

Maurice C G Aalders

List of Publications by Citations

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114
papers

3,691
citations

32
h-index

58
g-index

124
ext. papers

4,221
ext. citations

4.1
avg, IF

5.08
L-index

#	Paper	IF	Citations
114	Covalently assembled NIR nanoplatfom for simultaneous fluorescence imaging and photodynamic therapy of cancer cells. <i>ACS Nano</i> , 2012 , 6, 4054-62	16.7	321
113	A literature review and novel theoretical approach on the optical properties of whole blood. <i>Lasers in Medical Science</i> , 2014 , 29, 453-79	3.1	216
112	Quantitative measurement of attenuation coefficients of weakly scattering media using optical coherence tomography. <i>Optics Express</i> , 2004 , 12, 4353-65	3.3	205
111	Oxygen saturation-dependent absorption and scattering of blood. <i>Physical Review Letters</i> , 2004 , 93, 028102	7.4	162
110	Endoscopic treatment of high-grade dysplasia and early stage cancer in Barrett's esophagus. <i>Gastrointestinal Endoscopy</i> , 2005 , 61, 506-14	5.2	149
109	Photodynamic therapy for Staphylococcus aureus infected burn wounds in mice. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 503-9	4.2	137
108	Mechanistic study of the photodynamic inactivation of Candida albicans by a cationic porphyrin. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 2026-34	5.9	134
107	Localized measurement of optical attenuation coefficients of atherosclerotic plaque constituents by quantitative optical coherence tomography. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 1369-76	11.7	122
106	Light absorption of (oxy-)hemoglobin assessed by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2003 , 28, 1436-8	3	115
105	Critical Shell Thickness of Core/Shell Upconversion Luminescence Nanoplatfom for FRET Application. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2083-2088	6.4	107
104	Toward assessment of blood oxygen saturation by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2005 , 30, 1015-7	3	107
103	Measurement of the axial point spread function in scattering media using single-mode fiber-based optical coherence tomography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003 , 9, 227-233	3.8	95
102	Forensic quest for age determination of bloodstains. <i>Forensic Science International</i> , 2012 , 216, 1-11	2.6	83
101	Age estimation of blood stains by hemoglobin derivative determination using reflectance spectroscopy. <i>Forensic Science International</i> , 2011 , 206, 166-71	2.6	76
100	Hyperspectral imaging for the age estimation of blood stains at the crime scene. <i>Forensic Science International</i> , 2012 , 223, 72-7	2.6	75
99	Poor results of 5-aminolevulinic acid-photodynamic therapy for residual high-grade dysplasia and early cancer in Barrett esophagus after endoscopic resection. <i>Endoscopy</i> , 2005 , 37, 418-24	3.4	66
98	Effect of albumin on the photodynamic inactivation of microorganisms by a cationic porphyrin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005 , 79, 51-7	6.7	62

97	Identification and age estimation of blood stains on colored backgrounds by near infrared spectroscopy. <i>Forensic Science International</i> , 2012 , 220, 239-44	2.6	61
96	A Novel, Nondestructive, Dried Blood Spot-Based Hematocrit Prediction Method Using Noncontact Diffuse Reflectance Spectroscopy. <i>Analytical Chemistry</i> , 2016 , 88, 6538-46	7.8	50
95	Apoptosis- and necrosis-induced changes in light attenuation measured by optical coherence tomography. <i>Lasers in Medical Science</i> , 2010 , 25, 259-67	3.1	48
94	Outcome of mTHPC mediated photodynamic therapy is primarily determined by the vascular response. <i>Photochemistry and Photobiology</i> , 2005 , 81, 1161-7	3.6	47
93	Fluorescence detection of pleural malignancies using 5-aminolaevulinic acid. <i>Chest</i> , 2006 , 129, 718-24	5.3	46
92	Biphasic oxidation of oxy-hemoglobin in bloodstains. <i>PLoS ONE</i> , 2011 , 6, e21845	3.7	45
91	Limitations and opportunities of transcutaneous bilirubin measurements. <i>Pediatrics</i> , 2012 , 129, 689-94	7.4	44
90	Construction, quality assurance and calibration of spherical isotropic fibre optic light diffusers. <i>Lasers in Medical Science</i> , 1995 , 10, 137-147	3.1	43
89	Optical properties of rat liver and tumor at 633 nm and 1064 nm: photofrin enhances scattering. <i>Lasers in Surgery and Medicine</i> , 1993 , 13, 31-9	3.6	42
88	Oxidation monitoring by fluorescence spectroscopy reveals the age of fingermarks. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6272-5	16.4	41
87	Techniques that acquire donor profiling information from fingermarks - A review. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2016 , 56, 143-54	2	39
86	Effect of monovalent and divalent cations on the photoinactivation of bacteria with meso-substituted cationic porphyrins. <i>Photochemistry and Photobiology</i> , 2004 , 79, 297-302	3.6	38
85	Interplay between Static and Dynamic Energy Transfer in Biofunctional Upconversion Nanoplatfoms. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2518-23	6.4	35
84	Effects of autofluorescence imaging on detection and treatment of early neoplasia in patients with Barrett's esophagus. <i>Clinical Gastroenterology and Hepatology</i> , 2014 , 12, 774-81	6.9	35
83	Correction for the Hematocrit Bias in Dried Blood Spot Analysis Using a Nondestructive, Single-Wavelength Reflectance-Based Hematocrit Prediction Method. <i>Analytical Chemistry</i> , 2018 , 90, 1795-1804	7.8	32
82	In situ light dosimetry during photodynamic therapy of Barrett's esophagus with 5-aminolevulinic acid. <i>Lasers in Surgery and Medicine</i> , 2002 , 31, 299-304	3.6	32
81	Research in forensic radiology and imaging; Identifying the most important issues. <i>Journal of Forensic Radiology and Imaging</i> , 2017 , 8, 1-8	1.3	29
80	Measurements of wavelength dependent scattering and backscattering coefficients by low-coherence spectroscopy. <i>Journal of Biomedical Optics</i> , 2011 , 16, 030503	3.5	29

79	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2013 , 4, 2570-84	3.5	26
78	Quantitative measurements of absorption spectra in scattering media by low-coherence spectroscopy. <i>Optics Letters</i> , 2009 , 34, 3746-8	3	26
77	Quantitative model calculation of the time-dependent protoporphyrin IX concentration in normal human epidermis after delivery of ALA by passive topical application or Iontophoresis. <i>Photochemistry and Photobiology</i> , 2002 , 75, 424-32	3.6	26
76	Localization and staging of cervical intraepithelial neoplasia using double ratio fluorescence imaging. <i>Journal of Biomedical Optics</i> , 2002 , 7, 215-20	3.5	26
75	Optical properties of neonatal skin measured in vivo as a function of age and skin pigmentation. <i>Journal of Biomedical Optics</i> , 2011 , 16, 097003	3.5	24
74	Simultaneous labeling of multiple components in a single fingerprint. <i>Forensic Science International</i> , 2013 , 232, 173-9	2.6	23
73	Recent advances in ophthalmic molecular imaging. <i>Survey of Ophthalmology</i> , 2014 , 59, 393-413	6.1	23
72	Doppler optical coherence tomography to monitor the effect of photodynamic therapy on tissue morphology and perfusion. <i>Journal of Biomedical Optics</i> , 2006 , 11, 044011	3.5	22
71	Remote spectroscopic identification of bloodstains. <i>Journal of Forensic Sciences</i> , 2011 , 56, 1471-5	1.8	21
70	In vivo low-coherence spectroscopic measurements of local hemoglobin absorption spectra in human skin. <i>Journal of Biomedical Optics</i> , 2011 , 16, 100504	3.5	21
69	Infrared imaging of the crime scene: possibilities and pitfalls. <i>Journal of Forensic Sciences</i> , 2013 , 58, 1156-62	1.8	20
68	The compatibility of fingerprint visualization techniques with immunolabeling. <i>Journal of Forensic Sciences</i> , 2013 , 58, 999-1002	1.8	20
67	Optical coherence tomography of the Ex-PRESS miniature glaucoma implant. <i>Lasers in Medical Science</i> , 2005 , 20, 41-4	3.1	19
66	On the autofluorescence of aged fingerprints. <i>Forensic Science International</i> , 2016 , 258, 19-25	2.6	18
65	Third-generation autofluorescence endoscopy for the detection of early neoplasia in Barrett's esophagus: a pilot study. <i>Ecological Management and Restoration</i> , 2014 , 27, 276-84	3	17
64	Volume determination of fresh and dried bloodstains by means of optical coherence tomography. <i>Journal of Forensic Sciences</i> , 2014 , 59, 34-41	1.8	17
63	Pilot feasibility study of in vivo intraoperative quantitative optical coherence tomography of human brain tissue during glioma resection. <i>Journal of Biophotonics</i> , 2019 , 12, e201900037	3.1	16
62	Enhancement of sensitivity and specificity of the fluoroimmunoassay of Hepatitis B virus surface antigen through "flexible" coupling between quantum dots and antibody. <i>Talanta</i> , 2009 , 80, 307-12	6.2	16

61	Photodetection with 5-Aminolevulinic acid-induced protoporphyrin IX in the rat abdominal cavity: drug-dose-dependent fluorescence kinetics. <i>Photochemistry and Photobiology</i> , 2000 , 72, 521-5	3.6	16
60	3D finite compartment modeling of formation and healing of bruises may identify methods for age determination of bruises. <i>Medical and Biological Engineering and Computing</i> , 2010 , 48, 911-21	3.1	15
59	Photodynamic inactivation of fibroblasts by a cationic porphyrin. <i>Lasers in Medical Science</i> , 2005 , 20, 62-73	3.1	15
58	A Mathematical Evaluation of Dose-dependent PpIX Fluorescence Kinetics In Vivo. <i>Photochemistry and Photobiology</i> , 2001 , 74, 311-317	3.6	15
57	Immunolabeling of fingermarks left on forensic relevant surfaces, including thermal paper. <i>Analytical Methods</i> , 2014 , 6, 1051	3.2	13
56	Can color inhomogeneity of bruises be used to establish their age?. <i>Journal of Biophotonics</i> , 2011 , 4, 759-67	3.7	13
55	Tumor genotype-specific growth inhibition in vivo by antisense oligonucleotides against a polymorphic site of the large subunit of human RNA polymerase II. <i>Cancer Research</i> , 2002 , 62, 2024-8	10.1	13
54	Identification and detection of protein markers to differentiate between forensically relevant body fluids. <i>Forensic Science International</i> , 2018 , 290, 196-206	2.6	11
53	Immunolabeling and the compatibility with a variety of fingermark development techniques. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014 , 54, 356-62	2	11
52	Fluorescence imaging for the detection of early neoplasia in Barrett's esophagus: old looks or new vision?. <i>European Journal of Gastroenterology and Hepatology</i> , 2014 , 26, 691-8	2.2	11
51	Spectral domain detection in low-coherence spectroscopy. <i>Biomedical Optics Express</i> , 2012 , 3, 2263-72	3.5	11
50	Effect of red and near-infrared laser light on adenosine triphosphate (ATP) in the luciferine-luciferase reaction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 168, 59-65	4.7	11
49	Colourimetric analysis of thermally altered human bone samples. <i>Scientific Reports</i> , 2019 , 9, 8923	4.9	10
48	White-light toxicity, resulting from systemically administered 5-aminolevulinic acid, under normal operating conditions. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999 , 50, 88-93	6.7	10
47	Targeted labeling of an early-stage tumor spheroid in a chorioallantoic membrane model with upconversion nanoparticles. <i>Nanoscale</i> , 2015 , 7, 1596-600	7.7	9
46	Multispectral upconversion luminescence intensity ratios for ascertaining the tissue imaging depth. <i>Nanoscale</i> , 2014 , 6, 9257-63	7.7	9
45	Multiplex body fluid identification using surface plasmon resonance imaging with principal component analysis. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 355-362	8.5	9
44	Fluorescence spectroscopy incorporated in an Optical Biopsy System for the detection of early neoplasia in Barrett's esophagus. <i>Ecological Management and Restoration</i> , 2015 , 28, 345-51	3	8

43	Reconstructing the time since death using noninvasive thermometry and numerical analysis. <i>Science Advances</i> , 2020 , 6, eaba4243	14.3	8
42	Optimized endoscopic autofluorescence spectroscopy for the identification of premalignant lesions in Barrett's oesophagus. <i>European Journal of Gastroenterology and Hepatology</i> , 2013 , 25, 1442-9	2.2	8
41	Comparative Sensitivity of Microvascular Endothelial Cells, Fibroblasts and Tumor Cells after In Vitro Photodynamic Therapy with meso-Tetra-Hydroxyphenyl-Chlorin. <i>Photochemistry and Photobiology</i> , 2004 , 80, 236	3.6	8
40	Practical Implementation of Blood Stain Age Estimation Using Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 415-421	3.8	7
39	Prediction of DNA concentration in fingermarks using autofluorescence properties. <i>Forensic Science International</i> , 2019 , 295, 128-136	2.6	7
38	Fluorescein angiography for the detection of metastases of ovarian tumor in the abdominal cavity, a feasibility pilot. <i>Lasers in Surgery and Medicine</i> , 2004 , 35, 349-53	3.6	6
37	The applicability of forensic time since death estimation methods for buried bodies in advanced decomposition stages. <i>PLoS ONE</i> , 2020 , 15, e0243395	3.7	6
36	Sex determination from fingermarks using fluorescent in situ hybridization. <i>Analytical Methods</i> , 2018 , 10, 1413-1419	3.2	5
35	Non-contact spectroscopic determination of large blood volume fractions in turbid media. <i>Biomedical Optics Express</i> , 2011 , 2, 396-407	3.5	5
34	Double ratio fluorescence imaging for the detection of early superficial cancers. <i>Review of Scientific Instruments</i> , 2001 , 72, 3956-3961	1.7	5
33	Fluorescence characteristics of human Barrett tissue specimens grafted on chick chorioallantoic membrane. <i>Lasers in Medical Science</i> , 2016 , 31, 137-44	3.1	4
32	Objective color classification of ecstasy tablets by hyperspectral imaging. <i>Journal of Forensic Sciences</i> , 2013 , 58, 881-6	1.8	4
31	Effect of monovalent and divalent cations on the photoinactivation of bacteria with meso-substituted cationic porphyrins. <i>Photochemistry and Photobiology</i> , 2007 , 79, 297-302	3.6	4
30	NAOMI: nanoparticle assisted optical molecular imaging 2006 ,		4
29	Estimating the Time of Deposition of Semen Traces using Fluorescence Protein-Lipid Oxidation Signatures. <i>Analytical Chemistry</i> , 2019 , 91, 3204-3208	7.8	3
28	Oxygenation measurement by multi-wavelength oxygen-dependent phosphorescence and delayed fluorescence: catchment depth and application in intact heart. <i>Journal of Biophotonics</i> , 2015 , 8, 615-28	3.1	3
27	The use of crime scene detection dogs to locate semen stains on different types of fabric. <i>Forensic Science International</i> , 2019 , 302, 109907	2.6	3
26	How the blood pool properties at onset affect the temporal behavior of simulated bruises. <i>Medical and Biological Engineering and Computing</i> , 2012 , 50, 165-71	3.1	3

25	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography: reply to comment. <i>Biomedical Optics Express</i> , 2014 , 5, 3034-5	3.5	3
24	Individualised and non-contact post-mortem interval determination of human bodies using visible and thermal 3D imaging. <i>Nature Communications</i> , 2021 , 12, 5997	17.4	3
23	Amsterdam Research Initiative for Sub-surface Taphonomy and Anthropology (ARISTA) - A taphonomic research facility in the Netherlands for the study of human remains. <i>Forensic Science International</i> , 2020 , 317, 110483	2.6	3
22	Blood Degradation and Bloodstain Age Estimation 2017 , 53-64		2
21	Innentitelbild: Oxidationsbeobachtung mit Fluoreszenzspektroskopie offenbart das Alter von Fingerabdrücken (Angew. Chem. 24/2014). <i>Angewandte Chemie</i> , 2014 , 126, 6122-6122	3.6	2
20	Colour oscillations in arterioarterial anastomoses reflect natural differences in donor and recipient oxygenation and hematocrit. <i>Placenta</i> , 2006 , 27, 1055-9	3.4	2
19	Oxygen saturation dependent absorption and scattering of whole blood 2004 ,		2
18	Late Gadolinium Enhancement Cardiovascular Magnetic Resonance Assessment of Substrate for Ventricular Tachycardia With Hemodynamic Compromise. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 744779	5.4	2
17	Comparative sensitivity of microvascular endothelial cells, fibroblasts and tumor cells after in vitro photodynamic therapy with meso-tetra-hydroxyphenyl-chlorin. <i>Photochemistry and Photobiology</i> , 2004 , 80, 236-41	3.6	2
16	Functional Imaging of the Ocular Fundus Using an 8-Band Retinal Multispectral Imaging System. <i>Instruments</i> , 2020 , 4, 12	1.2	1
15	Oxidationsbeobachtung mit Fluoreszenzspektroskopie offenbart das Alter von Fingerabdrücken. <i>Angewandte Chemie</i> , 2014 , 126, 6387-6390	3.6	1
14	Diffuse reflectance relations based on diffusion dipole theory for large absorption and reduced scattering. <i>Journal of Biomedical Optics</i> , 2013 , 18, 87007	3.5	1
13	Blood oxygen saturation of frozen tissue determined by hyper spectral imaging 2008 ,		1
12	Photodetection with 5-Aminolevulinic Acid-Induced Protoporphyrin IX in the Rat Abdominal Cavity: Drug-dose-Dependent Fluorescence Kinetics. <i>Photochemistry and Photobiology</i> , 2007 , 72, 521-525	3.6	1
11	Quantitative Model Calculation of the Time-dependent Protoporphyrin IX Concentration in Normal Human Epidermis After Delivery of ALA by Passive Topical Application or Iontophoresis. <i>Photochemistry and Photobiology</i> , 2007 , 75, 424-432	3.6	1
10	NAOMI: nanoparticle-assisted optical molecular imaging 2007 ,		1
9	Hematocrit-dependence of the scattering coefficient of blood determined by optical coherence tomography 2006 ,		1
8	Investigating the Age of Blood Traces: How Close Are We to Finding the Holy Grail of Forensic Science?. <i>Advanced Sciences and Technologies for Security Applications</i> , 2019 , 109-128	0.6	1

7	The compatibility of immunolabeling with STR profiling. <i>Forensic Science International: Genetics</i> , 2021 , 52, 102485	4.3	1
6	Phosphorescence of thermally altered human bone. <i>International Journal of Legal Medicine</i> , 2021 , 135, 1025-1034	3.1	1
5	Bayesian analysis of depth resolved OCT attenuation coefficients. <i>Scientific Reports</i> , 2021 , 11, 2263	4.9	1
4	Improving the visualization of fingermarks using multi-target immunolabeling. <i>Forensic Science International</i> , 2021 , 324, 110804	2.6	0
3	Notes on Past and Current Research at the Laser Centre in Amsterdam. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2002 , 17, 65-72		
2	A Novel OCT Design for Cultural Heritage Applications. <i>Microscopy and Microanalysis</i> , 2018 , 24, 2142-2143	4.5	
1	Mechanical or thermal damage: differentiating between underlying mechanisms as a cause of bone fractures.. <i>International Journal of Legal Medicine</i> , 2022 , 1	3.1	