

Shigeki Nakauchi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	718 citations	14 h-index	22 g-index
119 ext. papers	892 ext. citations	2.4 avg, IF	4.41 L-index

#	Paper	IF	Citations
102	Image analysis operations applied to hyperspectral images for non-invasive sensing of food quality: A comprehensive review. <i>Biosystems Engineering</i> , 2016 , 142, 53-82	4.8	84
101	Near Infrared Spectroscopy and Hyperspectral Imaging for Prediction and Visualisation of Fat and Fatty Acid Content in Intact Raw Beef Cuts. <i>Journal of Near Infrared Spectroscopy</i> , 2010 , 18, 301-315	1.5	51
100	Freshness estimation of intact frozen fish using fluorescence spectroscopy and chemometrics of excitation-emission matrix. <i>Talanta</i> , 2015 , 143, 145-156	6.2	44
99	Reconstruction of Munsell color space by a five-layer neural network. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992 , 9, 516	1.8	31
98	Non-invasive sensing of freshness indices of frozen fish and fillets using pretreated excitation-emission matrices. <i>Sensors and Actuators B: Chemical</i> , 2016 , 228, 237-250	8.5	27
97	Color gamut mapping based on a perceptual image difference measure. <i>Color Research and Application</i> , 1999 , 24, 280-291	1.3	25
96	Temporal properties of material categorization and material rating: visual vs non-visual material features. <i>Vision Research</i> , 2015 , 115, 259-70	2.1	19
95	Smart technique for accurate monitoring of ATP content in frozen fish fillets using fluorescence fingerprint. <i>LWT - Food Science and Technology</i> , 2018 , 92, 258-264	5.4	19
94	Interaction between facial expression and color. <i>Scientific Reports</i> , 2017 , 7, 41019	4.9	18
93	Selection of optimal combinations of band-pass filters for ice detection by hyperspectral imaging. <i>Optics Express</i> , 2012 , 20, 986-1000	3.3	17
92	Image regions contributing to perceptual translucency: A psychophysical reverse-correlation study. <i>I-Perception</i> , 2013 , 4, 407-28	1.2	16
91	Experts and novices use the same factors--but differently--to evaluate pearl quality. <i>PLoS ONE</i> , 2014 , 9, e86400	3.7	16
90	Noninvasive sensing of thermal treatments of Japanese seafood products using imaging spectroscopy. <i>International Journal of Food Science and Technology</i> , 2015 , 50, 1960-1971	3.8	15
89	The face-selective N170 component is modulated by facial color. <i>Neuropsychologia</i> , 2012 , 50, 2499-505	3.2	15
88	Optical measurement of interference color of pearls and its relation to subjective quality. <i>Optical Review</i> , 2013 , 20, 50-58	0.9	14
87	Optimization of excitation-emission band-pass filter for visualization of viable bacteria distribution on the surface of pork meat. <i>Optics Express</i> , 2013 , 21, 12579-91	3.3	14
86	Redefining A in RGBA. <i>ACM Transactions on Graphics</i> , 2019 , 38, 1-14	7.6	14

85	Dynamic Visual Cues for Differentiating Mirror and Glass. <i>Scientific Reports</i> , 2018 , 8, 8403	4.9	12
84	Detection and modification of confusing color combinations for red-green dichromats to achieve a color universal design. <i>Color Research and Application</i> , 2008 , 33, 203-211	1.3	12
83	Computational theory of color transparency: recovery of spectral properties for overlapping surfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999 , 16, 2612	1.8	12
82	Prediction of meat spectral patterns based on optical properties and concentrations of the major constituents. <i>Food Science and Nutrition</i> , 2016 , 4, 269-83	3.2	11
81	Optical filter for highlighting spectral features part I: design and development of the filter for discrimination of human skin with and without an application of cosmetic foundation. <i>Optics Express</i> , 2011 , 19, 6020-30	3.3	11
80	Decreased beta-band activity is correlated with disambiguation of hidden figures. <i>Neuropsychologia</i> , 2014 , 56, 9-16	3.2	10
79	Enhancement of glossiness perception by retinal-image motion: additional effect of head-yoked motion parallax. <i>PLoS ONE</i> , 2013 , 8, e54549	3.7	10
78	Colorful glares: Effects of colors on brightness illusions measured with pupillometry. <i>Acta Psychologica</i> , 2019 , 198, 102882	1.7	9
77	Electrophysiological differences in the processing of affect misattribution. <i>PLoS ONE</i> , 2012 , 7, e49132	3.7	9
76	Expedition prediction of post-mortem changes in frozen fish meat using three-dimensional fluorescence fingerprints. <i>Bioscience, Biotechnology and Biochemistry</i> , 2019 , 83, 901-913	2.1	8
75	Effects of Face and Background Color on Facial Expression Perception. <i>Frontiers in Psychology</i> , 2018 , 9, 1012	3.4	8
74	Detection and visualization of intracutaneous allergic type-specific elements using long-wavelength near-infrared hyperspectral imaging. <i>Skin Research and Technology</i> , 2013 , 19, e157-66	1.9	8
73	Visualisation of Fat and Fatty Acid Distribution in Beef Using a Set of Filters Based on near Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2012 , 20, 509-519	1.5	8
72	A Computational Model for Color Constancy by Separating Reflectance and Illuminant Edges within a Scene. <i>Neural Networks</i> , 1996 , 9, 1405-1415	9.1	8
71	Acquisition of color opponent representation by a three-layered neural network model. <i>Biological Cybernetics</i> , 1994 , 72, 35-41	2.8	8
70	Association between pupil dilation and implicit processing prior to object recognition via insight. <i>Scientific Reports</i> , 2018 , 8, 6874	4.9	7
69	Semantic processing in subliminal face stimuli: an EEG and tDCS study. <i>Neuroscience Letters</i> , 2013 , 544, 141-6	3.3	7
68	Sparse regression for selecting fluorescence wavelengths for accurate prediction of food properties. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2016 , 154, 29-37	3.8	7

67	Rapid noninvasive monitoring of freshness variation in frozen shrimp using multidimensional fluorescence imaging coupled with chemometrics. <i>Talanta</i> , 2021 , 224, 121871	6.2	7
66	Brain Activity Related to the Judgment of Face-Likeness: Correlation between EEG and Face-Like Evaluation. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 56	3.3	6
65	Facial color processing in the face-selective regions: an fMRI study. <i>Human Brain Mapping</i> , 2014 , 35, 4958-64	5.9	6
64	Robust brightness enhancement across a luminance range of the glare illusion. <i>Journal of Vision</i> , 2016 , 16, 10	0.4	6
63	Asymmetrical characteristics of emotional responses to pictures and sounds: Evidence from pupillometry. <i>PLoS ONE</i> , 2020 , 15, e0230775	3.7	6
62	Optical filter highlighting spectral features part II: quantitative measurements of cosmetic foundation and assessment of their spatial distributions under realistic facial conditions. <i>Optics Express</i> , 2011 , 19, 6031-41	3.3	5
61	Neural networks for device-independent digital color imaging. <i>Information Sciences</i> , 2000 , 123, 115-125	7.7	5
60	AR-SSVEP for brain-machine interface: Estimating user's gaze in head-mounted display with USB camera 2015 ,		4
59	Asymmetry of P3 amplitude during oddball tasks reflects the unnaturalness of visual stimuli. <i>NeuroReport</i> , 2009 , 20, 1471-6	1.7	4
58	Visualization of the human face skin moisturizing ability by spectroscopic imaging using two near-infrared bands 2006 , 6062, 20		4
57	Hemifield Crossings during Multiple Object Tracking Affect Task Performance and Steady-State Visual Evoked Potentials. <i>Neuroscience</i> , 2019 , 409, 162-168	3.9	3
56	Development of the multispectral UV polarization reflectance imaging system (MUPRIS) for in situ monitoring of the UV protection efficacy of sunscreen on human skin. <i>Skin Research and Technology</i> , 2019 , 25, 639-652	1.9	3
55	Pupil Constriction in the Glare Illusion Modulates the Steady-State Visual Evoked Potentials. <i>Neuroscience</i> , 2019 , 416, 221-228	3.9	3
54	Optical implementation of spectral filtering for the enhancement of skin color discrimination. <i>Color Research and Application</i> , 2012 , 37, 53-58	1.3	3
53	Illuminations that improve color discrimination ability of people with red-green color vision deficiency. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017 , 34, 1914-1923	1.8	3
52	Variation in Event-Related Potentials by State Transitions. <i>Frontiers in Human Neuroscience</i> , 2017 , 11, 75	3.3	3
51	In situ detection and identification of microorganisms at single-colony resolution by spectral imaging. <i>Optical Review</i> , 2008 , 15, 285-291	0.9	3
50	Cueing the Necker cube: Pupil dilation reflects the viewing-from-above constraint in bistable perception. <i>Journal of Vision</i> , 2020 , 20, 7	0.4	3

49	The Best CCT for Appreciation of Paintings under Daylight Illuminants is Different for Occidental and Oriental Viewers. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 310-318	3.5	3
48	Gamma oscillations distinguish mere exposure from other likability effects. <i>Neuropsychologia</i> , 2014 , 54, 129-38	3.2	2
47	Near-infrared hyper-spectral image analysis of astaxanthin concentration in fish feed coating 2012 ,		2
46	Perception of a thick transparent object is affected by object and background motions but not dependent on the motion speed. <i>Journal of Vision</i> , 2015 , 15, 823	0.4	2
45	Team flow is a unique brain state associated with enhanced information integration and neural synchrony		2
44	Multiple cues for visual perception of mirror and glass materials. <i>Journal of Vision</i> , 2017 , 17, 765	0.4	2
43	Pupil dilation reflects English /l//r/ discrimination ability for Japanese learners of English: a pilot study. <i>Scientific Reports</i> , 2020 , 10, 8052	4.9	2
42	Dissociation of equilibrium points for color-discrimination and color-appearance mechanisms in incomplete chromatic adaptation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016 , 33, A150-63	1.8	2
41	Cooperative update of beliefs and state-transition functions in human reinforcement learning. <i>Scientific Reports</i> , 2019 , 9, 17704	4.9	2
40	The Rotating Glass Illusion: Material Appearance Is Bound to Perceived Shape and Motion. <i>I-Perception</i> , 2018 , 9, 2041669518816716	1.2	2
39	Objective assessment and quantification of pearl quality by spectral-spatial features 2015 ,		1
38	A Novel Method for Designing Fluorescence Fingerprint Filters and Its Application to Discrimination and Quantification in Food Evaluation. <i>Journal of the Japanese Society for Food Science and Technology</i> , 2012 , 59, 139-145	0.2	1
37	Color gamut mapping by minimizing perceptual differences between images. <i>Systems and Computers in Japan</i> , 1998 , 29, 46-56		1
36	Digital color imaging with color constancy. <i>Systems and Computers in Japan</i> , 2003 , 34, 79-88		1
35	A decorrelating neural network for color constancy 1992 ,		1
34	Pupil dilation reveals the implicit prior processing of the insight to the hidden image. <i>Journal of Vision</i> , 2017 , 17, 529	0.4	1
33	Flow of the eye: Gaze direction as an objective measure of flow experience. <i>Journal of Vision</i> , 2018 , 18, 1205	0.4	1
32	Sound symbolism expressing visual texture on different linguistic backgrounds. <i>Journal of Vision</i> , 2018 , 18, 858	0.4	1

31	Computational lighting for extracting optical features from RGB images. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 151, 107183	4.6	1
30	Effect of glare illusion-induced perceptual brightness on temporal perception. <i>Psychophysiology</i> , 2021 , 58, e13851	4.1	1
29	Backward and forward neck tilt affects perceptual bias when interpreting ambiguous figures.. <i>Scientific Reports</i> , 2022 , 12, 7276	4.9	1
28	Real-time optical monitoring of microbial growth using optimal combination of light-emitting diodes. <i>Optical Engineering</i> , 2012 , 51, 123201	1.1	0
27	Multiresolution Approach in Computing NTF 2007 , 334-343		0
26	Luminance-contrast reversal disambiguates illumination interpretation in #TheDress. <i>Journal of Vision</i> , 2017 , 17, 137	0.4	0
25	Pupillary response reflects attentional modulation to sound after emotional arousal. <i>Scientific Reports</i> , 2021 , 11, 17264	4.9	0
24	Universality and superiority in preference for chromatic composition of art paintings.. <i>Scientific Reports</i> , 2022 , 12, 4294	4.9	0
23	Steady-state visually evoked potential is modulated by the difference of recognition condition. <i>PLoS ONE</i> , 2020 , 15, e0235309	3.7	
22	Spatial smoothing of canonical correlation analysis for steady state visual evoked potential based brain computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 1516-1519	0.9	
21	Reverse correlation analysis of chromatic contrast perception based on chromatic mechanism models. <i>Optical Review</i> , 2014 , 21, 526-540	0.9	
20	Color signal integration for color discrimination along a long-range apparent motion trajectory. <i>Multisensory Research</i> , 2013 , 26, 241-65	1.9	
19	An analysis of viewpoint dependency in three-dimensional object recognition using support vector machines. <i>Systems and Computers in Japan</i> , 2006 , 37, 105-115		
18	Discrimination of illumination and reflectance changes on color constancy. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 2000 , 83, 43-55		
17	Analysis on the Viewpoint Dependency in 3-D Object Recognition by Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2001 , 176-183	0.9	
16	#TheDress type of color ambiguity induced by T-shirt image based on physically-based rendering. <i>Journal of Vision</i> , 2018 , 18, 221	0.4	
15	Color statistics underlying preference judgement for art paintings. <i>Journal of Vision</i> , 2018 , 18, 867	0.4	
14	The differential effect of glowing appearance in the glare illusion: evidence from pupillometry. <i>Journal of Vision</i> , 2018 , 18, 876	0.4	

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| 13 | Association between pupil constriction and aesthetic preference/naturalness in art-paintings. <i>Journal of Vision</i> , 2018 , 18, 874 | 0.4 |
| 12 | Contribution of Facial Color to Expression Recognition of Blurred Faces. <i>Transactions of Japan Society of Kansei Engineering</i> , 2019 , 18, 79-85 | 0.2 |
| 11 | P3 asymmetry elicited by original-pseudo art paintings using an oddball paradigm. <i>Journal of Vision</i> , 2019 , 19, 99 | 0.4 |
| 10 | Preference judgement for art paintings: large-scale subjects (30K) experiment revealing age-dependency. <i>Journal of Vision</i> , 2019 , 19, 98c | 0.4 |
| 9 | Preference of facing/lighting direction for portraits paintings. <i>Journal of Vision</i> , 2019 , 19, 97 | 0.4 |
| 8 | Vision in the extreme-periphery (3b): effects of eccentricity and foveal input on color perception. <i>Journal of Vision</i> , 2019 , 19, 72 | 0.4 |
| 7 | Visual-auditory crossmodal priming affects visual texture recognition. <i>Journal of Vision</i> , 2019 , 19, 21 | 0.4 |
| 6 | Association between temporal perception and pupillary response in Red/Blue stimuli. <i>Journal of Vision</i> , 2019 , 19, 164a | 0.4 |
| 5 | Dry Electrophysiology:An approach to the internal representation of brain functions through artificial neural networks 1994 , 118-122 | |
| 4 | Neural network models for normal and dichromatic color vision. <i>Documenta Ophthalmologica Proceedings Series</i> , 1995 , 127-134 | |
| 3 | Relationship between perceptual surface qualities and distinctive features in onomatopoetic expression. <i>Journal of Vision</i> , 2017 , 17, 768 | 0.4 |
| 2 | Influence of nacre thickness and crystal structure characteristics on interference color and luster of cultured Akoya pearl. <i>Nippon Suisan Gakkaishi</i> , 2021 , 87, 483-493 | 0.2 |
| 1 | Versatile band-pass filters for fluorescence imaging of the food products for quality assessment. <i>Food Science and Technology Research</i> , 2021 , 27, 203-210 | 0.8 |