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	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
2	Review of Virus Inactivation by Visible Light. Photonics, 2022, 9, 113.	2.0	12
3	Intraocular reflectance of the ocular fundus and its impact on increased retinal hazard. Zeitschrift Fur Medizinische Physik, 2022, 32, 453-465.	1.5	3
4	Influence of Visible Violet, Blue and Red Light on the Development of Cataract in Porcine Lenses. Medicina (Lithuania), 2022, 58, 721.	2.0	2
5	Photoinactivation of the Coronavirus Surrogate phi6 by Visible Light. Photochemistry and Photobiology, 2021, 97, 122-125.	2.5	26
6	Microbial Photoinactivation by Visible Light Results in Limited Loss of Membrane Integrity. Antibiotics, 2021, 10, 341.	3.7	9
7	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
8	Blue light inactivation of the enveloped RNA virus Phi6. BMC Research Notes, 2021, 14, 187.	1.4	10
9	Cataract Development by Exposure to Ultraviolet and Blue Visible Light in Porcine Lenses. Medicina (Lithuania), 2021, 57, 535.	2.0	12
10	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
11	High Intensity Violet Light (405 nm) Inactivates Coronaviruses in Phosphate Buffered Saline (PBS) and on Surfaces. Photonics, 2021, 8, 414.	2.0	10
12	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
13	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
14	Review of microbial touchscreen contamination for the determination of reasonable ultraviolet disinfection doses.. GMS Hygiene and Infection Control, 2021, 16, Doc30.	0.3	1
15	Photoinactivation Sensitivity of Staphylococcus carnosus to Visibleâ€light Irradiation as a Function of Wavelength. Photochemistry and Photobiology, 2020, 96, 156-169.	2.5	21
16	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
17	Blue LEDs in Endotracheal Tubes May Prevent Ventilator-Associated Pneumonia. Photobiomodulation, Photomedicine, and Laser Surgery, 2020, 38, 571-576.	1.4	8
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	Ultraviolet irradiation doses for coronavirus inactivation - review and analysis of coronavirus photoinactivation studies. GMS Hygiene and Infection Control, 2020, 15, Doc08.	0.3	91
23	Selection of parameters for thermal coronavirus inactivation - a data-based recommendation. GMS Hygiene and Infection Control, 2020, 15, Doc16.	0.3	18
24	Short-Term Intraocular Pressure Rise during Locally Induced Force by Ophthalmologic Surgery Applications. Ophthalmic Research, 2019, 61, 159-167.	1.9	1
25	Antimicrobial Effect of Visible Lightâ€”Photoinactivation of Legionella rubrilucens by Irradiation at 450, 470, and 620 nm. Antibiotics, 2019, 8, 187.	3.7	17
26	Potential selfâ€disinfection capacity of touch screen displays. Journal of Biophotonics, 2019, 12, e201900118.	2.3	2
27	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
28	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
29	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
30	405 nm and 450 nm photoinactivation of Saccharomyces cerevisiae. European Journal of Microbiology and Immunology, 2018, 8, 142-148.	2.8	19
31	Histological Image Processing for the Assessment of Tissue Engineered Cartilage. Current Directions in Biomedical Engineering, 2018, 4, 461-464.	0.4	0
32	LED Illumination - A Hazard to the Eye?. Optik & Photonik, 2018, 13, 40-44.	0.2	5
33	New illuminations approaches with single-use micro LEDs endoilluminators for the pars plana vitrectomy. , 2018, , .		0
34	Microbial photoinactivation by 470 nm radiation: an investigation into the underlying photobiological mechanism. , 2018, , .		1
35	Knorpel-Tissue Engineering in der dynamischen Kultur unter Hypoxiebedingungen. , 2018, 97, .		0
36	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

#	Article	IF	Citations
37	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
38	Photoinactivation of Legionella rubrilucens by visible light. European Journal of Microbiology and Immunology, 2017, 7, 146-149.	2.8	5
39	Transscleral LED illumination pen. Biomedical Engineering Letters, 2017, 7, 311-315.	4.1	3
40	Automated bioreactor system for cartilage tissue engineering of human primary nasal septal chondrocytes. Biomedizinische Technik, 2017, 62, 481-486.	0.8	7
41	UV-C inactivation of Legionella rubrilucens. GMS Hygiene and Infection Control, 2017, 12, Doc06.	0.3	5
42	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
43	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
44	New bioreactor vessel for tissue engineering of human nasal septal chondrocytes. Current Directions in Biomedical Engineering, 2016, 2, 319-322.	0.4	3
45	Improved contact lens disinfection by exposure to violet radiation. Technology and Health Care, 2016, 24, 145-151.	1.2	10
46	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
47	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
48	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
49	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
50	Miniature LED endoilluminators for vitreoretinal surgery. , 2015, , .		3
51	A fencing robot for performance testing in elite fencers. Sports Technology, 2015, 8, 95-99.	0.4	0
52	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
53	Cartilage analysis by reflection spectroscopy. Proceedings of SPIE, 2015, , .	0.8	0
54	Two dimensional spectral camera development for cartilage monitoring. , 2015, , .		2

#	Article	IF	Citations
55	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
56	Two dimensional spectral camera development for cartilage monitoring. , 2015, , .		1
57	Cartilage Analysis by Reflection Spectroscopy. , 2015, , .		0
58	P5.4 - Development of a Spectral Camera for Cartilage Monitoring. , 2015, , .		2
59	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
60	L14 - Datenvorbehandlungsmethoden fÃ¼r prÃzisere Inline- Bestimmung von Stoffkonzentrationen im Bioreaktor aus NIR-Absorptions-Spektren. , 2013, , .		0
61	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
62	Fluorescence measurements on nanotiter plates. Review of Scientific Instruments, 2000, 71, 2201-2205.	1.3	5
63	<title>Environmental analysis by laser-induced fluorescence detection on nano titer plates</title>. , 1999, 3534, 554.		1
64	Title is missing!. Journal of Atmospheric Chemistry, 1998, 31, 205-225.	3.2	67
65	Title is missing!. Journal of Atmospheric Chemistry, 1998, 31, 227-246.	3.2	42
66	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
67	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
68	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
69	Investigation on Potential ESKAPE Surrogates for 222 and 254â€‰nm Irradiation Experiments. Frontiers in Microbiology, 0, 13, .	3.5	4