

# Peter E Andersen

## List of Publications by Citations

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117  
papers

1,969  
citations

23  
h-index

40  
g-index

175  
ext. papers

2,422  
ext. citations

3.5  
avg, IF

4.42  
L-index

#	Paper	IF	Citations
117	Analysis of optical coherence tomography systems based on the extended Huygens-Fresnel principle. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2000</b> , 17, 484-90	1.8	157
116	Determination of optical scattering properties of highly-scattering media in optical coherence tomography images. <i>Optics Express</i> , <b>2004</b> , 12, 249-59	3.3	152
115	OCT imaging of skin cancer and other dermatological diseases. <i>Journal of Biophotonics</i> , <b>2009</b> , 2, 442-51	3.1	128
114	Optical coherence tomography for imaging of skin and skin diseases. <i>Seminars in Cutaneous Medicine and Surgery</i> , <b>2009</b> , 28, 196-202	1.4	86
113	The free NADH concentration is kept constant in plant mitochondria under different metabolic conditions. <i>Plant Cell</i> , <b>2006</b> , 18, 688-98	11.6	78
112	Optical Radiomic Signatures Derived from Optical Coherence Tomography Images Improve Identification of Melanoma. <i>Cancer Research</i> , <b>2019</b> , 79, 2021-2030	10.1	62
111	Optical coherence tomography-current technology and applications in clinical and biomedical research. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 2699-720	4.4	57
110	1.5 W green light generation by single-pass second harmonic generation of a single-frequency tapered diode laser. <i>Optics Express</i> , <b>2009</b> , 17, 6532-9	3.3	53
109	Tunable high-power narrow-linewidth semiconductor laser based on an external-cavity tapered amplifier. <i>Optics Express</i> , <b>2005</b> , 13, 10589-96	3.3	52
108	Deep tissue optical imaging of upconverting nanoparticles enabled by exploiting higher intrinsic quantum yield through use of millisecond single pulse excitation with high peak power. <i>Nanoscale</i> , <b>2013</b> , 5, 10034-40	7.7	51
107	Derivation of a Monte Carlo method for modeling heterodyne detection in optical coherence tomography systems. <i>Applied Optics</i> , <b>2002</b> , 41, 6676-91	1.7	42
106	Extraction of optical scattering parameters and attenuation compensation in optical coherence tomography images of multilayered tissue structures. <i>Optics Letters</i> , <b>2004</b> , 29, 1641-3	3	41
105	Fourier domain mode-locked swept source at 1050 nm based on a tapered amplifier. <i>Optics Express</i> , <b>2010</b> , 18, 15820-31	3.3	40
104	Diode laser based light sources for biomedical applications. <i>Laser and Photonics Reviews</i> , <b>2013</b> , 7, 605-628	3.3	39
103	Infrared thermography and ultrasonography to indirectly monitor the influence of liner type and overmilking on teat tissue recovery. <i>Acta Veterinaria Scandinavica</i> , <b>2005</b> , 46, 137-47	2	35
102	Determination of tissue optical properties from diffuse reflectance profiles by multivariate calibration. <i>Applied Optics</i> , <b>1998</b> , 37, 772-8	1.7	35
101	High power 404 nm source based on second harmonic generation in PPKTP of a tapered external feedback diode laser. <i>Optics Express</i> , <b>2008</b> , 16, 2486-93	3.3	28

100	Advanced modelling of optical coherence tomography systems. <i>Physics in Medicine and Biology</i> , <b>2004</b> , 49, 1307-27	3.8	28
99	MCmatlab: an open-source, user-friendly, MATLAB-integrated three-dimensional Monte Carlo light transport solver with heat diffusion and tissue damage. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-6	3.5	28
98	How histological features of basal cell carcinomas influence image quality in optical coherence tomography. <i>Journal of Biophotonics</i> , <b>2011</b> , 4, 544-51	3.1	26
97	Frequency-doubled DBR-tapered diode laser for direct pumping of Ti:sapphire lasers generating sub-20 fs pulses. <i>Optics Express</i> , <b>2011</b> , 19, 12156-63	3.3	25
96	Absolute refractive index determination by microinterferometric backscatter detection. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 1946-53	7.8	25
95	Nonlinear combinations of gratings in Bi <sub>12</sub> SiO <sub>20</sub> : theory and experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1422	1.7	23
94	Integrated single- and two-photon light sheet microscopy using accelerating beams. <i>Scientific Reports</i> , <b>2017</b> , 7, 1435	4.9	22
93	16 W output power by high-efficient spectral beam combining of DBR-tapered diode lasers. <i>Optics Express</i> , <b>2011</b> , 19, 1228-35	3.3	22
92	Concept for power scaling second harmonic generation using a cascade of nonlinear crystals. <i>Optics Express</i> , <b>2015</b> , 23, 15921-34	3.3	21
91	Physical limits of semiconductor laser operation: A time-resolved analysis of catastrophic optical damage. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 021110	3.4	21
90	Catastrophic optical mirror damage in diode lasers monitored during single-pulse operation. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 191101	3.4	21
89	Retinal polarization-sensitive optical coherence tomography at 1060 nm with 350 kHz A-scan rate using an Fourier domain mode locked laser. <i>Journal of Biomedical Optics</i> , <b>2013</b> , 18, 26008	3.5	19
88	Supercontinuum generation for coherent anti-Stokes Raman scattering microscopy with photonic crystal fibers. <i>Optics Express</i> , <b>2011</b> , 19, 26672-83	3.3	19
87	Broadband light generation at approximately 1300 nm through spectrally recoiled solitons and dispersive waves. <i>Optics Letters</i> , <b>2008</b> , 33, 621-3	3	19
86	Non-invasive assessment of dairy products using spatially resolved diffuse reflectance spectroscopy. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 1096-105	3.1	18
85	An experimental study of language intensity and response rate in e mail surveys. <i>Communication Reports</i> , <b>2004</b> , 17, 73-84	2	18
84	Closed-form solution for the Wigner phase-space distribution function for diffuse reflection and small-angle scattering in a random medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2000</b> , 17, 2464-74	1.8	17
83	Near-diffraction-limited segmented broad area diode laser based on off-axis spectral beam combining. <i>Applied Physics B: Lasers and Optics</i> , <b>2006</b> , 83, 225-228	1.9	16

82	Intensity Noise Transfer Through a Diode-Pumped Titanium Sapphire Laser System. <i>IEEE Journal of Quantum Electronics</i> , <b>2018</b> , 54, 1-9	2	15
81	Imaging of cutaneous larva migrans by optical coherence tomography. <i>Travel Medicine and Infectious Disease</i> , <b>2007</b> , 5, 243-6	8.4	15
80	Simultaneous dual wavelength eye-tracked ultrahigh resolution retinal and choroidal optical coherence tomography. <i>Optics Letters</i> , <b>2013</b> , 38, 4312-5	3	14
79	Efficient concept for generation of diffraction-limited green light by sum-frequency generation of spectrally combined tapered diode lasers. <i>Optics Letters</i> , <b>2012</b> , 37, 3753-5	3	14
78	Wavelength stabilization of extended-cavity tapered lasers with volume Bragg gratings. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 91, 493-498	1.9	13
77	Swept wavelength source in the 1 microm range. <i>Optics Express</i> , <b>2005</b> , 13, 4096-106	3.3	13
76	Morpho-molecular ex vivo detection and grading of non-muscle-invasive bladder cancer using forward imaging probe based multimodal optical coherence tomography and Raman spectroscopy. <i>Analyst, The</i> , <b>2020</b> , 145, 1445-1456	5	13
75	Improvement of spatial and temporal coherence of a broad area laser diode using an external-cavity design with double grating feedback. <i>Optics Express</i> , <b>2004</b> , 12, 609-16	3.3	12
74	Crosstalk in dynamic optical interconnects in photorefractive crystals. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 271-273	3.4	12
73	Highly efficient single-pass sum frequency generation by cascaded nonlinear crystals. <i>Optics Letters</i> , <b>2015</b> , 40, 5526-9	3	11
72	All passive synchronized Q-switching of a quasi-three-level and a four-level Nd:YAG laser. <i>Optics Express</i> , <b>2010</b> , 18, 23987-93	3.3	11
71	Nonlinear combinations of gratings in drift-dominated recording in Bi <sub>12</sub> SiO <sub>20</sub> . <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 2453	1.7	11
70	Power Scaling of Nonlinear Frequency Converted Tapered Diode Lasers for Biophotonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2014</b> , 20, 307-321	3.8	10
69	Investigation of the impact of water absorption on retinal OCT imaging in the 1060 nm range. <i>Biomedical Optics Express</i> , <b>2012</b> , 3, 1620-31	3.5	10
68	Highly sensitive biosensing based on interference from light scattering in capillary tubes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 151108	3.4	10
67	Nonlinear grating interaction in photorefractive Bi <sub>12</sub> SiO <sub>20</sub> . <i>Applied Physics Letters</i> , <b>1995</b> , 66, 792-794	3.4	10
66	Efficient generation of 509 nm light by sum-frequency mixing between two tapered diode lasers. <i>Optics Communications</i> , <b>2015</b> , 339, 137-140	2	9
65	Drug quantification in turbid media by fluorescence imaging combined with light-absorption correction using white Monte Carlo simulations. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 066002	3.5	9

64	Selecting optimal spectral bands for improved detection of autofluorescent biomarkers in multiphoton microscopy. <i>Journal of Biomedical Optics</i> , <b>2020</b> , 25, 1-13	3.5	9
63	Experimental investigation of relative timing jitter in passively synchronized Q-switched lasers. <i>Optics Letters</i> , <b>2011</b> , 36, 415-7	3	7
62	Threshold for strong thermal dephasing in periodically poled KTP in external cavity frequency doubling. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 96, 827-831	1.9	7
61	Photorefractive devices. <i>Ferroelectrics</i> , <b>1995</b> , 174, 149-183	0.6	7
60	Observation of spontaneously frequency-shifted beam fanning in photorefractive Bi12SiO20. <i>Optics Letters</i> , <b>1995</b> , 20, 2475	3	7
59	Theory of nonlinear multiple-grating interaction in diffusion-dominated photorefractive media. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2569	1.7	7
58	Photorefractive particle image velocimetry: performance enhancement with bismuth silicon oxide crystals. <i>Optics Letters</i> , <b>1992</b> , 17, 619-21	3	7
57	Epi-detecting label-free multimodal imaging platform using a compact diode-pumped femtosecond solid-state laser. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 1	3.5	7
56	Computationally effective solution of the inverse problem in time-of-flight spectroscopy. <i>Optics Express</i> , <b>2015</b> , 23, 6937-45	3.3	6
55	Sensitivity analysis for oblique incidence reflectometry using Monte Carlo simulations. <i>Applied Optics</i> , <b>2015</b> , 54, 7099-105	0.2	6
54	Multiphoton imaging with a novel compact diode-pumped Ti:sapphire oscillator. <i>Microscopy Research and Technique</i> , <b>2015</b> , 78, 1154-8	2.8	6
53	Transmission near-infrared (NIR) and photon time-of-flight (PTOF) spectroscopy in a comparative analysis of pharmaceuticals. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 389-97	3.1	6
52	Broadband Fourier domain mode-locked laser for optical coherence tomography at 1060 nm <b>2012</b> ,		6
51	Calculation of the maximum obtainable probing depth of optical coherence tomography in tissue <b>2000</b> ,		6
50	Strong coupling between coherent gratings due to nonlinear spatial frequency mixing in Bi12SiO20. <i>Optics Communications</i> , <b>1996</b> , 128, 185-192	2	6
49	Polarization properties of a photorefractive Bi/sub 12/SiO/sub 20/ crystal and their application in an optical correlator. <i>IEEE Journal of Quantum Electronics</i> , <b>1994</b> , 30, 1075-1089	2	6
48	2.7 W diffraction-limited yellow lasers by efficient frequency doubling of high-brightness tapered diode lasers. <i>Optics Communications</i> , <b>2019</b> , 435, 145-149	2	6
47	Efficient generation of 3.5 W laser light at 515 nm by frequency doubling a single-frequency high power DBR tapered diode laser. <i>Optics Communications</i> , <b>2017</b> , 392, 167-170	2	5

46	Semiconductor optical amplifier based swept wavelength source at 1060 nm using a scanning FabryPerot filter and an YDFA-based booster amplifier. <i>Optics Communications</i> , <b>2007</b> , 271, 197-202	2	5
45	Assessing blood vessel abnormality via extracting scattering coefficients from OCT images <b>2003</b> , 5140, 12		5
44	Improvement of brightness and output power of high-power laser diodes in the visible spectral region. <i>Optics Communications</i> , <b>2003</b> , 219, 369-375	2	5
43	Extraction of tissue optical properties from optical coherence tomography images for diagnostic purposes (Invited Paper) <b>2005</b> ,		5
42	An external-cavity laser diode at 635 nm for laser display applications. <i>Optics Communications</i> , <b>2005</b> , 245, 333-339	2	5
41	Noise-free holographic storage in iron-doped lithium niobate crystals. <i>Optics Letters</i> , <b>1994</b> , 19, 1583-5	3	5
40	Guided-mode resonance on pedestal and half-buried high-contrast gratings for biosensing applications. <i>Nanophotonics</i> , <b>2021</b> ,	6.3	5
39	True-reflection OCT imaging <b>2002</b> , 4619, 36		4
38	Kinetics of higher-order combinational gratings in photorefractive media: diffusion regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1998</b> , 15, 2032	1.7	4
37	Noncontact detection of laser-induced acoustic waves from buried absorbing objects using a dual-beam common-path interferometer <b>1998</b> , 3254, 307		4
36	Nonlinear grating interactions in multibeam photorefractive recording: theoretical investigation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 414	1.7	4
35	High-power green light generation by second harmonic generation of single-frequency tapered diode lasers <b>2010</b> ,		3
34	Spectral dependence of cross-talk between photorefractive gratings in Bi12SiO20 in diffusion regime. <i>Applied Physics B: Lasers and Optics</i> , <b>1997</b> , 65, 523-526	1.9	3
33	Speckle reduction in optical coherence tomography images of human skin by a spatial diversity method <b>2007</b> , 6627, 128		3
32	Guiding of laser modes based on self-pumped four-wave mixing in a semiconductor amplifier. <i>Optics Express</i> , <b>2005</b> , 13, 3340-7	3.3	3
31	Second-harmonic generation of 405-nm light using periodically poled KTiOPO4 pumped by external-cavity laser diode with double grating feedback. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 80, 861-864	1.9	3
30	Spatial frequency mixing by nonlinear charge transport in photorefractive materials. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	3
29	Optical coherence tomography: new analytical model and the shower curtain effect <b>2000</b> ,		3

28	Modeling the optical coherence tomography geometry using the extended Huygens-Fresnel principle and Monte Carlo simulations <b>2000</b> ,		3
27	Nonlinear cross talk between gratings recorded in BaTiO <sub>3</sub> by mutually incoherent beam pairs. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 5527-5533	2-5	3
26	Efficient quasi-three-level Nd:YAG laser at 946nm pumped by a tunable external cavity tapered diode laser. <i>Optics Communications</i> , <b>2010</b> , 283, 4717-4721	2	2
25	Local diffuse reflectance from three-layered skin tissue structures <b>1997</b> , 2979, 515		2
24	Optical Doppler tomography based on a field programmable gate array. <i>Biomedical Signal Processing and Control</i> , <b>2008</b> , 3, 102-106	4-9	2
23	Multi-photon microscope driven by novel green laser pump <b>2016</b> ,		1
22	Generation of 3.5 W of diffraction-limited green light from SHG of a single tapered diode laser in a cascade of nonlinear crystals <b>2014</b> ,		1
21	High-power FDML laser for swept source-OCT at 1060 nm <b>2010</b> ,		1
20	Frequency-doubled diode laser for direct pumping of Ti:sapphire lasers <b>2012</b> ,		1
19	High-speed polarization-sensitive OCT at 1060 nm using a Fourier domain mode-locked swept source <b>2012</b> ,		1
18	Frequency-swept laser light source at 1050 nm with higher bandwidth due to multiple semiconductor optical amplifiers in series <b>2009</b> ,		1
17	Optical Doppler tomography for monitoring vascularization during photodynamic therapy of skin cancer lesions <b>2008</b> ,		1
16	Generation of more than 300 mW diffraction-limited light at 405 nm by second-harmonic generation of a tapered diode laser with external cavity feedback <b>2007</b> ,		1
15	Quantitative distinction between bound and free NADH in biological systems <b>2004</b> ,		1
14	Analysis of multiple scattering effects in optical Doppler tomography <b>2005</b> ,		1
13	Optical Doppler coherence tomography based on a field-programmable gate array <b>2005</b> , 5690, 263		1
12	Fourier transform infrared spectroscopy of aqueous solutions using optical subtraction <b>2002</b> ,		1
11	Optical Coherence Tomography: Advanced Modeling <b>2004</b> , 594-651		1

- 10 360 optoacoustic capsule endoscopy at 50 Hz for esophageal imaging.. *Photoacoustics*, **2022**, 25, 1003339
- 9 Optical Coherence Tomography: Advanced Modeling **2013**, 743-798
- 8 Special section guest editorial: selected topics in biophotonics: optical coherence tomography and medical imaging using diffuse optics. *Journal of Biomedical Optics*, **2012**, 17, 071301 3.5
- 7 Theory of nonlinear multiple-grating interaction in diffusion-dominated photorefractive media: errata. *Journal of the Optical Society of America B: Optical Physics*, **1997**, 14, 989 1.7
- 6 808 nm tapered diode lasers optimised for high output power and nearly diffraction-limited beam quality in pulse mode operation **2007**, 6456, 88
- 5 Modeling the optical coherence tomography geometry using the extended Huygens-Fresnel principle and Monte Carlo simulations **2003**, 5068, 170
- 4 Photoacoustic imaging of buried objects using an all-optical detection scheme **1999**, 3601, 303
- 3 Fundamental Properties of Nonlinear Combinations of Gratings in Bi<sub>12</sub>SiO<sub>20</sub> and Their Applications. *Journal of Optics (India)*, **1995**, 24, 185-225 1.3
- 2 Modeling Light-Tissue Interaction in Optical Coherence Tomography Systems **2015**, 95-140
- 1 Pedestal High-Contrast Gratings for Biosensing. *Nanomaterials*, **2022**, 12, 1748 5.4