Jae-Hyun Jung

List of Publications by Year
in descending order

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67 papers	1,091 citations	394286 19 h-index	414303 32 g-index
67 all docs	67 docs citations	67 times ranked	613 citing authors

#	Article	IF	Citations
1	Point light source integral imaging with improved resolution and viewing angle by the use of electrically movable pinhole array. Optics Express, 2007, 15, 18253.	1.7	105
2	Color moirÃ© pattern simulation and analysis in three-dimensional integral imaging for finding the moirÃ©-reduced tilted angle of a lens array. Applied Optics, 2009, 48, 2178.	2.1	70
3	Efficient Light Harvesting with Micropatterned 3D Pyramidal Photoanodes in Dyeâ€Sensitized Solar Cells. Advanced Materials, 2013, 25, 3111-3116.	11.1	65
4	Reconstruction of three-dimensional occluded object using optical flow and triangular mesh reconstruction in integral imaging. Optics Express, 2010, 18, 26373.	1.7	62
5	Multi-viewer tracking integral imaging system and its viewing zone analysis. Optics Express, 2009, 17, 17895.	1.7	61
6	Real-time integral imaging system for light field microscopy. Optics Express, 2014, 22, 10210.	1.7	55
7	Solution of pseudoscopic problem in integral imaging for real-time processing. Optics Letters, 2013, 38, 76.	1.7	50
8	Real-time capturing and 3D visualization method based on integral imaging. Optics Express, 2013, 21, 18742.	1.7	49
9	Active confocal imaging for visual prostheses. Vision Research, 2015, 111, 182-196.	0.7	48
10	Accommodative Response of Integral Imaging in Near Distance. Journal of Display Technology, 2012, 8, 70-78.	1.3	41
11	A frontal projection-type three-dimensional display. Optics Express, 2012, 20, 20130.	1.7	40
12	Rectification of elemental image set and extraction of lens lattice by projective image transformation in integral imaging. Optics Express, 2010, 18, 12002.	1.7	39
13	Resolution comparison between integral-imaging-based hologram synthesis methods using rectangular and hexagonal lens arrays. Optics Express, 2011, 19, 26917.	1.7	33
14	Depth enhancement of integral imaging by using polymer-dispersed liquid-crystal films and a dual-depth configuration. Optics Letters, 2010, 35, 3135.	1.7	27
15	Integral imaging system using an electroluminescent film backlight for three-dimensional-two-dimensional convertibility and a curved structure. Applied Optics, 2009, 48, 998.	2.1	26
16	Effect of fundamental depth resolution and cardboard effect to perceived depth resolution on multi-view display. Optics Express, 2011, 19, 20468.	1.7	26
17	Impact of high power and angle of incidence on prism corrections for visual field loss. Optical Engineering, 2014, 53, 061707.	0.5	26
18	Multiplexing Prisms for Field Expansion. Optometry and Vision Science, 2017, 94, 817-829.	0.6	24

#	Article	IF	Citations
19	Integral imaging using a color filter pinhole array on a display panel. Optics Express, 2012, 20, 18744.	1.7	21
20	High-Power Prismatic Devices for Oblique Peripheral Prisms. Optometry and Vision Science, 2016, 93, 521-533.	0.6	18
21	Measuring Pedestrian Collision Detection With Peripheral Field Loss and the Impact of Peripheral Prisms. Translational Vision Science and Technology, 2018, 7, 1.	1.1	17
22	Thin-type integral imaging method with an organic light emitting diode panel. Applied Optics, 2008, 47, 4927.	2.1	16
23	Elemental Image Generation Method with the Correction of Mismatch Error by Sub-pixel Sampling between Lens and Pixel in Integral Imaging. Journal of the Optical Society of Korea, 2012, 16, 29-35.	0.6	15
24	Field Expansion for Acquired Monocular Vision Using a Multiplexing Prism. Optometry and Vision Science, 2018, 95, 814-828.	0.6	13
25	Phase-only hologram generation based on integral imaging and its enhancement in depth resolution. Chinese Optics Letters, 2011, 9, 120009-120012.	1.3	12
26	No Useful Field Expansion with Full-field Prisms. Optometry and Vision Science, 2018, 95, 805-813.	0.6	11
27	Field Expansion with Multiplexing Prism Glasses Improves Pedestrian Detection for Acquired Monocular Vision. Translational Vision Science and Technology, 2020, 9, 35.	1.1	11
28	Retinal prosthetic vision simulation: temporal aspects. Journal of Neural Engineering, 2021, 18, 0460d9.	1.8	11
29	Motion Parallax Improves Object Recognition in the Presence of Clutter in Simulated Prosthetic Vision. Translational Vision Science and Technology, 2018, 7, 29.	1.1	10
30	Poor resolution at the back of the tongue is the bottleneck for spatial pattern recognition. Scientific Reports, 2020, 10, 2435.	1.6	10
31	Integral imaging with reduced color moire pattern by using a slanted lens array. Proceedings of SPIE, 2008, , .	0.8	9
32	65.2: Effect of Viewing Region Satisfying Super Multiâ€View Condition in Integral Imaging. Digest of Technical Papers SID International Symposium, 2012, 43, 883-886.	0.1	9
33	Depth-fused display with improved viewing characteristics. Optics Express, 2013, 21, 28758.	1.7	9
34	Develop Then Rival: A Human Vision-Inspired Framework for Superimposed Image Decomposition. IEEE Transactions on Multimedia, 2023, 25, 4267-4281.	5.2	8
35	360Â°â€viewable cylindrical integral imaging system using a 3â€Ð/2â€Ð switchable and flexible backlight. Journal of the Society for Information Display, 2010, 18, 527-534.	0.8	7
36	37.4: Accommodation Response in Viewing Integral Imaging. Digest of Technical Papers SID International Symposium, 2010, 41, 530.	0.1	6

#	Article	IF	Citations
37	Multi-periscopic prism device for field expansion. Biomedical Optics Express, 2020, 11, 4872.	1.5	6
38	Real-time pickup and display integral imaging system without pseudoscopic problem. , 2013, , .		5
39	Design of 45<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e600" altimg="si2.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mo>â˜</mml:mo></mml:mrow></mml:msup></mml:math> periscopic visual field expansion device for peripheral field loss. Optics Communications, 2020, 454, 124364.	1.0	5
40	Photographic Depiction of the Field of View with Spectacles-mounted Low Vision Aids. Optometry and Vision Science, 2021, 98, 1210-1226.	0.6	5
41	Analysis of the Motion Picture Quality of Stereoscopic Three-dimensional Images. Journal of the Optical Society of Korea, 2010, 14, 383-387.	0.6	3
42	View image error analysis based on focal mode and virtual mode in three-dimensional display using lenses. Proceedings of SPIE, 2011, , .	0.8	2
43	Word recognition: re-thinking prosthetic vision evaluation. Journal of Neural Engineering, 2018, 15, 055003.	1.8	2
44	Resolution-enhanced three-dimensional integral imaging using double display devices. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	1
45	Comparing object recognition from binary and bipolar edge images for visual prostheses. Journal of Electronic Imaging, 2016, 25, 061619.	0.5	1
46	Measurement of the accommodation response in viewing stereoscopic images. , 2008, , .		1
47	Improved viewing resolution of three-dimensional integral imaging using pinhole array on LC panel. , 2007, , .		0
48	High definition integral floating display with multiple spatial light modulators. Proceedings of SPIE, 2009, , .	0.8	0
49	Computational reacquisition of a real three-dimensional object for integral imaging without matching of pickup and display lens array. , 2011, , .		0
50	Viewing window expansion in integral floating display using tilted side mirrors. , 2011, , .		0
51	Evaluation of perceived depth resolution in multi-view threedimensional display using depth image-based rendering. , 2011, , .		0
52	Frontal projection-type 3D display using micro convex mirror array and relay optic. , 2011, , .		0
53	Experiment verification of hologram generation using intensity images. , 2012, , .		0
54	Comparing object recognition from binary and bipolar edge features. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-5.	0.3	0

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55	Computer-generation method for elemental image of integral floating display using virtual integral imaging system. , 2008, , .		0
56	A thin 3D-2D convertible integral imaging system using a pinhole array on an electroluminescent (EL) sheet. , 2008, , .		0
57	Depth-enhanced integral floating imaging system with variable image planes using polymer-dispersed liquid-crystal films. , 2008, , .		0
58	Three-Dimensional Conversion of Two-Dimensional Movie Using Optical Flow and Normalized Cut. Korean Journal of Optics and Photonics, 2009, 20, 16-22.	0.1	0
59	Object-Based Integral Imaging Depth Extraction Using Segmentation. Korean Journal of Optics and Photonics, 2009, 20, 94-101.	0.1	0
60	Enhanced optical depth converter based on integral imaging. , 2010, , .		0
61	Enhancement of pinhole type integral imaging system using color filters of liquid crystal display panel. , 2010, , .		0
62	Disparity estimation based on integral imaging in sub-pixel resolution using maximum a priori (MAP) registration. , 2010, , .		0
63	Depth-fused Display with Enhanced Viewing Region. , 2012, , .		0
64	3D noise-resistant segmentation and tracking of unknown and occluded objects using integral imaging. , 2017, , .		0
65	Light-field background de-cluttering for visual prostheses. , 2018, , .		0
66	Motion parallax improves recognition of new objects presented in clutter in simulated prosthetic vision. Journal of Vision, 2019, 19, 102.	0.1	0
67	Preparing participants for the use of the tongue visual sensory substitution device. Disability and Rehabilitation: Assistive Technology, 2020, , 1-9.	1.3	0