

Noam Sobel

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

6,612
citations

66343

42
h-index

66911

78
g-index

100
all docs

100
docs citations

100
times ranked

4772
citing authors

#	ARTICLE	IF	CITATIONS
1	An olfactory self-test effectively screens for COVID-19. <i>Communications Medicine</i> , 2022, 2, .	4.2	10
2	There is chemistry in social chemistry. <i>Science Advances</i> , 2022, 8, .	10.3	11
3	Odor Canopy: A Method for Comfortable Odorant Delivery in MRI. <i>Chemical Senses</i> , 2021, 46, .	2.0	6
4	Proof of concept for real-time detection of SARS CoV-2 infection with an electronic nose. <i>PLoS ONE</i> , 2021, 16, e0252121.	2.5	27
5	Sniffing the human body volatile hexadecanal blocks aggression in men but triggers aggression in women. <i>Science Advances</i> , 2021, 7, eabg1530.	10.3	11
6	Human Olfaction without Apparent Olfactory Bulbs. <i>Neuron</i> , 2020, 105, 35-45.e5.	8.1	48
7	Women Have Reduced Ability to Discriminate Body Odors During the Withdrawal Period of Oral Contraception. <i>Chemosensory Perception</i> , 2020, 13, 123-131.	1.2	5
8	Corrigendum to: Relationship Between Odor Intensity Estimates and COVID-19 Prevalence Prediction in a Swedish Population. <i>Chemical Senses</i> , 2020, 45, 491-492.	2.0	0
9	A measure of smell enables the creation of olfactory metamers. <i>Nature</i> , 2020, 588, 118-123.	27.8	50
10	Local Targeted Memory Reactivation in Human Sleep. <i>Current Biology</i> , 2020, 30, 1435-1446.e5.	3.9	30
11	Olfactory sniffing signals consciousness in unresponsive patients with brain injuries. <i>Nature</i> , 2020, 581, 428-433.	27.8	36
12	Relationship Between Odor Intensity Estimates and COVID-19 Prevalence Prediction in a Swedish Population. <i>Chemical Senses</i> , 2020, 45, 449-456.	2.0	53
13	Are humans constantly but subconsciously smelling themselves?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190372.	4.0	18
14	Unexplained repeated pregnancy loss is associated with altered perceptual and brain responses to men's body-odor. <i>ELife</i> , 2020, 9, .	6.0	12
15	SmellSpace: An Odor-Based Social Network as a Platform for Collecting Olfactory Perceptual Data. <i>Chemical Senses</i> , 2019, 44, 267-278.	2.0	21
16	Human non-olfactory cognition phase-locked with inhalation. <i>Nature Human Behaviour</i> , 2019, 3, 501-512.	12.0	114
17	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.	3.8	11
18	Altered responses to social chemosignals in autism spectrum disorder. <i>Nature Neuroscience</i> , 2018, 21, 111-119.	14.8	78

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19	Revisiting the revisit: added evidence for a social chemosignal in human emotional tears. <i>Cognition and Emotion</i> , 2017, 31, 151-157.	2.0	8
20	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.	4.9	5
21	Olfaction and Sleep. , 2017, , 111-112.		3
22	Increased number of volatile organic compounds over malignant glottic lesions. <i>Laryngoscope</i> , 2016, 126, 1606-1611.	2.0	8
23	Odors enhance slow-wave activity in non-rapid eye movement sleep. <i>Journal of Neurophysiology</i> , 2016, 115, 2294-2302.	1.8	47
24	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.	2.9	27
25	Measuring and Characterizing the Human Nasal Cycle. <i>PLoS ONE</i> , 2016, 11, e0162918.	2.5	73
26	A Mechanistic Link between Olfaction and Autism Spectrum Disorder. <i>Current Biology</i> , 2015, 25, 1904-1910.	3.9	77
27	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.	7.1	44
28	A social chemosignaling function for human handshaking. <i>ELife</i> , 2015, 4, .	6.0	50
29	Detection of response to command using voluntary control of breathing in disorders of consciousness. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1020.	2.0	19
30	Disinhibition of olfaction: Human olfactory performance improves following low levels of alcohol. <i>Behavioural Brain Research</i> , 2014, 272, 66-74.	2.2	8
31	Mirror Sniffing: Humans Mimic Olfactory Sampling Behavior. <i>Chemical Senses</i> , 2014, 39, 277-281.	2.0	11
32	The perceptual logic of smell. <i>Current Opinion in Neurobiology</i> , 2014, 25, 107-115.	4.2	43
33	Olfactory Aversive Conditioning during Sleep Reduces Cigarette-Smoking Behavior. <i>Journal of Neuroscience</i> , 2014, 34, 15382-15393.	3.6	74
34	Does a unique olfactory genome imply a unique olfactory world?. <i>Nature Neuroscience</i> , 2014, 17, 6-8.	14.8	8
35	Sniffing patterns uncover implicit memory for undetected odors. <i>Current Biology</i> , 2014, 24, R263-R264.	3.9	19
36	Human Olfaction: A Typical Yet Special Mammalian Olfactory System. , 2014, , 177-202.		1

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37	Predicting Odor Perceptual Similarity from Odor Structure. PLoS Computational Biology, 2013, 9, e1003184.	3.2	92
38	Looking at the Nose Through Human Behavior, and at Human Behavior Through the Nose. , 2013, , .		0
39	An Assay for Human Chemosignals. Methods in Molecular Biology, 2013, 1068, 373-394.	0.9	6
40	What's primary about primary olfactory cortex?. Nature Neuroscience, 2012, 15, 10-12.	14.8	11
41	Odorant similarity in the mouse olfactory bulb. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2916-E2917.	7.1	11
42	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.	7.1	117
43	Humans can learn new information during sleep. Nature Neuroscience, 2012, 15, 1460-1465.	14.8	180
44	Human Tears Contain a Chemosignal. Science, 2011, 331, 226-230.	12.6	184
45	Olfactory perception as a compass for olfactory neural maps. Trends in Cognitive Sciences, 2011, 15, 537-545.	7.8	23
46	Neural activity at the human olfactory epithelium reflects olfactory perception. Nature Neuroscience, 2011, 14, 1455-1461.	14.8	86
47	Auditory aversive learning increases discrimination thresholds. Nature Neuroscience, 2011, 14, 791-796.	14.8	114
48	Human olfaction: a constant state of change-blindness. Experimental Brain Research, 2010, 205, 13-29.	1.5	150
49	Spatial Perception: Time Tells Where a Smell Comes From. Current Biology, 2010, 20, R563-R564.	3.9	5
50	Multisensory integration: an inner tongue puts an outer nose in context. Nature Neuroscience, 2010, 13, 148-149.	14.8	2
51	The Influence of Odorants on Respiratory Patterns in Sleep. Chemical Senses, 2010, 35, 31-40.	2.0	62
52	Predicting Odor Pleasantness with an Electronic Nose. PLoS Computational Biology, 2010, 6, e1000740.	3.2	57
53	Sniffing enables communication and environmental control for the severely disabled. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14413-14418.	7.1	55
54	An Odor is Not Worth a Thousand Words: From Multidimensional Odors to Unidimensional Odor Objects. Annual Review of Psychology, 2010, 61, 219-241.	17.7	355

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55	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.	3.6	86
56	A Specialized Odor Memory Buffer in Primary Olfactory Cortex. PLoS ONE, 2009, 4, e4965.	2.5	62
57	Odorant Concentration Dependence in Electroolfactograms Recorded From the Human Olfactory Epithelium. Journal of Neurophysiology, 2009, 102, 2121-2130.	1.8	18
58	Spared and Impaired Olfactory Abilities after Thalamic Lesions. Journal of Neuroscience, 2009, 29, 12059-12069.	3.6	73
59	The Privileged Brain Representation of First Olfactory Associations. Current Biology, 2009, 19, 1869-1874.	3.9	43
60	A metric for odorant comparison. Nature Methods, 2008, 5, 425-429.	19.0	212
61	Measuring smells. Current Opinion in Neurobiology, 2008, 18, 438-444.	4.2	48
62	Human Olfactory Psychophysics. , 2008, , 823-857.		0
63	Predicting the Receptive Range of Olfactory Receptors. PLoS Computational Biology, 2008, 4, e18.	3.2	16
64	Prediction Models for the Pleasantness of Binary Mixtures in Olfaction. Chemical Senses, 2008, 33, 599-609.	2.0	23
65	Working memory across nostrils.. Behavioral Neuroscience, 2008, 122, 1031-1037.	1.2	25
66	Predicting Odor Pleasantness from Odorant Structure: Pleasantness as a Reflection of the Physical World. Journal of Neuroscience, 2007, 27, 10015-10023.	3.6	345
67	Hedonic-Specific Activity in Piriform Cortex During Odor Imagery Mimics That During Odor Perception. Journal of Neurophysiology, 2007, 98, 3254-3262.	1.8	133
68	Male Behavior by Knockout. Neuron, 2007, 55, 689-693.	8.1	9
69	Mechanisms of scent-tracking in humans. Nature Neuroscience, 2007, 10, 27-29.	14.8	292
70	Smelling a Single Component of Male Sweat Alters Levels of Cortisol in Women. Journal of Neuroscience, 2007, 27, 1261-1265.	3.6	180
71	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.. Quarterly Review of Biology, 2007, 82, 178-179.	0.1	2
72	Methods for building an olfactometer with known concentration outcomes. Journal of Neuroscience Methods, 2007, 160, 231-245.	2.5	74

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73	The Sniff Is Part of the Olfactory Percept. Chemical Senses, 2006, 31, 181-196.	2.0	317
74	A Comparison of Methods for Sniff Measurement Concurrent with Olfactory Tasks in Humans. Chemical Senses, 2006, 31, 795-806.	2.0	47
75	Attentional modulation in human primary olfactory cortex. Nature Neuroscience, 2005, 8, 114-120.	14.8	241
76	Olfactory Impairments in Patients with Unilateral Cerebellar Lesions Are Selective to Inputs from the Contralateral Nostril. Journal of Neuroscience, 2005, 25, 6362-6371.	3.6	68
77	Brain Mechanisms for Extracting Spatial Information from Smell. Neuron, 2005, 47, 581-592.	8.1	164
78	Humans as an Animal Model for Systems-Level Organization of Olfaction. Neuron, 2005, 48, 431-454.	8.1	102
79	Neural Processing at the Speed of Smell. Neuron, 2004, 44, 744-747.	8.1	26
80	Olfactomotor activity during imagery mimics that during perception. Nature Neuroscience, 2003, 6, 1142-1144.	14.8	156
81	Dissociating Intensity from Valence as Sensory Inputs to Emotion. Neuron, 2003, 39, 581-583.	8.1	79
82	The Prevalence of Androstenone Anosmia. Chemical Senses, 2003, 28, 423-432.	2.0	71
83	Rapid Olfactory Processing Implicates Subcortical Control of an Olfactomotor System. Journal of Neurophysiology, 2003, 90, 1084-1094.	1.8	137
84	Functional Neuroimaging of Human Olfaction. , 2003, , .		7
85	One nostril knows what the other learns. Nature, 2002, 419, 802-802.	27.8	84
86	The Scented Brain. Neuron, 2001, 31, 512-514.	8.1	25
87	Time Course of Odorant-Induced Activation in the Human Primary Olfactory Cortex. Journal of Neurophysiology, 2000, 83, 537-551.	1.8	276
88	Blind smell: brain activation induced by an undetected air-borne chemical. Brain, 1999, 122, 209-217.	7.6	194
89	The world smells different to each nostril. Nature, 1999, 402, 35-35.	27.8	147
90	Odorant-Induced and Sniff-Induced Activation in the Cerebellum of the Human. Journal of Neuroscience, 1998, 18, 8990-9001.	3.6	221