

Georges Wagnières

List of Publications by Year in descending order

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111
papers

3,578
citations

132226

32
h-index

144563

57
g-index

117
all docs

117
docs citations

117
times ranked

4111
citing authors

#	ARTICLE	IF	CITATIONS
1	In Vitro and In Vivo Photocytotoxicity of Boron Dipyrromethene Derivatives for Photodynamic Therapy. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 2865-2874.	6.6	321
2	Noninvasive determination of the optical properties of two-layered turbid media. <i>Applied Optics</i> , 1998, 37, 779.	2.1	259
3	Organometallic Ruthenium(II) Arene Compounds with Antiangiogenic Activity. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 3895-3902.	6.6	230
4	5-Aminolevulinic acid and its derivatives: physical chemical properties and protoporphyrin IX formation in cultured cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 54, 72-80.	3.9	198
5	Clinical evaluation of a method for detecting superficial transitional cell carcinoma of the bladder by light-induced fluorescence of protoporphyrin IX following topical application of 5-aminolevulinic acid: Preliminary results. <i>Lasers in Surgery and Medicine</i> , 1997, 20, 402-408.	2.1	122
6	Spectroscopic studies of photobleaching and photoproduct formation of meta(tetrahydroxyphenyl)chlorin (m-THPC) used in photodynamic therapy. The production of singlet oxygen by m-THPC. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998, 45, 170-178.	3.9	116
7	Chitosan-based nanogels for selective delivery of photosensitizers to macrophages and improved retention in and therapy of articular joints. <i>Journal of Controlled Release</i> , 2010, 144, 242-250.	10.2	114
8	An optical phantom with tissue-like properties in the visible for use in PDT and fluorescence spectroscopy. <i>Physics in Medicine and Biology</i> , 1997, 42, 1415-1426.	3.0	99
9	Investigation of two-layered turbid media with time-resolved reflectance. <i>Applied Optics</i> , 1998, 37, 6852.	2.1	92
10	Antibody-fluorescein conjugates for photoimmunodiagnosis of human colon carcinoma in nude mice. <i>Cancer</i> , 1991, 67, 2529-2537.	4.1	84
11	Clinical determination of tissue optical properties by endoscopic spatially resolved reflectometry. <i>Applied Optics</i> , 1996, 35, 1756.	2.1	80
12	Photodynamic Therapy for Cancer of the Upper Aerodigestive Tract Using Tetra(m-hydroxyphenyl)chlorin. <i>Photomedicine and Laser Surgery</i> , 1996, 14, 281-287.	1.1	77
13	Time-resolved spectrofluorometer for clinical tissue characterization during endoscopy. <i>Review of Scientific Instruments</i> , 1999, 70, 4067-4077.	1.4	73
14	Photobiomodulation Suppresses Alpha-Synuclein-Induced Toxicity in an AAV-Based Rat Genetic Model of Parkinson's Disease. <i>PLoS ONE</i> , 2015, 10, e0140880.	2.5	69
15	Processing of fluorescence angiograms for the quantification of vascular effects induced by anti-angiogenic agents in the CAM model. <i>Microvascular Research</i> , 2010, 79, 21-28.	2.5	61
16	Clinical Evaluation of the Cutaneous Phototoxicity of 5,10,15,20-Tetra(m-hydroxyphenyl)chlorin. <i>Photochemistry and Photobiology</i> , 1998, 68, 382-387.	2.6	59
17	In vivo autofluorescence imaging of early cancers in the human tracheobronchial tree with a spectrally optimized system. <i>Journal of Biomedical Optics</i> , 2003, 8, 17.	2.8	57
18	Pharmacokinetics of Tetra(m-hydroxyphenyl)chlorin in Human Plasma and Individualized Light Dosimetry in Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 1998, 67, 596-602.	2.6	54

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19	Instrumentation for real-time fluorescence lifetime imaging in endoscopy. Review of Scientific Instruments, 1999, 70, 4689-4701.	1.4	54
20	<i>In Vivo</i> Fluence Rate Effect in Photodynamic Therapy of Early Cancers with Tetra(meta-hydroxyphenyl)chlorin. Photochemistry and Photobiology, 1996, 64, 963-968.	2.6	49
21	Clinical pharmacokinetic studies of tetra(meta-hydroxyphenyl)chlorin in squamous cell carcinoma by fluorescence spectroscopy at 2 wavelengths. International Journal of Cancer, 1995, 63, 198-204.	5.4	48
22	Three-dimensional optical phantom and its application in photodynamic therapy. Lasers in Surgery and Medicine, 1997, 21, 227-234.	2.1	46
23	Photoeradication of <i>Helicobacter pylori</i> using 5-aminolevulinic acid: Preliminary human studies. Lasers in Surgery and Medicine, 2002, 31, 18-22.	2.1	42
24	Near-Infrared 808 nm Light Boosts Complex IV-Dependent Respiration and Rescues a Parkinson-Related pink1 Model. PLoS ONE, 2013, 8, e78562.	2.5	42
25	Intra-Arterial Drug and Light Delivery for Photodynamic Therapy Using Visudyne [®] : Implication for Atherosclerotic Plaque Treatment. Frontiers in Physiology, 2016, 7, 400.	2.8	42
26	Real-time, <i>in vivo</i> measurement of tissular pO ₂ through the delayed fluorescence of endogenous protoporphyrin IX during photodynamic therapy. Journal of Biomedical Optics, 2012, 17, 115007.	2.8	41
27	EPR and Spectrophotometric Studies of Free Radicals (O ₂ [•] , [•] OH,) Tj ETQq1 1 0.784314 rgBT /Overl... Benzoporphyrin Derivative Monoacid Ring A. Photochemistry and Photobiology, 1997, 65, 818-827.	2.6	40
28	Absolute autofluorescence spectra of human healthy, metaplastic, and early cancerous bronchial tissue <i>in vivo</i> . Applied Optics, 2001, 40, 3784.	2.1	37
29	Glycoside Esters of 5-Aminolevulinic Acid for Photodynamic Therapy of Cancer. Bioconjugate Chemistry, 2008, 19, 821-839.	3.8	37
30	Light dosimetry for photodynamic therapy in the esophagus. Lasers in Surgery and Medicine, 1997, 20, 290-303.	2.1	36
31	Photodynamic Therapy of Early Squamous Cell Cancers of the Esophagus. Gastrointestinal Endoscopy Clinics of North America, 2000, 10, 439-460.	1.7	34
32	Comparison of ALA- and ALA hexyl-ester-induced PpIX depth distribution in human skin carcinoma. Journal of Photochemistry and Photobiology B: Biology, 2008, 93, 140-148.	3.9	33
33	Photodynamic therapy for the treatment of atherosclerotic plaque: Lost in translation?. Cardiovascular Therapeutics, 2017, 35, e12238.	2.5	33
34	Optical properties of rabbit brain in the red and near-infrared: changes observed under <i>in vivo</i> , postmortem, frozen, and formalin-fixed conditions. Journal of Biomedical Optics, 2015, 20, 025006.	2.8	30
35	Time-dependent hexaminolaevulinic acid induced protoporphyrin IX distribution after topical application in patients with cervical intraepithelial neoplasia: A fluorescence microscopy study. Lasers in Surgery and Medicine, 2004, 35, 276-283.	2.1	29
36	The Neovessel Occlusion Efficacy of 15-Hydroxypurpurin ⁷ -Lactone Dimethyl Ester Induced with Photodynamic Therapy. Photochemistry and Photobiology, 2010, 86, 397-402.	2.6	29

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37	Low-Dose Vascular Photodynamic Therapy Decreases Tumor Interstitial Fluid Pressure, which Promotes Liposomal Doxorubicin Distribution in a Murine Sarcoma Metastasis Model. <i>Translational Oncology</i> , 2014, 7, 393-399.	3.8	28
38	Rapid Communication: Stability of the Fluorescence Measurement of Foscan® in the Normal Human Oral Cavity as an Indicator of its Content in Early Cancers of the Esophagus and the Bronchi. <i>Photochemistry and Photobiology</i> , 1999, 69, 605-610.	2.6	27
39	Mucosal ablation with photodynamic therapy in the esophagus: Optimization of light dosimetry in the sheep model. <i>Gastrointestinal Endoscopy</i> , 2003, 57, 897-905.	1.0	26
40	In vivo time-resolved spectroscopy of the human bronchial early cancer autofluorescence. <i>Journal of Biomedical Optics</i> , 2009, 14, 024011.	2.8	24
41	Blue-Violet Excited Autofluorescence Spectroscopy and Imaging of Normal and Cancerous Human Bronchial Tissue after Formalin Fixation. <i>Photochemistry and Photobiology</i> , 2007, 83, 450-459.	2.6	23
42	<i>In vivo</i> measurement of tissue oxygenation by time-resolved luminescence spectroscopy: advantageous properties of dichlorotris(1, 10-phenanthroline)-ruthenium(II) hydrate. <i>Journal of Biomedical Optics</i> , 2014, 19, 077004.	2.8	23
43	Lung Cancer Imaging with Fluorescence Endoscopy. , 2003, , 361-396.		23
44	Optimized autofluorescence bronchoscopy using additional backscattered red light. <i>Journal of Biomedical Optics</i> , 2007, 12, 064016.	2.8	19
45	Photodynamic therapy selectively enhances liposomal doxorubicin uptake in sarcoma tumors to rodent lungs. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 391-399.	2.1	19
46	Photoactive sawhorse-type diruthenium tetracarbonyl complexes. <i>Inorganica Chimica Acta</i> , 2012, 393, 246-251.	2.5	19
47	Correlations between photoactivable porphyrins™ fluorescence, erythema and the pain induced by PDT on normal skin using ALA-derivatives. <i>Photodiagnosis and Photodynamic Therapy</i> , 2013, 10, 683-693.	2.7	19
48	Fluorescence pharmacokinetics of Lutetium Texaphyrin (PCI-0123, Lu-Tex) in the skin and in healthy and tumoral hamster cheek-pouch mucosa. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 55, 56-62.	3.9	17
49	Photodynamic endometrial ablation: Morphological study. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 305-309.	2.1	17
50	On the Role of Iron and one of its Chelating Agents in the Production of Protoporphyrin IX Generated by 5-aminolevulinic Acid and its Hexyl Ester Derivative Tested on an Epidermal Equivalent of Human Skin. <i>Photochemistry and Photobiology</i> , 2006, 82, 1069-1076.	2.6	16
51	Angiogenesis inhibition by the maleimide-based small molecule GNX-686. <i>Microvascular Research</i> , 2012, 83, 105-110.	2.5	15
52	Vascular-targeted low dose photodynamic therapy stabilizes tumor vessels by modulating pericyte contractility. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 550-561.	2.1	15
53	Autophagy and Apoptosis Induced in U87 MG Glioblastoma Cells by Hypericin-Mediated Photodynamic Therapy Can Be Photobiomodulated with 808 nm Light. <i>Biomedicines</i> , 2021, 9, 1703.	3.3	14
54	Photodynamic endometrial ablation for the treatment of dysfunctional uterine bleeding: A preliminary report. <i>Lasers in Surgery and Medicine</i> , 2004, 34, 1-4.	2.1	13

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55	Measurement of pO ₂ by luminescence lifetime spectroscopy: A comparative study of the phototoxicity and sensitivity of [Ru(Phen) ₃] ²⁺ and PdTCPP <i>in vivo</i> . <i>Journal of Biophotonics</i> , 2017, 10, 708-717.	2.4	13
56	Hypericin can cross barriers in the chicken's chorioallantoic membrane model when delivered in low-density lipoproteins. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018, 23, 306-313.	2.7	13
57	Temperature and oxygen-concentration dependence of singlet oxygen production by RuPhen as induced by quasi-continuous excitation. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1781-1787.	2.9	12
58	Stimulation and homogenization of the protoporphyrin IX endogenous production by photobiomodulation to increase the potency of photodynamic therapy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 225, 112347.	3.9	12
59	Improvement of the specificity of cancer detection by autofluorescence imaging in the tracheo-bronchial tree using backscattered violet light. <i>Photodiagnosis and Photodynamic Therapy</i> , 2008, 5, 2-9.	2.7	11
60	Angiostasis-induced vascular normalization can improve photodynamic therapy. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 1559-1560.	5.5	11
61	Endosomes: guardians against [Ru(Phen) ₃] ²⁺ photo-action in endothelial cells during <i>in vivo</i> pO ₂ detection?. <i>Metallomics</i> , 2014, 6, 2279-2289.	2.5	11
62	Effect of PpIX photoproducts formation on pO ₂ measurement by time-resolved delayed fluorescence spectroscopy of PpIX in solution and <i>in vivo</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 49-56.	3.9	11
63	Interstitial fluid pressure: A novel biomarker to monitor photo-induced drug uptake in tumor and normal tissues. <i>Lasers in Surgery and Medicine</i> , 2017, 49, 773-780.	2.1	11
64	Interstitial photodynamic therapy with tetra(m-hydroxyphenyl)chlorin: tumor versus striated muscle damage. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998, 42, 403-412.	0.8	10
65	Cathepsin B-Cleavable Polymeric Photosensitizer Prodrug for Selective Photodynamic Therapy: <i>In Vitro</i> Studies. <i>Pharmaceuticals</i> , 2022, 15, 564.	3.9	10
66	Study of the pO ₂ -Sensitivity of the Dendrimeric and Free Forms of Pd-meso-tetra(4-carboxyphenyl)porphyrin, Incorporated or not in Chitosan-Based Nanoparticles. <i>Chimia</i> , 2011, 65, 691.	0.7	9
67	Probing the Interaction Between a Surfactant's Cobalt(III) Complex and Bovine Serum Albumin. <i>Journal of Solution Chemistry</i> , 2012, 41, 294-306.	1.3	9
68	Fluence plays a critical role on the subsequent distribution of chemotherapy and tumor growth delay in murine mesothelioma xenografts pre-treated by photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 323-330.	2.1	8
69	Comparison of autofluorescence and white-light bronchoscopies performed with the Evis Lucera Spectrum for the detection of bronchial cancers: a meta-analysis. <i>Translational Lung Cancer Research</i> , 2020, 9, 23-32.	2.7	8
70	Autofluorescence bronchoscopy: quantification of inter-patient variations of fluorescence intensity. <i>Lasers in Medical Science</i> , 2009, 24, 45-51.	2.1	7
71	Negligible interaction of [Ru(Phen) ₃] ²⁺ with human serum albumin makes it promising for a reliable <i>in vivo</i> assessment of the tissue oxygenation. <i>Journal of Inorganic Biochemistry</i> , 2017, 174, 37-44.	3.7	7
72	Influence of Oxidative Stress on Time-Resolved Oxygen Detection by [Ru(Phen) ₃] ²⁺ <i>In Vivo</i> and <i>In Vitro</i> . <i>Molecules</i> , 2021, 26, 485.	3.9	7

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73	Improvement of the contrast in cancer detection by autofluorescence bronchoscopy using a narrowband spectral violet excitation: A preliminary study. <i>Biomedical Signal Processing and Control</i> , 2007, 2, 234-238.	5.9	6
74	High-magnification vascular imaging to reject false-positive sites in situ during Hexvix® fluorescence cystoscopy. <i>Journal of Biomedical Optics</i> , 2010, 15, 051606.	2.8	6
75	Influence of the menstrual cycle on aminolevulinic acid induced protoporphyrin IX fluorescence in the endometrium: In vivo study. <i>Lasers in Surgery and Medicine</i> , 2005, 36, 234-237.	2.1	5
76	Optical spectroscopy of the bladder washout fluid to optimize fluorescence cystoscopy with Hexvix®. <i>Journal of Biomedical Optics</i> , 2014, 19, 097002.	2.8	5
77	Treatment of pleural malignancies by photoinduction combined to systemic chemotherapy: Proof of concept on rodent lung tumors and feasibility study on porcine chest cavities. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 807-816.	2.1	5
78	Optimization and characterization of the endogenous production of protoporphyrin IX in a yeast model. <i>Journal of Biomedical Optics</i> , 2016, 21, 125008.	2.8	5
79	Catechin reduces phototoxic effects induced by protoporphyrin IX-based photodynamic therapy in the chick embryo chorioallantoic membrane. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.8	5
80	Clinical Evaluation of the Cutaneous Phototoxicity of 5,10,15,20-Tetra (m-hydroxyphenyl)chlorin. <i>Photochemistry and Photobiology</i> , 1998, 68, 382.	2.6	5
81	In vitro and in vivo studies of new photoluminescent oxygen sensors for non-invasive intravascular pO ₂ measurements. , 2009, , .		4
82	Determination of the radiance of cylindrical light diffusers: design of a one-axis charge-coupled device camera-based goniometer setup. <i>Journal of Biomedical Optics</i> , 2017, 22, 035004.	2.8	4
83	Lung Cancer Imaging With Fluorescence Endoscopy. , 2003, , .		4
84	Autofluorescence bronchoscopy: Clinical experience with an optimized system in head and neck cancer patients. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2007, 22, 185-192.	0.4	3
85	Vascular effects induced by anti-VEGF agents in the CAM model: effect of the DMSO. , 2009, , .		3
86	Study of the influence of over-the-counter vitamin supplement intake on urine fluorescence to optimize cancer detection by fluorescence cystoscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 066011.	2.8	3
87	Optical Characterization of an Intra-Arterial Light and Drug Delivery System for Photodynamic Therapy of Atherosclerotic Plaque. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4304.	2.6	3
88	A general framework for non-exponential delayed fluorescence and phosphorescence decay analysis, illustrated on Protoporphyrin IX. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111887.	3.9	3
89	Identification of excimer delayed fluorescence by Protoporphyrin IX: A novel access to local chromophore concentration?. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2022, 229, 112408.	3.9	3
90	Effect of Photobiomodulation on Protein Kinase C δ , Cytochrome C, and Mitochondria in U87 MG Cells. <i>Cells</i> , 2023, 12, 1441.	4.3	3

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91	Evaluation of the Photosensitizer Tookad® for Photodynamic Therapy on the Syrian Golden Hamster Cheek Pouch Model: Light Dose, Drug Dose and Drug-light Interval Effects. Photochemistry and Photobiology, 2007, 78, 377-383.	2.6	2
92	Detection of early bladder carcinoma by fluorescence cystoscopy with Hexvix(R): improvement of the specificity by microcystoscopy. , 2008, , .		2
93	Intraocular Lens Refractive Index and Its Impact on External Surface Reflections. Journal of Refractive Surgery, 2021, 37, 398-402.	2.3	2
94	The Chicken Embryo Chorioallantoic Membrane as an In Vivo Model for Photodynamic Therapy. Methods in Molecular Biology, 2022, 2451, 107-125.	0.0	2
95	Optimization of the Distance between Cylindrical Light Distributors Used for Interstitial Light Delivery in Biological Tissues. Photonics, 2022, 9, 597.	2.1	2
96	Fluorescence of the bladder washout fluid following cystoscopy: a preliminary study. Proceedings of SPIE, 2010, , .	1.0	1
97	Modulation of the endogenous production of protoporphyrin IX in a yeast-based model organism. Proceedings of SPIE, 2017, , .	1.0	1
98	Stimulation of the oxygen consumption by photobiomodulation in the chicken embryo chorioallantoic membrane during hypoxia. Translational Biophotonics, 2020, 2, e201900025.	3.0	1
99	Study of the stability of the 5-aminolevulinic acid tyrosine ester in aqueous solution. Arkivoc, 2014, 2014, 228-238.	0.6	1
100	Measurements of the optical coefficients of the protoporphyrin IX endogenously producing yeast-based model in the visible and NIR. Journal of Biomedical Optics, 2018, 23, 1.	2.8	1
101	IMPROVEMENT OF THE CONTRAST IN CANCER DETECTION BY AUTOFLUORESCENCE BRONCHOSCOPY USING A NARROW SPECTRAL VIOLET EXCITATION : A PRELIMINARY STUDY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 17-22.	0.4	0
102	Detection of early bronchial cancer by autofluorescence: results in patients with H&N cancer. , 2007, , .		0
103	Detection of early bladder carcinoma by fluorescence cystoscopy with Hexvix: optical characterization of a high magnification cystoscope. Proceedings of SPIE, 2009, , .	1.0	0
104	Bladder cancer detection by fluorescence imaging with Hexvix: optimization of the excitation light during high magnification cystoscopy. , 2009, , .		0
105	Bladder cancer detection by fluorescence imaging with Hexvix: analysis and processing of images obtained during high magnification cystoscopy. , 2009, , .		0
106	Reflectance imaging of the human retina at 810Ånm does not suffice to optimize the parameters of hydrodynamic rebalancing laser treatment. Journal of Biomedical Optics, 2012, 17, 116027.	2.8	0
107	Study of the NIR Light Induced Effects on Neuroblastoma N2A Cells with Parkinson's-Like Features. Biophysical Journal, 2016, 110, 470a-471a.	0.5	0
108	In vivo measurement of the tissue oxygenation by time-resolved luminescence spectroscopy of protoporphyrin IX: strategies to minimize artefacts associated with photoproducts. Proceedings of SPIE, 2017, , .	1.0	0

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109	In vivo investigation of the optical properties of muscle using a layered model. , 1999, , .		0
110	Increase and homogenization of the endogenous production of protoporphyrin IX by photobiomodulation. , 2019, , .		0
111	Photoprotective effect of catechin during ALA-PDT. , 2019, , .		0