

# Gregory Francis

## List of Publications by Year in descending order

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106  
papers

2,387  
citations

257450

24  
h-index

233421

45  
g-index

114  
all docs

114  
docs citations

114  
times ranked

1491  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Psychology of Replication and Replication in Psychology. <i>Perspectives on Psychological Science</i> , 2012, 7, 585-594.	9.0	172
2	Too good to be true: Publication bias in two prominent studies from experimental psychology. <i>Psychonomic Bulletin and Review</i> , 2012, 19, 151-156.	2.8	160
3	Publication bias and the failure of replication in experimental psychology. <i>Psychonomic Bulletin and Review</i> , 2012, 19, 975-991.	2.8	159
4	Cortical dynamics of feature binding and reset: Control of visual persistence. <i>Vision Research</i> , 1994, 34, 1089-1104.	1.4	155
5	Cortical dynamics of lateral inhibition: Metacontrast masking.. <i>Psychological Review</i> , 1997, 104, 572-594.	3.8	123
6	Cortical dynamics of form and motion integration: Persistence, apparent motion, and illusory contours. <i>Vision Research</i> , 1996, 36, 149-173.	1.4	113
7	Cortical Dynamics of Boundary Segmentation and Reset: Persistence, Afterimages, and Residual Traces. <i>Perception</i> , 1996, 25, 543-567.	1.2	92
8	Replication, statistical consistency, and publication bias. <i>Journal of Mathematical Psychology</i> , 2013, 57, 153-169.	1.8	92
9	The frequency of excess success for articles in <i>Psychological Science</i> . <i>Psychonomic Bulletin and Review</i> , 2014, 21, 1180-1187.	2.8	77
10	About individual differences in vision. <i>Vision Research</i> , 2017, 141, 282-292.	1.4	77
11	Quantitative theories of metacontrast masking.. <i>Psychological Review</i> , 2000, 107, 768-785.	3.8	71
12	Equivalent statistics and data interpretation. <i>Behavior Research Methods</i> , 2017, 49, 1524-1538.	4.0	44
13	Neural dynamics of grouping and segmentation explain properties of visual crowding.. <i>Psychological Review</i> , 2017, 124, 483-504.	3.8	43
14	Excess Success for Psychology Articles in the <i>Journal Science</i> . <i>PLoS ONE</i> , 2014, 9, e114255.	2.5	40
15	Beyond Bouma's window: How to explain global aspects of crowding?. <i>PLoS Computational Biology</i> , 2019, 15, e1006580.	3.2	38
16	Testing quantitative models of backward masking. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 104-112.	2.8	35
17	Publication bias in "Red, rank, and romance in women viewing men," by Elliot et al. (2010).. <i>Journal of Experimental Psychology: General</i> , 2013, 142, 292-296.	2.1	34
18	Comment on "Competition for consciousness among visual events: The psychophysics of reentrant visual processes" (Di Lollo, Enns & Rensink, 2000).. <i>Journal of Experimental Psychology: General</i> , 2002, 131, 590-593.	2.1	33

#	ARTICLE	IF	CITATIONS
19	What is the strength of a mask in visual metacontrast masking?. Journal of Vision, 2007, 7, 7.	0.3	32
20	Evidence that publication bias contaminated studies relating social class and unethical behavior. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1587; author reply E1588.	7.1	29
21	Developing a new quantitative account of backward masking. Cognitive Psychology, 2003, 46, 198-226.	2.2	28
22	A Computational and Perceptual Account of Motion Lines. Perception, 1998, 27, 785-797.	1.2	27
23	The Same Old New Look: Publication Bias in a Study of Wishful Seeing. I-Perception, 2012, 3, 176-178.	1.4	26
24	Factors underlying visual illusions are illusion-specific but not feature-specific. Journal of Vision, 2019, 19, 12.	0.3	26
25	Too Much Success for Recent Groundbreaking Epigenetic Experiments. Genetics, 2014, 198, 449-451.	2.9	25
26	Applying models of visual search to menu design. International Journal of Human Computer Studies, 2002, 56, 307-330.	5.6	24
27	Effects of temporal integration on the shape of visual backward masking functions.. Journal of Experimental Psychology: Human Perception and Performance, 2008, 34, 1116-1128.	0.9	24
28	Attentional effects on afterimages: Theory and data. Vision Research, 2007, 47, 2249-2258.	1.4	22
29	Cortical dynamics of visual persistence and temporal integration. Perception & Psychophysics, 1996, 58, 1203-1212.	2.3	20
30	A new look at binocular stereopsis. Vision Research, 2005, 45, 2244-2255.	1.4	20
31	Visual masking and the dynamics of human perception, cognition, and consciousness: &i>A century of progress, a contemporary synthesis, and future directions&i>. Advances in Cognitive Psychology, 2007, 3, 1-8.	0.5	20
32	Designing Multifunction Displays: An Optimization Approach. International Journal of Cognitive Ergonomics, 2000, 4, 107-124.	0.2	20
33	Motion Parallel to Line Orientation: Disambiguation of Motion Percepts. Perception, 1999, 28, 1243-1255.	1.2	17
34	Interactions of afterimages for orientation and color: Experimental data and model simulations. Perception & Psychophysics, 2003, 65, 508-522.	2.3	17
35	Testing models of object substitution with backward masking. Perception & Psychophysics, 2007, 69, 263-275.	2.3	17
36	Visual crowding illustrates the inadequacy of local vs. global and feedforward vs. feedback distinctions in modeling visual perception. Frontiers in Psychology, 2014, 5, 1193.	2.1	17

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37	Visual Masking. , 2014, , 1-108.		17
38	Modeling filling-in of afterimages. Attention, Perception, and Psychophysics, 2010, 72, 19-22.	1.3	16
39	Cortical dynamics of lateral inhibition: Visual persistence and ISI. Perception & Psychophysics, 1996, 58, 1103-1109.	2.3	15
40	Perceived motion in orientational afterimages: direction and speed. Vision Research, 2001, 41, 161-172.	1.4	13
41	Using afterimages to test neural mechanisms for perceptual filling-in. Neural Networks, 2004, 17, 737-752.	5.9	13
42	The Time Course of Visual Afterimages: Data and Theory. Perception, 2006, 35, 1155-1170.	1.2	13
43	Color selection, color capture, and afterimage filling-in. Journal of Vision, 2011, 11, 23-23.	0.3	13
44	Using a model of human visual perception to improve deep learning. Neural Networks, 2018, 104, 40-49.	5.9	13
45	Cortical dynamics of figure-ground segmentation: Shine-through. Vision Research, 2009, 49, 140-163.	1.4	12
46	Release of crowding by pattern completion. Journal of Vision, 2015, 15, 16.	0.3	12
47	Comment on "Competition for consciousness among visual events: the psychophysics of reentrant visual processes" (Di Lollo, Enns, & Rensink, 2000). Journal of Experimental Psychology: General, 2002, 131, 590-3; discussion 594-6.	2.1	12
48	Spatial frequency and visual persistence: Cortical reset. Spatial Vision, 1999, 12, 31-50.	1.4	11
49	Analysis and test of laws for backward (metacontrast) masking. Spatial Vision, 2004, 17, 163-185.	1.4	11
50	Using afterimages for orientation and color to explore mechanisms of visual filling-in. Perception & Psychophysics, 2005, 67, 383-397.	2.3	11
51	Choosing Colors for Map Display Icons Using Models of Visual Search. Human Factors, 2013, 55, 373-396.	3.5	11
52	Running Large-Scale Simulations on the Neurorobotics Platform to Understand Vision – The Case of Visual Crowding. Frontiers in Neurorobotics, 2019, 13, 33.	2.8	11
53	Shrinking Bouma’s window: How to model crowding in dense displays. PLoS Computational Biology, 2021, 17, e1009187.	3.2	11
54	Java experiments for introductory cognitive psychology courses. Behavior Research Methods, 1999, 31, 99-106.	1.3	10

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55	Retinal spatiotemporal dynamics on emergence of visual persistence and afterimages.. Psychological Review, 2019, 126, 374-394.	3.8	10
56	The roles of mask luminance and perceptual grouping in visual backward masking. Journal of Vision, 2009, 9, 22-22.	0.3	9
57	We should focus on the biases that matter: A reply to commentaries. Journal of Mathematical Psychology, 2013, 57, 190-195.	1.8	9
58	What should a quantitative model of masking look like and why would we want it?. Advances in Cognitive Psychology, 2007, 3, 21-31.	0.5	9
59	Excess success in articles on object-based attention. Attention, Perception, and Psychophysics, 2022, 84, 700-714.	1.3	9
60	When illusions merge. Journal of Vision, 2020, 20, 12.	0.3	8
61	On-line simulations of models for backward masking. Behavior Research Methods, 2003, 35, 512-519.	1.3	7
62	Combining simultaneous with temporal masking.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 977-988.	0.9	7
63	Speedâ€œaccuracy tradeoffs in specialized keyboards. International Journal of Human Computer Studies, 2011, 69, 526-538.	5.6	7
64	Orientation tuning of a two-stimulus afterimage: Implications for theories of filling-in. Advances in Cognitive Psychology, 2007, 3, 375-387.	0.5	7
65	Perceived motion in complementary afterimages: verification of a neural network theory. Spatial Vision, 2000, 13, 67-86.	1.4	6
66	Building and Testing Optimized Keyboards for Specific Text Entry. Human Factors, 2006, 48, 279-287.	3.5	6
67	Applying models of visual search to map display design. International Journal of Human Computer Studies, 2008, 66, 67-77.	5.6	6
68	Reversing Bonferroni. Psychonomic Bulletin and Review, 2021, 28, 788-794.	2.8	6
69	The black hole illusion: A neglected source of aviation accidents. International Journal of Industrial Ergonomics, 2022, 87, 103235.	2.6	6
70	Replication Initiative: Beware Misinterpretation. Science, 2012, 336, 802-802.	12.6	5
71	Excess Success in â€œRay of hope: Hopelessness Increases Preferences for Brighter Lightingâ€œ. Collabra: Psychology, 2019, 5, .	1.8	5
72	Cortical circuits for top-down control of perceptual grouping. Neural Networks, 2022, 151, 190-210.	5.9	5

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73	Properties of Long-Range Illusory Contours Produced by Offset-Arcs. <i>Perception</i> , 2010, 39, 1466-1475.	1.2	4
74	The psychological four-color mapping problem.. <i>Journal of Experimental Psychology: Applied</i> , 2010, 16, 109-123.	1.2	4
75	Implications of "Too Good to Be True" for Replication, Theoretical Claims, and Experimental Design: An Example Using Prominent Studies of Racial Bias. <i>Frontiers in Psychology</i> , 2016, 7, 1382.	2.1	4
76	Equivalent statistics for a one-sample t-test. <i>Behavior Research Methods</i> , 2023, 55, 77-84.	4.0	4
77	Neural network dynamics of cortical inhibition: Metacontrast masking. <i>Information Sciences</i> , 1998, 107, 287-296.	6.9	3
78	Testing dynamical models of vision. <i>Vision Research</i> , 2011, 51, 343-351.	1.4	3
79	Simulations of induced visual scene fading with boundary offset and filling-in. <i>Vision Research</i> , 2012, 62, 181-191.	1.4	3
80	Excess success for three related papers on racial bias. <i>Frontiers in Psychology</i> , 2015, 6, 512.	2.1	3
81	How to optimize switch virtual keyboards to trade off speed and accuracy. <i>Cognitive Research: Principles and Implications</i> , 2016, 1, 6.	2.0	3
82	Perceptual Grouping Strategies in a Letter Identification Task: Strategic Connections, Selection, and Segmentation. <i>Attention, Perception, and Psychophysics</i> , 2022, 84, 1944-1963.	1.3	3
83	MFDTool: A software program for designing optimal multifunction displays. <i>Behavior Research Methods</i> , 2003, 35, 236-243.	1.3	2
84	Cortical Dynamics of Perceptual Grouping and Segmentation: Crowding. <i>Journal of Vision</i> , 2016, 16, 1114.	0.3	2
85	Optimization of switch keyboards. , 2013, , .		1
86	Contour Erasure and Filling-in: Old Simulations Account for Most New Observations. <i>I-Perception</i> , 2015, 6, 116-126.	1.4	1
87	Confirming the appearance of excess success: Reply to van Boxtel and Koch (2016). <i>Psychonomic Bulletin and Review</i> , 2016, 23, 2010-2013.	2.8	1
88	Comment on: Conceptualizing and evaluating the replication of research results. <i>Journal of Experimental Social Psychology</i> , 2017, 69, 237-240.	2.2	1
89	The moon size illusion does not improve perceptual judgments. <i>Consciousness and Cognition</i> , 2019, 73, 102754.	1.5	1
90	<title>Optimization of information presentation on multifunction displays</title>. , 2000, 4022, 126.		0

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91	Cognitive considerations for helmet-mounted display design. Proceedings of SPIE, 2010, , .	0.8	0
92	Introduction to SCiP special issue. Behavior Research Methods, 2012, 44, 607-607.	4.0	0
93	Introduction to the SCiP special issue. Behavior Research Methods, 2013, 45, 603-603.	4.0	0
94	Registered reports for Consciousness and Cognition. Consciousness and Cognition, 2018, 57, A1-A3.	1.5	0
95	Excess success in studies of object-based attention. Journal of Vision, 2021, 21, 2271.	0.3	0
96	Perceptual Grouping and Selection Strategies in an Enumeration Task. Journal of Vision, 2021, 21, 2260.	0.3	0
97	How crowding challenges (feedforward) convolutional neural networks. Journal of Vision, 2021, 21, 2039.	0.3	0
98	The Black Hole Illusion: Theory and Tests. Journal of Vision, 2021, 21, 2806.	0.3	0
99	Crowding, Patterns, and Recurrent Processing. Journal of Vision, 2015, 15, 550.	0.3	0
100	Towards a Unifying Model of Crowding: Model Olympics. Journal of Vision, 2017, 17, 399.	0.3	0
101	Perceptual Grouping and Segmentation: Uncrowding. Journal of Vision, 2017, 17, 366.	0.3	0
102	Crowding asymmetries in a neural model of image segmentation. Journal of Vision, 2017, 17, 365.	0.3	0
103	The Structure of Visual Space. Journal of Vision, 2017, 17, 787.	0.3	0
104	A Neural Circuit for Perceptual Grouping, Segmentation, and Selection. Journal of Vision, 2019, 19, 150b.	0.3	0
105	A Model with Top-down Control of the Range of Perceptual Grouping. Journal of Vision, 2019, 19, 151a.	0.3	0
106	Perceptual Grouping Strategies in Visual Search Tasks. Journal of Vision, 2020, 20, 694.	0.3	0