

# Andrew B Metha

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,332  
citations

279701

23  
h-index

223716

46  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2043  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Adaptation in Visual Cortex to the Structure of Images. <i>Science</i> , 1999, 285, 1405-1408.	6.0	418
2	Packing arrangement of the three cone classes in primate retina. <i>Vision Research</i> , 2001, 41, 1291-1306.	0.7	225
3	Functional consequences of the relative numbers of L and M cones. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 607.	0.8	203
4	Information Conveyed by Onset Transients in Responses of Striate Cortical Neurons. <i>Journal of Neuroscience</i> , 2001, 21, 6978-6990.	1.7	117
5	Vision science and adaptive optics, the state of the field. <i>Vision Research</i> , 2017, 132, 3-33.	0.7	115
6	Activity-dependent maintenance and growth of dendrites in adult cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4631-4636.	3.3	95
7	Direct visualization and characterization of erythrocyte flow in human retinal capillaries. <i>Biomedical Optics Express</i> , 2012, 3, 3264.	1.5	89
8	Topographic Plasticity in Primary Visual Cortex Is Mediated by Local Corticocortical Connections. <i>Journal of Neuroscience</i> , 2003, 23, 6434-6442.	1.7	71
9	Characteristics of the human isoplanatic patch and implications for adaptive optics retinal imaging. <i>Journal of Biomedical Optics</i> , 2008, 13, 024008.	1.4	71
10	Enhanced motion aftereffect for complex motions. <i>Vision Research</i> , 1999, 39, 2229-2238.	0.7	57
11	Detection and discrimination of moving stimuli: the effects of color, luminance, and eccentricity. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1994, 11, 1697.	0.8	53
12	Calibration of a color monitor for visual psychophysics. <i>Behavior Research Methods</i> , 1993, 25, 371-383.	1.3	51
13	Evidence of Flicker-Induced Functional Hyperaemia in the Smallest Vessels of the Human Retinal Blood Supply. <i>PLoS ONE</i> , 2016, 11, e0162621.	1.1	42
14	Local Signals From Beyond the Receptive Fields of Striate Cortical Neurons. <i>Journal of Neurophysiology</i> , 2003, 90, 822-831.	0.9	41
15	Optical Imaging of Human Cone Photoreceptors Directly Following the Capture of Light. <i>PLoS ONE</i> , 2013, 8, e79251.	1.1	40
16	Variability in Bleach Kinetics and Amount of Photopigment between Individual Foveal Cones. , 2012, 53, 3673.		39
17	Psychophysical evidence for a functional hierarchy of motion processing mechanisms. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998, 15, 769.	0.8	38
18	Two expressions of "surround suppression" in V1 that arise independent of cortical mechanisms of suppression. <i>Visual Neuroscience</i> , 2007, 24, 99-109.	0.5	37

#	ARTICLE	IF	CITATIONS
19	Temporal mechanisms underlying flicker detection and identification for red-green and achromatic stimuli. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1969.	0.8	36
20	De-warping of images and improved eye tracking for the scanning laser ophthalmoscope. <i>PLoS ONE</i> , 2017, 12, e0174617.	1.1	31
21	Multiconjugate adaptive optics applied to an anatomically accurate human eye model. <i>Optics Express</i> , 2006, 14, 8019.	1.7	27
22	Enhanced Contrast Sensitivity Confirms Active Compensation in Blur Adaptation. , 2010, 51, 1242.		26
23	Analysis of contrast and motion signals generated by human blood constituents in capillary flow. <i>Optics Letters</i> , 2014, 39, 610.	1.7	26
24	Red-green and achromatic temporal filters: a ratio model predicts contrast-dependent speed perception. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 984.	0.8	25
25	Reactivity in the human retinal microvasculature measured during acute gas breathing provocations. <i>Scientific Reports</i> , 2017, 7, 2113.	1.6	25
26	Visual function: the problem with eccentricity. <i>Australasian journal of optometry, The</i> , 2005, 88, 313-321.	0.6	24
27	Transmission of spatial information in S-cone pathways. <i>Visual Neuroscience</i> , 2001, 18, 961-972.	0.5	23
28	Exploring Ocular Aberrations with a Schematic Human Eye Model. <i>Optometry and Vision Science</i> , 2008, 85, 330-340.	0.6	22
29	Limitations to adaptive optics image quality in rodent eyes. <i>Biomedical Optics Express</i> , 2012, 3, 1811.	1.5	21
30	Mapping flow velocity in the human retinal capillary network with pixel intensity cross correlation. <i>PLoS ONE</i> , 2019, 14, e0218918.	1.1	21
31	Impact of Blood Pressure on Retinal Microvasculature Architecture Across the Lifespan: The Young Finns Study. <i>Microcirculation</i> , 2015, 22, 146-155.	1.0	19
32	The C400: a new dichotomiser of colour vision defectives. <i>Australasian journal of optometry, The</i> , 1992, 75, 114-123.	0.6	18
33	Maintaining the cornea and the general physiological environment in visual neurophysiology experiments. <i>Journal of Neuroscience Methods</i> , 2001, 109, 153-166.	1.3	17
34	Adaptive optics imaging of the retinal microvasculature. <i>Australasian journal of optometry, The</i> , 2020, 103, 112-122.	0.6	17
35	Failure of direction discrimination at detection threshold for both fast and slow chromatic motion. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1998, 15, 2945.	0.8	15
36	Artificial scotoma-induced perceptual distortions are orientation dependent and short lived. <i>Visual Neuroscience</i> , 2004, 21, 79-87.	0.5	14

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37	Contrast-based sensorless adaptive optics for retinal imaging. Biomedical Optics Express, 2015, 6, 3577.	1.5	12
38	Impact of Fetal Growth and Preterm Birth on the Retinal Microvasculature in Mid-Adulthood. Microcirculation, 2015, 22, 285-293.	1.0	12
39	Direct measurement of pulse wave propagation in capillaries of the human retina. Optics Letters, 2021, 46, 4450.	1.7	11
40	System design considerations to improve isoplanatism for adaptive optics retinal imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, A37.	0.8	9
41	Improving high resolution retinal image quality using speckle illumination HiLo imaging. Biomedical Optics Express, 2014, 5, 2563.	1.5	9
42	Recovering the appearance of the capillary blood column from under-sampled flow data. Optics Letters, 2020, 45, 4320.	1.7	9
43	Spatial structure of the frequency doubling illusion. Vision Research, 2007, 47, 1732-1744.	0.7	8
44	Comparison of sorting algorithms to increase the range of Hartmann-Shack aberrometry. Journal of Biomedical Optics, 2010, 15, 067004.	1.4	7
45	Retinal hyperspectral imaging in the 5xFAD mouse model of Alzheimer's disease. Scientific Reports, 2021, 11, 6387.	1.6	7
46	Enhanced sensitivity for peripherally-presented collinearly-aligned stimulus elements: contour detection or spatial summation?. Australasian journal of optometry, The, 2001, 84, 354-360.	0.6	6
47	Frequency-Doubling Illusion under Scotopic Illumination and in Peripheral Vision. , 2007, 48, 3413.		6
48	Imaging relative stasis of the blood column in human retinal capillaries. Biomedical Optics Express, 2019, 10, 6009.	1.5	6
49	Shape discrimination thresholds among subjects with emmetropia and corrected myopia. Australasian journal of optometry, The, 2015, 98, 353-358.	0.6	5
50	Masking of random-walk motion by flicker, and its role in the allocation of motion in the on-line jitter illusion. Vision Research, 2017, 137, 50-60.	0.7	4
51	Functional consequences of the relative numbers of L and M cones: errata. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1684.	0.8	3
52	Towards distortion-free imaging of the eye. PLoS ONE, 2021, 16, e0252876.	1.1	3
53	The relationship between temporal phase discrimination ability and the frequency doubling illusion. Journal of Vision, 2007, 7, 17.	0.1	2
54	The influence of retinal image motion on the perceptual grouping of temporally asynchronous stimuli. Journal of Vision, 2019, 19, 2.	0.1	2

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55	Evidence for mild blue-yellow colour vision deficits immediately following fluorescein angiography. <i>Ophthalmic and Physiological Optics</i> , 2000, 20, 137-141.	1.0	1
56	Careful cone counting critical for clinical care. <i>Clinical and Experimental Ophthalmology</i> , 2014, 42, 807-809.	1.3	1
57	OPTIMISATION OF CHROMATIC AND LUMINANCE PERIMETRY PROCEDURES.. <i>Optometry and Vision Science</i> , 1994, 71, 146-147.	0.6	0
58	Diabetes research advances. Why Jeremy wishes he were a mouse. <i>Australasian journal of optometry, The</i> , 2005, 88, 129-131.	0.6	0
59	The influence of perceptual stabilisation on perceptual grouping of temporally asynchronous stimuli. <i>Vision Research</i> , 2019, 160, 1-9.	0.7	0
60	Does the visual system's perceptual stabilization of small eye movements affect visual performance?. <i>Journal of Vision</i> , 2018, 18, 1286.	0.1	0
61	Effect of hydroxychloroquine or chloroquine and short wavelength light on <i>in vivo</i> retinal function and structure in mouse eyes. <i>Australasian journal of optometry, The</i> , 2023, 106, 523-531.	0.6	0
62	Optimizing retinal thermofusion in retinal detachment repair: achieving instant adhesion without air tamponade. <i>Ophthalmology Science</i> , 2022, , 100179.	1.0	0