Yi-Chin Fang

List of Publications by Year
in descending order

85 papers	498 citations	623188 14 h-index	752256 20 g-index
85 all docs	85 docs citations	85 times ranked	243 citing authors

#	Article	IF	Citations
1	Measurement and analysis of modulation transfer function of digital image sensors. Microsystem Technologies, 2022, 28, 137-142.	1.2	3
2	A Study of Artificial Neural Network Technology Applied to Image Recognition for Underwater Images. IEEE Access, 2022, 10, 13844-13851.	2.6	1
3	Application of blurred circular 3D images on the human vision model. Microsystem Technologies, 2021, 27, 1099-1105.	1.2	0
4	A study of multi-angles knife-edge method applied to digital modulation transfer function measurement. Microsystem Technologies, 2021, 27, 1429-1437.	1.2	1
5	Design and Prototyping of Efficient LED Counter Beam Light with Free-Formed Surface for Meeting International Tunnel Lighting Standards. Energies, 2021, 14, 488.	1.6	2
6	Optical Design and Optimization with Genetic Algorithm for High-Resolution Optics Applied to Underwater Remote-Sensing. Applied Sciences (Switzerland), 2021, 11, 10200.	1.3	2
7	Low-Glare Freeform-Surfaced Street Light Luminaire Optimization to Meet Enhanced Road Lighting Standards. International Journal of Optics, 2020, 2020, 1-12.	0.6	3
8	A Study of High-Efficiency Laser Headlight Design Using Gradient-Index Lens and Liquid Lens. Applied Sciences (Switzerland), 2020, 10, 7331.	1.3	7
9	Application of Dimming Compensation Technology Via Liquid Crystal Lens for Non-Imaging Projection Laser Systems. Crystals, 2019, 9, 122.	1.0	3
10	Optical Design for Novel Glasses-Type 3D Wearable Ophthalmoscope. Applied Sciences (Switzerland), 2019, 9, 717.	1.3	1
11	Optical design of three-dimensional digital ophthalmoscopes. , 2016, , .		0
12	Optical design and testing: introduction. Applied Optics, 2015, 54, ODT1.	2.1	0
13	Improvement of Filed Curvature Aberration in a Projector Lens by Using Hybrid Genetic Algorithm With Damped Least Square Optimization. Journal of Display Technology, 2015, 11, 1023-1030.	1.3	2
14	Optical Design of External Illuminance for Display Backlight Module. Journal of Display Technology, 2015, 11, 979-986.	1.3	1
15	Study of optical design of three-dimensional digital ophthalmoscopes. Applied Optics, 2015, 54, E224.	2.1	1
16	Application of genetic algorithm on optimization of laser beam shaping. Optics Express, 2015, 23, 15877.	1.7	9
17	Human vision model in relation to characteristics of shapes for the Mach band effect. Applied Optics, 2015, 54, E181.	2.1	5
18	A study of high ratio zoom optics with intermediate image. , 2015, , .		0

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19	A study of modulation transfer function of digital image system via microscanning technique. , 2015, , .		0
20	Applications of neural networks in human shape visual perception. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 2338.	0.8	3
21	A Study of Integrated Optical Design and Optimization for LED Backlight Module With Prism Patterns. Journal of Display Technology, 2014, 10, 840-846.	1.3	7
22	Proposed fast performance evaluation of an imaging system with a discrete detector array. Applied Optics, 2014, 53, H195.	0.9	5
23	Study of optical design of Blu-ray pickup head system with a liquid crystal element. Applied Optics, 2014, 53, H153.	0.9	3
24	Optical design and testing: introduction. Applied Optics, 2014, 53, ODT1.	0.9	3
25	A study of optical design of power-saving backlight module with external illuminance. Proceedings of SPIE, 2014, , .	0.8	0
26	A study of optical design of aspheric optical glasses based on Kiou & Brennan eyes spherical model. Optik, 2013, 124, 1726-1729.	1.4	3
27	A study of optical design and optimization of laser optics. Proceedings of SPIE, 2013, , .	0.8	0
28	A study of optical design of zoom optics. Proceedings of SPIE, 2013, , .	0.8	2
29	Discrete optimization method applied to optical design. Proceedings of SPIE, 2013, , .	0.8	0
30	Improvement of Petzval Field Curvature in Projector Lens Optimization Design. , 2012, , .		0
31	Combining Taguchi with fuzzy method on extended optimal design of miniature zoom optics with liquid lens. Optik, 2012, 123, 1768-1774.	1.4	10
32	On designing Blu-ray pickup head system with Liquid Crystal Lens. , 2012, , .		0
33	A study of new optimization of LED projector with high efficiency and contrast. , 2012, , .		0
34	Advances in optical design and optimization of miniature zoom optics with liquid lens element. Proceedings of SPIE, 2012, , .	0.8	0
35	A study of optical design for optics of high contrast projector. , 2011, , .		0
36	A study of optical design and optimization applied to lens module of laser beam shaping of advanced modern optical device. , 2011, , .		1

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37	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
38	A study of optical design of backlight module with external illuminance. Proceedings of SPIE, 2011, , .	0.8	0
39	Optical design of light guide film with external illuminance backlight module. , 2011, , .		0
40	Optical design of adaptive automotive headlight system with digital micro-mirror device. Proceedings of SPIE, 2011, , .	0.8	5
41	A study of blue-ray pickup head optical system with liquid crystal optics module. , 2011, , .		0
42	A study of extended optimization of U-type rod for LED projectors. Optik, 2011, 122, 385-390.	1.4	6
43	A study of power saving LED back light module. , 2010, , .		0
44	Optical design and multi-objective optimization for u-type 2X zoom projection optics. , 2010, , .		0
45	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
46	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
47	Optimization of 350Ã— optical zoom lens with diffractive optical element. Optik, 2010, 121, 1912-1918.	1.4	1
48	Optical design of high performance con-focal microscopy with digital micro-mirror and stray light filters. Optik, 2010, 121, 2073-2079.	1.4	5
49	Prism-pattern design of an LCD light guide plate using a neural-network optical model. Optik, 2010, 121, 2245-2249.	1.4	22
50	Study of extended optimization for U-type 2Ã— zoom optics with free-form surface. Optics and Lasers in Engineering, 2010, 48, 368-379.	2.0	4
51	Studies of human vision recognition: some improvements. Journal of Modern Optics, 2010, 57, 107-114.	0.6	3
52	Optical design of automotive headlight system incorporating digital micromirror device. Applied Optics, 2010, 49, 4182.	2.1	35
53	Optimization of optics with micro diffractive optical element via a hybrid Taguchi genetic algorithm. , 2009, , .		1
54	Optical design and optimization of zoom optics with diffractive optical element. , 2009, , .		1

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55	Extended optimization of chromatic aberrations via a hybrid Taguchi–genetic algorithm for zoom optics with a diffractive optical element. Journal of Optics, 2009, 11, 045706.	1.5	14
56	Optical design and extended multi-objective optimization of miniature L-type optics. Journal of Optics, 2009, 11, 105505.	1.5	5
57	Suppression of primary chromatic aberration by genetic algorithm in an advanced telephoto lens. Optik, 2009, 120, 788-796.	1.4	7
58	Optical Design of LCOS Optical Engine and Optimization With Genetic Algorithm. Journal of Display Technology, 2009, 5, 293-305.	1.3	17
59	Study of optimization of an LCD light guide plate with neural network and genetic algorithm. Optics Express, 2009, 17, 10177.	1.7	27
60	Optical design and multiobjective optimization of miniature zoom optics with liquid lens element. Applied Optics, 2009, 48, 1741.	2.1	28
61	Study on human vision model of the multi-parameter correction factor. Proceedings of SPIE, 2009, , .	0.8	1
62	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
63	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
64	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
65	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
66	Zoom optics design and optimization with digital image process. , 2008, , .		0
67	Miniature lens design and optimization with liquid lens element via genetic algorithm. Journal of Optics, 2008, 10, 075304.	1.5	16
68	Extended optimization for 350X zoom optics via hybrid Tagushi genetic algorithm. Proceedings of SPIE, 2008, , .	0.8	1
69	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
70	Confocal microscopy scanned by digital micromirror device with stray light filters. Proceedings of SPIE, 2008, , .	0.8	0
71	Study on the improvement of overall optical image quality via digital image processing. , 2008, , .		0
72	Primary chromatic aberration elimination via optimization work with genetic algorithm. Proceedings of SPIE, 2008, , .	0.8	0

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73	Neural network implementation for an optical model of LCD backlight module. , 2008, , .		0
74	Neural network application for thermal image recognition of low-resolution objects. Journal of Optics, 2007, 9, 134-144.	1.5	25
75	Near infrared spectrum simulation applied to human skin for diagnosis. Proceedings of SPIE, 2007, , .	0.8	0
76	Eliminating chromatic aberration of lens and recognition of thermal images with artificial intelligence applications. Proceedings of SPIE, 2007, , .	0.8	0
77	2X optical digital zoom lens with short total length and extremely small front aperture for two-million-pixel CMOS on mobile phones. , 2007, , .		3
78	Eliminating chromatic aberration in Gauss-type lens design using a novel genetic algorithm. Applied Optics, 2007, 46, 2401.	2.1	26
79	Eliminating lateral color aberration of a high-resolution digital projection lens using a novel genetic algorithm. Optical Engineering, 2007, 46, 073003.	0.5	3
80	2 Ã— Zoom Ratio Telecentric Projector Lens Design for 1080 P High Definition Television with Minimum 8000 K Color Temperature. Optical Review, 2007, 14, 325-333.	1.2	6
81	High-definition DLP zoom projector lens design with TIR prism for high-definition television (HDTV). , 2006, 6342, 306.		6
82	Optimizing chromatic aberration calibration using a novel genetic algorithm. Journal of Modern Optics, 2006, 53, 1411-1427.	0.6	17
83	A new design mixing RGB LED (red, green, blue light-emitting diode) for a modern LCD (liquid crystal) Tj ETQq1 1 0.784314 rgBT /Overlock		5
84	High Definition DLP Zoom Projector Lens Design with TIR prism for HDTV. , 2006, , .		0
85	Effect of device structure on signal measurement of zinc oxide nanocolumn-based resonant cavity hydrophones. Modern Physics Letters B, 0, , 2141012.	1.0	0