Nikolaus F Troje

List of Publications by Year
in descending order

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168	6,574	87888 38	79698 73
papers	citations	h-index	g-index

171	171	171	4560
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrophysiological and behavioral indicators of musical knowledge about unfamiliar music. Scientific Reports, 2022, 12, 441.	3.3	0
2	Movement markers of schizophrenia: a detailed analysis of patientsâ€™ gait patterns. European Archives of Psychiatry and Clinical Neuroscience, 2022, 272, 1347-1364.	3.2	10
3	Human (but not animal) motion can be recognized at first sight â€“ After treatment for congenital blindness. Neuropsychologia, 2022, 174, 108307.	1.6	3
4	Does co-presence affect the way we perceive and respond to emotional interactions?. Experimental Brain Research, 2021, 239, 923-936.	1.5	2
5	bmlSUP â€“ A SMPL Unity Player. , 2021, , .		1
6	Spatiotemporal dynamics of responses to biological motion in the human brain. Cortex, 2021, 136, 124-139.	2.4	9
7	Does anxiety induced by social interaction influence the perception of bistable biological motion?. Acta Psychologica, 2021, 215, 103277.	1.5	3
8	MoVi: A large multi-purpose human motion and video dataset. PLoS ONE, 2021, 16, e0253157.	2.5	35
9	The role of binocular disparity and active motion parallax in cybersickness. Experimental Brain Research, 2021, 239, 2649-2660.	1.5	3
10	Integrating situational probability and kinematic information when anticipating disguised movements. Psychology of Sport and Exercise, 2020, 46, 101607.	2.1	30
11	Prediction of action outcome: Effects of available information about body structure. Attention, Perception, and Psychophysics, 2020, 82, 2076-2084.	1.3	5
12	bmlTUX: Design and Control of Experiments in Virtual Reality and Beyond. I-Perception, 2020, 11, 204166952093840.	1.4	24
13	Classifying Elite From Novice Athletes Using Simulated Wearable Sensor Data. Frontiers in Bioengineering and Biotechnology, 2020, 8, 814.	4.1	9
14	Probabilistic Character Motion Synthesis using a Hierarchical Deep Latent Variable Model. Computer Graphics Forum, 2020, 39, 225-239.	3.0	17
15	Biological Action Identification Does Not Require Early Visual Input for Development. ENeuro, 2020, 7, ENEURO.0534-19.2020.	1.9	11
16	Panel: Bodily Expressed Emotion Understanding Research: A Multidisciplinary Perspective. Lecture Notes in Computer Science, 2020, , 733-746.	1.3	0
17	Experimental design with Unity Game Engine. Journal of Vision, 2020, 20, 810.	0.3	2
18	The Role of Sexual Dimorphism in the Perception of Attractiveness and Confidence. Journal of Vision, 2020, 20, 878.	0.3	1

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19	Stereopsis Aids Perceived Distance Based on An Exocentric Pointing Task. Journal of Vision, 2020, 20, 1171.	0.3	0
20	Reality Check. Perception, 2019, 48, 1033-1038.	1.2	11
21	Auto-labelling of Markers in Optical Motion Capture by Permutation Learning. Lecture Notes in Computer Science, 2019, , 167-178.	1.3	13
22	Perceptual Effects of Inconsistency in Human Animations. ACM Transactions on Applied Perception, 2019, 16, 1-18.	1.9	4
23	AMASS: Archive of Motion Capture As Surface Shapes. , 2019, , .		417
24	Walk-through Metal Detector Testing and the Need to Emulate Natural Body Motion. Journal of Testing and Evaluation, 2019, 47, 627-639.	0.7	2
25	The size of objects in visual space compared to pictorial space. Journal of Vision, 2019, 19, 16.	0.3	0
26	How the Brain Learns to See Biological Motion After Recovering from Visual Deprivation. Journal of Vision, 2019, 19, 191a.	0.3	0
27	Inverting the Facing-the-Viewer Bias for Biological Motion Stimuli. I-Perception, 2018, 9, 204166951775017.	1.4	3
28	Objectively Differentiating Movement Patterns between Elite and Novice Athletes. Medicine and Science in Sports and Exercise, 2018, 50, 1457-1464.	0.4	38
29	Heritable aspects of biological motion perception and its covariation with autistic traits. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1937-1942.	7.1	40
30	Cortical and subcortical responses to biological motion. NeuroImage, 2018, 174, 87-96.	4.2	30
31	Motion processing after sight restoration: No competition between visual recovery and auditory compensation. NeuroImage, 2018, 167, 284-296.	4.2	30
32	Cognition modulates action-to-perception transfer in ambiguous perception. Journal of Vision, 2018, 18, 5.	0.3	7
33	The role of avatar fidelity and sex on self-motion recognition. , 2018, , .		2
34	Influence of bone-conducted vibration on simulator sickness in virtual reality. PLoS ONE, 2018, 13, e0194137.	2.5	71
35	Cognitive models modulate action-perception coupling in perceptual multistability. Journal of Vision, 2018, 18, 669.	0.3	0
36	Visual-motor mapping in VR: Detection thresholds for distortions of hand position. Journal of Vision, 2018, 18, 68.	0.3	0

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37	Pigeons use distinct stop phases to control pecking. Journal of Experimental Biology, 2017, 220, 437-444.	1.7	18
38	Vection Latency Is Reduced by Bone-Conducted Vibration and Noisy Galvanic Vestibular Stimulation. Multisensory Research, 2017, 30, 65-90.	1.1	43
39	Biological motion distorts size perception. Scientific Reports, 2017, 7, 42576.	3.3	2
40	Kinematic patterns underlying disguised movements: Spatial and temporal dissimilarity compared to genuine movement patterns. Human Movement Science, 2017, 54, 308-319.	1.4	7
41	Priming biological motion changes extrapersonal space categorization. Acta Psychologica, 2017, 172, 77-83.	1.5	8
42	Effects of animation retargeting on perceived action outcomes. , 2017, , .		0
43	Motion database of disguised and non-disguised team handball penalty throws by novice and expert performers. Data in Brief, 2017, 15, 981-986.	1.0	3
44	Social interactivity in pigeon courtship behavior. Environmental Epigenetics, 2017, 63, 85-95.	1.8	7
45	Head Stabilization in the Pigeon: Role of Vision to Correct for Translational and Rotational Disturbances. Frontiers in Neuroscience, 2017, 11, 551.	2.8	10
46	Subcortical and cortical responses to local biological motion as revealed by fMRI and MEG. Journal of Vision, 2017, 17, 64.	0.3	0
47	Head-bobbing in the Ring-billed Gull (Larus delawarensis). Canadian Field-Naturalist, 2016, 130, 174.	0.1	0
48	Domain-Specific and Unspecific Reaction Times in Experienced Team Handball Goalkeepers and Novices. Frontiers in Psychology, 2016, 7, 882.	2.1	21
49	Sight restoration after congenital blindness does not reinstate alpha oscillatory activity in humans. Scientific Reports, 2016, 6, 24683.	3.3	33
50	Internal consistency predicts attractiveness in biological motion walkers. Evolution and Human Behavior, 2016, 37, 40-46.	2.2	10
51	Short and long term representation of an unfamiliar tone distribution. PeerJ, 2016, 4, e2399.	2.0	3
52	Spatiotemporal dissimilarity influences the perceptual discriminability of deceptive and non-deceptive throwing. Journal of Vision, 2016, 16, 278.	0.3	1
53	Effects of movement-shape inconsistencies on perceived weight of lifted boxes.. Journal of Vision, 2016, 16, 276.	0.3	0
54	Biological motion distorts size perception. Journal of Vision, 2016, 16, 282.	0.3	0

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55	Vection is facilitated by bone conducted vibration and galvanic vestibular stimulation. Journal of Vision, 2016, 16, 1203.	0.3	0
56	Walking direction triggers visuo-spatial orienting in 6-month-old infants and adults: An eye tracking study. Cognition, 2015, 141, 112-120.	2.2	21
57	The influence of motion quality on responses towards video playback stimuli. Biology Open, 2015, 4, 803-811.	1.2	8
58	Functional characterisation of the chromatically antagonistic photosensitive mechanism of erythrophores in the tilapia Oreochromis niloticus. Journal of Experimental Biology, 2015, 218, 748-756.	1.7	11
59	The relationship between social anxiety and the perception of depth-ambiguous biological motion stimuli is mediated by inhibitory ability. Acta Psychologica, 2015, 157, 93-100.	1.5	16
60	Familiarity and preference for pitch probability profiles. Cognitive Processing, 2015, 16, 211-218.	1.4	8
61	Local and global aspects of biological motion perception in children born at very low birth weight. Child Neuropsychology, 2015, 21, 603-628.	1.3	10
62	The neural development of the biological motion processing system does not rely on early visual input. Cortex, 2015, 71, 359-367.	2.4	32
63	How we walk affects what we remember: Gait modifications through biofeedback change negative affective memory bias. Journal of Behavior Therapy and Experimental Psychiatry, 2015, 46, 121-125.	1.2	84
64	What causes the facing-the-viewer bias in biological motion?. Journal of Vision, 2014, 14, 10-10.	0.3	13
65	Assessing threat responses towards the symptoms and diagnosis of schizophrenia using visual perceptual biases. Schizophrenia Research, 2014, 159, 238-242.	2.0	8
66	Both Physical Exercise and Progressive Muscle Relaxation Reduce the Facing-the-Viewer Bias in Biological Motion Perception. PLoS ONE, 2014, 9, e99902.	2.5	24
67	Physical Exercise Reduces the Facing-the-Viewer Bias for Biological Motion Stimuli. Journal of Vision, 2014, 14, 1015-1015.	0.3	0
68	Stick figures and point-light displays: Effects of inversion on the facing-the-viewer bias. Journal of Vision, 2014, 14, 1024-1024.	0.3	0
69	What do you mean with â€œdirectionâ€? Local and global cues to biological motion perception in pigeons. Vision Research, 2013, 79, 47-55.	1.4	51
70	High complexity of aquatic irradiance may have driven the evolution of four-dimensional colour vision in shallow-water fish. Journal of Experimental Biology, 2013, 216, 1670-82.	1.7	11
71	What Is Biological Motion? Definition, Stimuli, and Paradigms. , 2013, , 13-36.		48
72	Can we perceive linear perspective in biological motion point-light displays?. Journal of Vision, 2013, 13, 188-188.	0.3	0

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73	Does a convexity prior explain the facing-the-viewer bias in the perception of biological motion?. Journal of Vision, 2013, 13, 187-187.	0.3	0
74	Healthy Older Observers Cannot Use Biological-Motion Point-Light Information Efficiently within 4 m of Themselves. I-Perception, 2012, 3, 104-111.	1.4	18
75	IQ Predicts Biological Motion Perception in Autism Spectrum Disorders. Journal of Autism and Developmental Disorders, 2012, 42, 557-565.	2.7	69
76	Human attributes from 3D pose tracking. Computer Vision and Image Understanding, 2012, 116, 648-660.	4.7	21
77	Perceived naturalness of human motion depends on internal consistency. Journal of Vision, 2012, 12, 466-466.	0.3	2
78	Exploring Individual Differences in Perceptual Biases in Depth-Ambiguous Point-Light Walkers. Journal of Vision, 2012, 12, 465-465.	0.3	1
79	Allocation of attention to biological motion: Local motion dominates global shape. Journal of Vision, 2011, 11, 4-4.	0.3	27
80	The Effect of Looming and Receding Sounds on the Perceived In-Depth Orientation of Depth-Ambiguous Biological Motion Figures. PLoS ONE, 2011, 6, e14725.	2.5	20
81	Comparing Biological Motion Perception in Two Distinct Human Societies. PLoS ONE, 2011, 6, e28391.	2.5	19
82	The facing bias in biological motion perception: structure, kinematics, and body parts. Attention, Perception, and Psychophysics, 2011, 73, 130-143.	1.3	38
83	Body Configuration Modulates the Usage of Local Cues to Direction in Biological-Motion Perception. Psychological Science, 2011, 22, 1543-1549.	3.3	38
84	Differences in the Nature of Body Image Disturbances Between Female Obese Individuals With Versus Without a Comorbid Binge Eating Disorder: An Exploratory Study Including Static and Dynamic Aspects of Body Image. Behavior Modification, 2011, 35, 162-186.	1.6	41
85	A test battery for assessing biological motion perception. Journal of Vision, 2011, 11, 686-686.	0.3	3
86	Bootstrapping a prior? Effects of experience on the facing bias in biological motion perception. Journal of Vision, 2011, 11, 692-692.	0.3	1
87	The Viewing-from-Above Bias and the Silhouette Illusion. I-Perception, 2010, 1, 143-148.	1.4	34
88	The facing bias in biological motion perception: Effects of stimulus gender and observer sex. Attention, Perception, and Psychophysics, 2010, 72, 1256-1260.	1.3	56
89	Do rats (Rattus norvegicus) perceive biological motion?. Experimental Brain Research, 2010, 205, 571-576.	1.5	28
90	Inter-joint coupling and joint angle synergies of human catching movements. Human Movement Science, 2010, 29, 73-93.	1.4	69

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91	Peripheral sensitivity to biological motion conveyed by first and second-order signals. Vision Research, 2010, 50, 127-135.	1.4	7
92	Young Infants Detect the Direction of Biological Motion in Pointâ€Light Displays. Infancy, 2010, 15, 83-93.	1.6	43
93	Limits of peripheral direction discrimination of point-light walkers. Journal of Vision, 2010, 10, 1-17.	0.3	18
94	Frames of reference for biological motion and face perception. Journal of Vision, 2010, 10, 22-22.	0.3	18
95	Gaze patterns during perception of direction and gender from biological motion. Journal of Vision, 2010, 10, 9-9.	0.3	25
96	Exploring motor system contributions to the perception of social information: Evidence from EEG activity in the mu/alpha frequency range. Social Neuroscience, 2010, 5, 272-284.	1.3	124
97	Embodied effects of mindfulness-based cognitive therapy. Journal of Psychosomatic Research, 2010, 68, 312-313.	2.6	18
98	Human Attributes from 3D Pose Tracking. Lecture Notes in Computer Science, 2010, , 243-257.	1.3	19
99	Decomposing biological motion: A linear model for analysis and synthesis of human gait patterns. Journal of Vision, 2010, 1, 355-355.	0.3	1
100	Searching for a "super foot" with evolutionary-guided adaptive psychophysics. Journal of Vision, 2010, 10, 784-784.	0.3	1
101	Perceptual biases in biological motion perception and other depth-ambiguous stimuli. Journal of Vision, 2010, 10, 792-792.	0.3	2
102	Gender and attractiveness from biological motion. Journal of Vision, 2010, 3, 86-86.	0.3	7
103	Perception of biological motion at varying eccentricity. Journal of Vision, 2010, 5, 16-16.	0.3	8
104	A pedestrian courtship: Attractiveness and symmetry of humans walking. Journal of Vision, 2010, 6, 797-797.	0.3	6
105	A right-facing bias in the processing of biological motion?. Journal of Vision, 2010, 8, 913-913.	0.3	2
106	Biological motion as a cue for the perception of absolute size. Journal of Vision, 2010, 1, 357-357.	0.3	2
107	Visual sensitivity to acceleration: Effects of motion orientation, velocity, and size. Journal of Vision, 2010, 9, 686-686.	0.3	1
108	Biological motion targets have to be further away in virtual space for older versus younger adults to maintain good performance. Journal of Vision, 2010, 9, 621-621.	0.3	0

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109	Intact biological motion processing in adults with autism. Journal of Vision, 2010, 9, 624-624.	0.3	0
110	An illumination induced visual illusion that affects the perceived width of a human head. Journal of Vision, 2010, 1, 290-290.	0.3	0
111	The local inversion effect in biological motion perception is acceleration-based. Journal of Vision, 2010, 8, 911-911.	0.3	4
112	Local motion versus global shape in biological motion: A reflexive orientation task. Journal of Vision, 2010, 10, 786-786.	0.3	0
113	Distributions of fixations on biological motion displays depend on the task: Direction discrimination vs. gender classification. Journal of Vision, 2010, 10, 795-795.	0.3	0
114	Acceleration carries the local inversion effect in biological motion perception. Journal of Vision, 2009, 9, 19-19.	0.3	91
115	Characterizing global and local mechanisms in biological motion perception. Journal of Vision, 2009, 9, 8-8.	0.3	104
116	No evidence for impaired perception of biological motion in adults with autistic spectrum disorders. Neuropsychologia, 2009, 47, 3225-3235.	1.6	93
117	Gender bending: auditory cues affect visual judgements of gender in biological motion displays. Experimental Brain Research, 2009, 198, 373-382.	1.5	29
118	Vision during head bobbing: are pigeons capable of shape discrimination during the thrust phase?. Experimental Brain Research, 2009, 199, 313-321.	1.5	17
119	Embodiment of Sadness and Depressionâ€"Gait Patterns Associated With Dysphoric Mood. Psychosomatic Medicine, 2009, 71, 580-587.	2.0	320
120	Off on the Wrong Foot: Local Features in Biological Motion. Perception, 2009, 38, 522-532.	1.2	29
121	Differences in Gait Across the Menstrual Cycle and Their Attractiveness to Men. Archives of Sexual Behavior, 2008, 37, 598-604.	1.9	32
122	Stimulus magnification equates identification and discrimination of biological motion across the visual field. Vision Research, 2008, 48, 2827-2834.	1.4	25
123	Short-term mating strategies and attraction to masculinity in point-light walkers. Evolution and Human Behavior, 2008, 29, 65-69.	2.2	98
124	Correlated changes in perceptions of the gender and orientation of ambiguous biological motion figures. Current Biology, 2008, 18, R728-R729.	3.9	70
125	Perception of biological motion in autism spectrum disorders. Neuropsychologia, 2008, 46, 1480-1494.	1.6	188
126	Limits of intraocular and interocular transfer in pigeons. Behavioural Brain Research, 2008, 193, 69-78.	2.2	12

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127	Perception of animacy and direction from local biological motion signals. Journal of Vision, 2008, 8, 3.	0.3	77
128	Biological motion perception is cue-invariant. Journal of Vision, 2008, 8, 6-6.	0.3	14
129	Amblyopic perception of biological motion. Journal of Vision, 2008, 8, 22.	0.3	15
130	12 Retrieving Information from Human Movement Patterns. , 2008, , 308-334.		59
131	3D Periodic Human Motion Reconstruction from 2D Motion Sequences. Neural Computation, 2007, 19, 1400-1421.	2.2	12
132	Peripheral vision: Good for biological motion, bad for signal noise segregation?. Journal of Vision, 2007, 7, 12.	0.3	60
133	Static and dynamic body image in bulimia nervosa: Mental representation of body dimensions and biological motion patterns. International Journal of Eating Disorders, 2007, 40, 59-66.	4.0	58
134	Lateralized activation of Clusterâ€ƒN in the brains of migratory songbirds. European Journal of Neuroscience, 2007, 25, 1166-1173.	2.6	65
135	Timing of ascending and descending visual signals predicts the response mode of single cells in the thalamic nucleus rotundus of the pigeon (Columba livia). Brain Research, 2007, 1132, 100-109.	2.2	5
136	Kinematic cues for person identification from biological motion. Perception & Psychophysics, 2007, 69, 241-253.	2.3	51
137	Enhancing Depth Perception in Translucent Volumes. IEEE Transactions on Visualization and Computer Graphics, 2006, 12, 1117-1124.	4.4	42
138	Limits of dynamic object perception in pigeons: Dynamic stimulus presentation does not enhance perception and discrimination of complex shape. Learning and Behavior, 2006, 34, 71-85.	1.0	10
139	Towards a â€œvirtual pigeonâ€: A new technique for investigating avian social perception. Animal Cognition, 2006, 9, 271-279.	1.8	25
140	The Inversion Effect in Biological Motion Perception: Evidence for a â€œLife Detectorâ€?. Current Biology, 2006, 16, 821-824.	3.9	374
141	Self Recognition versus Recognition of others by Biological Motion: Viewpoint-Dependent Effects. Perception, 2006, 35, 911-920.	1.2	100
142	Adaptation aftereffects in the perception of gender from biological motion. Journal of Vision, 2006, 6, 7.	0.3	106
143	Eye Movements When Observing Predictable and Unpredictable Actions. Journal of Neurophysiology, 2006, 96, 1358-1369.	1.8	76
144	Person identification from biological motion: Effects of structural and kinematic cues. Perception & Psychophysics, 2005, 67, 667-675.	2.3	214

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145	Differential involvement of the cerebellum in biological and coherent motion perception. European Journal of Neuroscience, 2005, 21, 3439-3446.	2.6	47
146	View-independent person identification from human gait. Neurocomputing, 2005, 69, 250-256.	5.9	50
147	Range- and domain-specific exaggeration of facial speech. Journal of Vision, 2005, 5, 4.	0.3	17
148	Motion as a cue for viewpoint invariance. Visual Cognition, 2005, 12, 1291-1308.	1.6	26
149	Structural encoding and recognition of biological motion: evidence from event-related potentials and source analysis. Behavioural Brain Research, 2005, 157, 195-204.	2.2	108
150	Detection of direction in scrambled motion: a simple "life detector"?. Journal of Vision, 2005, 5, 1058-1058.	0.3	3
151	Attractiveness, averageness, and sexual dimorphism in biological motion. Journal of Vision, 2005, 5, 943-943.	0.3	2
152	Biological motion versus coherent motion perception: The role of the cerebellum. Journal of Vision, 2005, 5, 934-934.	0.3	0
153	Face Recognition Is Affected by Similarity in Spatial Frequency Range to a Greater Degree Than Within-Category Object Recognition.. Journal of Experimental Psychology: Human Perception and Performance, 2004, 30, 975-987.	0.9	46
154	Inverted gravity, not inverted shape impairs biological motion perception. Journal of Vision, 2004, 4, 227-227.	0.3	5
155	Self recognition versus recognition of others by biological motion: Viewpoint-dependent effects. Journal of Vision, 2004, 4, 237-237.	0.3	1
156	Person identification from biological motion: information content of discrete Fourier components. Journal of Vision, 2004, 4, 217-217.	0.3	0
157	Audiovisual phenomenal causality. Perception & Psychophysics, 2003, 65, 789-800.	2.3	89
158	Biological motion as a cue for the perception of size. Journal of Vision, 2003, 3, 1-1.	0.3	58
159	Reference Frames for Orientation Anisotropies in Face Recognition and Biological-Motion Perception. Perception, 2003, 32, 201-210.	1.2	66
160	Decomposing biological motion: A framework for analysis and synthesis of human gait patterns. Journal of Vision, 2002, 2, 2.	0.3	766
161	Electrophysiological and anatomical evidence for a direct projection from the nucleus of the basal optic root to the nucleus rotundus in pigeons. Neuroscience Letters, 2001, 305, 103-106.	2.1	15
162	Head-bobbing in pigeons: how stable is the hold phase?. Journal of Experimental Biology, 2000, 203, 935-40.	1.7	37

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163	Categorical learning in pigeons: the role of texture and shape in complex static stimuli. Vision Research, 1999, 39, 353-366.	1.4	88
164	Viewpoint-Dependent Recognition of Familiar Faces. Perception, 1999, 28, 483-487.	1.2	59
165	How is bilateral symmetry of human faces used for recognition of novel views?. Vision Research, 1998, 38, 79-89.	1.4	80
166	Illumination-Induced Apparent Shift in Orientation of Human Heads. Perception, 1998, 27, 671-680.	1.2	24
167	Face recognition under varying poses: The role of texture and shape. Vision Research, 1996, 36, 1761-1771.	1.4	369
168	Phenomenal Competition for Poses of the Human Head. Perception, 1996, 25, 367-368.	1.2	3