Claudio Vinegoni

List of Publications by Year in descending order

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124 papers	8,874 citations	53660 45 h-index	43802 91 g-index

128 all docs	128 docs citations	128 times ranked	12471 citing authors

#	Article	IF	Citations
1	Bone marrow endothelial dysfunction promotes myeloid cell expansion in cardiovascular disease. , 2022, 1, 28-44.		32
2	Cerebrospinal fluid can exit into the skull bone marrow and instruct cranial hematopoiesis in mice with bacterial meningitis. Nature Neuroscience, 2022, 25, 567-576.	7.1	72
3	Spatiotemporal multiplexed immunofluorescence imaging of living cells and tissues with bioorthogonal cycling of fluorescent probes. Nature Biotechnology, 2022, 40, 1654-1662.	9.4	42
4	Neutrophils incite and macrophages avert electrical storm after myocardial infarction. , 2022, 1, 649-664.		33
5	Astrocytic interleukin-3 programs microglia and limits Alzheimerâ€™s disease. Nature, 2021, 595, 701-706.	13.7	157
6	CytoPANâ€”Portable cellular analyses for rapid point-of-care cancer diagnosis. Science Translational Medicine, 2020, 12, .	5.8	21
7	Diminished Reactive Hematopoiesis and Cardiac Inflammation in a Mouse Model of Recurrent Myocardial Infarction. Journal of the American College of Cardiology, 2020, 75, 901-915.	1.2	28
8	Fluorescence microscopy tensor imaging representations for large-scale dataset analysis. Scientific Reports, 2020, 10, 5632.	1.6	7
9	Extended dynamic range imaging for noise mitigation in fluorescence anisotropy imaging. Journal of Biomedical Optics, 2020, 25, .	1.4	2
10	Characterization of single microvesicles in plasma from glioblastoma patients. Neuro-Oncology, 2019, 21, 606-615.	0.6	72
11	High Dynamic Range Fluorescence Imaging. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	14
12	Fluorescence anisotropy imaging in drug discovery. Advanced Drug Delivery Reviews, 2019, 151-152, 262-288.	6.6	51
13	Cardiac macrophages promote diastolic dysfunction. Journal of Experimental Medicine, 2018, 215, 423-440.	4.2	314
14	The anti-tumor diterpene oridonin is a direct inhibitor of Nucleolin in cancer cells. Scientific Reports, 2018, 8, 16735.	1.6	40
15	Imaging the Vascular Bone Marrow Niche During Inflammatory Stress. Circulation Research, 2018, 123, 415-427.	2.0	45
16	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. Nature Neuroscience, 2018, 21, 1209-1217.	7.1	302
17	Motion characterization scheme to minimize motion artifacts in intravital microscopy. Journal of Biomedical Optics, 2017, 22, 036005.	1.4	16
18	Macrophages Facilitate Electrical Conduction in the Heart. Cell, 2017, 169, 510-522.e20.	13.5	703

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19	Quantitating drug-target engagement in single cells in vitro and in vivo. Nature Chemical Biology, 2017, 13, 168-173.	3.9	81
20	Transparent Electrophysiology Microelectrodes and Interconnects from Metal Nanomesh. ACS Nano, 2017, 11, 4365-4372.	7.3	58
21	Measurement of drug-target engagement in live cells by two-photon fluorescence anisotropy imaging. Nature Protocols, 2017, 12, 1472-1497.	5.5	19
22	Design and Development of Fluorescent Vemurafenib Analogs for In Vivo Imaging. Theranostics, 2017, 7, 1257-1265.	4.6	16
23	Two-photon imaging of pancreatic beta cells in real time in vivo. Technology, 2016, 04, 130-134.	1.4	1
24	Real-time high dynamic range laser scanning microscopy. Nature Communications, 2016, 7, 11077.	5.8	33
25	Computational imaging reveals mitochondrial morphology as a biomarker of cancer phenotype and drug response. Scientific Reports, 2016, 6, 32985.	1.6	58
26	Tyrosine kinase-mediated axial motility of basal cells revealed by intravital imaging. Nature Communications, 2016, 7, 10666.	5.8	23
27	RNAi targeting multiple cell adhesion molecules reduces immune cell recruitment and vascular inflammation after myocardial infarction. Science Translational Medicine, 2016, 8, 342ra80.	5.8	169
28	Two-Photon Fluorescence Anisotropy Microscopy for Imaging and Direct Measurement of Intracellular Drug Target Engagement. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 179-185.	1.9	11
29	Abstract 234: Mitochondrial morphology as a biomarker of cancer phenotype and drug response. , 2016, , .		0
30	Rapid, high efficiency isolation of pancreatic ÃŸ-cells. Scientific Reports, 2015, 5, 13681.	1.6	17
31	New techniques for motion-artifact-free in vivo cardiac microscopy. Frontiers in Physiology, 2015, 6, 147.	1.3	34
32	Advances in measuring single-cell pharmacology in vivo. Drug Discovery Today, 2015, 20, 1087-1092.	3.2	41
33	Myocardial Infarction Activates CCR2+ Hematopoietic Stem and Progenitor Cells. Cell Stem Cell, 2015, 16, 477-487.	5.2	168
34	Imaging the beating heart in the mouse using intravital microscopy techniques. Nature Protocols, 2015, 10, 1802-1819.	5.5	72
35	Steady state anisotropy two-photon microscopy resolves multiple, spectrally similar fluorophores, enabling in vivo multilabel imaging. Optics Letters, 2014, 39, 4482.	1.7	3
36	In vivo imaging of specific drugâ€“target binding at subcellular resolution. Nature Communications, 2014, 5, 3946.	5.8	65

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37	Intravital imaging of cardiac function at the single-cell level. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11257-11262.	3.3	74
38	Advanced Motion Compensation Methods for Intravital Optical Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 83-91.	1.9	28
39	Chronic variable stress activates hematopoietic stem cells. Nature Medicine, 2014, 20, 754-758.	15.2	565
40	Automated motion artifact removal for intravital microscopy, without a priori information. Scientific Reports, 2014, 4, 4507.	1.6	56
41	Noise suppressed, multifocus image fusion for enhanced intraoperative navigation. Journal of Biophotonics, 2013, 6, 363-370.	1.1	4
42	Novel Fluorescent Probes for Intraoperative Cholangiography. Frontiers of Gastrointestinal Research, 2013, , 106-112.	0.1	0
43	Sequential average segmented microscopy for high signal-to-noise ratio motion-artifact-free in vivo heart imaging. Biomedical Optics Express, 2013, 4, 2095.	1.5	18
44	Deep Tissue Optical and Optoacoustic Molecular Imaging Technologies for Pre-Clinical Research and Drug Discovery. Current Pharmaceutical Biotechnology, 2012, 13, 504-522.	0.9	65
45	Motion compensation using a suctioning stabilizer for intravital microscopy. Intravital, 2012, 1, 115-121.	2.0	36
46	In Vivo Imaging of Drug-Induced Mitochondrial Outer Membrane Permeabilization at Single-Cell Resolution. Cancer Research, 2012, 72, 2949-2956.	0.4	19
47	Improved intravital microscopy via synchronization of respiration and holder stabilization. Journal of Biomedical Optics, 2012, 17, 0960181.	1.4	24
48	Implantable microenvironments to attract hematopoietic stem/cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19638-19643.	3.3	93
49	Myocardial infarction accelerates atherosclerosis. Nature, 2012, 487, 325-329.	13.7	874
50	Imaging Therapeutic PARP Inhibition In Vivo through Bioorthogonally Developed Companion Imaging Agents. Neoplasia, 2012, 14, 169-IN3.	2.3	97
51	Real-time in vivo imaging of the beating mouse heart at microscopic resolution. Nature Communications, 2012, 3, 1054.	5.8	126
52	PET/MRI of Inflammation in Myocardial Infarction. Journal of the American College of Cardiology, 2012, 59, 153-163.	1.2	301
53	Optochemogenetics (OCG) Allows More Precise Control of Genetic Engineering in Mice with CreER regulators. Bioconjugate Chemistry, 2012, 23, 1945-1951.	1.8	31
54	Mapping Molecular Agents Distributions in Whole Mice Hearts Using Born-Normalized Optical Projection Tomography. PLoS ONE, 2012, 7, e34427.	1.1	5

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55	Bioorthogonal Imaging of Aurora Kinaseâ€…A in Live Cells. Angewandte Chemie - International Edition, 2012, 51, 6598-6603.	7.2	85
56	Searching for anatomical correlates of olfactory lateralization in the honeybee antennal lobes: A morphological and behavioural study. Behavioural Brain Research, 2011, 221, 290-294.	1.2	30
57	In-vivo two-photon imaging of the honey bee antennal lobe. Biomedical Optics Express, 2011, 2, 131.	1.5	18
58	Intraoperative Nearâ€infrared Fluorescent Cholangiography (NIRFC) in Mouse Models of Bile Duct Injury: Reply. World Journal of Surgery, 2011, 35, 694-695.	0.8	7
59	A multimodal approach for tracing lateralisation along the olfactory pathway in the honeybee through electrophysiological recordings, morpho-functional imaging, and behavioural studies. European Biophysics Journal, 2011, 40, 1247-1258.	1.2	25
60	Indocyanine Green Enables Near-Infrared Fluorescence Imaging of Lipid-Rich, Inflamed Atherosclerotic Plaques. Science Translational Medicine, 2011, 3, 84ra45.	5.8	174
61	An algorithm to correct 2D near-infrared fluorescence signals using 3D intravascular ultrasound architectural information. Proceedings of SPIE, 2011, , .	0.8	3
62	Accurate measurement of pancreatic islet Î²-cell mass using a second-generation fluorescent exendin-4 analog. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12815-12820.	3.3	121
63	WNT5A/JNK and FGF/MAPK Pathways Regulate the Cellular Events Shaping the Vertebrate Limb Bud. Current Biology, 2010, 20, 1993-2002.	1.8	155
64	Intravascular near-infrared fluorescence molecular imaging of atherosclerosis: toward coronary arterial visualization of biologically high-risk plaques. Journal of Biomedical Optics, 2010, 15, 011107.	1.4	50
65	Hybrid PET-optical imaging using targeted probes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7910-7915.	3.3	208
66	Block matching 3D random noise filtering for absorption optical projection tomography. Physics in Medicine and Biology, 2010, 55, 5401-5415.	1.6	115
67	Fluorescent protein imaging with multispectral optoacoustic tomography. Proceedings of SPIE, 2010, , .	0.8	0
68	Imaging of molecular probe activity with Born-normalized fluorescence optical projection tomography. Optics Letters, 2010, 35, 1088.	1.7	9
69	In-vivo two-photon imaging of the honey bee antennal lobe. Biomedical Optics Express, 2010, 2, 131-8.	1.5	20
70	Mesoscopic Fluorescence Tomography for In-vivo Imaging of Developing Drosophila. Journal of Visualized Experiments, 2009, , .	0.2	7
71	Deep tissue optoacoustic imaging of polarized structures. Proceedings of SPIE, 2009, , .	0.8	0
72	Mesoscopic imaging of fluorescent proteins using multi-spectral optoacoustic tomography (MSOT). Proceedings of SPIE, 2009, , .	0.8	1

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73	Imaging of mesoscopic-scale organisms using selective-plane optoacoustic tomography. Physics in Medicine and Biology, 2009, 54, 2769-2777.	1.6	48
74	Multispectral opto-acoustic tomography of deep-seated fluorescent proteins in vivo. Nature Photonics, 2009, 3, 412-417.	15.6	632
75	Normalized Born ratio for fluorescence optical projection tomography. Optics Letters, 2009, 34, 319.	1.7	38
76	Transillumination fluorescence imaging in mice using biocompatible upconverting nanoparticles. Optics Letters, 2009, 34, 2566.	1.7	63
77	Diffractionless beam in free space with adiabatic changing refractive index in a single mode tapered slab waveguide. Optics Express, 2009, 17, 21723.	1.7	2
78	High throughput transmission optical projection tomography using low cost graphics processing unit. Optics Express, 2009, 17, 22320.	1.7	35
79	Born Normalization for Fluorescence Optical Projection Tomography for Whole Heart Imaging. Journal of Visualized Experiments, 2009, , .	0.2	14
80	In vivo imaging of Drosophila melanogaster pupae with mesoscopic fluorescence tomography. Nature Methods, 2008, 5, 45-47.	9.0	125
81	Polarization-sensitive optoacoustic tomography of optically diffuse tissues. Optics Letters, 2008, 33, 2308.	1.7	4
82	Real-time assessment of inflammation and treatment response in a mouse model of allergic airway inflammation. Journal of Clinical Investigation, 2008, 118, 4058-4066.	3.9	66
83	Real-Time Catheter Molecular Sensing of Inflammation in Proteolytically Active Atherosclerosis. Circulation, 2008, 118, 1802-1809.	1.6	188
84	Multi-spectral photo-acoustic molecular tomography resolves fluorochrome distribution with high resolution and sensitivity in small animals. Proceedings of SPIE, 2008, , .	0.8	1
85	Multispectral photoacoustic imaging of fluorochromes in small animals. Optics Letters, 2007, 32, 2891.	1.7	208
86	Imaging cellular responses to mechanical stimuli within three-dimensional tissue constructs. Microscopy Research and Technique, 2007, 70, 361-371.	1.2	26
87	Spectroscopic spectral-domain optical coherence microscopy. Optics Letters, 2006, 31, 1079.	1.7	104
88	High-spectral-resolution coherent anti-Stokes Raman scattering with interferometrically detected broadband chirped pulses. Optics Letters, 2006, 31, 1543.	1.7	31
89	Multi-modality imaging of structure and function combining spectral-domain optical coherence and multiphoton microscopy. , 2006, 6079, 226.		1
90	Integrated structural and functional optical imaging combining spectral-domain optical coherence and multiphoton microscopy. Applied Physics Letters, 2006, 88, 053901.	1.5	69

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91	Molecularly sensitive optical ranging using nonlinear interferometric vibrational imaging. , 2005, , .		0
92	Nonlinear interferometric vibrational imaging: optical ranging and spatial localization of CARS. , 2005, , .		0
93	Molecularly sensitive optical coherence tomography. Optics Letters, 2005, 30, 495.	1.7	46
94	Nonlinear Interferometric Vibrational Imaging with Differentiation of Resonant CARS from Nonresonant Four-Wave Mixing Processes. , 2004, , TuB3.		0
95	Pulse shaping strategies for nonlinear interferometric vibrational imaging optimized for biomolecular imaging. , 2004, 2004, 5300-3.		1
96	Interferometric differentiation between resonant coherent anti-Stokes Raman scattering and nonresonant four-wave-mixing processes. Applied Physics Letters, 2004, 85, 5787-5789.	1.5	53
97	Nonlinear optical contrast enhancement for optical coherence tomography. Optics Express, 2004, 12, 331.	1.7	95
98	The Statistics of Polarization-Dependent Loss in a Recirculating Loop. Journal of Lightwave Technology, 2004, 22, 968-976.	2.7	21
99	Nonlinear interferometric vibrational imaging of molecular species. , 2004, 5321, 149.		1
100	Structural and functional imaging of engineered tissue development using an integrated OCT and multiphoton microscope. , 2004, 5319, 1.		0
101	Distributed measurements of chromatic dispersion and nonlinear coefficient in low-PMD dispersion-shifted fibers. IEEE Photonics Technology Letters, 2003, 15, 739-741.	1.3	8
102	Statistics of PMD in recirculating loops. IEEE Photonics Technology Letters, 2003, 15, 1543-1545.	1.3	7
103	PMD effect on distributed chromatic dispersion measurements in DSF fibers. , 2003, 4833, 1107.		0
104	Emulator of first- and second-order polarization-mode dispersion. IEEE Photonics Technology Letters, 2002, 14, 630-632.	1.3	25
105	Analysis of the polarization evolution in a ribbon cable using high-resolution coherent OFDR. IEEE Photonics Technology Letters, 2001, 13, 145-147.	1.3	12
106	Measurements of the nonlinear coefficient of standard, SMF, DSF, and DCF fibers using a self-aligned interferometer and a Faraday mirror. IEEE Photonics Technology Letters, 2001, 13, 1337-1339.	1.3	22
107	All optical switching in a highly birefringent and a standard telecom fiber using a Faraday mirror stabilization scheme. Optics Communications, 2000, 182, 335-341.	1.0	13
108	Morphological and optical characterization of GaN prepared by pulsed laser deposition. Surface and Coatings Technology, 2000, 124, 272-277.	2.2	9

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109	Measurement of nonlinear polarization rotation in a highly birefringent optical fibre using a Faraday mirror. Journal of Optics, 2000, 2, 314-318.	1.5	21
110	Optical absorption and photoluminescence properties ofaâˆ'Si1âˆ'xNx:Hfilms deposited by plasma-enhanced CVD. Physical Review B, 2000, 61, 4693-4698.	1.1	61
111	Distributed gain measurements in Er-doped fibers with high resolution and accuracy using an optical frequency domain reflectometer. Journal of Lightwave Technology, 2000, 18, 2127-2132.	2.7	37
112	Determination of nonlinear coefficient n2/Aeff using self-aligned interferometer and Faraday mirror. Electronics Letters, 2000, 36, 886.	0.5	19
113	Resonant second harmonic generation in ZnSe bulk microcavity. Applied Physics Letters, 1999, 74, 1945-1947.	1.5	26
114	Temperature dependence of the photoluminescence of all-porous-silicon optical microcavities. Journal of Applied Physics, 1999, 85, 1760-1764.	1.1	26
115	Luminescent properties of GaN thin films prepared by pulsed laser deposition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 59, 137-140.	1.7	6
116	Raman study of the phase transitions sequence in pure WO3 at high temperature and in HxWO3 with variable hydrogen content. Solid State Ionics, 1999, 123, 67-74.	1.3	104
117	Color centres and polymorphism in pure WO3 and mixed (1âˆ'x)WO3âˆ'yÂ·xReO2 powders. Ionics, 1999, 5, 335-344.	1.2	8
118	Low-Temperature Polymorphism in Tungsten Trioxide Powders and Its Dependence on Mechanical Treatments. Journal of Solid State Chemistry, 1999, 143, 24-32.	1.4	104
119	Raman spectroscopy and scanning electron microscopy investigation of annealed amorphous carbonâ€"germanium films deposited by d.c. magnetron sputtering. Diamond and Related Materials, 1999, 8, 668-672.	1.8	28
120	Luminescence processes in amorphous hydrogenated silicon-nitride nanometric multilayers. Physical Review B, 1999, 60, 11572-11576.	1.1	40
121	Radiative emission properties of a-SiN:H based nanometric multilayers for light emitting devices. Journal of Luminescence, 1998, 80, 423-427.	1.5	10
122	X-ray diffraction, extended x-ray absorption fine structure and Raman spectroscopy studies of WO3 powders and (1âˆ'x)WO3âˆ'yâ‹…xReO2 mixtures. Journal of Applied Physics, 1998, 84, 5515-5524.	1.1	94
123	Photoluminescence of localized excitons in pulsed-laser-deposited GaN. Applied Physics Letters, 1998, 73, 3390-3392.	1.5	28
124	Implementation of a Faraday mirror stabilization scheme for all optical switching in a standard telecom fiber. , 0, , .		0