

# Youri Meuret

## List of Publications by Year in descending order

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Version: 2024-02-01

117  
papers

1,120  
citations

471509

17  
h-index

454955

30  
g-index

117  
all docs

117  
docs citations

117  
times ranked

771  
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. Review of Scientific Instruments, 2014, 85, 123115.	1.3	96
2	Standardized speckle measurement method matched to human speckle perception in laser projection systems. Optics Express, 2012, 20, 8770.	3.4	73
3	Analytic design method for optimal imaging: coupling three ray sets using two free-form lens profiles. Optics Express, 2012, 20, 5576.	3.4	68
4	Potential benefits of free-form optics in on-axis imaging applications with high aspect ratio. Optics Express, 2013, 21, 31072.	3.4	53
5	Ray mapping method for off-axis and non-paraxial freeform illumination lens design. Optics Letters, 2019, 44, 771.	3.3	51
6	Analytic free-form lens design in 3D: coupling three ray sets using two lens surfaces. Optics Express, 2012, 20, 10839.	3.4	49
7	Tracking integration in concentrating photovoltaics using laterally moving optics. Optics Express, 2011, 19, A207.	3.4	46
8	Tailored free-form optics with movement to integrate tracking in concentrating photovoltaics. Optics Express, 2013, 21, A401.	3.4	41
9	Human speckle perception threshold for still images from a laser projection system. Optics Express, 2014, 22, 23965.	3.4	39
10	Demonstration of a multichannel, multiresolution imaging system. Applied Optics, 2013, 52, 6081.	1.8	31
11	Estimation of the effective phase function of bulk diffusing materials with the inverse adding-doubling method. Applied Optics, 2014, 53, 2117.	1.8	27
12	Flexible design method for freeform lenses with an arbitrary lens contour. Optics Letters, 2017, 42, 5238.	3.3	25
13	Speckle disturbance limit in laser-based cinema projection systems. Scientific Reports, 2015, 5, 14105.	3.3	23
14	Demonstration of a multiview projection display using decentered microlens arrays. Optics Express, 2010, 18, 26092.	3.4	21
15	Power and photon budget of a remote phosphor LED module. Optics Express, 2014, 22, A1079.	3.4	21
16	Low-speckle laser projection with a broad-area vertical-cavity surface-emitting laser in the nonmodal emission regime. Applied Optics, 2009, 48, 792.	2.1	17
17	Survey of Models for Acquiring the Optical Properties of Translucent Materials. Computer Graphics Forum, 2020, 39, 729-755.	3.0	17
18	Efficient, high-CRI white LEDs by combining traditional phosphors with cadmium-free InP/ZnSe red quantum dots. Photonics Research, 2022, 10, 155.	7.0	17

#	ARTICLE	IF	CITATIONS
19	Selecting the optimal synthesis parameters of InP/CdxZn <sub>1-x</sub> Se quantum dots for a hybrid remote phosphor white LED for general lighting applications. Optics Express, 2017, 25, A1009.	3.4	16
20	Two LCOS full color projector with efficient LED illumination engine. Displays, 2009, 30, 155-163.	3.7	15
21	An Efficient Optothermal Simulation Framework for Optimization of High-Luminance White Light Sources. IEEE Photonics Journal, 2016, 8, 1-15.	2.0	15
22	Luminance spreading freeform lens arrays with accurate intensity control. Optics Express, 2019, 27, 32994.	3.4	15
23	Contrast-improving methods for Digital Micromirror Device projectors. Optical Engineering, 2003, 42, 840.	1.0	14
24	Incoupling and outcoupling of light from a luminescent rod using a compound parabolic concentrator. Optical Engineering, 2015, 54, 055101.	1.0	14
25	Efficient illumination in LED-based projection systems using lenslet integrators. , 2006, 6196, 48.		13
26	Design of a multichannel, multiresolution smart imaging system. Applied Optics, 2012, 51, 4810.	1.8	13
27	Projection display for the generation of two orthogonal polarized images using liquid crystal on silicon panels and light emitting diodes. Applied Optics, 2008, 47, 1535.	2.1	12
28	Stereoscopic projector for polarized viewing with extended color gamut. Displays, 2010, 31, 73-81.	3.7	11
29	Prescribed intensity design for extended sources in three-dimensional rotational geometry. Optics Letters, 2015, 40, 2130.	3.3	11
30	Freeform Fresnel lenses with a low number of discontinuities for tailored illumination applications. Optics Express, 2020, 28, 24489.	3.4	11
31	Comparison of the light output of LCOS projection architectures using LEDs. Displays, 2008, 29, 1-9.	3.7	10
32	An insect eye-based image sensor with very large field of view. , 2010, , .		10
33	Improved and Robust Spectral Reflectance Estimation. LEUKOS - Journal of Illuminating Engineering Society of North America, 2021, 17, 359-379.	2.9	10
34	Tuning color and saving energy with spatially variable laser illumination. Optics Express, 2019, 27, 27136.	3.4	10
35	Two-channel multiresolution refocusing imaging system using a tunable liquid lens. Applied Optics, 2014, 53, 4002.	1.8	9
36	Impact of the Geometrical and Optical Parameters on the Performance of a Cylindrical Remote Phosphor LED. IEEE Photonics Journal, 2015, 7, 1-14.	2.0	9

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37	Two liquid crystal on silicon panel projector with efficient light-emitting diode illumination engine. Optical Engineering, 2007, 46, 124002.	1.0	8
38	14.1: Efficient and Compact Illumination in LED Projection Displays. Digest of Technical Papers SID International Symposium, 2007, 38, 947-950.	0.3	8
39	Improving the opto-thermal performance of transmissive laser-based white light sources through beam shaping. Optics Express, 2019, 27, A235.	3.4	8
40	<title>Increased lumens per etendue by combining pulsed LEDs</title>. , 2005, , .		7
41	LED projector with two liquid crystal on silicon light valves and a flyâ€™s eye integrator. Displays, 2008, 29, 464-470.	3.7	7
42	Tolerance Design of an Optomechanical Transmitter Assembly for Automotive Applications. IEEE Photonics Technology Letters, 2009, 21, 1178-1180.	2.5	7
43	Design of a compact projection display for the visualization of 3D images using polarization sensitive eyeglasses. Journal of the Society for Information Display, 2009, 17, 603-609.	2.1	7
44	Propagation of partially coherent light through a light pipe. Optics Express, 2013, 21, 17007.	3.4	7
45	Determination of the optimal amount of scattering in a wavelength conversion plate for white LEDs. Optics Express, 2015, 23, A1629.	3.4	7
46	Single projector multiview displays: directional illumination compared to beam steering. Proceedings of SPIE, 2010, , .	0.8	6
47	Perfect imaging of three object points with only two analytic lens surfaces in two dimensions. , 2012, , .		6
48	Efficient disparity vector prediction schemes with modified P frame for 2D camera arrays. Journal of Visual Communication and Image Representation, 2012, 23, 287-292.	2.8	6
49	Determination of volume scattering parameters that reproduce the luminance characteristics of diffusers. Optics Express, 2016, 24, 11727.	3.4	6
50	Radiance based method for accurate determination of volume scattering parameters using GPU-accelerated Monte Carlo. Optics Express, 2017, 25, 22575.	3.4	6
51	Optical engines for high-performance liquid crystal on silicon projection systems. Optical Engineering, 2003, 42, 3551.	1.0	5
52	Color uniformity in compact LED illumination for DMD projectors. , 2010, , .		5
53	Analysis of two novel concepts for multiview three-dimensional displays using one projector. Optical Engineering, 2010, 49, 127401.	1.0	5
54	Analytic free-form lens design for imaging applications with high aspect ratio. , 2012, , .		5

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55	A hybrid tool for spectral ray tracing simulations of luminescent cascade systems. Optics Express, 2014, 22, 24582.	3.4	5
56	Comprehensive numerical design approach for refractive laser beam shapers to generate annular irradiance profiles. Optical Engineering, 2014, 53, 085103.	1.0	5
57	Compact illumination system with variable beam direction and beam divergence. Lighting Research and Technology, 2021, 53, 345-358.	2.7	5
58	LED based full color stereoscopic projection system. , 2007, , .		4
59	Efficient disparity vector coding for multi-view 3D displays. , 2010, , .		4
60	Integrating tracking in concentrating photovoltaics using non-rotational symmetric laterally moving optics. , 2011, , .		4
61	Fundamental Spectral Boundaries of Circadian Tunability. IEEE Photonics Journal, 2021, 13, 1-5.	2.0	4
62	Design, modeling, and prototyping of microinterferometric tomography system for optical fiber inspection. , 2006, , .		3
63	Benchmarking concentrating photovoltaic systems. Proceedings of SPIE, 2010, , .	0.8	3
64	Down scaling of micro-structured Fresnel lenses for solar concentration: a quantitative investigation. , 2010, , .		3
65	Taking the spectral overlap between excitation and emission spectra of fluorescent materials into account with Monte Carlo simulations. , 2014, , .		3
66	Efficient Design Method of Segmented Lenses for Lighting Applications with Prescribed Intensity and Low Peak Luminance. LEUKOS - Journal of Illuminating Engineering Society of North America, 2019, 15, 281-292.	2.9	3
67	Holistic opto-thermal simulation framework for high-brightness light sources based on fluorescent conversion. Optics Express, 2019, 27, A1324.	3.4	3
68	Efficient transmissive remote phosphor configuration for a laser-driven high-luminance white light source. Optics Express, 2022, 30, 5107.	3.4	3
69	Realistic opto-mechanical modelling of plastic optical fiber coupling systems. , 2008, , .		2
70	Far-Field Nonmodal Laser Emission for Low-Speckle Laser Projection. IEEE Photonics Technology Letters, 2009, 21, 1487-1489.	2.5	2
71	LED projection architectures for stereoscopic and multiview 3D displays. , 2010, , .		2
72	Spot phosphor concept applied to a remote phosphor light-emitting diode light engine. Optical Engineering, 2016, 55, 115103.	1.0	2

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73	Electrical characterization of white SrS/ZnS multilayer thin-film electroluminescent devices. Journal of Applied Physics, 2000, 88, 2906-2911.	2.5	1
74	Design of axisymmetrical tailored concentrators for LED light source applications. , 2006, 6196, 27.		1
75	Improving the color uniformity of a LED-array based illumination system with a tailored light distribution. , 2009, , .		1
76	Low-speckle laser projection using farfield nonmodal emission of a broad-area vertical-cavity surface-emitting laser. , 2010, , .		1
77	Analytic free-form lens design for tracking integration in concentrating photovoltaics. Proceedings of SPIE, 2012, , .	0.8	1
78	The experimental characterization of the absorption and scatter properties of photopolymers. Proceedings of SPIE, 2012, , .	0.8	1
79	Optical design of a multi-channel, multi-resolution imaging system. Proceedings of SPIE, 2012, , .	0.8	1
80	Proof-of-concept demonstration of a miniaturized three-channel multiresolution imaging system. Proceedings of SPIE, 2014, , .	0.8	1
81	Spot phosphor concept applied to the remote phosphor configuration of a white phosphor-converted LED. Proceedings of SPIE, 2016, , .	0.8	1
82	Opto-thermal study of cooling strategies for high-luminance white-light solid-state sources. , 2016, , .		1
83	Speckle perception and disturbance limit in laser based projectors. Proceedings of SPIE, 2016, , .	0.8	1
84	Light propagation in a GRIN microlens with gain or loss and comparison with lossless case. , 2006, , .		0
85	Design of a light-guide used for the real-time monitoring of LCD-displays. , 2006, , .		0
86	Design, fabrication, and characterization of a low-cost lens-based fibre connector for passive optical networks. , 2006, 6185, 334.		0
87	Optical design of a compact illumination system for LED projection displays. Proceedings of SPIE, 2008, , .	0.8	0
88	Pâ€250L: <i>Late News Poster</i>: Lowâ€Speckle Laser Projection with a Broadâ€Area VCSEL in the Incoherent Emission Regime. Digest of Technical Papers SID International Symposium, 2008, 39, 2098-2101.	0.3	0
89	Demonstration of a polarization-based full-color stereoscopic projection display using liquid crystal on silicon panels and light emitting diodes. Proceedings of SPIE, 2008, , .	0.8	0
90	Reliable simulation of optical bridge system by exchanging optical field data. , 2008, , .		0

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91	Realistic opto-mechanical simulation and tolerancing of an automotive optical transmitter coupling system. , 2010, , .		0
92	3.3: Efficient PolarizationBased Stereoscopic Projector with Extended Color Gamut: Combining Two Projectors into One. Digest of Technical Papers SID International Symposium, 2010, 41, 9-12.	0.3	0
93	Speckle characteristics of a laser projector using nonmodal laser emission of a semiconductor laser. , 2010, , .		0
94	Reduced complexity multi-view video coding scheme for 2D camera arrays. , 2011, , .		0
95	Evaluation of an extensive speckle measurement method. Proceedings of SPIE, 2012, , .	0.8	0
96	Characterization of a low-speckle laser line generator. Applied Optics, 2012, 51, 4818.	1.8	0
97	Reduced-complexity multiview prediction scheme with content-adaptive disparity vector estimation. Journal of Electronic Imaging, 2012, 21, 033009-1.	0.9	0
98	Low speckle line generation using a semiconductor laser source. Proceedings of SPIE, 2012, , .	0.8	0
99	A content-adaptive scheme for reduced-complexity, multi-view video coding. Proceedings of SPIE, 2012, , .	0.8	0
100	Optical characterization of a miniaturized large field of view motion sensor. Proceedings of SPIE, 2012, , .	0.8	0
101	An iterative approach for modeling the interaction of a partial coherent light distribution with an absorbing photosensitive polymer. , 2012, , .		0
102	A three-channel miniaturized optical system for multi-resolution imaging. Proceedings of SPIE, 2013, , .	0.8	0
103	Proof-of-concept demonstration of a miniaturized multi-resolution refocusing imaging system using an electrically tunable lens. Proceedings of SPIE, 2014, , .	0.8	0
104	Refocusing capabilities in a miniaturized multi-channel multi-resolution imaging system using a tunable lens. , 2014, , .		0
105	Design of refractive laser beam shapers to generate complex irradiance profiles. Proceedings of SPIE, 2014, , .	0.8	0
106	The influence of a light pipe on the coherence properties in laser projectors. Proceedings of SPIE, 2014, , .	0.8	0
107	Simulation of white LEDs with a planar luminescent layer using the extended Adding-Doubling method. , 2015, , .		0
108	Evaluation of simulation alternatives for the brute-force ray-tracing approach used in backlight design. Proceedings of SPIE, 2016, , .	0.8	0

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109	Design of focal beam shaping system through irradiance and phase control. Proceedings of SPIE, 2016, , .	0.8	0
110	Enhanced performance of refractive laser beam shapers through additional phase control at focus. Optical Engineering, 2016, 55, 085106.	1.0	0
111	Multi-channel Micro-optical Smart Imaging Systems. , 2013, , .		0
112	Selecting the optimal synthesis parameters of InP/Cd[x]Zn[1-x]Se quantum dots when combined with different broad band phosphors to optimize color rendering and efficiency of a remote phosphor white LED. , 2017, , .		0
113	Opto-thermal design of a white light point source based on high power blue laser diodes (Conference) Tj ETQq1 1 0.784314 rgBT /Overl		0
114	Design of a freeform, luminance spreading illumination lens with a continuous surface. , 2018, , .		0
115	Accurate and robust characterization of volume scattering materials using the intensity-based inverse adding-doubling method. , 2019, , .		0
116	Multi-channel freeform optics for glare-free lighting. , 2019, , .		0
117	Modeling and design of Microinterferometric Tomography. , 2007, , 653-657.		0