

Yi-Chin Fang

List of Publications by Year in descending order

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85
papers

498
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623188

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752256

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g-index

85
all docs

85
docs citations

85
times ranked

243
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical design of automotive headlight system incorporating digital micromirror device. Applied Optics, 2010, 49, 4182.	2.1	35
2	Optical design and multiobjective optimization of miniature zoom optics with liquid lens element. Applied Optics, 2009, 48, 1741.	2.1	28
3	Study of optimization of an LCD light guide plate with neural network and genetic algorithm. Optics Express, 2009, 17, 10177.	1.7	27
4	Eliminating chromatic aberration in Gauss-type lens design using a novel genetic algorithm. Applied Optics, 2007, 46, 2401.	2.1	26
5	A study of optical design and optimization of zoom optics with liquid lenses through modified genetic algorithm. Optics Express, 2011, 19, 16291.	1.7	26
6	Neural network application for thermal image recognition of low-resolution objects. Journal of Optics, 2007, 9, 134-144.	1.5	25
7	Optimization of Light Guide Plate with Microstructures for Extra Light Modern Backlight Module. Japanese Journal of Applied Physics, 2008, 47, 6683-6687.	0.8	24
8	Prism-pattern design of an LCD light guide plate using a neural-network optical model. Optik, 2010, 121, 2245-2249.	1.4	22
9	Optical design and optimization of light emitting diode automotive head light with digital micromirror device light emitting diode. Optik, 2010, 121, 944-952.	1.4	20
10	Optimizing chromatic aberration calibration using a novel genetic algorithm. Journal of Modern Optics, 2006, 53, 1411-1427.	0.6	17
11	Multi-objective design and extended optimization for developing a miniature light emitting diode pocket-sized projection display. Optical Review, 2008, 15, 241-250.	1.2	17
12	Optical Design of LCOS Optical Engine and Optimization With Genetic Algorithm. Journal of Display Technology, 2009, 5, 293-305.	1.3	17
13	Miniature lens design and optimization with liquid lens element via genetic algorithm. Journal of Optics, 2008, 10, 075304.	1.5	16
14	Extended optimization of chromatic aberrations via a hybrid Taguchi's genetic algorithm for zoom optics with a diffractive optical element. Journal of Optics, 2009, 11, 045706.	1.5	14
15	Design of a prism light-guide plate for an LCD backlight module. Journal of the Society for Information Display, 2008, 16, 545.	0.8	13
16	Chromatic aberration elimination for digital rear projection television L-type lens by genetic algorithms. Optics and Lasers in Engineering, 2008, 46, 363-372.	2.0	10
17	Prediction of the Thermal Imaging Minimum Resolvable (Circle) Temperature Difference with Neural Network Application. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 2218-2228.	9.7	10
18	Optical design and multi-objective optimization for U-type 2X zoom projection optics. Optics and Lasers in Engineering, 2010, 48, 411-420.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Combining Taguchi with fuzzy method on extended optimal design of miniature zoom optics with liquid lens. <i>Optik</i> , 2012, 123, 1768-1774.	1.4	10
20	Application of genetic algorithm on optimization of laser beam shaping. <i>Optics Express</i> , 2015, 23, 15877.	1.7	9
21	Suppression of primary chromatic aberration by genetic algorithm in an advanced telephoto lens. <i>Optik</i> , 2009, 120, 788-796.	1.4	7
22	A Study of Integrated Optical Design and Optimization for LED Backlight Module With Prism Patterns. <i>Journal of Display Technology</i> , 2014, 10, 840-846.	1.3	7
23	A Study of High-Efficiency Laser Headlight Design Using Gradient-Index Lens and Liquid Lens. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7331.	1.3	7
24	High-definition DLP zoom projector lens design with TIR prism for high-definition television (HDTV). , 2006, 6342, 306.		6
25	2 Å— Zoom Ratio Telecentric Projector Lens Design for 1080 P High Definition Television with Minimum 8000 K Color Temperature. <i>Optical Review</i> , 2007, 14, 325-333.	1.2	6
26	A study of extended optimization of U-type rod for LED projectors. <i>Optik</i> , 2011, 122, 385-390.	1.4	6
27	A new design mixing RGB LED (red, green, blue light-emitting diode) for a modern LCD (liquid crystal) Tj ETQq1 1 0.784314 rgBT /Ove		6
28	Optical design and extended multi-objective optimization of miniature L-type optics. <i>Journal of Optics</i> , 2009, 11, 105505.	1.5	5
29	Optical design of high performance con-focal microscopy with digital micro-mirror and stray light filters. <i>Optik</i> , 2010, 121, 2073-2079.	1.4	5
30	Optical design of adaptive automotive headlight system with digital micro-mirror device. <i>Proceedings of SPIE</i> , 2011, , .	0.8	5
31	Proposed fast performance evaluation of an imaging system with a discrete detector array. <i>Applied Optics</i> , 2014, 53, H195.	0.9	5
32	Human vision model in relation to characteristics of shapes for the Mach band effect. <i>Applied Optics</i> , 2015, 54, E181.	2.1	5
33	Study of extended optimization for U-type 2Å— zoom optics with free-form surface. <i>Optics and Lasers in Engineering</i> , 2010, 48, 368-379.	2.0	4
34	2X optical digital zoom lens with short total length and extremely small front aperture for two-million-pixel CMOS on mobile phones. , 2007, , .		3
35	Eliminating lateral color aberration of a high-resolution digital projection lens using a novel genetic algorithm. <i>Optical Engineering</i> , 2007, 46, 073003.	0.5	3
36	Studies of human vision recognition: some improvements. <i>Journal of Modern Optics</i> , 2010, 57, 107-114.	0.6	3

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37	A study of optical design of aspheric optical glasses based on Kiou & Brennan eyes spherical model. <i>Optik</i> , 2013, 124, 1726-1729.	1.4	3
38	Study of optical design of Blu-ray pickup head system with a liquid crystal element. <i>Applied Optics</i> , 2014, 53, H153.	0.9	3
39	Optical design and testing: introduction. <i>Applied Optics</i> , 2014, 53, ODT1.	0.9	3
40	Measurement and analysis of modulation transfer function of digital image sensors. <i>Microsystem Technologies</i> , 2022, 28, 137-142.	1.2	3
41	Application of Dimming Compensation Technology Via Liquid Crystal Lens for Non-Imaging Projection Laser Systems. <i>Crystals</i> , 2019, 9, 122.	1.0	3
42	Low-Glare Freeform-Surfaced Street Light Luminaire Optimization to Meet Enhanced Road Lighting Standards. <i>International Journal of Optics</i> , 2020, 2020, 1-12.	0.6	3
43	Applications of neural networks in human shape visual perception. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 2338.	0.8	3
44	A study of optical design of zoom optics. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
45	Improvement of Filed Curvature Aberration in a Projector Lens by Using Hybrid Genetic Algorithm With Damped Least Square Optimization. <i>Journal of Display Technology</i> , 2015, 11, 1023-1030.	1.3	2
46	Design and Prototyping of Efficient LED Counter Beam Light with Free-Formed Surface for Meeting International Tunnel Lighting Standards. <i>Energies</i> , 2021, 14, 488.	1.6	2
47	Optical Design and Optimization with Genetic Algorithm for High-Resolution Optics Applied to Underwater Remote-Sensing. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10200.	1.3	2
48	Extended optimization for 350X zoom optics via hybrid Tagushi genetic algorithm. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
49	Optimization of optics with micro diffractive optical element via a hybrid Taguchi genetic algorithm. , 2009, , .		1
50	Optical design and optimization of zoom optics with diffractive optical element. , 2009, , .		1
51	Study on human vision model of the multi-parameter correction factor. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
52	Optimization of 350Å— optical zoom lens with diffractive optical element. <i>Optik</i> , 2010, 121, 1912-1918.	1.4	1
53	A study of optical design and optimization applied to lens module of laser beam shaping of advanced modern optical device. , 2011, , .		1
54	Optical Design of External Illuminance for Display Backlight Module. <i>Journal of Display Technology</i> , 2015, 11, 979-986.	1.3	1

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55	Study of optical design of three-dimensional digital ophthalmoscopes. Applied Optics, 2015, 54, E224.	2.1	1
56	Optical Design for Novel Glasses-Type 3D Wearable Ophthalmoscope. Applied Sciences (Switzerland), 2019, 9, 717.	1.3	1
57	A study of multi-angles knife-edge method applied to digital modulation transfer function measurement. Microsystem Technologies, 2021, 27, 1429-1437.	1.2	1
58	A Study of Artificial Neural Network Technology Applied to Image Recognition for Underwater Images. IEEE Access, 2022, 10, 13844-13851.	2.6	1
59	Near infrared spectrum simulation applied to human skin for diagnosis. Proceedings of SPIE, 2007, , .	0.8	0
60	Eliminating chromatic aberration of lens and recognition of thermal images with artificial intelligence applications. Proceedings of SPIE, 2007, , .	0.8	0
61	Zoom optics design and optimization with digital image process. , 2008, , .		0
62	Confocal microscopy scanned by digital micromirror device with stray light filters. Proceedings of SPIE, 2008, , .	0.8	0
63	Study on the improvement of overall optical image quality via digital image processing. , 2008, , .		0
64	Primary chromatic aberration elimination via optimization work with genetic algorithm. Proceedings of SPIE, 2008, , .	0.8	0
65	Neural network implementation for an optical model of LCD backlight module. , 2008, , .		0
66	A study of power saving LED back light module. , 2010, , .		0
67	Optical design and multi-objective optimization for u-type 2X zoom projection optics. , 2010, , .		0
68	A study of optical design for optics of high contrast projector. , 2011, , .		0
69	A study of optical design of backlight module with external illuminance. Proceedings of SPIE, 2011, , .	0.8	0
70	Optical design of light guide film with external illuminance backlight module. , 2011, , .		0
71	A study of blue-ray pickup head optical system with liquid crystal optics module. , 2011, , .		0
72	Improvement of Petzval Field Curvature in Projector Lens Optimization Design. , 2012, , .		0

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73	On designing Blu-ray pickup head system with Liquid Crystal Lens. , 2012, , .		0
74	A study of new optimization of LED projector with high efficiency and contrast. , 2012, , .		0
75	Advances in optical design and optimization of miniature zoom optics with liquid lens element. Proceedings of SPIE, 2012, , .	0.8	0
76	A study of optical design and optimization of laser optics. Proceedings of SPIE, 2013, , .	0.8	0
77	Discrete optimization method applied to optical design. Proceedings of SPIE, 2013, , .	0.8	0
78	A study of optical design of power-saving backlight module with external illuminance. Proceedings of SPIE, 2014, , .	0.8	0
79	Optical design and testing: introduction. Applied Optics, 2015, 54, ODT1.	2.1	0
80	A study of high ratio zoom optics with intermediate image. , 2015, , .		0
81	A study of modulation transfer function of digital image system via microscanning technique. , 2015, , .		0
82	Application of blurred circular 3D images on the human vision model. Microsystem Technologies, 2021, 27, 1099-1105.	1.2	0
83	Effect of device structure on signal measurement of zinc oxide nanocolumn-based resonant cavity hydrophones. Modern Physics Letters B, 0, , 2141012.	1.0	0
84	High Definition DLP Zoom Projector Lens Design with TIR prism for HDTV. , 2006, , .		0
85	Optical design of three-dimensional digital ophthalmoscopes. , 2016, , .		0