

# Petri Krh

## 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.

83  
papers

831  
citations

15  
h-index

23  
g-index

89  
ext. papers

913  
ext. citations

2  
avg, IF

3.76  
L-index

#	Paper	IF	Citations
83	Advantages of white LED lamps and new detector technology in photometry. <i>Light: Science and Applications</i> , <b>2015</b> , 4, e332-e332	16.7	122
82	Development of a detector-based absolute spectral irradiance scale in the 380-900-nm spectral range. <i>Applied Optics</i> , <b>1997</b> , 36, 8909-18	1.7	36
81	Spectral reflectance of silicon photodiodes. <i>Applied Optics</i> , <b>1998</b> , 37, 729-32	1.7	35
80	Nonlinearity measurements of silicon photodetectors. <i>Applied Optics</i> , <b>1998</b> , 37, 2716-22	1.7	34
79	Spectral irradiance measurements of tungsten lamps with filter radiometers in the spectral range 290 nm to 900 nm. <i>Metrologia</i> , <b>2000</b> , 37, 305-312	2.1	27
78	Measurement of the absolute linearity of photodetectors with a diode laser. <i>Measurement Science and Technology</i> , <b>1999</b> , 10, 1075-1078	2	25
77	Optical power and transmittance measurements and their use in detector-based realization of the luminous intensity scale. <i>Optical Engineering</i> , <b>1995</b> , 34, 2611	1.1	24
76	Characterization of a polarization-independent transmission trap detector. <i>Applied Optics</i> , <b>1997</b> , 36, 2807-12	1.7	23
75	Realization of the unit of luminous intensity at the HUT. <i>Metrologia</i> , <b>2000</b> , 37, 131-140	2.1	22
74	Radiometric realization of the candela with a trap detector. <i>Metrologia</i> , <b>1995</b> , 32, 689-692	2.1	21
73	Method for analysing luminous intensity of light-emitting diodes. <i>Measurement Science and Technology</i> , <b>2007</b> , 18, 223-229	2	20
72	Relationships between junction temperature, electroluminescence spectrum and ageing of light-emitting diodes. <i>Metrologia</i> , <b>2018</b> , 55, S86-S95	2.1	18
71	Characterizing a UV chamber with mercury lamps for assessment of comparability to natural UV conditions. <i>Polymer Testing</i> , <b>2009</b> , 28, 57-65	4.5	16
70	Interpolation of the spectral responsivity of silicon photodetectors in the near ultraviolet. <i>Applied Optics</i> , <b>2000</b> , 39, 9-15	1.7	16
69	Characterisation of optical detectors using high-accuracy instruments. <i>Analytica Chimica Acta</i> , <b>1999</b> , 380, 327-337	6.6	16
68	Estimation of the optical receiving plane positions of solar spectroradiometers with spherical diffusers on the basis of spatial responsivity data. <i>Optics Letters</i> , <b>2009</b> , 34, 3241-3	3	14
67	Determination of distance offsets of diffusers for accurate radiometric measurements. <i>Metrologia</i> , <b>2006</b> , 43, S120-S124	2.1	14

66	New source and detector technology for the realization of photometric units. <i>Metrologia</i> , <b>2014</b> , 51, S276-S281	2.1	13
65	Spectral irradiance model for tungsten halogen lamps in 340-850 nm wavelength range. <i>Applied Optics</i> , <b>2010</b> , 49, 880-6	0.2	13
64	Intercomparison of lamp and detector-based UV-irradiance scales for solar UV radiometry. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 4821-4827		13
63	Filter radiometry based on direct utilization of trap detectors. <i>Metrologia</i> , <b>1998</b> , 35, 255-259	2.1	13
62	Characterization of germanium photodiodes and trap detector. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 908-912	2	12
61	Determination of the diffuser reference plane for accurate illuminance responsivity calibrations. <i>Applied Optics</i> , <b>2005</b> , 44, 5894-8	1.7	12
60	Measurements of fibre optic power using photodiodes with and without an integrating sphere. <i>Metrologia</i> , <b>2004</b> , 41, 353-358	2.1	12
59	A temperature controller for high power light emitting diodes based on resistive heating and liquid cooling. <i>Applied Thermal Engineering</i> , <b>2014</b> , 71, 317-323	5.8	11
58	Natural and accelerated ageing of LED lamps. <i>Lighting Research and Technology</i> , <b>2016</b> , 48, 930-942	2	10
57	Modeling the spectral shape of InGaAlP-based red light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 203103	2.5	10
56	A method for optimizing the cosine response of solar UV diffusers. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7897-7904	4.4	10
55	Luminous efficacy measurement of solid-state lamps. <i>Metrologia</i> , <b>2012</b> , 49, S135-S140	2.1	10
54	Detector-stabilized FEL lamps as transfer standards in an international comparison of spectral irradiance. <i>Metrologia</i> , <b>2000</b> , 37, 441-444	2.1	10
53	Uncertainty analysis of photometer quality factor $f_{1X}$ . <i>Metrologia</i> , <b>2009</b> , 46, 75-80	2.1	9
52	Realizations of the units of luminance and spectral radiance at the HUT. <i>Metrologia</i> , <b>2000</b> , 37, 527-530	2.1	9
51	Detector-Based Calibration Method for High-Accuracy Solar UV Measurements. <i>Photochemistry and Photobiology</i> , <b>1996</b> , 64, 340-343	3.6	9
50	Nonlinearity characterization of array spectroradiometers for the solar UV measurements. <i>Applied Optics</i> , <b>2017</b> , 56, 3077-3086	0.2	8
49	Temperature invariant energy value in LED spectra. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 231103	3.4	8

48	Photoyellowing revisited: Determination of an action spectrum of newspaper. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 99, 190-195	4.7	7
47	Spectrally adjustable quasi-monochromatic radiance source based on LEDs and its application for measuring spectral responsivity of a luminance meter. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 115201	2	7
46	Realization of the scale of high fiber optic power at three national standards laboratories. <i>Applied Optics</i> , <b>2005</b> , 44, 5013-7	1.7	7
45	Mathematical limitations of the CIE mesopic photometry system. <i>Lighting Research and Technology</i> , <b>2017</b> , 49, 111-121	2	6
44	Method for estimating effects of unknown correlations in spectral irradiance data on uncertainties of spectrally integrated colorimetric quantities. <i>Metrologia</i> , <b>2017</b> , 54, 524-534	2.1	6
43	High-resolution setup for measuring wavelength sensitivity of photoyellowing of translucent materials. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 103103	1.7	6
42	Luminance meter for photopic and scotopic measurements in the mesopic range. <i>Measurement Science and Technology</i> , <b>2014</b> , 25, 095001	2	6
41	Multifunctional integrating sphere setup for luminous flux measurements of light emitting diodes. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 023102	1.7	6
40	Determining the irradiance signal from an asymmetric source with directional detectors: application to calibrations of radiometers with diffusers. <i>Applied Optics</i> , <b>2008</b> , 47, 4714-22	0.2	6
39	Method for characterization of filter radiometers. <i>Applied Optics</i> , <b>1999</b> , 38, 1709-13	1.7	6
38	Measurement setup for differential spectral responsivity of solar cells. <i>Optical Review</i> , <b>2020</b> , 27, 195-204	0.9	5
37	Out-of-Range Stray Light Characterization of Single-Monochromator Brewer Spectrophotometers. <i>Atmosphere - Ocean</i> , <b>2018</b> , 56, 1-11	1.5	5
36	Double-coiled tungsten filament lamps as absolute spectral irradiance reference sources. <i>Metrologia</i> , <b>2012</b> , 49, S53-S58	2.1	5
35	Reducing thickness variation of hot rolled steel strip by non-circular back-up roll geometry. <i>Ironmaking and Steelmaking</i> , <b>2009</b> , 36, 133-140	1.3	5
34	Uncertainty analysis of photometer directional response index using Monte Carlo simulation. <i>Metrologia</i> , <b>2012</b> , 49, 727-736	2.1	5
33	Intercomparison of characterization techniques of filter radiometers in the ultraviolet region. <i>Metrologia</i> , <b>2003</b> , 40, S50-S54	2.1	5
32	Ageing of DXW-lamps. <i>Metrologia</i> , <b>2003</b> , 40, S120-S123	2.1	5
31	Portable detector-based primary scale of spectral irradiance. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 4803-4807		5

30	Flat-field calibration method for hyperspectral frame cameras. <i>Metrologia</i> , <b>2019</b> , 56, 055001	2.1	4
29	A novel facility for ageing materials with narrow-band ultraviolet radiation exposure. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 023107	1.7	4
28	Effect of correlations in fitting spectral irradiance data. <i>Metrologia</i> , <b>2004</b> , 41, 246-250	2.1	4
27	Characterization of GaAsP trap detector for radiometric measurements in ultraviolet wavelength region. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 033110	1.7	4
26	Uncertainty analysis of total ozone derived from direct solar irradiance spectra in the presence of unknown spectral deviations. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 3595-3610	4	4
25	25 years of spectral UV measurements at Sodankylä <b>2017</b> ,		3
24	Adjusting timing of weathering test to account for seasonal variations in UV exposure. <i>Polymer Degradation and Stability</i> , <b>2007</b> , 92, 675-683	4.7	3
23	Comparison of luminous-intensity scales based on trap detectors and incandescent lamps. <i>Metrologia</i> , <b>1995</b> , 32, 681-684	2.1	3
22	Monte Carlo analysis of uncertainty of total atmospheric ozone derived from measured spectra <b>2017</b> ,		2
21	Optical temperature measurements of silicon microbridge emitters. <i>Applied Optics</i> , <b>2010</b> , 49, 1489-93	0.2	2
20	Comparison of the radiation temperature scales between MIKES and PTB. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2010</b> , 43, 183-189	4.6	2
19	Simple active method for reducing magnetic interference in a thermoelectrically cooled photomultiplier tube. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 043102	1.7	2
18	Filter Radiometers as a Tool for Quality Assurance of Temperature Measurements with Linear Pyrometers. <i>International Journal of Thermophysics</i> , <b>2008</b> , 29, 1084-1093	2.1	2
17	Fiber-optic radar calibration. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2005</b> , 20, 30-33	2.4	2
16	Methods for decreasing uncertainties in LED photometry <b>2015</b> ,		2
15	. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 1631-1636	3.7	1
14	UV exposure in artificial and natural weathering: A comparative study <b>2017</b> ,		1
13	Improved diffusers for solar UV spectroradiometers <b>2013</b> ,		1

12	Investigation of comparison methods for UVA irradiance responsivity calibration facilities. <i>Metrologia</i> , <b>2006</b> , 43, S27-S30	2.1	1
11	Calibration of broadband ultraviolet detectors by measurement of spectral irradiance responsivity. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 063110	1.7	1
10	Evaluation of calibration methods of a photometer measuring maritime light-emitting diode buoy lanterns. <i>Optical Engineering</i> , <b>2004</b> , 43, 170	1.1	1
9	A portable field calibrator for solar ultraviolet measurements. <i>Metrologia</i> , <b>2003</b> , 40, S17-S20	2.1	1
8	Key comparison CCPR-K1.a as an interlaboratory comparison of correlated color temperature. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 972, 012012	0.3	1
7	Increased detector response in optical overfilled measurements due to gas lens formation by nitrogen flow through the entrance aperture. <i>Metrologia</i> , <b>2021</b> , 58, 055008	2.1	1
6	Uncertainty evaluation for linking a bilateral key comparison with the corresponding CIPM key comparison. <i>Metrologia</i> , <b>2009</b> , 46, 397-403	2.1	0
5	Optical Temperature Measurement Method for Glowing Microcomponents. <i>International Journal of Thermophysics</i> , <b>2010</b> , 31, 1762-1770	2.1	
4	Comparison of spectral irradiance scales between the NIST and the HUT. <i>Metrologia</i> , <b>2002</b> , 39, 399-402	2.1	
3	Optical power scale realization using the predictable quantum efficient detector. <i>Journal of Physics: Conference Series</i> , <b>2022</b> , 2149, 012006	0.3	
2	Influence of smart lighting control on the lifetime of high power LED luminaires. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 352, 012043	0.3	
1	LED based reference for wavelength and relative intensity. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 972, 012010	0.3	