

Maurice C G Aalders

List of Publications by Year in descending order

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119
papers

4,707
citations

117453

34
h-index

102304

66
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124
all docs

124
docs citations

124
times ranked

4980
citing authors

#	ARTICLE	IF	CITATIONS
1	Covalently Assembled NIR Nanoplatform for Simultaneous Fluorescence Imaging and Photodynamic Therapy of Cancer Cells. <i>ACS Nano</i> , 2012, 6, 4054-4062.	7.3	356
2	A literature review and novel theoretical approach on the optical properties of whole blood. <i>Lasers in Medical Science</i> , 2014, 29, 453-479.	1.0	310
3	Quantitative measurement of attenuation coefficients of weakly scattering media using optical coherence tomography. <i>Optics Express</i> , 2004, 12, 4353.	1.7	271
4	Oxygen Saturation-Dependent Absorption and Scattering of Blood. <i>Physical Review Letters</i> , 2004, 93, 028102.	2.9	222
5	Endoscopic treatment of high-grade dysplasia and early stage cancer in Barrett's esophagus. <i>Gastrointestinal Endoscopy</i> , 2005, 61, 506-514.	0.5	179
6	Photodynamic therapy for <i>Staphylococcus aureus</i> infected burn wounds in mice. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 503.	1.6	168
7	Mechanistic Study of the Photodynamic Inactivation of <i>Candida albicans</i> by a Cationic Porphyrin. <i>Antimicrobial Agents and Chemotherapy</i> , 2005, 49, 2026-2034.	1.4	167
8	Light absorption of (oxy-)hemoglobin assessed by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2003, 28, 1436.	1.7	150
9	Localized measurement of optical attenuation coefficients of atherosclerotic plaque constituents by quantitative optical coherence tomography. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1369-1376.	5.4	141
10	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.	1.9	129
11	Toward assessment of blood oxygen saturation by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 1015.	1.7	129
12	Critical Shell Thickness of Core/Shell Upconversion Luminescence Nanoplatform for FRET Application. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2083-2088.	2.1	124
13	Forensic quest for age determination of bloodstains. <i>Forensic Science International</i> , 2012, 216, 1-11.	1.3	120
14	Age estimation of blood stains by hemoglobin derivative determination using reflectance spectroscopy. <i>Forensic Science International</i> , 2011, 206, 166-171.	1.3	98
15	Hyperspectral imaging for the age estimation of blood stains at the crime scene. <i>Forensic Science International</i> , 2012, 223, 72-77.	1.3	93
16	Identification and age estimation of blood stains on colored backgrounds by near infrared spectroscopy. <i>Forensic Science International</i> , 2012, 220, 239-244.	1.3	81
17	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, 418-424.	1.0	77
18	Effect of albumin on the photodynamic inactivation of microorganisms by a cationic porphyrin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005, 79, 51-57.	1.7	73

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19	A Novel, Nondestructive, Dried Blood Spot-Based Hematocrit Prediction Method Using Noncontact Diffuse Reflectance Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 6538-6546.	3.2	69
20	Limitations and Opportunities of Transcutaneous Bilirubin Measurements. <i>Pediatrics</i> , 2012, 129, 689-694.	1.0	60
21	Biphasic Oxidation of Oxy-Hemoglobin in Bloodstains. <i>PLoS ONE</i> , 2011, 6, e21845.	1.1	59
22	Apoptosis- and necrosis-induced changes in light attenuation measured by optical coherence tomography. <i>Lasers in Medical Science</i> , 2010, 25, 259-267.	1.0	58
23	Outcome of mTHPC Mediated Photodynamic Therapy is Primarily Determined by the Vascular Response. <i>Photochemistry and Photobiology</i> , 2005, 81, 1161.	1.3	56
24	Oxidation Monitoring by Fluorescence Spectroscopy Reveals the Age of Fingermarks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6272-6275.	7.2	51
25	Fluorescence Detection of Pleural Malignancies Using 5-Aminolaevulinic Acid. <i>Chest</i> , 2006, 129, 718-724.	0.4	50
26	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.	3.2	48
27	Research in forensic radiology and imaging; Identifying the most important issues. <i>Journal of Forensic Radiology and Imaging</i> , 2017, 8, 1-8.	1.2	47
28	Effect of Monovalent and Divalent Cations on the Photoinactivation of Bacteria with meso-Substituted Cationic Porphyrins. <i>Photochemistry and Photobiology</i> , 2004, 79, 297.	1.3	47
29	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, 31-39.	1.1	45
30	Construction, quality assurance and calibration of spherical isotropic fibre optic light diffusers. <i>Lasers in Medical Science</i> , 1995, 10, 137-147.	1.0	44
31	Techniques that acquire donor profiling information from fingermarks – A review. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2016, 56, 143-154.	1.3	43
32	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, 774-781.	2.4	39
33	Interplay between Static and Dynamic Energy Transfer in Biofunctional Upconversion Nanoplatfoms. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2518-2523.	2.1	39
34	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.	1.4	38
35	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.	1.1	38
36	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.	1.3	36

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37	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.	1.1	34
38	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2570.	1.5	33
39	Quantitative measurements of absorption spectra in scattering media by low-coherence spectroscopy. <i>Optics Letters</i> , 2009, 34, 3746.	1.7	32
40	Measurements of wavelength dependent scattering and backscattering coefficients by low-coherence spectroscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 030503.	1.4	32
41	Localization and staging of cervical intraepithelial neoplasia using double ratio fluorescence imaging. <i>Journal of Biomedical Optics</i> , 2002, 7, 215.	1.4	27
42	Infrared Imaging of the Crime Scene: Possibilities and Pitfalls. <i>Journal of Forensic Sciences</i> , 2013, 58, 1156-1162.	0.9	27
43	Recent advances in ophthalmic molecular imaging. <i>Survey of Ophthalmology</i> , 2014, 59, 393-413.	1.7	26
44	Remote Spectroscopic Identification of Bloodstains*. <i>Journal of Forensic Sciences</i> , 2011, 56, 1471-1475.	0.9	25
45	Identification and detection of protein markers to differentiate between forensically relevant body fluids. <i>Forensic Science International</i> , 2018, 290, 196-206.	1.3	25
46	Colourimetric analysis of thermally altered human bone samples. <i>Scientific Reports</i> , 2019, 9, 8923.	1.6	25
47	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.	1.4	24
48	Simultaneous labeling of multiple components in a single fingerprint. <i>Forensic Science International</i> , 2013, 232, 173-179.	1.3	24
49	The applicability of forensic time since death estimation methods for buried bodies in advanced decomposition stages. <i>PLoS ONE</i> , 2020, 15, e0243395.	1.1	24
50	Volume Determination of Fresh and Dried Bloodstains by Means of Optical Coherence Tomography. <i>Journal of Forensic Sciences</i> , 2014, 59, 34-41.	0.9	23
51	On the autofluorescence of aged fingerprints. <i>Forensic Science International</i> , 2016, 258, 19-25.	1.3	23
52	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, 911-921.	1.6	22
53	Optical coherence tomography of the Ex-PRESS miniature glaucoma implant. <i>Lasers in Medical Science</i> , 2005, 20, 41-44.	1.0	21
54	In vivo low-coherence spectroscopic measurements of local hemoglobin absorption spectra in human skin. <i>Journal of Biomedical Optics</i> , 2011, 16, 100504.	1.4	21

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55	The Compatibility of Fingerprint Visualization Techniques with Immunolabeling. <i>Journal of Forensic Sciences</i> , 2013, 58, 999-1002.	0.9	21
56	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, 276-284.	0.2	19
57	Photodynamic inactivation of fibroblasts by a cationic porphyrin. <i>Lasers in Medical Science</i> , 2005, 20, 62-67.	1.0	18
58	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, 307-312.	2.9	18
59	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.	1.3	17
60	A Mathematical Evaluation of Dose-dependent PpIX Fluorescence Kinetics In Vivo. <i>Photochemistry and Photobiology</i> , 2001, 74, 311-317.	1.3	16
61	Can color inhomogeneity of bruises be used to establish their age?. <i>Journal of Biophotonics</i> , 2011, 4, 759-767.	1.1	16
62	Immunolabeling and the compatibility with a variety of fingermark development techniques. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014, 54, 356-362.	1.3	15
63	Reconstructing the time since death using noninvasive thermometry and numerical analysis. <i>Science Advances</i> , 2020, 6, eaba4243.	4.7	15
64	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.	0.4	15
65	Spectral domain detection in low-coherence spectroscopy. <i>Biomedical Optics Express</i> , 2012, 3, 2263.	1.5	14
66	Fluorescence imaging for the detection of early neoplasia in Barrett's esophagus. <i>European Journal of Gastroenterology and Hepatology</i> , 2014, 26, 691-698.	0.8	14
67	Immunolabeling of fingermarks left on forensic relevant surfaces, including thermal paper. <i>Analytical Methods</i> , 2014, 6, 1051.	1.3	14
68	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.	2.0	13
69	Multispectral upconversion luminescence intensity ratios for ascertaining the tissue imaging depth. <i>Nanoscale</i> , 2014, 6, 9257-9263.	2.8	13
70	Multiplex body fluid identification using surface plasmon resonance imaging with principal component analysis. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 355-362.	4.0	13
71	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.	1.3	12
72	Practical Implementation of Blood Stain Age Estimation Using Spectroscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 415-421.	1.9	12

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73	Targeted labeling of an early-stage tumor spheroid in a chorioallantoic membrane model with upconversion nanoparticles. <i>Nanoscale</i> , 2015, 7, 1596-1600.	2.8	11
74	Individualised and non-contact post-mortem interval determination of human bodies using visible and thermal 3D imaging. <i>Nature Communications</i> , 2021, 12, 5997.	5.8	11
75	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.	1.7	10
76	Prediction of DNA concentration in fingermarks using autofluorescence properties. <i>Forensic Science International</i> , 2019, 295, 128-136.	1.3	10
77	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, 345-351.	0.2	9
78	The use of crime scene detection dogs to locate semen stains on different types of fabric. <i>Forensic Science International</i> , 2019, 302, 109907.	1.3	9
79	Estimating the Time of Deposition of Semen Traces using Fluorescence Proteinâ€“Lipid Oxidation Signatures. <i>Analytical Chemistry</i> , 2019, 91, 3204-3208.	3.2	9
80	Separation of overlapping fingerprints by principal component analysis and multivariate curve resolutionâ€“alternating least squares analysis of hyperspectral imaging data. <i>Journal of Forensic Sciences</i> , 2022, 67, 1208-1214.	0.9	9
81	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, 349-353.	1.1	8
82	Optimized endoscopic autofluorescence spectroscopy for the identification of premalignant lesions in Barrett's oesophagus. <i>European Journal of Gastroenterology and Hepatology</i> , 2013, 25, 1442-1449.	0.8	8
83	Non-contact spectroscopic determination of large blood volume fractions in turbid media. <i>Biomedical Optics Express</i> , 2011, 2, 396.	1.5	7
84	Phosphorescence of thermally altered human bone. <i>International Journal of Legal Medicine</i> , 2021, 135, 1025-1034.	1.2	7
85	Late Gadolinium Enhancement Cardiovascular Magnetic Resonance Assessment of Substrate for Ventricular Tachycardia With Hemodynamic Compromise. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 744779.	1.1	7
86	Sex determination from fingermarks using fluorescent <i>in situ</i> hybridization. <i>Analytical Methods</i> , 2018, 10, 1413-1419.	1.3	6
87	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.	1.3	6
88	Bayesian analysis of depth resolved OCT attenuation coefficients. <i>Scientific Reports</i> , 2021, 11, 2263.	1.6	6
89	Double ratio fluorescence imaging for the detection of early superficial cancers. <i>Review of Scientific Instruments</i> , 2001, 72, 3956-3961.	0.6	5
90	NAOMI: nanoparticle assisted optical molecular imaging. , 2006, , .		5

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91	Effect of monovalent and divalent cations on the photoinactivation of bacteria with <i>meso</i> -substituted cationic porphyrins. <i>Photochemistry and Photobiology</i> , 2004, 79, 297-302.	1.3	5
92	Objective Color Classification of Ecstasy Tablets by Hyperspectral Imaging. <i>Journal of Forensic Sciences</i> , 2013, 58, 881-886.	0.9	5
93	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography: reply to comment. <i>Biomedical Optics Express</i> , 2014, 5, 3034.	1.5	5
94	How the blood pool properties at onset affect the temporal behavior of simulated bruises. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 165-171.	1.6	4
95	Fluorescence characteristics of human Barrett tissue specimens grafted on chick chorioallantoic membrane. <i>Lasers in Medical Science</i> , 2016, 31, 137-144.	1.0	4
96	Functional Imaging of the Ocular Fundus Using an 8-Band Retinal Multispectral Imaging System. <i>Instruments</i> , 2020, 4, 12.	0.8	4
97	Improving the visualization of fingerprints using multi-target immunolabeling. <i>Forensic Science International</i> , 2021, 324, 110804.	1.3	4
98	Oxygen saturation dependent absorption and scattering of whole blood. , 2004, , .		3
99	Colour Oscillations in Arterioarterial Anastomoses Reflect Natural Differences in Donor and Recipient Oxygenation and Hematocrit. <i>Placenta</i> , 2006, 27, 1055-1059.	0.7	3
100	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, 615-628.	1.1	3
101	The compatibility of immunolabeling with STR profiling. <i>Forensic Science International: Genetics</i> , 2021, 52, 102485.	1.6	3
102	Comparative Sensitivity of Microvascular Endothelial Cells, Fibroblasts and Tumour Cells after in vitro Photodynamic Therapy with mTHPC. <i>Photochemistry and Photobiology</i> , 2004, 80, 236-41.	1.3	3
103	Mechanical or thermal damage: differentiating between underlying mechanisms as a cause of bone fractures. <i>International Journal of Legal Medicine</i> , 2022, 136, 1133-1148.	1.2	3
104	Innentitelbild: Oxidationsbeobachtung mit Fluoreszenzspektroskopie offenbart das Alter von Fingerabdrücken (Angew. Chem. 24/2014). <i>Angewandte Chemie</i> , 2014, 126, 6122-6122.	1.6	2
105	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.	0.4	2
106	Discrimination of atherosclerotic plaque constituents based on local measurements of optical attenuation coefficients by OCT. , 2005, 5686, 426.		1
107	<i>Hematocrit-dependence of the scattering coefficient of blood determined by optical coherence tomography</i> . , 2006, , .		1
108	NAOMI: nanoparticle-assisted optical molecular imaging. , 2007, , .		1

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109	Photodetection with 5-Aminolevulinic Acid-induced Protoporphyrin IX in the Rat Abdominal Cavity: Drug-dose-dependent Fluorescence Kinetics. Photochemistry and Photobiology, 2000, 72, 521-525.	1.3	1
110	Quantitative Model Calculation of the Time-dependent Protoporphyrin IX Concentration in Normal Human Epidermis After Delivery of ALA by Passive Topical Application or Iontophoresis. Photochemistry and Photobiology, 2007, 75, 424-432.	1.3	1
111	Blood oxygen saturation of frozen tissue determined by hyper spectral imaging. Proceedings of SPIE, 2008, , .	0.8	1
112	Diffuse reflectance relations based on diffusion dipole theory for large absorption and reduced scattering. Journal of Biomedical Optics, 2013, 18, 087007.	1.4	1
113	Notes on Past and Current Research at the Laser Centre in Amsterdam. Medical Laser Application: International Journal for Laser Treatment and Research, 2002, 17, 65-72.	0.4	0
114	Calculations of scattering by (de-)oxygenated whole blood. , 2004, , .		0
115	Discrimination of atherosclerotic plaque constituents based on local measurements of optical attenuation coefficients by OCT. , 2005, , .		0
116	Su1451 Endoscopic Multi-Wavelength Autofluorescence Spectroscopy Can Adequately Identify Premalignant Lesions in Barrett's Esophagus. Gastrointestinal Endoscopy, 2013, 77, AB328.	0.5	0
117	A Novel OCT Design for Cultural Heritage Applications. Microscopy and Microanalysis, 2018, 24, 2142-2143.	0.2	0
118	Low Coherence Spectroscopy (LCS) for depth resolved measurements of optical properties in tissue.. , 2004, , .		0
119	Measurements of Wavelength Dependent Scattering Coefficients by Low Coherence Spectroscopy. , 2010, , .		0