Philippe G Schyns

List of Publications by Year
in descending order

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156 papers	13,967 citations	38720 50 h-index	22808 112 g-index

171 all docs	171 docs citations	171 times ranked	8650 citing authors

#	Article	IF	Citations
1	A mechanism for impaired fear recognition after amygdala damage. Nature, 2005, 433, 68-72.	13.7	1,193
2	The development of features in object concepts. Behavioral and Brain Sciences, 1998, 21, 1-17.	0.4	768
3	Facial expressions of emotion are not culturally universal. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7241-7244.	3.3	597
4	Bubbles: a technique to reveal the use of information in recognition tasks. Vision Research, 2001, 41, 2261-2271.	0.7	588
5	Transmitting and Decoding Facial Expressions. Psychological Science, 2005, 16, 184-189.	1.8	585
6	Speech Rhythms and Multiplexed Oscillatory Sensory Coding in the Human Brain. PLoS Biology, 2013, 11, e1001752.	2.6	502
7	Rhythmic TMS Causes Local Entrainment of Natural Oscillatory Signatures. Current Biology, 2011, 21, 1176-1185.	1.8	462
8	Entrainment of Perceptually Relevant Brain Oscillations by Non-Invasive Rhythmic Stimulation of the Human Brain. Frontiers in Psychology, 2011, 2, 170.	1.1	451
9	Dr. Angry and Mr. Smile: when categorization flexibly modifies the perception of faces in rapid visual presentations. Cognition, 1999, 69, 243-265.	1.1	411
10	Show Me the Features! Understanding Recognition From the Use of Visual Information. Psychological Science, 2002, 13, 402-409.	1.8	410
11	Cultural Confusions Show that Facial Expressions Are Not Universal. Current Biology, 2009, 19, 1543-1548.	1.8	402
12	Coarse Blobs or Fine Edges? Evidence That Information Diagnosticity Changes the Perception of Complex Visual Stimuli. Cognitive Psychology, 1997, 34, 72-107.	0.9	395
13	Diagnostic Colors Mediate Scene Recognition. Cognitive Psychology, 2000, 41, 176-210.	0.9	355
14	Dynamic Facial Expressions of Emotion Transmit an Evolving Hierarchy of Signals over Time. Current Biology, 2014, 24, 187-192.	1.8	345
15	Frontal Top-Down Signals Increase Coupling of Auditory Low-Frequency Oscillations to Continuous Speech in Human Listeners. Current Biology, 2015, 25, 1649-1653.	1.8	309
16	Dynamics of Visual Information Integration in the Brain for Categorizing Facial Expressions. Current Biology, 2007, 17, 1580-1585.	1.8	226
17	A statistical framework for neuroimaging data analysis based on mutual information estimated via a gaussian copula. Human Brain Mapping, 2017, 38, 1541-1573.	1.9	225
18	Information and viewpoint dependence in face recognition. Cognition, 1997, 62, 201-222.	1.1	221

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19	The Human Face as a Dynamic Tool for Social Communication. Current Biology, 2015, 25, R621-R634.	1.8	219
20	Diagnostic recognition: task constraints, object information, and their interactions. Cognition, 1998, 67, 147-179.	1.1	213
21	Categorization creates functional features.. Journal of Experimental Psychology: Learning Memory and Cognition, 1997, 23, 681-696.	0.7	203
22	Internal representations reveal cultural diversity in expectations of facial expressions of emotion.. Journal of Experimental Psychology: General, 2012, 141, 19-25.	1.5	195
23	Usage of spatial scales for the categorization of faces, objects, and scenes. Psychonomic Bulletin and Review, 2001, 8, 454-469.	1.4	189
24	Does Prosopagnosia Take the Eyes Out of Face Representations? Evidence for a Defect in Representing Diagnostic Facial Information following Brain Damage. Journal of Cognitive Neuroscience, 2005, 17, 1652-1666.	1.1	174
25	Accurate statistical tests for smooth classification images. Journal of Vision, 2005, 5, 1.	0.1	162
26	Superstitious Perceptions Reveal Properties of Internal Representations. Psychological Science, 2003, 14, 505-509.	1.8	161
27	Four not six: Revealing culturally common facial expressions of emotion.. Journal of Experimental Psychology: General, 2016, 145, 708-730.	1.5	158
28	Rhythmic TMS over Parietal Cortex Links Distinct Brain Frequencies to Global versus Local Visual Processing. Current Biology, 2011, 21, 334-337.	1.8	156
29	Channel surfing in the visual brain. Trends in Cognitive Sciences, 2006, 10, 538-545.	4.0	128
30	Smile Through Your Fear and Sadness. Psychological Science, 2009, 20, 1202-1208.	1.8	128
31	Cracking the Code of Oscillatory Activity. PLoS Biology, 2011, 9, e1001064.	2.6	126
32	Toward a Social Psychophysics of Face Communication. Annual Review of Psychology, 2017, 68, 269-297.	9.9	122
33	A Modular Neural Network Model of Concept Acquisition. Cognitive Science, 1991, 15, 461-508.	0.8	118
34	Functional Smiles: Tools for Love, Sympathy, and War. Psychological Science, 2017, 28, 1259-1270.	1.8	117
35	Spatio-temporal dynamics of face recognition in a flash: itÊ¼s in the eyes. Cognitive Science, 2004, 28, 289-301.	0.8	114
36	Transmission of Facial Expressions of Emotion Co-Evolved with Their Efficient Decoding in the Brain: Behavioral and Brain Evidence. PLoS ONE, 2009, 4, e5625.	1.1	101

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37	Perception-driven facial expression synthesis. Computers and Graphics, 2012, 36, 152-162.	1.4	100
38	Diagnostic colours contribute to the early stages of scene categorization: Behavioural and neurophysiological evidence. Visual Cognition, 2005, 12, 878-892.	0.9	99
39	Scale invariant adaptation in fusiform face-responsive regions. NeuroImage, 2004, 22, 232-242.	2.1	95
40	Blind to Object Changes: When Learning the Same Object at Different Levels of Categorization Modifies Its Perception. Psychological Science, 1999, 10, 249-255.	1.8	93
41	A principled method for determining the functionality of brain responses. NeuroReport, 2003, 14, 1665-1669.	0.6	87
42	Receptive Fields for Flexible Face Categorizations. Psychological Science, 2004, 15, 753-761.	1.8	84
43	Flexible, Diagnosticity-Driven, Rather Than Fixed, Perceptually Determined Scale Selection in Scene and Face Recognition. Perception, 1997, 26, 1027-1038.	0.5	83
44	Controlling interstimulus perceptual variance does not abolish N170 face sensitivity. Nature Neuroscience, 2007, 10, 801-802.	7.1	77
45	Distinct facial expressions represent pain and pleasure across cultures. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10013-E10021.	3.3	77
46	Measuring Internal Representations from Behavioral and Brain Data. Current Biology, 2012, 22, 191-196.	1.8	76
47	Is high-spatial frequency information used in the early stages of face detection?. Brain Research, 2006, 1117, 154-161.	1.1	75
48	Causal implication by rhythmic transcranial magnetic stimulation of alpha frequency in featureâ€based local vs. global attention. European Journal of Neuroscience, 2012, 35, 968-974.	1.2	71
49	Contributions of local speech encoding and functional connectivity to audio-visual speech perception. ELife, 2017, 6, .	2.8	71
50	Perceptual moments of conscious visual experience inferred from oscillatory brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5626-5631.	3.3	66
51	Nonaccidental Properties Underlie Shape Recognition in Mammalian and Nonmammalian Vision. Current Biology, 2007, 17, 336-340.	1.8	54
52	Representational interactions during audiovisual speech entrainment: Redundancy in left posterior superior temporal gyrus and synergy in left motor cortex. PLoS Biology, 2018, 16, e2006558.	2.6	54
53	The use of visual information in natural scenes. Visual Cognition, 2005, 12, 938-953.	0.9	53
54	RAP: a new framework for visual categorization. Trends in Cognitive Sciences, 2002, 6, 70-77.	4.0	50

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55	Information processing algorithms in the brain. Trends in Cognitive Sciences, 2009, 13, 20-26.	4.0	50
56	Applying Bubbles to Localize Features That Control Pigeons' Visual Discrimination Behavior.. Journal of Experimental Psychology, 2005, 31, 376-382.	1.9	48
57	Tracing the Flow of Perceptual Features in an Algorithmic Brain Network. Scientific Reports, 2016, 5, 17681.	1.6	47
58	Facial Movements Strategically Camouflage Involuntary Social Signals of Face Morphology. Psychological Science, 2014, 25, 1079-1086.	1.8	46
59	The Deceptively Simple N170 Reflects Network Information Processing Mechanisms Involving Visual Feature Coding and Transfer Across Hemispheres. Cerebral Cortex, 2016, 26, 4123-4135.	1.6	45
60	Why do we SLIP to the basic level? Computational constraints and their implementation.. Psychological Review, 2001, 108, 735-758.	2.7	42
61	Dynamics of Trimming the Content of Face Representations for Categorization in the Brain. PLoS Computational Biology, 2009, 5, e1000561.	1.5	42
62	Reconstructing dynamic mental models of facial expressions in prosopagnosia reveals distinct representations for identity and expression. Cortex, 2015, 65, 50-64.	1.1	41
63	Spatio-temporal dynamics of face recognition in a flash: it's in the eyes. Cognitive Science, 2004, 28, 289-301.	0.8	40
64	Eye coding mechanisms in early human face event-related potentials. Journal of Vision, 2014, 14, 7-7.	0.1	40
65	Dynamic Construction of Reduced Representations in the Brain for Perceptual Decision Behavior. Current Biology, 2019, 29, 319-326.e4.	1.8	40
66	From a face to its category via a few information processing states in the brain. NeuroImage, 2007, 37, 974-984.	2.1	37
67	No troubles with bubbles: a reply to Murray and Gold. Vision Research, 2004, 44, 471-477.	0.7	35
68	Specific, selective or preferential: Comments on category specificity in neuroimaging. NeuroImage, 2007, 35, 991-997.	2.1	35
69	Decoding face categories in diagnostic subregions of primary visual cortex. European Journal of Neuroscience, 2013, 37, 1130-1139.	1.2	35
70	Understanding Dali's Slave Market with the Disappearing Bust of Voltaire: A Case Study in the Scale Information Driving Perception. Perception, 2002, 31, 683-691.	0.5	33
71	The interplay between perceptual organization and categorization in the representation of complex visual patterns by young infants. Journal of Experimental Child Psychology, 2006, 95, 117-127.	0.7	31
72	Early selection of diagnostic facial information in the human visual cortex. Vision Research, 2006, 46, 800-813.	0.7	28

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73	Within-participant statistics for cognitive science. Trends in Cognitive Sciences, 2022, 26, 626-630.	4.0	28
74	Beyond Gist. Psychological Science, 2014, 25, 1087-1097.	1.8	27
75	Bayesian inference of population prevalence. ELife, 2021, 10, .	2.8	27
76	Stimulus features coded by single neurons of a macaque body category selective patch. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2450-9.	3.3	26
77	Modelling face memory reveals task-generalizable representations. Nature Human Behaviour, 2019, 3, 817-826.	6.2	26
78	Look whoâ€™s talking: pre-verbal infantsâ€™ perception of face-to-face and back-to-back social interactions. Frontiers in Psychology, 2010, 1, 159.	1.1	26
79	Space-by-time manifold representation of dynamic facial expressions for emotion categorization. Journal of Vision, 2016, 16, 14.	0.1	24
80	Reverse Engineering Psychologically Valid Facial Expressions of Emotion into Social Robots. , 2018, , .		24
81	What goes up may come down: perceptual process and knowledge access in the organization of complex visual patterns by young infants. Cognitive Science, 2003, 27, 923-935.	0.8	23
82	With Age Comes Representational Wisdom in Social Signals. Current Biology, 2014, 24, 2792-2796.	1.8	23
83	Classification images reveal the information sensitivity of brain voxels in fMRI. NeuroImage, 2008, 40, 1643-1654.	2.1	19
84	Equipping social robots with culturally-sensitive facial expressions of emotion using data-driven methods. , 2019, , .		19
85	Modeling individual preferences reveals that face beauty is not universally perceived across cultures. Current Biology, 2021, 31, 2243-2252.e6.	1.8	19
86	Attention enhances feature integration. Vision Research, 2003, 43, 1793-1798.	0.7	18
87	Space-by-time decomposition for single-trial decoding of M/EEG activity. NeuroImage, 2016, 133, 504-515.	2.1	18
88	Revealing the information contents of memory within the stimulus information representation framework. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190705.	1.8	18
89	Grounding deep neural network predictions of human categorization behavior in understandable functional features: The case of face identity. Patterns, 2021, 2, 100348.	3.1	18
90	Retinotopic sensitisation to spatial scale: Evidence for flexible spatial frequency processing in scene perception. Vision Research, 2006, 46, 1108-1119.	0.7	16

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91	Using â€œBubblesâ€•with babies: A new technique for investigating the informational basis of infant perception. , 2006, 29, 471-475.		16
92	Categories and percepts: a bi-directionnal framework for categorization. Trends in Cognitive Sciences, 1997, 1, 183-189.	4.0	15
93	Learning to Bridge Between Perception and Cognition. Psychology of Learning and Motivation - Advances in Research and Theory, 1997, 36, 1-14.	0.5	13
94	Expectancy effects on spatial frequency processing. Vision Research, 2003, 43, 2759-2772.	0.7	13
95	Personal familiarity enhances sensitivity to horizontal structure during processing of face identity. Journal of Vision, 2017, 17, 5.	0.1	13
96	Facial expressions elicit multiplexed perceptions of emotion categories and dimensions. Current Biology, 2022, 32, 200-209.e6.	1.8	13
97	A picture is worth thousands of trials: rendering the use of visual information from spiking neurons to recognition. Cognitive Science, 2004, 28, 141-146.	0.8	12
98	Visual Object Categorization in the Brain: What Can We Really Learn from ERP Peaks?. Frontiers in Human Neuroscience, 2011, 5, 156.	1.0	12
99	Efficient bubbles for visual categorization tasks. Vision Research, 2011, 51, 1318-1323.	0.7	12
100	Facial Expression Aftereffect Revealed by Adaption to Emotion-Invisible Dynamic Bubbled Faces. PLoS ONE, 2015, 10, e0145877.	1.1	12
101	Emotion perception in habitual players of action video games.. Emotion, 2021, 21, 1324-1339.	1.5	12
102	A framework for automatic and perceptually valid facial expression generation. Multimedia Tools and Applications, 2015, 74, 9427-9447.	2.6	11
103	The Face is the Mirror of the Cultural Mind. Journal of Vision, 2015, 15, 928.	0.1	11
104	Top-down attentional modulation of spatial frequency processing in scene perception. Visual Cognition, 2005, 12, 925-937.	0.9	9
105	Grand challenges in perception science: modeling the future. Frontiers in Psychology, 2010, 1, 10.	1.1	9
106	Healthy aging delays the neural processing of face features relevant for behavior by 40â€‰ms. Human Brain Mapping, 2020, 41, 1212-1225.	1.9	6
107	Different computations over the same inputs produce selective behavior in algorithmic brain networks. ELife, 2022, 11, .	2.8	6
108	Ways of featuring in object categorization. Behavioral and Brain Sciences, 1998, 21, 41-54.	0.4	5

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109	Using Psychophysical Methods to Understand Mechanisms of Face Identification in a Deep Neural Network. , 2018, , .		5
110	Speech Rhythms and Multiplexed Oscillatory Sensory Coding in the Human Brain. PLoS Biology, 2013, 11, e1001752.	2.6	5
111	Facial Expressions of Pain and Pleasure are Highly Distinct. Journal of Vision, 2016, 16, 210.	0.1	5
112	You are about to see pictorial representations!. Behavioral and Brain Sciences, 2002, 25, 191-192.	0.4	3
113	Reply to Sauter and Eisner: Differences outweigh commonalities in the communication of emotions across human cultures. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E181-2.	3.3	3
114	Object Recognition: Complexity of Recognition Strategies. Current Biology, 2018, 28, R313-R315.	1.8	3
115	Facial Expressions Reveal Cross-Cultural Variance in Emotion Signaling. Journal of Vision, 2021, 21, 2500.	0.1	3
116	Multidirectional strain sensor using multimaterial 3D printing. , 2022, , .		3
117	Mapping Dynamic Conversational Facial Expressions Across Cultures. Journal of Vision, 2017, 17, 834.	0.1	2
118	Social trait perception is structured by a latent composition of 3D face features. Journal of Vision, 2020, 20, 1365.	0.1	2
119	Facial expressions of emotion include iconic signals of rejection and acceptance. Journal of Vision, 2021, 21, 2932.	0.1	1
120	Semantic Decoding of Affective Face Signals in the Brain is Temporally Distinct. Journal of Vision, 2021, 21, 2589.	0.1	1
121	The N170 is mostly sensitive to pixels in the contralateral eye area. Journal of Vision, 2015, 15, 687.	0.1	1
122	Psychologically Valid Social Face Features for Virtual Agents. , 2020, , .		1
123	The case for cognitive penetrability. Behavioral and Brain Sciences, 1999, 22, 394-395.	0.4	0
124	Functional identification of constraints on feature creation. Behavioral and Brain Sciences, 2001, 24, 1147-1148.	0.4	0
125	Inverse mapping the neuronal correlates of facial expression processing. , 2008, , .		0
126	Vision: Face-Centered Representations in the Brain. Current Biology, 2020, 30, R1277-R1278.	1.8	0

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127	Facial Expressions of Emotion Transmit Multiplexed Signals of Categorical and Dimensional Information. SSRN Electronic Journal, 0, , .	0.4	0
128	Brain networks dynamically represent and transfer behaviorally-relevant face and object features but quickly reduce them when they are behaviorally-irrelevant. Journal of Vision, 2021, 21, 2178.	0.1	0
129	Bayesian inference of population prevalence. Journal of Vision, 2021, 21, 1970.	0.1	0
130	Dynamic representation of information prediction in the brain. Journal of Vision, 2021, 21, 2247.	0.1	0
131	Modelling individual preferences reveals that face beauty is not universally perceived across cultures. Journal of Vision, 2021, 21, 2739.	0.1	0
132	Brain networks dynamically resolve basic algorithmic functions with task-specific strategies. Journal of Vision, 2021, 21, 2020.	0.1	0
133	Social Trait Facial Expressions Comprise Latent Affective Facial Signals. Journal of Vision, 2021, 21, 1988.	0.1	0
134	Bubble-Warp: a New Approach to the Depiction of High-Level Mental Representation. Journal of Vision, 2015, 15, 420.	0.1	0
135	Face inversion does not affect the information content coded during the N170. Journal of Vision, 2015, 15, 155.	0.1	0
136	Reconstructing a representational space of learned faces. Journal of Vision, 2015, 15, 700.	0.1	0
137	Processing of the same face features is delayed by 40 ms, weaker and differentially coded across hemispheres in healthy ageing. Journal of Vision, 2015, 15, 688.	0.1	0
138	The deceptively simple N170 hides a complex diagnostic coding mechanism involving visual feature transfer across hemispheres.. Journal of Vision, 2015, 15, 749.	0.1	0
139	Personal familiarity enhances sensitivity to horizontal structure during face identification. Journal of Vision, 2016, 16, 912.	0.1	0
140	Visualizing the Information Content of 3D Face Memory in Individual Participants. Journal of Vision, 2016, 16, 211.	0.1	0
141	Objective Analysis of the Subjective Information Contents of Memory of Familiar Faces. Journal of Vision, 2017, 17, 916.	0.1	0
142	Dynamic Integration of Visual and Categorization Relevant Information in the Ventral Stream. Journal of Vision, 2017, 17, 1264.	0.1	0
143	Using Psychophysical Methods to Study Face Identification in a Deep Neural Network. Journal of Vision, 2017, 17, 248.	0.1	0
144	Automaticity of scene understanding may not extend to highly associated actions or objects. Journal of Vision, 2018, 18, 381.	0.1	0

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145	Transfer of Diagnostic Features from Occipital Cortex to right Fusiform Gyrus for Perceptual Decisions. Journal of Vision, 2018, 18, 736.	0.1	0
146	Dynamic Construction of Feature-Based Representations for Perceptual Decisions in the Occipito-Ventral Pathway. Journal of Vision, 2018, 18, 735.	0.1	0
147	Understanding Information Processing Mechanisms for Face Categorizations in Deep Neural Networks. Journal of Vision, 2018, 18, 155.	0.1	0
148	Task-Dependent Information Compression in Face, Object and Scene Categorization. Journal of Vision, 2018, 18, 325.	0.1	0
149	Deep Neural Network Identifies Dynamic Facial Action Units from Image Sequences. Journal of Vision, 2018, 18, 606.	0.1	0
150	Emotion-specific categorization-relevant information reconstructed from Right and Left Fusiform Gyri. Journal of Vision, 2018, 18, 914.	0.1	0
151	A Generative Model of Cultural Face Attractiveness. , 2020, , .		0
152	Representation of information prediction in the brain. Journal of Vision, 2020, 20, 1044.	0.1	0
153	Face movements temporally decouple the transmission of emotion category and intensity information. Journal of Vision, 2020, 20, 686.	0.1	0
154	The effects of familiarisation on information sampling and task performance. Journal of Vision, 2020, 20, 1775.	0.1	0
155	Spatiotemporal dynamics of a nonlinear algorithmic primitive (XOR) in brain networks. Journal of Vision, 2020, 20, 721.	0.1	0
156	Emotion Categories are Represented by a 2-Dimensional Valence-Arousal Space. Journal of Vision, 2020, 20, 1224.	0.1	0