

David P Crewther

List of Publications by Year in descending order

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135
papers

2,848
citations

185998

28
h-index

223531

46
g-index

148
all docs

148
docs citations

148
times ranked

3130
citing authors

#	ARTICLE	IF	CITATIONS
1	A normative and reliability study for the Raven's Coloured Progressive Matrices for primary school aged children from Victoria, Australia. <i>Personality and Individual Differences</i> , 2005, 39, 647-659.	1.6	121
2	Magnocellular visual evoked potential delay with high autism spectrum quotient yields a neural mechanism for altered perception. <i>Brain</i> , 2010, 133, 2089-2097.	3.7	108
3	Evidence for Fast Signals and Later Processing in Human V1/V2 and V5/MT+: A TMS Study of Motion Perception. <i>Journal of Neurophysiology</i> , 2007, 98, 1253-1262.	0.9	103
4	The role of photoreceptors in the control of refractive state. <i>Progress in Retinal and Eye Research</i> , 2000, 19, 421-457.	7.3	92
5	A review of gaze entropy as a measure of visual scanning efficiency. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 96, 353-366.	2.9	92
6	Common and distinct brain activation to viewing dynamic sequences of face and hand movements. <i>NeuroImage</i> , 2007, 37, 966-973.	2.1	91
7	The race that precedes coactivation: development of multisensory facilitation in children. <i>Developmental Science</i> , 2009, 12, 464-473.	1.3	89
8	Disease-Associated Visual Image Degradation and Spherical Refractive Errors in Children. <i>Optometry and Vision Science</i> , 1985, 62, 680-688.	0.6	88
9	A Comprehensive Review of the 1H-MRS Metabolite Spectrum in Autism Spectrum Disorder. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 14.	1.4	88
10	Omega-3 supplementation improves cognition and modifies brain activation in young adults. <i>Human Psychopharmacology</i> , 2014, 29, 133-144.	0.7	85
11	Referral rates for a functional vision screening among a large cosmopolitan sample of Australian children. <i>Ophthalmic and Physiological Optics</i> , 2002, 22, 10-25.	1.0	83
12	Inflammation and Depression: Why Poststroke Depression may be the Norm and Not the Exception. <i>International Journal of Stroke</i> , 2011, 6, 128-135.	2.9	79
13	Structural and Elemental Evidence for Edema in the Retina, Retinal Pigment Epithelium, and Choroid during Recovery from Experimentally Induced Myopia. , 2004, 45, 2463.		67
14	A Role for Choroidal Lymphatics during Recovery from Form Deprivation Myopia?. <i>Optometry and Vision Science</i> , 1999, 76, 796-803.	0.6	61
15	Visual resolution of retinal ganglion cells in monocularly-deprived cats. <i>Brain Research</i> , 1980, 192, 261-266.	1.1	54
16	Strabismic amblyopia: Part 1: Psychophysics. <i>Australasian journal of optometry</i> , The, 2000, 83, 49-58.	0.6	51
17	The Impact of Spatial Incongruence on an Auditory-Visual Illusion. <i>PLoS ONE</i> , 2009, 4, e6450.	1.1	47
18	Factor Analysis Demonstrates a Common Schizoid Phenotype within Autistic and Schizotypal Tendency: Implications for Neuroscientific Studies. <i>Frontiers in Psychiatry</i> , 2014, 5, 117.	1.3	44

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19	Change detection is impaired in children with dyslexia. <i>Journal of Vision</i> , 2003, 3, 10.	0.1	39
20	Low frequency temporal modulation of light promotes a myopic shift in refractive compensation to all spectacle lenses. <i>Experimental Eye Research</i> , 2006, 83, 322-328.	1.2	39
21	Magno- and Parvocellular Contrast Responses in Varying Degrees of Autistic Trait. <i>PLoS ONE</i> , 2013, 8, e66797.	1.1	38
22	Ionic control of ocular growth and refractive change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15663-15668.	3.3	37
23	Prevalence of Migraine in the Elderly: A Narrated Review. <i>Neuroepidemiology</i> , 2019, 52, 104-110.	1.1	37
24	Glutamate/GABA+ ratio is associated with the psychosocial domain of autistic and schizotypal traits. <i>PLoS ONE</i> , 2017, 12, e0181961.	1.1	37
25	Development of a Magnocellular Function in Good and Poor Primary School-Age Readers. <i>Optometry and Vision Science</i> , 1998, 75, 62-68.	0.6	35
26	Increased glutamate/GABA+ ratio in a shared autistic and schizotypal trait phenotype termed Social Disorganisation. <i>NeuroImage: Clinical</i> , 2017, 16, 125-131.	1.4	35
27	Primary Visual Cortex in the Brushtailed Possum: Receptive Field Properties and Corticocortical Connections. <i>Brain, Behavior and Evolution</i> , 1984, 24, 184-197.	0.9	32
28	Susceptibility to the flash-beep illusion is increased in children compared to adults. <i>Developmental Science</i> , 2011, 14, 1089-1099.	1.3	31
29	TMS disruption of V5/MT+ indicates a role for the dorsal stream in word recognition. <i>Experimental Brain Research</i> , 2009, 197, 69-79.	0.7	30
30	Is there an association between functional vision and learning to read?. <i>Australasian journal of optometry, The</i> , 2001, 84, 346-353.	0.6	27
31	DISTRACTIBILITY IN AD/HD PREDOMINANTLY INATTENTIVE AND COMBINED SUBTYPES: THE P3a ERP COMPONENT, HEART RATE AND PERFORMANCE. <i>Journal of Integrative Neuroscience</i> , 2006, 05, 139-158.	0.8	27
32	ERP Indices of Working Memory Updating in AD/HD: Differential Aspects of Development, Subtype, and Medication. <i>Journal of Clinical Neurophysiology</i> , 2008, 25, 32-41.	0.9	27
33	Problem solving ability in children with intellectual disability as measured by the Raven's Colored Progressive Matrices. <i>Research in Developmental Disabilities</i> , 2013, 34, 4366-4374.	1.2	27
34	Morphology of the recovery from form deprivation myopia in the chick. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1996, 24, 41-44.	0.4	24
35	Measurement error: implications for diagnosis and discrepancy models of developmental dyslexia. <i>Dyslexia</i> , 2005, 11, 186-202.	0.8	24
36	Pathway analysis identifies altered mitochondrial metabolism, neurotransmission, structural pathways and complement cascade in retina/RPE/ choroid in chick model of form-deprivation myopia. <i>PeerJ</i> , 2018, 6, e5048.	0.9	23

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37	Afferent input for target survival in marsupial visual development. <i>Neuroscience Letters</i> , 1988, 86, 147-154.	1.0	22
38	Strabismic amblyopia. <i>Australasian journal of optometry, The</i> , 2000, 83, 200-211.	0.6	22
39	The effect of sleep deprivation on BOLD activity elicited by a divided attention task. <i>Brain Imaging and Behavior</i> , 2011, 5, 97-108.	1.1	22
40	Impaired Activation of Visual Attention Network for Motion Saliency Is Accompanied by Reduced Functional Connectivity between Frontal Eye Fields and Visual Cortex in Strabismic Amblyopia. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 195.	1.0	22
41	Potassium Channel and NKCC Cotransporter Involvement in Ocular Refractive Control Mechanisms. <i>PLoS ONE</i> , 2008, 3, e2839.	1.1	22
42	Cone Receptor Sensitivity is Altered in Form Deprivation Myopia in the Chicken. <i>Optometry and Vision Science</i> , 1999, 76, 326-338.	0.6	21
43	Global and local attention in the attentional blink. <i>Journal of Vision</i> , 2007, 7, 9.	0.1	21
44	Comparison of Refractive State and Circumferential Morphology of Retina, Choroid, and Sclera in Chick Models of Experimentally Induced Ametropia. <i>Optometry and Vision Science</i> , 2001, 78, 40-49.	0.6	20
45	What you eat is what you are – A role for polyunsaturated fatty acids in neuroinflammation induced depression?. <i>Clinical Nutrition</i> , 2011, 30, 407-415.	2.3	20
46	Evidence for Enhanced Multisensory Facilitation with Stimulus Relevance: An Electrophysiological Investigation. <i>PLoS ONE</i> , 2013, 8, e52978.	1.1	20
47	Human Flicker Fusion Correlates With Physiological Measures of Magnocellular Neural Efficiency. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 176.	1.0	20
48	Gaze entropy measures detect alcohol-induced driver impairment. <i>Drug and Alcohol Dependence</i> , 2019, 204, 107519.	1.6	20
49	Does omega-3 fatty acid supplementation enhance neural efficiency? A review of the literature. <i>Human Psychopharmacology</i> , 2014, 29, 8-18.	0.7	19
50	Temporal brightness illusion changes color perception of ‘the dress’. <i>Journal of Vision</i> , 2017, 17, 6.	0.1	19
51	Mapping of the Underlying Neural Mechanisms of Maintenance and Manipulation in Visuo-Spatial Working Memory Using An n-back Mental Rotation Task: A Functional Magnetic Resonance Imaging Study. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 87.	1.0	18
52	Confirmatory factor analysis of autism and schizophrenia spectrum traits. <i>Personality and Individual Differences</i> , 2017, 110, 80-84.	1.6	18
53	Omega-3 Fatty Acids Modify Human Cortical Visual Processing – A Double-Blind, Crossover Study. <i>PLoS ONE</i> , 2011, 6, e28214.	1.1	17
54	Wots that werd? Pseudowords (non-words) may be a misleading measure of phonological skills in young learner readers. <i>Dyslexia</i> , 2006, 12, 289-299.	0.8	16

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55	The effect of acute sleep deprivation on visual evoked potentials in professional drivers. <i>Sleep</i> , 2008, 31, 1261-9.	0.6	16
56	Electrophysiological Correlates of Subliminal Perception of Facial Expressions in Individuals with Autistic Traits: A Backward Masking Study. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 256.	1.0	15
57	The association of excitation and inhibition signaling with the relative symptom expression of autism and psychosis-proneness: Implications for psychopharmacology. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 88, 235-242.	2.5	15
58	Pre- and post-critical period induced reduction of Cat-301 immunoreactivity in the lateral geniculate nucleus and visual cortex of cats Y-blocked as adults or made strabismic as kittens. <i>Molecular Vision</i> , 2006, 12, 858-66.	1.1	15
59	The More He Looked Inside, the More Piglet Wasn't There: Is Autism Really Blessed with Visual Hyperacuity?. <i>Biological Psychiatry</i> , 2009, 66, e21-e22.	0.7	14
60	Abrupt and ramped flicker-defined form shows evidence for a large magnocellular impairment in dyslexia. <i>Neuropsychologia</i> , 2012, 50, 2107-2113.	0.7	14
61	Mismatch field latency, but not power, may mark a shared autistic and schizotypal trait phenotype. <i>International Journal of Psychophysiology</i> , 2017, 116, 60-67.	0.5	14
62	RNA-seq and GSEA identifies suppression of ligand-gated chloride efflux channels as the major gene pathway contributing to form deprivation myopia. <i>Scientific Reports</i> , 2021, 11, 5280.	1.6	14
63	A role for aquaporin-4 during induction of form deprivation myopia in chick. <i>Molecular Vision</i> , 2008, 14, 298-307.	1.1	14
64	Retinogeniculate Patterns in Diprotodont Marsupials. <i>Brain, Behavior and Evolution</i> , 1987, 30, 22-42.	0.9	13
65	Temporal processing as a source of altered visual perception in high autistic tendency. <i>Neuropsychologia</i> , 2015, 69, 148-153.	0.7	13
66	Autistic Children Show a Surprising Relationship between Global Visual Perception, Non-Verbal Intelligence and Visual Parvocellular Function, Not Seen in Typically Developing Children. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 239.	1.0	13
67	Electrophysiological and psychophysical evidence for the development of magnocellular function in children. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1996, 24, 38-40.	0.4	12
68	A puzzle form of a non-verbal intelligence test gives significantly higher performance measures in children with severe intellectual disability. <i>BMC Pediatrics</i> , 2008, 8, 30.	0.7	12
69	Willpower and Conscious Percept: Volitional Switching in Binocular Rivalry. <i>PLoS ONE</i> , 2012, 7, e35963.	1.1	12
70	Fish Oil Diet Associated with Acute Reperfusion Related Hemorrhage, and with Reduced Stroke-Related Sickness Behaviors and Motor Impairment. <i>Frontiers in Neurology</i> , 2014, 5, 14.	1.1	12
71	Spatio-temporal source cluster analysis reveals fronto-temporal auditory change processing differences within a shared autistic and schizotypal trait phenotype. <i>NeuroImage: Clinical</i> , 2017, 16, 383-389.	1.4	12
72	Normal readers have an upper visual field advantage in change detection. <i>Clinical and Experimental Ophthalmology</i> , 2002, 30, 227-330.	1.3	11

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73	Spatial and temporal dissociation of AQP4 and Kir4.1 expression during induction of refractive errors. <i>Molecular Vision</i> , 2010, 16, 1610-9.	1.1	11
74	Cluster analysis reveals subclinical subgroups with shared autistic and schizotypal traits. <i>Psychiatry Research</i> , 2018, 265, 111-117.	1.7	10
75	Preliminary validation of FastaReada as a measure of reading fluency. <i>Frontiers in Psychology</i> , 2015, 6, 1634.	1.1	9
76	Age Related Decline in Cortical Multifocal Flash VEP: Latency Increases Shown to Be Predominately Magnocellular. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 430.	1.7	9
77	Psychosocial deficits across autism and schizotypal spectra are interactively modulated by excitatory and inhibitory neurotransmission. <i>Autism</i> , 2020, 24, 364-373.	2.4	9
78	Neural Responses in Parietal and Occipital Areas in Response to Visual Events Are Modulated by Prior Multisensory Stimuli. <i>PLoS ONE</i> , 2013, 8, e84331.	1.1	9
79	Peripheral global neglect in high vs. low autistic tendency. <i>Frontiers in Psychology</i> , 2014, 5, 284.	1.1	8
80	Temporal structure of human magnetic evoked fields. <i>Experimental Brain Research</i> , 2016, 234, 1987-1995.	0.7	8
81	Insensitivity to Fearful Emotion for Early ERP Components in High Autistic Tendency Is Associated with Lower Magnocellular Efficiency. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 495.	1.0	8
82	Flicker fusion thresholds as a clinical identifier of a magnocellular-deficit dyslexic subgroup. <i>Scientific Reports</i> , 2020, 10, 21638.	1.6	8
83	Central and peripheral vision loss associated with nefazodone usage. <i>Documenta Ophthalmologica</i> , 2003, 106, 319-325.	1.0	7
84	Rate of Learning and Asymptotic Performance in an Automatization Task and the Relation to Reading. <i>Perceptual and Motor Skills</i> , 2004, 99, 1103-1121.	0.6	7
85	The visual attentional blink reflects constraints on temporal visual processing, not just a lapse of visual memory. <i>Australasian journal of optometry</i> , The, 2007, 90, 282-289.	0.6	7
86	Greater magnocellular saccadic suppression in high versus low autistic tendency suggests a causal path to local perceptual style. <i>Royal Society Open Science</i> , 2015, 2, 150226.	1.1	7
87	A new model of strabismic amblyopia: Loss of spatial acuity due to increased temporal dispersion of geniculate X-cell afferents on to cortical neurons. <i>Vision Research</i> , 2015, 114, 79-86.	0.7	7
88	Autistic Traits Are Not a Strong Predictor of Binocular Rivalry Dynamics. <i>Frontiers in Neuroscience</i> , 2018, 12, 338.	1.4	7
89	Neural Mechanisms of Visual Motion Anomalies in Autism: A Two-Decade Update and Novel Aetiology. <i>Frontiers in Neuroscience</i> , 2021, 15, 756841.	1.4	7
90	Distribution and localization of NMDA receptor subunit 1 in the visual cortex of strabismic and anisometric amblyopic cats. <i>NeuroReport</i> , 1996, 7, 2997-3004.	0.6	6

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91	Temporal analysis of the VEP: evidence for separable magnocellular and parvocellular contributions. Australian and New Zealand Journal of Ophthalmology, 1996, 24, 32-34.	0.4	6
92	Temporal processing of global and local information varies with global precedence. Clinical and Experimental Ophthalmology, 2002, 30, 221-226.	1.3	6
93	Changes in ocular accommodation when shifting between global and local attention. Australasian journal of optometry, The, 2005, 88, 28-32.	0.6	6
94	Putative biomarker of working memory systems development during childhood and adolescence. NeuroReport, 2008, 19, 197-201.	0.6	6
95	Fish oil supplementation associated with decreased cellular degeneration and increased cellular proliferation 6 weeks after middle cerebral artery occlusion in the rat. Neuropsychiatric Disease and Treatment, 2015, 11, 153.	1.0	6
96	Mathematical impairment associated with high-contrast abnormalities in change detection and magnocellular visual evoked response. Experimental Brain Research, 2015, 233, 3039-3046.	0.7	5
97	The 4D Space-Time Dimensions of Facial Perception. Frontiers in Psychology, 2020, 11, 1842.	1.1	5
98	Magnetoencephalography reveals an increased non-target P3a, but not target P3b, that is associated with high non-clinical psychosocial deficits. Psychiatry Research - Neuroimaging, 2018, 271, 1-7.	0.9	5
99	Temporal limitations of information processing in global and local attention: the effect of information content. Australian and New Zealand Journal of Ophthalmology, 1999, 27, 261-264.	0.4	4
100	Threshold recognition of phantom-contour objects requires constant contrast velocity. Perception & Psychophysics, 2007, 69, 1035-1039.	2.3	4
101	Comorbid Externalising Behaviour in AD/HD: Evidence for a Distinct Pathological Entity in Adolescence. PLoS ONE, 2012, 7, e41407.	1.1	4
102	Effects of a non-steroidal (ketorolac tromethamine) and a steroidal (dexamethasone) anti-inflammatory drug on refractive state and ocular growth. Clinical and Experimental Ophthalmology, 2001, 29, 175-178.	1.3	3
103	Effects of optical defocus and spatial contrast on anterior chamberdepth in chicks. Clinical and Experimental Ophthalmology, 2002, 30, 217-???	1.3	3
104	Monocular and binocular thresholds for abruptly and gradually presented illusory contours. Australasian journal of optometry, The, 2006, 89, 368-373.	0.6	3
105	Light modulation, not choroidal vasomotor action, is a regulator of refractive compensation to signed optical blur. British Journal of Pharmacology, 2011, 164, 1614-1626.	2.7	3
106	Cortical excitation-inhibition ratio mediates the effect of pre-attentive auditory processing deficits on interpersonal difficulties. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2020, 98, 109769.	2.5	3
107	Different Temporal Structure for Form versus Surface Cortical Color Systems “ Evidence from Chromatic Non-Linear VEP. PLoS ONE, 2010, 5, e15266.	1.1	3
108	Vision and learning to read. Australasian journal of optometry, The, 2002, 85, 260-262.	0.6	2

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109	Clinical application of the multifocal visual evoked potential. Australasian journal of optometry, The, 2004, 87, 163-170.	0.6	2
110	An asymmetric outer retinal response to drifting sawtooth gratings. Journal of Neurophysiology, 2016, 115, 2349-2358.	0.9	2
111	Temporal whole field sawtooth flicker without a spatial component elicits a myopic shift following optical defocus irrespective of waveform direction in chicks. PeerJ, 2019, 7, e6277.	0.9	2
112	Visual processing and dyslexia. Australasian journal of optometry, The, 1996, 79, 19-27.	0.6	1
113	Separation of contour and area dependent components in the first and second order kernels of the multifocal pattern appearance evoked potential. Clinical and Experimental Ophthalmology, 2002, 30, 231-234.	1.3	1
114	Occipital Magnocellular VEP Non-linearities Show a Short Latency Interaction Between Contrast and Facial Emotion. Frontiers in Human Neuroscience, 2020, 14, 268.	1.0	1
115	Cerebellum added to Working Memory Networks revealed by Meta-analysis of Activation Likelihood Estimation of fMRI sites in n-back tasks. Journal of Vision, 2018, 18, 688.	0.1	1
116	Maintenance and Development of Cortical Binocularity. Australasian journal of optometry, The, 1980, 63, 211-217.	0.6	0
117	The ups and downs of visual fields. Behavioral and Brain Sciences, 1990, 13, 550-551.	0.4	0
118	A pharmacologically induced model of the retinal dystrophy gyrate atrophy. Australasian journal of optometry, The, 1995, 78, 65-73.	0.6	0
119	Immunocytochemical study of the NMDA receptor in the visual cortex of strabismic cat. Australian and New Zealand Journal of Ophthalmology, 1996, 24, 88-91.	0.4	0
120	Optometry by many other names. Australasian journal of optometry, The, 2001, 84, 319-320.	0.6	0
121	Surround-Masking Affects Visual Estimation Ability. Frontiers in Integrative Neuroscience, 2017, 11, 7.	1.0	0
122	Psychophysical decoding of 4D dynamic spontaneous facial emotions.. Journal of Vision, 2021, 21, 1841.	0.1	0
123	The attentional strobe: auditory manipulation of visual conscious awareness. Journal of Vision, 2015, 15, 1251.	0.1	0
124	Does early processing of low-spatial frequency fearful facial expressions vary as a function of autistic tendency?. Journal of Vision, 2016, 16, 167.	0.1	0
125	Toad lights up the prince of brightness illusions.. Journal of Vision, 2016, 16, 561.	0.1	0
126	The effects of visual surround on multifocal visual evoked potentials. Journal of Vision, 2017, 17, 793.	0.1	0

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127	Human flicker fusion frequencies correlate negatively with cortical VEP magnocellular nonlinearities. <i>Journal of Vision</i> , 2017, 17, 735.	0.1	0
128	Orientation surround suppression but not complex search slope correlates with autistic trait level.. <i>Journal of Vision</i> , 2017, 17, 702.	0.1	0
129	Nasal Oxytocin produces emotion dependent effects on early visual evoked potentials.. <i>Journal of Vision</i> , 2018, 18, 911.	0.1	0
130	The effects of figure-ground segmentation on non-linear visual evoked potentials. <i>Journal of Vision</i> , 2018, 18, 333.	0.1	0
131	Less Efficient Magnocellular Processing: A Common Deficit in Neurodevelopmental Disorders. <i>Journal of Vision</i> , 2019, 19, 48a.	0.1	0
132	Red background facilitates low spatial frequency fearful face processing in groups with high autistic tendency. <i>Journal of Vision</i> , 2019, 19, 24d.	0.1	0
133	The acute effects of intranasal oxytocin on EEG mu responses to emotional faces. <i>Journal of Vision</i> , 2019, 19, 182a.	0.1	0
134	Connectivity in cortex sensitive to biological motion in those high and low in autistic tendency.. <i>Journal of Vision</i> , 2019, 19, 192.	0.1	0
135	Nonlinear VEP: Facial emotional information is present in early V1 processing. <i>Journal of Vision</i> , 2020, 20, 624.	0.1	0