

Gerald Steiner

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,506
citations

331259

21
h-index

344852

36
g-index

80
all docs

80
docs citations

80
times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of cortical hemodynamic changes following sensory, visual, and speech activation by intraoperative optical imaging utilizing phase-based evaluation methods. <i>Human Brain Mapping</i> , 2022, 43, 598-615.	1.9	5
2	Guozhen Wu: Vibrational spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7-8.	1.9	1
3	Label-free multiphoton imaging allows brain tumor recognition based on texture analysis—a study of 382 tumor patients. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa035.	0.4	11
4	Molecular Spectroscopic Imaging Offers a Systematic Assessment of Pathological Aortic Valve and Prosthesis Tissue in Biomineralization. <i>Crystals</i> , 2020, 10, 763.	1.0	5
5	Fiber based infrared spectroscopy of cancer tissues. <i>Journal of Molecular Structure</i> , 2020, 1220, 128724.	1.8	5
6	Fiber attenuated total reflection infrared spectroscopy of kidney tissue during live surgery. <i>Journal of Biophotonics</i> , 2020, 13, e202000018.	1.1	5
7	Mapping of language and motor function during awake neurosurgery with intraoperative optical imaging. <i>Neurosurgical Focus</i> , 2020, 48, E3.	1.0	10
8	Rapid Label-Free Analysis of Brain Tumor Biopsies by Near Infrared Raman and Fluorescence Spectroscopy—A Study of 209 Patients. <i>Frontiers in Oncology</i> , 2019, 9, 1165.	1.3	29
9	Label-free Imaging of Tissue Architecture during Axolotl Peripheral Nerve Regeneration in Comparison to Functional Recovery. <i>Scientific Reports</i> , 2019, 9, 12641.	1.6	3
10	Identification of distinctive features in human intracranial tumors by label-free nonlinear multimodal microscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201800465.	1.1	10
11	Non-invasive monitoring of blood glucose using optical methods for skin spectroscopy—opportunities and recent advances. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 63-77.	1.9	60
12	Optical molecular imaging of corpora amylacea in human brain tissue. <i>Biomedizinische Technik</i> , 2018, 63, 579-585.	0.9	7
13	Nerve regeneration in the cephalopod mollusc <i>Octopus vulgaris</i> : label-free multiphoton microscopy as a tool for investigation. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170889.	1.5	13
14	Rapid intraoperative diagnosis of kidney cancer by attenuated total reflection infrared spectroscopy of tissue smears. <i>Journal of Biophotonics</i> , 2018, 11, e201700260.	1.1	7
15	Optical Analysis of Glioma: Fourier-Transform Infrared Spectroscopy Reveals the <i>IDH1</i> Mutation Status. <i>Clinical Cancer Research</i> , 2018, 24, 2530-2538.	3.2	27
16	Sexing of chicken eggs by fluorescence and Raman spectroscopy through the shell membrane. <i>PLoS ONE</i> , 2018, 13, e0192554.	1.1	47
17	Treatment with XAV-939 prevents in vitro calcification of human valvular interstitial cells. <i>PLoS ONE</i> , 2018, 13, e0208774.	1.1	14
18	Application of thermography for cerebral perfusion imaging during aneurysm surgery. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 29-32.	0.2	1

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19	IDH1 mutation in human glioma induces chemical alterations that are amenable to optical Raman spectroscopy. <i>Journal of Neuro-Oncology</i> , 2018, 139, 261-268.	1.4	35
20	Label-free multiphoton microscopy reveals relevant tissue changes induced by alginate hydrogel implantation in rat spinal cord injury. <i>Scientific Reports</i> , 2018, 8, 10841.	1.6	19
21	Assessing the efficacy of coherent anti-Stokes Raman scattering microscopy for the detection of infiltrating glioblastoma in fresh brain samples. <i>Journal of Biophotonics</i> , 2017, 10, 404-414.	1.1	28
22	Framework for 2D-3D image fusion of infrared thermography with preoperative MRI. <i>Biomedizinische Technik</i> , 2017, 62, 599-607.	0.9	9
23	Label-free multiphoton microscopy reveals altered tissue architecture in hippocampal sclerosis. <i>Epilepsia</i> , 2017, 58, e1-e5.	2.6	12
24	In ovo sexing of chicken eggs by fluorescence spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1185-1194.	1.9	47
25	Contactless in ovo sex determination of chicken eggs. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 131-134.	0.2	11
26	Microstructure of urinary stones as studied by means of multimodal nonlinear optical imaging. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 22-29.	1.2	5
27	Cerebral cortex classification by conditional random fields applied to intraoperative thermal imaging. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 475-478.	0.2	2
28	In Ovo Sexing of Domestic Chicken Eggs by Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 8657-8663.	3.2	41
29	Nondestructive Molecular Characterization of Polycarbonate/Polyvinylamine Composites after Thermally Induced Aminolysis. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 648-652.	1.7	15
30	Inflammation-related alterations of lipids after spinal cord injury revealed by Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 061008.	1.4	10
31	Label free molecular sexing of monomorphic birds using infrared spectroscopic imaging. <i>Talanta</i> , 2016, 150, 155-161.	2.9	5
32	Biochemical Monitoring of Spinal Cord Injury by FT-IR Spectroscopy—Effects of Therapeutic Alginate Implant in Rat Models. <i>PLoS ONE</i> , 2015, 10, e0142660.	1.1	20
33	Endogenous Two-Photon Excited Fluorescence Provides Label-Free Visualization of the Inflammatory Response in the Rodent Spinal Cord. <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	15
34	Motion correction of thermographic images in neurosurgery. , 2015, , .		3
35	Intrinsic Indicator of Photodamage during Label-Free Multiphoton Microscopy of Cells and Tissues. <i>PLoS ONE</i> , 2014, 9, e110295.	1.1	69
36	Identification of kidney tumor tissue by infrared spectroscopy of extracellular matrix. <i>Journal of Biomedical Optics</i> , 2014, 19, 087005.	1.4	14

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37	Wavelet Subspace Analysis of Intraoperative Thermal Imaging for Motion Filtering. Lecture Notes in Computer Science, 2014, , 411-420.	1.0	7
38	Optical spectroscopic methods for intraoperative diagnosis. Analytical and Bioanalytical Chemistry, 2014, 406, 21-25.	1.9	12
39	Label-free identification of the glioma stem-like cell fraction using Fourier-transform infrared spectroscopy. International Journal of Radiation Biology, 2014, 90, 710-717.	1.0	18
40	Molecular spectroscopy from near-infrared to terahertz wavelengthsâ€”more than just good vibrations: Seventh International Conference on Advanced Vibrational Spectroscopy (ICVAS 7). Analytical and Bioanalytical Chemistry, 2014, 406, 1819-1820.	1.9	0
41	Label-Free Delineation of Brain Tumors by Coherent Anti-Stokes Raman Scattering Microscopy in an Orthotopic Mouse Model and Human Glioblastoma. PLoS ONE, 2014, 9, e107115.	1.1	77
42	Effects of tissue fixation on coherent anti-Stokes Raman scattering images of brain. Journal of Biomedical Optics, 2013, 19, 071402.	1.4	33
43	Infrared Spectroscopic Studies of Cells and Tissues: Triple Helix Proteins as a Potential Biomarker for Tumors. PLoS ONE, 2013, 8, e58332.	1.1	20
44	Hyperspectral imaging - A new modality for eye diagnostics. Biomedizinische Technik, 2012, 57, .	0.9	12
45	Vibrational Spectroscopic Imaging and Multiphoton Microscopy of Spinal Cord Injury. Analytical Chemistry, 2012, 84, 8707-8714.	3.2	47
46	Label-free differentiation of human pituitary adenomas by FT-IR spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2012, 403, 727-735.	1.9	9
47	Intraoperative imaging of cortical cerebral perfusion by time-resolved thermography and multivariate data analysis. Journal of Biomedical Optics, 2011, 16, 016001.	1.4	35
48	Infrared spectroscopic imaging of renal tumor tissue. Journal of Biomedical Optics, 2011, 16, 096006.	1.4	12
49	Gender determination of fertilized unincubated chicken eggs by infrared spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2011, 400, 2775-2782.	1.9	47
50	Intra-operative optical diagnostics with vibrational spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 400, 2745-2753.	1.9	12
51	Living cell spectroscopy challenge. Analytical and Bioanalytical Chemistry, 2011, 400, 2681-2682.	1.9	0
52	Solution to living cell spectroscopy challenge. Analytical and Bioanalytical Chemistry, 2011, 401, 2327-2327.	1.9	0
53	Conductive Polymer for Elevated Temperature Applications Based on Sodium Sulfosuccinate Coupled Poly(ethylene glycol)s. Macromolecular Chemistry and Physics, 2011, 212, 2641-2647.	1.1	2
54	Bird sexing by Fourier transform infrared spectroscopy. Proceedings of SPIE, 2010, , .	0.8	0

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55	Sexing of turkey poults by Fourier transform infrared spectroscopy. Analytical and Bioanalytical Chemistry, 2010, 396, 465-470.	1.9	11
56	Photonics West – one of the largest conferences in the world. Analytical and Bioanalytical Chemistry, 2010, 397, 903-904.	1.9	1
57	Trends in Fourier transform infrared spectroscopic imaging. Analytical and Bioanalytical Chemistry, 2009, 394, 671-678.	1.9	59
58	PM-IRRAS mapping of ultrathin molecular films with high spatial resolution. Analytical and Bioanalytical Chemistry, 2009, 395, 1641-1650.	1.9	5
59	Rapid and label-free classification of human glioma cells by infrared spectroscopic imaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 1158-1164.	1.1	23
60	Hydrogel-Based Piezoresistive pH Sensors: Investigations Using FT-IR Attenuated Total Reflection Spectroscopic Imaging. Analytical Chemistry, 2008, 80, 2957-2962.	3.2	61
61	Conformational Changes during Protein Adsorption. FT-IR Spectroscopic Imaging of Adsorbed Fibrinogen Layers. Analytical Chemistry, 2007, 79, 1311-1316.	3.2	75
62	Characterization of Metal-Supported Poly(methyl methacrylate) Microstructures by FTIR Imaging Spectroscopy. Langmuir, 2006, 22, 4125-4130.	1.6	16
63	Polarization Modulation-Infrared Reflection Absorption Spectroscopic Mapping. Analytical Chemistry, 2006, 78, 2487-2493.	3.2	6
64	Measurement Techniques. , 2005, , 70-88.		0
65	Surface plasmon resonance imaging. Analytical and Bioanalytical Chemistry, 2004, 379, 328-331.	1.9	161
66	Distinguishing and grading human gliomas by IR spectroscopy. Biopolymers, 2003, 72, 464-471.	1.2	65
67	Identification of tumor tissue by FTIR spectroscopy in combination with positron emission tomography. Vibrational Spectroscopy, 2002, 28, 103-110.	1.2	43
68	Characterization of ultra-thin polymer films by polarization modulation FTIR spectroscopy. Macromolecular Symposia, 2001, 164, 159-166.	0.4	1
69	Molecular Imaging of Microstructured Polymer Surfaces. , 0, , 7-15.		1