .		7
79	Odor Canopy: A Method for Comfortable Odorant Delivery in MRI. <i>Chemical Senses</i> , 2021, 46, .	1.1	6
80	An Assay for Human Chemosignals. <i>Methods in Molecular Biology</i> , 2013, 1068, 373-394.	0.4	6
81	Spatial Perception: Time Tells Where a Smell Comes From. <i>Current Biology</i> , 2010, 20, R563-R564.	1.8	5
82	Using a Sniff Controller to Self-Trigger Abdominal Functional Electrical Stimulation for Assisted Coughing Following Cervical Spinal Cord Lesions. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1461-1471.	2.7	5
83	Women Have Reduced Ability to Discriminate Body Odors During the Withdrawal Period of Oral Contraception. <i>Chemosensory Perception</i> , 2020, 13, 123-131.	0.7	5
84	Olfaction and Sleep. , 2017, , 111-112.		3
85	Learning to Smell: Olfactory Perception from Neurobiology to Behavior. By Donald A Wilson and , Richard J Stevenson. Baltimore (Maryland): Johns Hopkins University Press. \$80.00. xi + 309 p; ill.; index. ISBN: 0â€8018â€8368â€7. 2006.. <i>Quarterly Review of Biology</i> , 2007, 82, 178-179.	0.0	2
86	Multisensory integration: an inner tongue puts an outer nose in context. <i>Nature Neuroscience</i> , 2010, 13, 148-149.	7.1	2
87	Human Olfaction: A Typical Yet Special Mammalian Olfactory System. , 2014, , 177-202.		1
88	Human Olfactory Psychophysics. , 2008, , 823-857.		0
89	Looking at the Nose Through Human Behavior, and at Human Behavior Through the Nose. , 2013, , .		0
90	Corrigendum to: Relationship Between Odor Intensity Estimates and COVID-19 Prevalence Prediction in a Swedish Population. <i>Chemical Senses</i> , 2020, 45, 491-492.	1.1	0