Martin Hessling

List of Publications by Year
in descending order

69	1,010	567281 15	477307 29
papers	citations	h-index	g-index

74	74	74	954
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ Measurement of Tropospheric OH Radicals by Laser-Induced Fluorescenceâ€"A Description of the KFA Instrument. Journals of the Atmospheric Sciences, 1995, 52, 3393-3401.	1.7	103
2	The measurement of tropospheric OH radicals by laser-induced fluorescence spectroscopy during the POPCORN Field Campaign. Geophysical Research Letters, 1996, 23, 2541-2544.	4.0	98
3	Photoinactivation of bacteria by endogenous photosensitizers and exposure to visible light of different wavelengths â€“ a review on existing data. FEMS Microbiology Letters, 2017, 364, fnw270.	1.8	93
4	Ultraviolet irradiation doses for coronavirus inactivation - review and analysis of coronavirus photoinactivation studies. GMS Hygiene and Infection Control, 2020, 15, Doc08.	0.3	91
5	Title is missing!. Journal of Atmospheric Chemistry, 1998, 31, 205-225.	3.2	67
6	Intercomparison of tropospheric OH radical measurements by multiple folded long-path laser absorption and laser induced fluorescence. Geophysical Research Letters, 1996, 23, 2545-2548.	4.0	65
7	Title is missing!. Journal of Atmospheric Chemistry, 1998, 31, 227-246.	3.2	42
8	Improved Drinking Water Disinfection with UVC-LEDs for Escherichia Coli and Bacillus Subtilis Utilizing Quartz Tubes as Light Guide. Water (Switzerland), 2015, 7, 4605-4621.	2.7	32
9	The impact of far-UVC radiation (200-230 nm) on pathogens, cells, skin, and eyes - a collection and analysis of a hundred years of data. GMS Hygiene and Infection Control, 2021, 16, Doc07.	0.3	28
10	Photoinactivation of the Coronavirus Surrogate phi6 by Visible Light. Photochemistry and Photobiology, 2021, 97, 122-125.	2.5	26
11	Photoinactivation Sensitivity of Staphylococcus carnosus to Visibleâ€light Irradiation as a Function of Wavelength. Photochemistry and Photobiology, 2020, 96, 156-169.	2.5	21
12	Inactivation Effect of Violet and Blue Light on ESKAPE Pathogens and Closely Related Non-pathogenic Bacterial Species â€“ A Promising Tool Against Antibiotic-Sensitive and Antibiotic-Resistant Microorganisms. Frontiers in Microbiology, 2020, 11, 612367.	3.5	21
13	Development and testing of mid-infrared sensors for in-line process monitoring in biotechnology. Sensors and Actuators B: Chemical, 2015, 221, 1601-1610.	7.8	20
14	405 nm and 450 nm photoinactivation of Saccharomyces cerevisiae. European Journal of Microbiology and Immunology, 2018, 8, 142-148.	2.8	19
15	Selection of parameters for thermal coronavirus inactivation - a data-based recommendation. GMS Hygiene and Infection Control, 2020, 15, Doc16.	0.3	18
16	Antimicrobial Effect of Visible Lightâ€"Photoinactivation of Legionella rubrilucens by Irradiation at 450, 470, and 620 nm. Antibiotics, 2019, 8, 187.	3.7	17
17	Inâ€line monitoring of Saccharomyces cerevisiae fermentation with a fluorescence probe: new approaches to data collection and analysis. Journal of Chemometrics, 2011, 25, 389-399.	1.3	15
18	Augmentation of 5-Aminolevulinic Acid Treatment of Glioblastoma by Adding Ciprofloxacin, Deferiprone, 5-Fluorouracil and Febuxostat: The CAALA Regimen. Brain Sciences, 2018, 8, 203.	2.3	15

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19	Cataract Development by Exposure to Ultraviolet and Blue Visible Light in Porcine Lenses. Medicina (Lithuania), 2021, 57, 535.	2.0	12
20	Review of Virus Inactivation by Visible Light. Photonics, 2022, 9, 113.	2.0	12
21	Improved contact lens disinfection by exposure to violet radiation. Technology and Health Care, 2016, 24, 145-151.	1.2	10
22	Blue light inactivation of the enveloped RNA virus Phi6. BMC Research Notes, 2021, 14, 187.	1.4	10
23	High Intensity Violet Light (405 nm) Inactivates Coronaviruses in Phosphate Buffered Saline (PBS) and on Surfaces. Photonics, 2021, 8, 414.	2.0	10
24	Photoinactivation results of Enterococcus moraviensis with blue and violet light suggest the involvement of an unconsidered photosensitizer. Biochemical and Biophysical Research Communications, 2020, 533, 813-817.	2.1	9
25	Microbial Photoinactivation by Visible Light Results in Limited Loss of Membrane Integrity. Antibiotics, 2021, 10, 341.	3.7	9
26	Blue LEDs in Endotracheal Tubes May Prevent Ventilator-Associated Pneumonia. Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 571-576.	1.4	8
27	An extraocular non-invasive transscleral LED-endoilluminator for eye speculum integration. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 1529-1535.	1.9	7
28	Automated bioreactor system for cartilage tissue engineering of human primary nasal septal chondrocytes. Biomedizinische Technik, 2017, 62, 481-486.	0.8	7
29	An intraocular micro light-emitting diode device for endo-illumination during pars plana vitrectomy. European Journal of Ophthalmology, 2019, 29, 75-81.	1.3	7
30	The effects of violet and blue light irradiation on ESKAPE pathogens and human cells in presence of cell culture media. Scientific Reports, 2021, 11, 24473.	3.3	7
31	Visible optical radiation generates bactericidal effect applicable for inactivation of health care associated germs demonstrated by inactivation of E. coli and B. subtilis using 405-nm and 460-nm light emitting diodes. Proceedings of SPIE, 2015, , .	0.8	6
32	Efficient Disinfection of Tap and Surface Water with Single High Power 285 nm LED and Square Quartz Tube. Photonics, 2016, 3, 7.	2.0	6
33	Higher Risk of Light-Induced Retinal Damage Due to Increase of Intraocular Irradiance by Endoillumination. Ophthalmology and Therapy, 2019, 8, 41-50.	2.3	6
34	Fluorescence measurements on nanotiter plates. Review of Scientific Instruments, 2000, 71, 2201-2205.	1.3	5
35	Photoinactivation of Legionella rubrilucens by visible light. European Journal of Microbiology and Immunology, 2017, 7, 146-149.	2.8	5
36	LED Illumination - A Hazard to the Eye?. Optik & Photonik, 2018, 13, 40-44.	0.2	5

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37	Pressure dependent direct transtissue transmission of eyewall, sclera and vitreous body in the range of 350â€“1050 nm. Zeitschrift Fur Medizinische Physik, 2020, 30, 201-210.	1.5	5
38	UV-C inactivation of Legionella rubrilucens. GMS Hygiene and Infection Control, 2017, 12, Doc06.	0.3	5
39	Development of a highly sensitive spectral camera for cartilage monitoring using fluorescence spectroscopy. Journal of Sensors and Sensor Systems, 2015, 4, 289-294.	0.9	5
40	Enhanced cellular migration and prolonged chondrogenic differentiation in decellularized cartilage scaffolds under dynamic culture conditions. Journal of Tissue Engineering and Regenerative Medicine, 2022, 16, 36-50.	2.7	5
41	Disinfection Properties of Conventional White LED Illumination and Their Potential Increase by Violet LEDs for Applications in Medical and Domestic Environments. Advances in Science and Technology Research Journal, 2021, 15, 169-175.	0.8	4
42	Investigation on Potential ESKAPE Surrogates for 222 and 254â€‰nm Irradiation Experiments. Frontiers in Microbiology, 0, 13, .	3.5	4
43	Data Pre-Processing Method to Remove Interference of Gas Bubbles and Cell Clusters During Anaerobic and Aerobic Yeast Fermentations in a Stirred Tank Bioreactor. Journal of Applied Spectroscopy, 2014, 81, 855-861.	0.7	3
44	Miniature LED endoilluminators for vitreoretinal surgery. , 2015, , .		3
45	New bioreactor vessel for tissue engineering of human nasal septal chondrocytes. Current Directions in Biomedical Engineering, 2016, 2, 319-322.	0.4	3
46	Location and pressure dependent transmission of human and porcine sclera: an anterior to posterior examination. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 2185-2198.	1.9	3
47	Transscleral LED illumination pen. Biomedical Engineering Letters, 2017, 7, 311-315.	4.1	3
48	Realisation and assessment of a low-cost LED device for contact lens disinfection by visible violet light. Biomedizinische Technik, 2020, 65, 485-490.	0.8	3
49	Enhancement of Contact Lens Disinfection by Combining Disinfectant with Visible Light Irradiation. International Journal of Environmental Research and Public Health, 2020, 17, 6422.	2.6	3
50	Intraocular reflectance of the ocular fundus and its impact on increased retinal hazard. Zeitschrift Fur Medizinische Physik, 2022, 32, 453-465.	1.5	3
51	Two dimensional spectral camera development for cartilage monitoring. , 2015, , .		2
52	Potential selfâ€disinfection capacity of touch screen displays. Journal of Biophotonics, 2019, 12, e201900118.	2.3	2
53	Photoinactivation of Staphylococci with 405 nm Light in a Trachea Model with Saliva Substitute at 37 Â°C. Healthcare (Switzerland), 2021, 9, 310.	2.0	2
54	P5.4 - Development of a Spectral Camera for Cartilage Monitoring. , 2015, , .		2

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55	Influence of Visible Violet, Blue and Red Light on the Development of Cataract in Porcine Lenses. Medicina (Lithuania), 2022, 58, 721.	2.0	2
56	<title>Environmental analysis by laser-induced fluorescence detection on nano titer plates</title>. , 1999, 3534, 554.		1
57	Visible optical radiation generates bactericidal effect applicable for inactivation of health care associated germs demonstrated by inactivation of E. coli and B. subtilis using 405 nm and 460 nm light emitting diodes. , 2015, , .		1
58	Short-Term Intraocular Pressure Rise during Locally Induced Force by Ophthalmologic Surgery Applications. Ophthalmic Research, 2019, 61, 159-167.	1.9	1
59	Two dimensional spectral camera development for cartilage monitoring. , 2015, , .		1
60	Microbial photoinactivation by 470 nm radiation: an investigation into the underlying photobiological mechanism. , 2018, , .		1
61	Review of microbial touchscreen contamination for the determination of reasonable ultraviolet disinfection doses.. GMS Hygiene and Infection Control, 2021, 16, Doc30.	0.3	1
62	A fencing robot for performance testing in elite fencers. Sports Technology, 2015, 8, 95-99.	0.4	0
63	Cartilage analysis by reflection spectroscopy. Proceedings of SPIE, 2015, , .	0.8	0
64	Histological Image Processing for the Assessment of Tissue Engineered Cartilage. Current Directions in Biomedical Engineering, 2018, 4, 461-464.	0.4	0
65	L14 - Datenvorbehandlungsmethoden fÃ¼r prÃzisere Inline- Bestimmung von Stoffkonzentrationen im Bioreaktor aus NIR-Absorptions-Spektren. , 2013, , .		0
66	Cartilage Analysis by Reflection Spectroscopy. , 2015, , .		0
67	Computational Analysis of Histological Images of Tissue Engineered Cartilage for Evaluation of Scaffold Cell Migration. Journal of Biomedical Engineering and Medical Imaging, 2017, 4, .	0.0	0
68	New illuminations approaches with single-use micro LEDs endoilluminators for the pars plana vitrectomy. , 2018, , .		0
69	Knorpel-Tissue Engineering in der dynamischen Kultur unter Hypoxiebedingungen. , 2018, 97, .		0