

CITATION REPORT

List of articles citing

Deep tissue two-photon microscopy

DOI: 10.1038/nmeth818

Nature Methods, 2005, 2, 932-40.

Source: <https://exaly.com/paper-pdf/38213499/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2310	High-speed focal modulation microscopy using acousto-optical modulators. 2010 , 1, 1026		
2309	In vivo tomographic imaging of red-shifted fluorescent proteins. 2011 , 2, 887		
2308	Volumetric imaging and quantification of cytoarchitecture and myeloarchitecture with intrinsic scattering contrast. 2013 , 4, 1978		
2307	Volumetric imaging and quantification of cytoarchitecture and myeloarchitecture with intrinsic scattering contrast. 2013 , 4, 1978		
2306	Label-free multi-photon imaging using a compact femtosecond fiber laser mode-locked by carbon nanotube saturable absorber. 2013 , 4, 2187		
2305	Label-free multi-photon imaging using a compact femtosecond fiber laser mode-locked by carbon nanotube saturable absorber. 2013 , 4, 2187		
2304	Label-free multi-photon imaging using a compact femtosecond fiber laser mode-locked by carbon nanotube saturable absorber. 2013 , 4, 2187		
2303	Opposed-view dark-field digital holographic microscopy. 2014 , 5, 728		
2302	Wide field intravital imaging by two-photon-excitation digital-scanned light-sheet microscopy (2p-DSLM) with a high-pulse energy laser. 2014 , 5, 3311		
2301	Wide field intravital imaging by two-photon-excitation digital-scanned light-sheet microscopy (2p-DSLM) with a high-pulse energy laser. 2014 , 5, 3311		
2300	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. 2015 , 6, 277		
2299	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. 2015 , 6, 277		
2298	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. 2015 , 6, 277		
2297	A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. 2015 , 6, 277		
2296	Polarization microscopy for characterizing fiber orientation of ocular tissues. 2015 , 6, 4705		
2295	Fast volumetric imaging with patterned illumination via digital micro-mirror device-based temporal focusing multiphoton microscopy. 2016 , 7, 1727		
2294	Ultra-compact fiber-optic two-photon microscope for functional fluorescence imaging in vivo. 2008 , 16, 5556		

2293 Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. **2008**, 16, 20848

2292 Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. **2008**, 16, 20848

2291 Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. **2008**, 16, 20848

2290 Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. **2008**, 16, 20848

2289 Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. **2008**, 16, 20848

2288 Pulse compression in two-photon excitation fluorescence microscopy. **2010**, 18, 14893

2287 Multi-contrast focal modulation microscopy for in vivo imaging of thick biological tissues. **2012**, 20, 12166

2286 Focusing through dynamic scattering media. **2012**, 20, 15086

2285 In vivo fluorescence microscopy via iterative multi-photon adaptive compensation technique. **2014**, 22, 23786

2284 In vivo fluorescence microscopy via iterative multi-photon adaptive compensation technique. **2014**, 22, 23786

2283 In vivo fluorescence microscopy via iterative multi-photon adaptive compensation technique. **2014**, 22, 23786

2282 In vivo fluorescence microscopy via iterative multi-photon adaptive compensation technique. **2014**, 22, 23786

2281 In vivo neuroimaging through the highly scattering tissue via iterative multi-photon adaptive compensation technique. **2015**, 23, 6145

2280 In vivo neuroimaging through the highly scattering tissue via iterative multi-photon adaptive compensation technique. **2015**, 23, 6145

2279 In vivo volumetric imaging of biological dynamics in deep tissue via wavefront engineering. **2016**, 24, 1214

2278 In vivo volumetric imaging of biological dynamics in deep tissue via wavefront engineering. **2016**, 24, 1214

2277 In vivo volumetric imaging of biological dynamics in deep tissue via wavefront engineering. **2016**, 24, 1214

2276 Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. **2016**, 24, 6283

- 2275 Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. **2016**, 24, 6283
- 2274 Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. **2016**, 24, 6283
- 2273 Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. **2016**, 24, 6283
- 2272 Wide field intravital imaging by two-photon-excitation digital-scanned light-sheet microscopy (2p-DSLM) with a high-pulse energy laser. **2014**, 5, 3311
- 2271 Remote z-scanning with a macroscopic voice coil motor for fast 3D multiphoton laser scanning microscopy. **2016**, 7, 1656
- 2270 Remote z-scanning with a macroscopic voice coil motor for fast 3D multiphoton laser scanning microscopy. **2016**, 7, 1656
- 2269 Fast volumetric imaging with patterned illumination via digital micro-mirror device-based temporal focusing multiphoton microscopy. **2016**, 7, 1727
- 2268 Fast volumetric imaging with patterned illumination via digital micro-mirror device-based temporal focusing multiphoton microscopy. **2016**, 7, 1727
- 2267 Extended depth-of-field microscopic imaging with a variable focus microscope objective. **2011**, 19, 353
- 2266 Focusing and scanning light through a multimode optical fiber using digital phase conjugation. **2012**, 20, 10583
- 2265 In vivo fluorescence microscopy via iterative multi-photon adaptive compensation technique. **2014**, 22, 23786
- 2264 In vivo neuroimaging through the highly scattering tissue via iterative multi-photon adaptive compensation technique. **2015**, 23, 6145
- 2263 In vivo neuroimaging through the highly scattering tissue via iterative multi-photon adaptive compensation technique. **2015**, 23, 6145
- 2262 Dynamic wavefront shaping with an acousto-optic lens for laser scanning microscopy. **2016**, 24, 6283
- 2261 Copper(I) Fluorescent Probes. **2004**, 1-19 2
- 2260 Fluorescence microscopy today. *Nature Methods*, **2005**, 2, 902-4 21.6 214
- 2259 Optical sectioning microscopy. *Nature Methods*, **2005**, 2, 920-31 21.6 528
- 2258 Three-dimensional morphology and gene expression in the *Drosophila* blastoderm at cellular resolution I: data acquisition pipeline. **2006**, 7, R123 100

2257	Reconstruction of firing rate changes across neuronal populations by temporally deconvolved Ca ²⁺ imaging. <i>Nature Methods</i> , 2006 , 3, 377-83	21.6	259
2256	Chemical microscopy applied to biological systems. 2006 , 78, 4005-20		56
2255	Multi-photon excitation microscopy. 2006 , 5, 36		97
2254	Central pathways of pulmonary and lower airway vagal afferents. 2006 , 101, 618-27		330
2253	In situ visualization of paclitaxel distribution and release by coherent anti-Stokes Raman scattering microscopy. 2006 , 78, 8036-43		59
2252	Hybrid reflecting objectives for functional multiphoton microscopy in turbid media. 2006 , 31, 2447-9		15
2251	The fluorescent toolbox for assessing protein location and function. 2006 , 312, 217-24		2320
2250	Two-photon excitation fluorescence microscopy with a high depth of field using an axicon. 2006 , 45, 9246-52		84
2249	Imaging today's infectious animalcules. 2006 , 9, 297-306		23
2248	Principles of two-photon excitation microscopy and its applications to neuroscience. 2006 , 50, 823-39		737
2247	Spatial representation and the architecture of the entorhinal cortex. 2006 , 29, 671-8		357
2246	[Second- and third-harmonic generation microscopies for the structural imaging of intact tissues]. 2006 , 22, 845-50		8
2245	Correction: Corrigendum: Deep tissue two-photon microscopy. <i>Nature Methods</i> , 2006 , 3, 235-235	21.6	12
2244	Two-photon targeted patching (TPTP) in vivo. 2006 , 1, 647-52		55
2243	Targeted bulk-loading of fluorescent indicators for two-photon brain imaging in vivo. 2006 , 1, 380-6		210
2242	Real-time in vivo imaging of transgenic bioluminescent blood stages of rodent malaria parasites in mice. 2006 , 1, 476-85		76
2241	Dynamic imaging of the immune system: progress, pitfalls and promise. 2006 , 6, 497-507		244
2240	In vivo imaging of the diseased nervous system. 2006 , 7, 449-63		152

2239	Imaging of cell migration. 2006 , 25, 3480-93	76
2238	MPScope: a versatile software suite for multiphoton microscopy. 2006 , 156, 351-9	94
2237	Principles of two-photon excitation fluorescence microscopy and other nonlinear imaging approaches. 2006 , 58, 788-808	160
2236	Dendritic spikes and activity-dependent synaptic plasticity. 2006 , 326, 369-77	34
2235	Calcium-sensitive MRI contrast agents based on superparamagnetic iron oxide nanoparticles and calmodulin. 2006 , 103, 14707-12	208
2234	[Two-photon laser scanning fluorescence microscopy for functional cellular imaging: Advantages and challenges or One photon is good... but two is better!]. 2006 , 22, 837-44	2
2233	Overcoming photodamage in second-harmonic generation microscopy: real-time optical recording of neuronal action potentials. 2006 , 103, 3124-9	84
2232	Two-photon imaging of glutathione levels in intact brain indicates enhanced redox buffering in developing neurons and cells at the cerebrospinal fluid and blood-brain interface. 2006 , 281, 17420-17431	69
2231	Fluorescence microscopy--avoiding the pitfalls. 2007 , 120, 1703-5	65
2230	Topological reorganization of odor representations in the olfactory bulb. 2007 , 5, e178	74
2229	The role of noninvasive cellular imaging in developing cell-based therapies for neurodegenerative disorders. 2007 , 4, 306-13	36
2228	In vivo multiphoton nanosurgery on cortical neurons. 2007 , 12, 050502	53
2227	Amoeboid chemotaxis: future challenges and opportunities. 2007 , 1, 165-70	7
2226	Organic cation transport in the rat kidney in vivo visualized by time-resolved two-photon microscopy. 2007 , 72, 422-9	20
2225	Steady-state and time-resolved two-photon fluorescence microscopy: a versatile tool for probing cellular environment and function. 2007 , 76, C115-C121	5
2224	Fluorescence detection system using a metal-coated glass micropipette. 2007 ,	
2223	Spherical aberration correction in nonlinear microscopy and optical ablation using a transparent deformable membrane. 2007 , 91, 191102	22
2222	Endotoxemia increases the clearance of mPEGylated 5000-MW quantum dots as revealed by multiphoton microvascular imaging. 2007 , 12, 064005	9

2221	Structured illumination microscopy using extraordinary transmission through sub-wavelength hole-arrays. 2007 , 1, 011665	10
2220	Age-related structural abnormalities in the human retina-choroid complex revealed by two-photon excited autofluorescence imaging. 2007 , 12, 024012	39
2219	Label-free molecular imaging of atherosclerotic lesions using multimodal nonlinear optical microscopy. 2007 , 12, 054007	124
2218	Two-photon ablation with 1278 nm laser radiation. 2007 , 9, S19-S23	4
2217	Plasmon-resonant nanorods as multimodal agents for two-photon luminescent imaging and photothermal therapy. 2007 ,	1
2216	In vivo imaging of elastic fibers using sulforhodamine B. 2007 , 12, 064017	23
2215	Scattering suppression and confocal detection in multifocal multiphoton microscopy. 2007 , 12, 034010	10
2214	Synaptic connections between layer 5B pyramidal neurons in mouse somatosensory cortex are independent of apical dendrite bundling. 2007 , 27, 11473-82	48
2213	New angles on neuronal dendrites in vivo. 2007 , 98, 3770-9	69
2212	Laser-induced microlesion of single dendrites in living mice. 2007 ,	
2211	Improvement of depth resolution on photoacoustic imaging using multiphoton absorption. 2007 ,	4
2210	In vivo micro-lesion of single dendrite with femtosecond laser pulses. 2007 ,	1
2209	Epi-detected coherent anti-Stokes Raman scattering imaging of deep tissues in vivo. 2007 ,	
2208	Reporter genes for embryogenesis research in livestock species. 2007 , 68 Suppl 1, S116-24	17
2207	Neuronal death: where does the end begin?. 2007 , 30, 159-66	118
2206	Monosynaptic restriction of transsynaptic tracing from single, genetically targeted neurons. 2007 , 53, 639-47	811
2205	Little strokes fill big oaks: a simple in vivo stain of brain cells. 2007 , 53, 771-3	1
2204	In the eye of the beholder: visual experience and categories in the human brain. 2007 , 53, 773-5	6

2203	Axonal motility and its modulation by activity are branch-type specific in the intact adult cerebellum. 2007 , 56, 472-87	69
2202	Adaptive optics for enhanced signal in CARS microscopy. 2007 , 15, 18209-19	84
2201	Confocal light absorption and scattering spectroscopic microscopy. 2007 , 46, 1760-9	41
2200	Integrated semiconductor optical sensors for cellular and neural imaging. 2007 , 46, 1881-9	11
2199	Magnetic and fluorescent nanoparticles for multimodality imaging. 2007 , 2, 307-24	150
2198	In vivo calcium imaging of neural network function. 2007 , 22, 358-65	143
2197	In vivo calcium imaging from genetically specified target cells in mouse cerebellum. 2007 , 34, 859-69	62
2196	4D brain signaling. <i>Nature Methods</i> , 2007 , 4, 19-20	21.6 1
2195	Imaging Cellular and Molecular Biological Functions. 2007 ,	25
2194	Patch-Clamp Analysis. 2007 ,	16
2193	Modern Optical Spectroscopy. 2007 ,	84
2192	Two-photon excited fluorescence of nitrogen-vacancy centers in proton-irradiated type Ib diamond. 2007 , 111, 9379-86	138
2191	Three-dimensional nonlinear optical endoscopy. 2007 , 12, 040501	58
2190	Synthesis and bioconjugation of gold nanoparticles as potential molecular probes for light-based imaging techniques. 2007 , 2007, 29817	85
2189	Laser-based measurements in cell biology. 2007 , 82, 81-109	15
2188	Magnesium ion selective two-photon fluorescent probe based on a benzo[h]chromene derivative for in vivo imaging. 2007 , 72, 2088-96	129
2187	Controlling the cellular uptake of gold nanorods. 2007 , 23, 1596-9	271
2186	Intraparticle Energy Transfer and Fluorescence Photoconversion in Nanoparticles: An Optical Highlighter Nanoprobe for Two-Photon Bioimaging. 2007 , 19, 5650-5656	47

2185	Energy and electron transfer in enhanced two-photon-absorbing systems with triplet cores. 2007 , 111, 6977-90	68
2184	New advances in nanomedicine: diagnosis and preventive medicine. 2007 , 91, 871-9	4
2183	Two-color, two-photon, and excited-state absorption microscopy. 2007 , 12, 054004	105
2182	Second harmonic and sum frequency generation imaging of fibrous astroglial filaments in ex vivo spinal tissues. 2007 , 92, 3251-9	79
2181	Noninvasive assessment of collagen gel microstructure and mechanics using multiphoton microscopy. 2007 , 92, 2212-22	285
2180	The power of single and multibeam two-photon microscopy for high-resolution and high-speed deep tissue and intravital imaging. 2007 , 93, 2519-29	78
2179	Carbon dots for multiphoton bioimaging. 2007 , 129, 11318-9	1752
2178	A compact multiphoton 3D imaging system for recording fast neuronal activity. 2007 , 2, e699	48
2177	Nonlinear Optical Imaging to Evaluate the Impact of Obesity on Mammary Gland and Tumor Stroma. 2007 , 6, 7290.2007.00018	36
2176	Real-time lung microscopy. 2007 , 102, 1255-64	56
2175	Vinyl-pyridinium triphenylamines: novel far-red emitters with high photostability and two-photon absorption properties for staining DNA. 2007 , 8, 424-33	105
2174	Environment-sensitive two-photon probe for intracellular free magnesium ions in live tissue. 2007 , 46, 3460-3	143
2173	A two-photon fluorescent probe for calcium waves in living tissue. 2007 , 46, 7445-8	99
2172	Environment-Sensitive Two-Photon Probe for Intracellular Free Magnesium Ions in Live Tissue. 2007 , 119, 3530-3533	26
2171	A Two-Photon Fluorescent Probe for Calcium Waves in Living Tissue. 2007 , 119, 7589-7592	14
2170	Aggregation-Enhanced Fluorescence in Organically Modified Silica Nanoparticles: A Novel Approach toward High-Signal-Output Nanoprobes for Two-Photon Fluorescence Bioimaging. 2007 , 19, 3791-3795	181
2169	Gold Nanorods Mediate Tumor Cell Death by Compromising Membrane Integrity. 2007 , 19, 3136-3141	491
2168	Observing the invisible: molecular and cellular imaging by multimodal virtual anatomy. 2007 , 71, 538-9	1

2167	Synthesis and Spectral Properties of Amphiphilic Lipids with Linear Conjugated Polyene and Phenylpolyene Fluorescent Groups. 2007 , 2007, 2285-2295		7
2166	Cell-permeant cytoplasmic blue fluorophores optimized for in vivo two-photon microscopy with low-power excitation. 2007 , 70, 880-5		14
2165	Chondrocytes interconnecting tracks and cytoplasmic projections observed within the superficial zone of normal human articular cartilage--a transmission electron microscopy, atomic force microscopy, and two-photon excitation microscopy studies. 2007 , 70, 1072-8		6
2164	Ultramicroscopy: three-dimensional visualization of neuronal networks in the whole mouse brain. <i>Nature Methods</i> , 2007 , 4, 331-6	21.6	855
2163	Imaging cellular network dynamics in three dimensions using fast 3D laser scanning. <i>Nature Methods</i> , 2007 , 4, 73-9	21.6	293
2162	Preparation of iron oxide-based calcium sensors for MRI. 2007 , 2, 2582-9		25
2161	A direct method for measuring mouse capillary cortical blood volume using multiphoton laser scanning microscopy. 2007 , 27, 1072-81		31
2160	Progression of bacterial infections studied in real time--novel perspectives provided by multiphoton microscopy. 2007 , 9, 2334-43		28
2159	In vivo coherent anti-Stokes Raman scattering imaging of sciatic nerve tissue. 2007 , 225, 175-82		108
2158	Fibre-optic nonlinear optical microscopy and endoscopy. 2007 , 226, 195-206		79
2157	Optimization of multiphoton excitation microscopy by total emission detection using a parabolic light reflector. 2007 , 228, 330-7		29
2156	Troponin C-based biosensors: a new family of genetically encoded indicators for in vivo calcium imaging in the nervous system. 2007 , 42, 351-61		60
2155	Acousto-optic modulator system for femtosecond laser pulses. 2007 , 78, 015103		6
2154	Stable in vivo imaging of densely populated glia, axons and blood vessels in the mouse spinal cord using two-photon microscopy. 2008 , 169, 1-7		106
2153	Imaging synaptic inhibition throughout the brain via genetically targeted Clomeleon. 2008 , 36, 101-18		51
2152	Time-domain fluorescence lifetime imaging for intracellular pH sensing in living tissues. 2008 , 391, 1871-9		67
2151	Image filtering for two-photon deep imaging of lymphonodes. 2008 , 37, 979-87		17
2150	In vivo calcium imaging of the aging and diseased brain. 2008 , 35 Suppl 1, S99-106		49

2149	Multidimensional custom-made non-linear microscope: from ex-vivo to in-vivo imaging. 2008 , 92, 359-365	8
2148	Two-photon Luminescence Imaging of Bacillus Spores Using Peptide-functionalized Gold Nanorods. 2008 , 1, 450	31
2147	Quantitative microscopy and systems biology: seeing the whole picture. 2008 , 130, 833-43	35
2146	Dynamic imaging of cancer growth and invasion: a modified skin-fold chamber model. 2008 , 130, 1147-54	200
2145	Using magnetic resonance microscopy to study the growth dynamics of a glioma spheroid in collagen I: A case study. 2008 , 8, 3	14
2144	High-resolution two-photon excitation microscopy of ocular tissues in porcine eye. 2008 , 40, 247-56	24
2143	Two-photon fluorescent probes for biomembrane imaging: effect of chain length. 2008 , 9, 2830-8	30
2142	Two-photon fluorescent probes for long-term imaging of calcium waves in live tissue. 2008 , 14, 2075-83	50
2141	Trends in biological optical microscopy. 2008 , 9, 523-8	3
2140	Ultramicroscopy: 3D reconstruction of large microscopical specimens. 2008 , 1, 36-42	77
2139	Highly versatile confocal microscopy system based on a tunable femtosecond Er: fiber source. 2008 , 1, 53-61	28
2138	A Model for Light-Triggered Porphyrin Anticancer Prodrugs Based on an o-Nitrobenzyl Photolabile Group. 2008 , 2008, 793-796	30
2137	Two-photon fluorescent probes for acidic vesicles in live cells and tissue. 2008 , 47, 2231-4	112
2136	Two-photon fluorescent probes for intracellular free zinc ions in living tissue. 2008 , 47, 5167-70	119
2135	Molecular engineering of photoremovable protecting groups for two-photon uncaging. 2008 , 47, 9525-9	77
2134	Enhanced Two-Photon Absorption of Organic Chromophores: Theoretical and Experimental Assessments. 2008 , 20, 4641-4678	441
2133	Bifunctional Fe ₃ O ₄ @Ag Heterodimer Nanoparticles for Two-Photon Fluorescence Imaging and Magnetic Manipulation. 2008 , 20, 4403-4407	243
2132	Two-Photon Fluorescent Probes for Acidic Vesicles in Live Cells and Tissue. 2008 , 120, 2263-2266	24

2131	Two-Photon Fluorescent Probes for Intracellular Free Zinc Ions in Living Tissue. 2008 , 120, 5245-5248	33
2130	Molecular Engineering of Photoremovable Protecting Groups for Two-Photon Uncaging. 2008 , 120, 9667-9671	25
2129	Two-photon imaging of spatially extended neuronal network dynamics with high temporal resolution. 2008 , 172, 178-84	74
2128	Optical monitoring of neuronal activity at high frame rate with a digital random-access multiphoton (RAMP) microscope. 2008 , 173, 259-70	76
2127	Fluorescent probes for bioimaging applications. 2008 , 12, 515-21	313
2126	Super-resolution microscopy by nanoscale localization of photo-switchable fluorescent probes. 2008 , 12, 505-14	163
2125	Improving Signal Levels in Intravital Multiphoton Microscopy using an Objective Correction Collar. 2008 , 281, 1806-1812	17
2124	Label-free Imaging of Arterial Cells and Extracellular Matrix Using a Multimodal CARS Microscope. 2008 , 281, 1813-1822	102
2123	Non-descanned versus descanned epifluorescence collection in two-photon microscopy: Experiments and Monte Carlo simulations. 2008 , 281, 5480-5486	14
2122	Fluorescence interferometry: principles and applications in biology. 2008 , 1130, 68-77	10
2121	Intravital two-photon microscopy: focus on speed and time resolved imaging modalities. 2008 , 221, 7-25	39
2120	Intravital two-photon microscopy for studying the uptake and trafficking of fluorescently conjugated molecules in live rodents. 2008 , 9, 1801-10	49
2119	Imaging in vivo: watching the brain in action. 2008 , 9, 195-205	298
2118	New views into the brain of mice on the move. <i>Nature Methods</i> , 2008 , 5, 925-6	21.6 2
2117	In vivo imaging of <i>Drosophila melanogaster</i> pupae with mesoscopic fluorescence tomography. <i>Nature Methods</i> , 2008 , 5, 45-7	21.6 85
2116	Targeted patch-clamp recordings and single-cell electroporation of unlabeled neurons in vivo. <i>Nature Methods</i> , 2008 , 5, 61-7	21.6 273
2115	Three-dimensional random access multiphoton microscopy for functional imaging of neuronal activity. 2008 , 11, 713-20	263
2114	Mass production and dynamic imaging of fluorescent nanodiamonds. 2008 , 3, 284-8	625

2113	Microscopic imaging techniques for drug discovery. 2008 , 7, 54-67	99
2112	Decrease in laser ablation threshold for epithelial tissue microsurgery in a living <i>Drosophila</i> embryo during dorsal closure. 2008 , 232, 362-8	9
2111	In Vivo Cell Tracking With Video Rate Multimodality Laser Scanning Microscopy. 2008 , 14, 10-18	94
2110	Multimodal Nonlinear Optical Microscopy and Applications to Central Nervous System Imaging. 2008 , 14, 4-9	45
2109	Reduction of the pulse duration of the ultrafast laser pulses of the Two-Photon Laser Scanning Microscopy (2PLSM). 2008 , 1, 39	1
2108	Reproductive evolution: symptom of a selfing syndrome. 2008 , 18, R1056-8	26
2107	Binocular vision: only half a brain needed. 2008 , 18, R1054-6	1
2106	Cardiovascular imaging using two-photon microscopy. 2008 , 14, 492-506	22
2105	Two-photon absorption properties of alkynyl-conjugated pyrene derivatives. 2008 , 73, 5127-30	96
2104	Chapter 10. In vivo measurements of blood flow and glial cell function with two-photon laser-scanning microscopy. 2008 , 444, 231-54	33
2103	Rapid Prototyping of Hydrogels to Guide Tissue Formation. 2008 , 49-65	
2102	Enhanced background rejection in thick tissue with differential-aberration two-photon microscopy. 2008 , 94, 1449-58	29
2101	In-depth activation of channelrhodopsin 2-sensitized excitable cells with high spatial resolution using two-photon excitation with a near-infrared laser microbeam. 2008 , 95, 3916-26	62
2100	In vivo staining of neocortical astrocytes via the cerebral microcirculation using sulforhodamine B. 2008 , 13, 064028	15
2099	Genetically encoded fluorescent sensors for studying healthy and diseased nervous systems. 2008 , 5, 27-35	10
2098	Genetically encoded calcium indicators. 2008 , 108, 1550-64	233
2097	Molecular Imaging I. 2008 ,	4
2096	Tuned responses of astrocytes and their influence on hemodynamic signals in the visual cortex. 2008 , 320, 1638-43	470

2095	Central Nervous System Diseases and Inflammation. 2008 ,	5
2094	Multimodal nonlinear optical imaging of collagen arrays. 2008 , 164, 140-5	39
2093	In vivo confocal laser laparoscopy allows real time subsurface microscopy in animal models of liver disease. 2008 , 48, 91-7	27
2092	Calcium imaging in the living brain: prospects for molecular medicine. 2008 , 14, 389-99	40
2091	Genetic dissection of neural circuits. 2008 , 57, 634-60	625
2090	The volley theory and the spherical cell puzzle. 2008 , 154, 65-76	67
2089	Ultra-compact fiber-optic two-photon microscope for functional fluorescence imaging in vivo. 2008 , 16, 5556-64	213
2088	Ex vivo and in vivo imaging of myelin fibers in mouse brain by coherent anti-Stokes Raman scattering microscopy. 2008 , 16, 19396-409	133
2087	Multi-photon microscopy with a low-cost and highly efficient Cr:LiCAF laser. 2008 , 16, 20848-63	33
2086	Monitoring tissue engineering using magnetic resonance imaging. 2008 , 106, 515-27	91
2085	Dynamic analyses of Drosophila gastrulation provide insights into collective cell migration. 2008 , 322, 1546-50	127
2084	Multiphoton absorbing materials: molecular designs, characterizations, and applications. 2008 , 108, 1245-330	1683
2083	Multiphoton imaging can be used for microscopic examination of intact human gastrointestinal mucosa ex vivo. 2008 , 6, 95-101	91
2082	Cartilage tissue engineering and multimodality in two-photon microscopy. 2008 ,	1
2081	Two-photon fluorescent turn-on probe for lipid rafts in live cell and tissue. 2008 , 130, 4246-7	112
2080	Neurobiology with caged calcium. 2008 , 108, 1603-13	114
2079	Luteinizing hormone causes MAP kinase-dependent phosphorylation and closure of connexin 43 gap junctions in mouse ovarian follicles: one of two paths to meiotic resumption. 2008 , 135, 3229-38	173
2078	Three-dimensional Chemical Patterning of Transparent Hydrogels. 2008 , 20, 55-60	133

2077	Multi-photon excitation imaging of dynamic processes in living cells and tissues. 2008 , 160, 71-92	45
2076	Reviews of Physiology Biochemistry and Pharmacology. 2008 ,	
2075	Functional studies in living animals using multiphoton microscopy. 2008 , 49, 66-77	30
2074	Albumin therapy improves local vascular dynamics in a rat model of primary microvascular thrombosis: a two-photon laser-scanning microscopy study. 2008 , 39, 198-204	58
2073	Targeted optical probing of neuronal circuit dynamics using fluorescent protein sensors. 2008 , 16, 289-99	11
2072	Resorcinarene-Encapsulated Gold Nanorods: Solvatochromatism and Magnetic Nanoshell Formation. 2008 , 20, 35-40	20
2071	Performance of the red-shifted fluorescent proteins in deep-tissue molecular imaging applications. 2008 , 13, 044008	89
2070	Seeing the brain in action: how multiphoton imaging has advanced our understanding of neuronal function. 2008 , 14, 482-91	6
2069	Quantitative two-photon flow cytometry--in vitro and in vivo. 2008 , 13, 034008	25
2068	Modified robust anisotropic diffusion denoising technique with regularized Richardson-Lucy deconvolution for two-photon microscopic images. 2008 , 47, 047004	2
2067	Design and implementation of a sensitive high-resolution nonlinear spectral imaging microscope. 2008 , 13, 044019	11
2066	Multiscale structural analysis of mouse lingual myoarchitecture employing diffusion spectrum magnetic resonance imaging and multiphoton microscopy. 2008 , 13, 064005	14
2065	Experimental induction and three-dimensional two-photon imaging of conjunctiva-associated lymphoid tissue. 2008 , 49, 1512-7	31
2064	Fast fluorescence microscopy for imaging the dynamics of embryonic development. 2008 , 2, 143-55	60
2063	Age- and gender-specific reference values of estimated glomerular filtration rate in a Caucasian population: Results of the Nijmegen Biomedical Study. 2008 , 73, 657-8	24
2062	Multimodality Nonlinear Optical Imaging. 2008 ,	
2061	Chapter 5: Imaging in depth: controversies and opportunities. 2008 , 89, 95-128	9
2060	Chapter 11. Intravital microscopic investigation of leukocyte interactions with the blood vessel wall. 2008 , 445, 255-79	12

2059	Molecular second harmonic generation induced at a metallic tip. 2008 , 104, 103113	5
2058	A method for chronological intravital imaging of bovine oocytes during in vitro maturation. 2008 , 14, 549-60	3
2057	Imaging elastic and collagen fibers with sulforhodamine B and second-harmonic generation. 2008 ,	1
2056	Fluorescence imaging techniques for studying Drosophila embryo development. 2008 , Chapter 4, Unit 4.18	34
2055	Confocal microscopy versus two-photon microscopy: imaging of ocular surface pathologies. 2008 ,	
2054	Optoelectronic monitoring of neural activity. 2008 ,	
2053	Response to Critical issues related to real-time fluorescence imaging of renal tissues using confocal microscopy 2008 , 73, 656-657	
2052	In vivo multi-photon nanosurgery on cortical neurons: focusing on network organization. 2008 ,	
2051	Internalization of fluorescent dextrans in the submandibular salivary glands of live animals: a study combining intravital two-photon microscopy and second harmonic generation. 2008 ,	3
2050	Optimizing Imaging of Three-Dimensional Multicellular Tumor Spheroids with Fluorescent Reporter Proteins Using Confocal Microscopy. 2008 , 7, 7290.2008.00023	21
2049	Three-dimensional mapping of unitary synaptic connections by two-photon macro photolysis of caged glutamate. 2008 , 99, 1535-44	50
2048	Background Reduction with Two-Color Two-Beam Multiphoton Excitation. 2008 ,	3
2047	Optische Messung neuronaler Netzwerkdynamik in 3D. 2008 , 14, 184-189	
2046	Examination of fly motion vision by functional fluorescence techniques. 2008 , 13, 3009-21	3
2045	Exploration of fluorescent protein voltage probes based on circularly permuted fluorescent proteins. 2009 , 2, 14	55
2044	Two-Photon Imaging. 2009 , 1221-1229	1
2043	What's next for 'just having a look'?. 2009 , 11, S25-S26	0
2042	Technology development for deep tissue multiphoton imaging. 2009 ,	

2041	Functional tomographic fluorescence imaging of pH microenvironments in microbial biofilms by use of silica nanoparticle sensors. 2009 , 75, 7426-35	99
2040	In vivo voltage-sensitive dye imaging in adult mice reveals that somatosensory maps lost to stroke are replaced over weeks by new structural and functional circuits with prolonged modes of activation within both the peri-infarct zone and distant sites. 2009 , 29, 1719-34	222
2039	Microprisms for in vivo multilayer cortical imaging. 2009 , 102, 1310-4	62
2038	Two-photon absorbing nanocrystal sensors for ratiometric detection of oxygen. 2009 , 131, 12994-3001	101
2037	Photodynamic effects of steroid-conjugated fluorophores on GABAA receptors. 2009 , 76, 754-65	3
2036	Comparison of two-photon imaging depths with 775 nm excitation and 1300 nm excitation. 2009 ,	
2035	Confocal reflectance and two-photon microscopy studies of a songbird skull for preparation of transcranial imaging. 2009 , 14, 034038	3
2034	Dendritic cells: therapy and imaging. 2009 , 9, 539-64	19
2033	Wound healing responses at the gastrointestinal epithelium: a close look at novel regulatory factors and investigative approaches. 2009 , 47, 1221-9	31
2032	Phase-stable single-pass cryogenic amplifier for high repetition rate few-cycle laser pulses. 2009 , 11, 083029	14
2031	Quantitative analysis by in vivo imaging of the dynamics of vascular and axonal networks in injured mouse spinal cord. 2009 , 106, 9459-64	126
2030	Glomerular sieving coefficient of serum albumin in the rat: a two-photon microscopy study. 2009 , 296, F1258-65	66
2029	Bipolar cellular morphology of malignant melanoma in unstained human melanoma skin tissue. 2009 , 14, 024042	2
2028	Action potential detection by non-linear microscopy. 2009 ,	
2027	Tissue imaging of myocardial infarct regions by a slit-scanning Raman microscope. 2009 ,	5
2026	Theoretical simulation study of linearly polarized light on microscopic second-harmonic generation in collagen type I. 2009 , 14, 044016	15
2025	Two-photon imaging using adaptive phase compensated ultrashort laser pulses. 2009 , 14, 014002	43
2024	Comparison of Cornea Module and DermaInspect for noninvasive imaging of ocular surface pathologies. 2009 , 14, 064040	20

2023	Imaging and quantitative analysis of atherosclerotic lesions by CARS-based multimodal nonlinear optical microscopy. 2009 , 29, 1342-8	83
2022	Wide-field and two-photon imaging of brain activity with voltage- and calcium-sensitive dyes. 2009 , 364, 2453-67	56
2021	Functional transcranial brain imaging by optical-resolution photoacoustic microscopy. 2009 , 14, 040503	118
2020	Shining new light on 3D cell motility and the metastatic process. 2009 , 19, 638-48	48
2019	Nonlinear Ultrafast Focal-Point Optics for Microscopic Imaging, Manipulation, and Machining. 2009 , 97, 1011-1030	11
2018	Optical probing of neuronal ensemble activity. 2009 , 19, 520-9	110
2017	Zweiphotonenabsorption und das Design von Zweiphotonenfarbstoffen. 2009 , 121, 3292-3316	238
2016	Imaging glioma cell invasion in vivo reveals mechanisms of dissemination and peritumoral angiogenesis. 2009 , 57, 1306-15	160
2015	Probing events with single molecule sensitivity in zebrafish and Drosophila embryos by fluorescence correlation spectroscopy. 2009 , 238, 3156-67	34
2014	Morphometric characterization of murine articular cartilage--novel application of confocal laser scanning microscopy. 2009 , 72, 650-8	12
2013	A Two-Photon Tracer for Glucose Uptake. 2009 , 121, 8171-8175	11
2012	Two-photon absorption and the design of two-photon dyes. 2009 , 48, 3244-66	1443
2011	A two-photon tracer for glucose uptake. 2009 , 48, 8027-31	45
2010	Tracing and ablation of single cells in the mammalian blastocyst using fluorescent DNA staining and multi-photon laser microscopy. 2009 , 131, 521-30	7
2009	Techniques to study nephron function: microscopy and imaging. 2009 , 458, 203-9	9
2008	Glycinergic interneurons are functionally integrated into the inspiratory network of mouse medullary slices. 2009 , 458, 459-69	81
2007	Removal of out-of-plane fluorescence for single cell visualization and quantification in cryo-imaging. 2009 , 37, 1613-28	24
2006	Intravital imaging of CD8+ T cell function in cancer. 2009 , 26, 311-27	23

2005	Multiphoton microscopy and fluorescence lifetime imaging microscopy (FLIM) to monitor metastasis and the tumor microenvironment. 2009 , 26, 357-70	151
2004	Two-color two-photon fluorescence laser scanning microscopy. 2009 , 19, 1037-43	25
2003	Short-term effects of synchrotron irradiation on vasculature and tissue in healthy mouse brain. 2009 , 16, 477-83	6
2002	Preparation of wholemount mouse intestine for high-resolution three-dimensional imaging using two-photon microscopy. 2009 , 234, 196-204	36
2001	High second harmonic generation signal from muscles and fascia pig's muscles using the two-photon laser scanning microscope. 2009 , 234, 280-6	3
2000	Improved in vivo two-photon imaging after blood replacement by perfluorocarbon. 2009 , 587, 3153-8	29
1999	Multispectral opto-acoustic tomography of deep-seated fluorescent proteins in vivo. 2009 , 3, 412-417	492
1998	Effects of absorption saturation in colloidal quantum dots as fluorophores for multiphoton fluorescence microscopy. 2009 , 107, 839-845	
1997	Experience-dependent structural synaptic plasticity in the mammalian brain. 2009 , 10, 647-58	1294
1996	Fluorescence lifetime imaging of interactions between Golgi tethering factors and small GTPases in plants. 2009 , 10, 1034-46	44
1995	Communication between neurons and astrocytes: relevance to the modulation of synaptic and network activity. 2009 , 108, 533-44	175
1994	Second harmonic generation from thick leaves using the two-photon laser scanning microscope. 2009 , 40, 455-62	12
1993	Two-color two-photon excitation of indole using a femtosecond laser regenerative amplifier. 2009 , 282, 1056-1061	4
1992	Second harmonic imaging of chloroplasts using the two-photon laser scanning microscope. 2009 , 40, 378-85	13
1991	Rapid, reproducible transduction of select forebrain regions by targeted recombinant virus injection into the neonatal mouse brain. 2009 , 182, 55-63	49
1990	Two-photon autofluorescence dynamics imaging reveals sensitivity of intracellular NADH concentration and conformation to cell physiology at the single-cell level. 2009 , 95, 46-57	195
1989	Plasma-mediated ablation: an optical tool for submicrometer surgery on neuronal and vascular systems. 2009 , 20, 90-9	60
1988	Infrared multiphoton microscopy: subcellular-resolved deep tissue imaging. 2009 , 20, 54-62	143

1987	Multiphoton imaging of host-pathogen interactions. 2009 , 4, 804-11	8
1986	Biomolecule labeling and imaging with a new fluorenyl two-photon fluorescent probe. 2009 , 20, 1992-2000	34
1985	Effect of cage charges on multiphoton absorptions: first-principles study on metallofullerenes Sc(2)C(2)@C(68) and Sc(3)N@C(68). 2009 , 113, 5966-71	5
1984	Super-resolution laser scanning microscopy through spatiotemporal modulation. 2009 , 9, 3883-9	56
1983	Two-photon excited fluorescent probes for calcium based on internal charge transfer. 2009 , 3883-5	44
1982	Boron containing two-photon absorbing chromophores. 2. Fine tuning of the one- and two-photon photophysical properties of pyrazabole based fluorescent bioprobes. 2009 , 48, 9112-9	35
1981	Selective plane illumination microscopy techniques in developmental biology. 2009 , 136, 1963-75	393
1980	Imaging cell signalling and movement in development. 2009 , 20, 947-55	8
1979	Real-time live imaging to study bacterial infections in vivo. 2009 , 12, 31-6	18
1978	Reduction of self-phase modulation in double-clad photonic crystal fiber for nonlinear optical endoscopy. 2009 , 34, 148-50	14
1977	Rotational multiphoton endoscopy with a 1 microm fiber laser system. 2009 , 34, 2249-51	28
1976	Tailoring the soliton output of a photonic crystal fiber for enhanced two-photon excited luminescence response from fluorescent protein biomarkers and neuron activity reporters. 2009 , 34, 3373-5	39
1975	Enhanced fluorescence signal in nonlinear microscopy through supplementary fiber-optic light collection. 2009 , 17, 6421-35	37
1974	Deep tissue multiphoton microscopy using longer wavelength excitation. 2009 , 17, 13354-64	391
1973	Two-photon excitation STED microscopy. 2009 , 17, 14567-73	166
1972	Quantitative myelin imaging with coherent anti-Stokes Raman scattering microscopy: alleviating the excitation polarization dependence with circularly polarized laser beams. 2009 , 17, 18419-32	51
1971	Multispectral optoacoustic tomography (MSOT) scanner for whole-body small animal imaging. 2009 , 17, 21414-26	133
1970	Advances in light microscopy for neuroscience. 2009 , 32, 435-506	217

1969	Tomographic imaging of macroscopic biomedical objects in high resolution and three dimensions using orthogonal-plane fluorescence optical sectioning. 2009 , 48, 941-8	23
1968	Enhancement of guided-wave two-photon-excited luminescence response with a photonic-crystal fiber. 2009 , 48, 5274-9	4
1967	Ultramicroscopy reveals axonal transport impairments in cortical motor neurons at prion disease. 2009 , 96, 3390-8	20
1966	Imaging zebrafish embryos by two-photon excitation time-lapse microscopy. 2009 , 546, 273-87	17
1965	Microtome-free 3-dimensional confocal imaging method for visualization of mouse intestine with subcellular-level resolution. 2009 , 137, 453-65	60
1964	Two-photon materials with large two-photon cross sections. Structure-property relationship. 2009 , 153-64	82
1963	Quantitative morphometric measurements using site selective image cytometry of intact tissue. 2009 , 6 Suppl 1, S45-57	7
1962	Zebrafish. 2009 ,	3
1961	Invited review article: Imaging techniques for harmonic and multiphoton absorption fluorescence microscopy. 2009 , 80, 081101	122
1960	Peripheral nerve: what's new in basic science laboratories. 2009 , 20, 121-31, viii	8
1959	Multispot point spread function for multiphoton fluorescence microscopy. 2009 , 80, 096104	7
1958	Microscopic imaging of DNA repair foci in irradiated normal tissues. 2009 , 85, 732-46	45
1957	Two-photon probes for intracellular free metal ions, acidic vesicles, and lipid rafts in live tissues. 2009 , 42, 863-72	510
1956	Animal Models of Acute Neurological Injuries. 2009 ,	7
1955	Integration of optical clearing and optical sectioning microscopy for three-dimensional imaging of natural biomaterial scaffolds in thin sections. 2009 , 14, 044004	16
1954	Quantitative assessment of hepatic fat of intact liver tissues with coherent anti-stokes Raman scattering microscopy. 2009 , 81, 1496-504	45
1953	Live-cell microscopy - tips and tools. 2009 , 122, 753-67	220
1952	A two-photon fluorescent probe for near-membrane calcium ions in live cells and tissues. 2009 , 5365-7	34

1951	Photochemical tools to study dynamic biological processes. 2009 , 3, 255-64	61
1950	Use of human tissue explants to study human infectious agents. 2009 , 4, 256-69	122
1949	Multiphoton imaging of renal regulatory mechanisms. 2009 , 24, 88-96	41
1948	Improved push-pull-push E-Bodipy fluorophores for two-photon cell-imaging. 2009 , 7, 3639-42	94
1947	Two-photon absorption properties of hexa-substituted benzene derivatives. Comparison between dipolar and octupolar molecules. 2009 , 7422-4	35
1946	Wide-field and two-photon imaging of brain activity with voltage- and calcium-sensitive dyes. 2009 , 489, 43-79	39
1945	Inflammation on the mind: visualizing immunity in the central nervous system. 2009 , 334, 227-63	13
1944	Current application and technology of functional multineuron calcium imaging. 2009 , 32, 1-9	8
1943	In Vivo Two-Photon Laser Scanning Microscopy with Concurrent Plasma-Mediated Ablation Principles and Hardware Realization. 2009 , 59-115	18
1942	Factors affecting ultimate imaging depth of two-photon fluorescence microscopy in scattering medium. 2009 ,	
1941	Tomographic Microscopy. 17-140	
1940	Two-Photon Functional Imaging of Neuronal Activity. 2009 , 37-58	8
1939	References. 471-548	
1938	MULTIPHOTON MICROSCOPY: A NEW APPROACH, IN PHYSIOLOGICAL STUDIES AND PATHOLOGICAL DIAGNOSIS FOR OPHTHALMOLOGY. 2009 , 02, 45-60	3
1937	Non-Linear Optical Imaging of Obesity-Related Health Risks: Review. 2009 , 2, 9-25	3
1936	Topology, dynamics, and control in cortical blood flow elucidated with optical techniques. 2009 ,	
1935	Fiber-based multiphoton system. 2010 ,	
1934	Two-photon microscopy of living cells by simultaneously exciting multiple endogenous fluorophores and fluorescent proteins. 2010 ,	

1933	Two-photon microscopy with dynamic focusing objective using a liquid lens. 2010,	6
1932	Characterizing deep optical-sectioning microscopy performance with scattering phantoms and numerical simulations. 2010,	
1931	Shaping light: MOEMS deformable mirrors for microscopes and telescopes. 2010,	1
1930	Brain plasticity and functionality explored by nonlinear optical microscopy. 2010,	
1929	Blind FROG Pulse Characterization for Quantitative Differential Multiphoton Microscopy. 2010,	
1928	Molecular imaging by means of multispectral optoacoustic tomography (MSOT). 2010, 110, 2783-94	537
1927	Optical recording of neuronal activity with a genetically-encoded calcium indicator in anesthetized and freely moving mice. 2010, 4, 9	123
1926	Overview of confocal microscopy. 2010, 588, 187-201	2
1925	Nanodiamonds for optical bioimaging. 2010, 43, 374021	108
1924	Imaging and photodynamic therapy: mechanisms, monitoring, and optimization. 2010, 110, 2795-838	1670
1923	Fullerene-conjugated doxorubicin in cells. 2010, 2, 1384-9	71
1922	Neural activity in barrel cortex underlying vibrissa-based object localization in mice. 2010, 67, 1048-61	341
1921	Two-photon microscopy in pulmonary research. 2010, 32, 297-304	19
1920	Imaging methods for elemental, chemical, molecular, and morphological analyses of single cells. 2010, 397, 2051-65	55
1919	Functional multineuron calcium imaging for systems pharmacology. 2010, 398, 211-8	12
1918	Development of a confocal and two-photon endomicroscope [Preliminary results of qualitative evaluation. 2010, 25, 166-172	2
1917	Intravital microscopy: a novel tool to study cell biology in living animals. 2010, 133, 481-91	89
1916	Intravital imaging of DSS-induced cecal mucosal damage in GFP-transgenic mice using two-photon microscopy. 2010, 45, 544-53	44

1915	Recent developments in the understanding of astrocyte function in the cerebellum in vivo. 2010 , 9, 264-71	35
1914	Characterization of excitation beam on second-harmonic generation in fibrillous type I collagen. 2010 , 36, 365-83	4
1913	Multiphoton Microscopy of Live Tissues With Ultraviolet Autofluorescence. 2010 , 16, 516-523	22
1912	Nonlinear Optical Microscopy and Spectroscopy Employing Octave Spanning Pulses. 2010 , 16, 767-780	14
1911	Integrated Optical Coherence Tomography (OCT) and Fluorescence Laminar Optical Tomography (FLOT). 2010 , 16, 755-766	34
1910	Morphology and dynamics of perisynaptic glia. 2010 , 63, 11-25	175
1909	Scanning fiber endoscopy with highly flexible, 1 mm catheterscopes for wide-field, full-color imaging. 2010 , 3, 385-407	189
1908	Optimizing stem cell culture. 2010 , 111, 801-7	51
1907	Dynamic Imaging Technologies to Explore Infectious Processes at the Cellular, Tissue and Organ Level. 251-277	
1906	In Vivo Nanosurgery. 2010 , 35-48	
1905	Interaction of Pulsed Light with Molecules: Photochemical and Photophysical Effects. 2010 , 49-69	
1904	A trimethoprim-based chemical tag for live cell two-photon imaging. 2010 , 11, 782-4	18
1903	A triphenylphosphonium-functionalised cyclometalated platinum(II) complex as a nucleolus-specific two-photon molecular dye. 2010 , 16, 3942-50	59
1902	Sodium-Ion-Selective Two-Photon Fluorescent Probe for In Vivo Imaging. 2010 , 122, 374-377	20
1901	Dual-Color Imaging of Sodium/Calcium Ion Activities with Two-Photon Fluorescent Probes. 2010 , 122, 6938-6941	15
1900	Sodium-ion-selective two-photon fluorescent probe for in vivo imaging. 2010 , 49, 364-7	95
1899	Dual-color imaging of sodium/calcium ion activities with two-photon fluorescent probes. 2010 , 49, 6786-9	59
1898	Light-responsive biomaterials: development and applications. 2010 , 10, 339-48	187

1897	Three-dimensional superresolution in two-color excitation fluorescence microscopy using theta illumination method. 2010 , 121, 726-731		1
1896	Imaging mobile zinc in biology. 2010 , 14, 225-30		192
1895	Software controlling algorithms for the system performance optimization of confocal laser scanning microscope. 2010 , 5, 223-228		6
1894	Multifunctional Nanocarriers for diagnostics, drug delivery and targeted treatment across blood-brain barrier: perspectives on tracking and neuroimaging. 2010 , 7, 3		310
1893	Near infrared imaging with nanoparticles. 2010 , 2, 461-77		118
1892	Role of endoreduplication and apomeiosis during parthenogenetic reproduction in the model brown alga <i>Ectocarpus</i> . 2010 , 188, 111-21		40
1891	Two-photon microscopy of deep intravital tissues and its merits in clinical research. 2010 , 238, 1-20		151
1890	Subwavelength confinement of electromagnetic field by guided modes of dielectric micro- and nanowaveguides. 2010 , 91, 378-381		3
1889	Real-time imaging reveals the single steps of brain metastasis formation. 2010 , 16, 116-22		781
1888	Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010 , 7, S26-41	21.6	189
1887	Going deeper than microscopy: the optical imaging frontier in biology. <i>Nature Methods</i> , 2010 , 7, 603-14	21.6	1177
1886	Generation of molecular hot electroluminescence by resonant nanocavity plasmons. 2010 , 4, 50-54		228
1885	Nonlinear optical microscopy. 9-34		1
1884	Nonlinear optical endoscopy. 86-115		
1883	Two-photon Fluorescence Endomicroscopy. 2010 ,		0
1882	Representation of thermal information in the antennal lobe of leaf-cutting ants. 2010 , 4, 174		15
1881	Multi-photon nanosurgery in live brain. 2010 , 2,		33
1880	Two-photon microscopy for non-invasive, quantitative monitoring of stem cell differentiation. 2010 , 5, e10075		115

1879	Two-photon imaging of calcium in virally transfected striate cortical neurons of behaving monkey. 2010 , 5, e13829	42
1878	Clomeleon, a Genetically Encoded Chloride Indicator. 2010 , 125-139	4
1877	[Dendritic organization and functional characteristics of visually evoked inputs to cortical neurons in vivo]. 2010 , 26, 1009-12	0
1876	Optimisation of fluorescent DNA labels for two-photon microscopy. 2010 ,	
1875	Wavefront optimized nonlinear microscopy of ex vivo human retinas. 2010 , 15, 026007	30
1874	In vivo deep tissue imaging with long wavelength multiphoton excitation. 2010 ,	1
1873	T-Cell Trafficking. 2010 ,	
1872	Action-potential-encoded second-harmonic generation as an ultrafast local probe for noninvasive membrane diagnostics. 2010 , 81, 031926	7
1871	Ionization penalty in nonlinear optical bioimaging. 2010 , 81, 051918	23
1870	Engineering three-dimensional collagen matrices to provide contact guidance during 3D cell migration. 2010 , Chapter 10, Unit 10.17	26
1869	Spatiotemporal dynamics of rhythmic spinal interneurons measured with two-photon calcium imaging and coherence analysis. 2010 , 104, 3323-33	18
1868	Purkinje cell 3D reconstruction and visualization system. 2010 ,	
1867	Video force microscopy reveals the mechanics of ventral furrow invagination in Drosophila. 2010 , 107, 22111-6	116
1866	Two-photon fluorescence microscopy of cerebral hemodynamics. 2010 , 2010, pdb.prot5494	11
1865	Identifying patients at high risk of a cardiovascular event in the near future: current status and future directions: report of a national heart, lung, and blood institute working group. 2010 , 121, 1447-54	63
1864	In vivo molecular imaging of somatostatin receptors in pancreatic islet cells and neuroendocrine tumors by miniaturized confocal laser-scanning fluorescence microscopy. 2010 , 151, 2179-88	24
1863	Neurogenesis. 2010 , 100, 73-126	14
1862	Forty-five degree backscattering-mode nonlinear absorption imaging in turbid media. 2010 , 15, 026004	3

1861	Multicolor photoacoustic imaging by a single transducer with piezoelectric copolymer film in a wide frequency range. 2010 ,	
1860	Continuous acquisition scanner for whole-body multispectral optoacoustic tomography. 2010 ,	
1859	Facilitated noninvasive visualization of collagen and elastin in blood vessels. 2010 , 16, 705-10	16
1858	Confocal and multiphoton imaging of intracellular Ca(2+). 2010 , 99, 225-61	4
1857	Implantable Image Sensor with Light Guide Array Plate for Bioimaging. 2010 , 49, 04DL03	9
1856	[Towards a dynamic anatomopathology of glioblastoma in mice thanks to in vivo biphotonic microscopy]. 2010 , 30, 53-5	1
1855	Two-photon lithography in the future of cell-based therapeutics and regenerative medicine: a review of techniques for hydrogel patterning and controlled release. 2010 , 2, 1669-80	34
1854	Effects of multibranching on 3-hydroxyflavone-based chromophores and the excited-state intramolecular proton transfer dynamics. 2010 , 114, 10412-20	37
1853	Ca ²⁺ Imaging of Dendrites and Spines. 2010 , 189-203	
1852	Expanding two-photon intravital microscopy to the infrared by means of optical parametric oscillator. 2010 , 98, 715-23	78
1851	Conjugated polymer nanoparticles. 2010 , 2, 484-94	331
1850	Watching synaptogenesis in the adult brain. 2010 , 33, 131-49	72
1849	Reduction of neurovascular damage resulting from microelectrode insertion into the cerebral cortex using in vivo two-photon mapping. 2010 , 7, 046011	115
1848	Analysis of Branchiomotor Neuron Migration in the Zebrafish. 2010 , 1-16	
1847	Light Microscopy Imaging Facilities. 2010 ,	1
1846	Two-photon fluorescence excitation spectroscopy by pulse shaping ultrabroad-bandwidth femtosecond laser pulses. 2010 , 49, 6348-53	12
1845	Determination of temporal and spatial concentration gradients in hydrogel beads using multiphoton microscopy techniques. 2010 , 64, 720-6	6
1844	Differentiating atherosclerotic plaque burden in arterial tissues using femtosecond CARS-based multimodal nonlinear optical imaging. 2010 , 1, 59-73	21

1843	Influence of laser parameters and staining on femtosecond laser-based intracellular nanosurgery. 2010 , 1, 587-597	28
1842	High-speed focal modulation microscopy using acousto-optical modulators. 2010 , 1, 1026-1037	14
1841	Two-photon fluorescence correlation spectroscopy with high count rates and low background using dielectric microspheres. 2010 , 1, 1075-1083	13
1840	Digital phase conjugation of second harmonic radiation emitted by nanoparticles in turbid media. 2010 , 18, 12283-90	116
1839	Optimizing the fluorescent yield in two-photon laser scanning microscopy with dispersion compensation. 2010 , 18, 13661-72	24
1838	A compact Acousto-Optic Lens for 2D and 3D femtosecond based 2-photon microscopy. 2010 , 18, 13721-45	102
1837	Pulse compression in two-photon excitation fluorescence microscopy. 2010 , 18, 14893-904	7
1836	Photonic crystal enhanced fluorescence using a quartz substrate to reduce limits of detection. 2010 , 18, 24793-808	64
1835	Two-photon spectral imaging with high temporal and spectral resolution. 2010 , 18, 26905-14	7
1834	Nonlinear endomicroscopy using a double-clad fiber coupler. 2010 , 35, 995-7	18
1833	Scattered light fluorescence microscopy: imaging through turbid layers. 2010 , 35, 1245-7	175
1832	Miniaturized selective plane illumination microscopy for high-contrast in vivo fluorescence imaging. 2010 , 35, 1413-5	35
1831	Blind frequency-resolved optical-gating pulse characterization for quantitative differential multiphoton microscopy. 2010 , 35, 3369-71	3
1830	In vivo non-linear optical (NLO) imaging in live rabbit eyes using the Heidelberg Two-Photon Laser Ophthalmoscope. 2010 , 91, 308-14	12
1829	Detection of endogenous and immuno-bound peroxidase--the status quo in histochemistry. 2010 , 45, 81-139	19
1828	A two-photon excited luminescence of water-soluble rhodamine-platinum(II) complex: fluorescent probe specific for Hg ²⁺ detection in live cell. 2010 , 83, 658-62	69
1827	Developing in vivo biophysics by fishing for single molecules. 2010 , 347, 1-8	6
1826	Nanomedicine in ophthalmology: the new frontier. 2010 , 150, 144-162.e2	61

1825	Imaging and analysis of three-dimensional cell culture models. 2010 , 591, 211-27	55
1824	Fluorescence microscopy: a concise guide to current imaging methods. 2010 , Chapter 2, Unit2.1	52
1823	Vibrational analysis of amino acids and short peptides in hydrated media. VIII. Amino acids with aromatic side chains: L-phenylalanine, L-tyrosine, and L-tryptophan. 2010 , 114, 15319-30	89
1822	In vitro and in vivo magnetic resonance imaging (MRI) detection of GFP through magnetization transfer contrast (MTC). 2010 , 50, 375-82	9
1821	Vascular labeling of luminescent gold nanorods enables 3-D microscopy of mouse intestinal capillaries. 2010 , 4, 6278-84	21
1820	Strategies for high-resolution imaging of epithelial ovarian cancer by laparoscopic nonlinear microscopy. 2010 , 3, 181-94	72
1819	Live Cell Imaging. 2010 ,	10
1818	Optical imaging modalities for biomedical applications. 2010 , 3, 69-92	59
1817	Detection of mercury in fish organs with a two-photon fluorescent probe. 2010 , 46, 2388-90	64
1816	Two-photon absorption properties of cationic 1,4-bis(styryl)benzene derivative and its inclusion complexes with cyclodextrins. 2010 , 114, 9684-90	10
1815	Cell lineage reconstruction of early zebrafish embryos using label-free nonlinear microscopy. 2010 , 329, 967-71	271
1814	Intracellular coenzymes as natural biomarkers for metabolic activities and mitochondrial anomalies. 2010 , 4, 241-63	273
1813	Two-photon excited fluorescent chemosensor for homogeneous determination of copper(II) in aqueous media and complicated biological matrix. 2011 , 136, 2139-45	25
1812	A copper(I)-ion selective two-photon fluorescent probe for in vivo imaging. 2011 , 47, 7146-8	47
1811	Two-photon LysoTrackers for in vivo imaging. 2011 , 76, 8113-6	40
1810	Optical imaging in tissue with X-ray excited luminescent sensors. 2011 , 136, 3438-45	29
1809	Integrin-targeting block copolymer probes for two-photon fluorescence bioimaging. 2011 , 12, 441-9	27
1808	Two-photon optical properties of near-infrared dyes at 1.55 μm excitation. 2011 , 115, 11530-5	36

1807	Boron-containing two-photon-absorbing chromophores. 3. One- and two-photon photophysical properties of p-carborane-containing fluorescent bioprobes. 2011 , 50, 4272-8	34
1806	Two-Photon Upconversion Laser (Scanning and Wide-Field) Microscopy Using Ln ³⁺ -Doped NaYF ₄ Upconverting Nanocrystals: A Critical Evaluation of their Performance and Potential in Bioimaging. 2011 , 115, 19054-19064	134
1805	One- and two-photon live cell imaging using a mutant SNAP-Tag protein and its FRET substrate pairs. 2011 , 13, 4160-3	38
1804	A two-photon fluorescent probe for ratiometric imaging of hydrogen peroxide in live tissue. 2011 , 47, 9618-9620	141
1803	Folate receptor-targeted aggregation-enhanced near-IR emitting silica nanoprobe for one-photon in vivo and two-photon ex vivo fluorescence bioimaging. 2011 , 22, 1438-50	104
1802	Label-free live brain imaging and targeted patching with third-harmonic generation microscopy. 2011 , 108, 5970-5	118
1801	Enhanced two-photon singlet oxygen generation by photosensitizer-doped conjugated polymer nanoparticles. 2011 , 27, 1739-44	77
1800	Nanoshells for in vivo imaging using two-photon excitation microscopy. 2011 , 22, 365102	10
1799	The big and the small: challenges of imaging the brain's circuits. 2011 , 334, 618-23	260
1798	Apical membrane rupture and backward bile flooding in acetaminophen-induced hepatocyte necrosis. 2011 , 2, e183	14
1797	Intravital two-photon microscopy of lymphatic vessel development and function using a transgenic Prox1 promoter-directed mOrange2 reporter mouse. 2011 , 39, 1674-81	58
1796	Identification of nasal eosinophils using two-photon excited fluorescence. 2011 , 106, 394-400	2
1795	STED nanoscopy of actin dynamics in synapses deep inside living brain slices. 2011 , 101, 1277-84	226
1794	Two-photon fluorescence excitation within a light sheet based microscopy architecture. 2011 ,	3
1793	A mitochondrial-targeted two-photon probe for zinc ion. 2011 , 133, 5698-700	212
1792	Synthesis, structures and photoluminescence properties of silver(I) complexes with N,N'-di(pyrazin-2-yl)pyridine-2,6-diamine. 2011 , 13, 992-1002	13
1791	Tools to Study Signaling. 2011 , 3-18	
1790	Two-photon microscopy for chemical neuroscience. 2011 , 2, 185-197	67

1789	Benzothiazoles with tunable electron-withdrawing strength and reverse polarity: a route to triphenylamine-based chromophores with enhanced two-photon absorption. 2011 , 76, 8726-36	122
1788	Optical Interrogation of Neural Circuits. 2011 , 3-20	
1787	Nonlinear-optical brain anatomy by harmonic-generation and coherent Raman microscopy on a compact femtosecond laser platform. 2011 , 99, 231109	20
1786	Autoimmune disease in the brain--how to spot the culprits and how to keep them in check. 2011 , 311 Suppl 1, S3-11	3
1785	Photodynamic therapy and two-photon bio-imaging applications of hydrophobic chromophores through amphiphilic polymer delivery. 2011 , 10, 1216-25	67
1784	Applications of upconversion nanoparticles in imaging, detection and therapy. 2011 , 6, 1273-88	100
1783	Biophotonics: Spectroscopy, Imaging, Sensing, and Manipulation. 2011 ,	2
1782	Metal Ion-Responsive Fluorescent Probes for Two-Photon Excitation Microscopy. 2011 , 23, 483-500	150
1781	Two-photon imaging and analysis of neural network dynamics. 2011 , 74, 086602	18
1780	Spatial filter based 3D resolution improvement and polarization properties of multiphoton multiple-excitation-spot-optical microscopy. 2011 , 82, 063705	2
1779	Measuring neuronal population activity using 3D laser scanning. 2011 , 2011, 1340-9	4
1778	Reporting from the field: genetically encoded fluorescent reporters uncover signaling dynamics in living biological systems. 2011 , 80, 375-401	78
1777	Bond alternation, polarizability, and resonance detuning in methine dyes. 2011 , 134, 114520	26
1776	Breast cancer: the matrix is the message. 2011 , 178, 966-8	4
1775	SnapShot: Light microscopy. 2011 , 147, 1198.e1	3
1774	Bridging structure and process in developmental biology through new imaging technologies. 2011 , 21, 5-10	14
1773	Advances in multiphoton microscopy for imaging embryos. 2011 , 21, 538-48	43
1772	Optimal concentration of light in turbid materials. 2011 , 28, 1200	17

1771	Modeling the action-potential-sensitive nonlinear-optical response of myelinated nerve fibers and short-term memory. 2011 , 110, 094702	4
1770	Spatial Light Modulators for Complex Spatiotemporal Illumination of Neuronal Networks. 2011 , 61-81	1
1769	An infrared fluorescent protein for deeper imaging. 2011 , 29, 715-6	38
1768	Polarization-resolved nonlinear microscopy: application to structural molecular and biological imaging. 2011 , 3, 205	116
1767	Imaging carious dental tissues with multiphoton fluorescence lifetime imaging microscopy. 2010 , 2, 149-58	25
1766	Fast nonlinear spectral microscopy of in vivo human skin. 2011 , 2, 365-73	15
1765	In vivo tomographic imaging of red-shifted fluorescent proteins. 2011 , 2, 887-900	23
1764	Imaging skeletal muscle using second harmonic generation and coherent anti-Stokes Raman scattering microscopy. 2011 , 2, 1366-76	18
1763	Fast two-layer two-photon imaging of neuronal cell populations using an electrically tunable lens. 2011 , 2, 2035-46	223
1762	Imaging with second-harmonic radiation probes in living tissue. 2011 , 2, 2532-9	45
1761	Measurement and correction of in vivo sample aberrations employing a nonlinear guide-star in two-photon excited fluorescence microscopy. 2011 , 2, 3135-49	72
1760	Ratiometric detection of mitochondrial thiols with a two-photon fluorescent probe. 2011 , 133, 11132-5	321
1759	Extended depth-of-field microscopic imaging with a variable focus microscope objective. 2011 , 19, 353-62	72
1758	Numerical evaluation of temporal focusing characteristics in transparent and scattering media. 2011 , 19, 4937-48	45
1757	Femtosecond Cr:LiSAF and Cr:LiCAF lasers pumped by tapered diode lasers. 2011 , 19, 20444-61	29
1756	Impact of wavefront distortion and scattering on 2-photon microscopy in mammalian brain tissue. 2011 , 19, 22755-74	35
1755	In vivo video rate multiphoton microscopy imaging of human skin. 2011 , 36, 2865-7	29
1754	Single-molecule detection using continuous wave excitation of two-photon fluorescence. 2011 , 36, 3185-7	10

1753	Deciphering fluorescence signals by quantifying separately the excitation intensity from the number of emitters. 2011 , 36, 3317-9	1
1752	Minimally invasive multiphoton and harmonic generation imaging of extracellular matrix structures in lung airway and related diseases. 2011 , 24, 487-96	21
1751	Molecular imaging true-colour spectroscopic optical coherence tomography. 2011 , 5, 744-747	154
1750	Fullerenes for applications in biology and medicine. 2011 , 18, 2045-59	146
1749	Multiphoton microscopy for ophthalmic imaging. 2011 , 2011, 870879	46
1748	Electrophysiological characterization of GFP-expressing cell populations in the intact retina. 2011 ,	4
1747	Point-of-Care Pathology with Miniature Microscopes. 2011 , 34, 81-98	36
1746	Two-photon imaging of the mouse eye. 2011 , 52, 4098-105	24
1745	[Light-sheet based fluorescence microscopy: the dark side of the sample finally revealed]. 2011 , 27, 753-62	1
1744	Denosing two-photon calcium imaging data. 2011 , 6, e20490	23
1743	3D quantitative imaging of unprocessed live tissue reveals epithelial defense against bacterial adhesion and subsequent traversal requires MyD88. 2011 , 6, e24008	29
1742	Label-free 3D visualization of cellular and tissue structures in intact muscle with second and third harmonic generation microscopy. 2011 , 6, e28237	58
1741	Multimodal 4D imaging of cell-pathogen interactions in the lungs provides new insights into pulmonary infections. 2011 ,	
1740	Multiphoton imaging for deep tissue penetration and clinical endoscopy. 2011 ,	
1739	Turnover of synapse and dynamic nature of synaptic molecules in vitro and in vivo. 2011 , 44, 9-15	4
1738	Optimizing multiphoton fluorescence microscopy light collection from living tissue by noncontact total emission detection (epiTED). 2011 , 241, 153-61	21
1737	The effects of refractive index heterogeneity within kidney tissue on multiphoton fluorescence excitation microscopy. 2011 , 242, 148-56	11
1736	The effects of spherical aberration on multiphoton fluorescence excitation microscopy. 2011 , 242, 157-65	16

1735	Extension of imaging depth in two-photon fluorescence microscopy using a long-wavelength high-pulse-energy femtosecond laser source. 2011 , 243, 179-83		10
1734	A simple introduction to multiphoton microscopy. 2011 , 243, 221-6		126
1733	Noninvasive biophotonic imaging for studies of infectious disease. 2011 , 35, 360-94		113
1732	Time-lapse imaging of disease progression in deep brain areas using fluorescence microendoscopy. 2011 , 17, 223-8		197
1731	A microprobe for parallel optical and electrical recordings from single neurons in vivo. <i>Nature Methods</i> , 2011 , 8, 319-25	21.6	113
1730	From cudgel to scalpel: toward precise neural control with optogenetics. <i>Nature Methods</i> , 2011 , 8, 30-4	21.6	118
1729	Transfection via whole-cell recording in vivo: bridging single-cell physiology, genetics and connectomics. 2011 , 14, 527-32		105
1728	Proteins on the move: insights gained from fluorescent protein technologies. 2011 , 12, 656-68		108
1727	In vivo two-photon uncaging of glutamate revealing the structure-function relationships of dendritic spines in the neocortex of adult mice. 2011 , 589, 2447-57		122
1726	Thrombotic distal middle cerebral artery occlusion produced by topical FeCl(3) application: a novel model suitable for intravital microscopy and thrombolysis studies. 2011 , 31, 1452-60		44
1725	Optical reporters of synaptic activity in neural circuits. 2011 , 96, 4-12		32
1724	Multiphoton imaging of actin filament formation and mitochondrial energetics of human ACBT gliomas. 2011 , 87, 408-17		10
1723	Microscopy in 3D: a biologist's toolbox. 2011 , 21, 682-91		96
1722	Single plasmonic nanoparticles for biosensing. 2011 , 29, 343-51		89
1721	In situ characterization of the brain-microdevice interface using device-capture histology. 2011 , 201, 67-77		42
1720	Breakthroughs in Photonics 2010. 2011 , 3, 241-336		1
1719	Specificity and randomness: structure-function relationships in neural circuits. 2011 , 21, 801-7		17
1718	Effects of isomerism on two-photon absorption of substituted benzenes with two pairs of donor-acceptors. 2011 , 514, 226-233		9

1717	Tumor regression in vivo by photothermal therapy based on gold-nanorod-loaded, functional nanocarriers. 2011 , 5, 1995-2003	382
1716	Two-photon fluorescent probes for metal ions. 2011 , 6, 58-69	119
1715	Two-photon probes for Zn ²⁺ ions with various dissociation constants. Detection of Zn ²⁺ ions in live cells and tissues by two-photon microscopy. 2011 , 6, 1234-40	23
1714	Optical sectioning microscopy with planar or structured illumination. <i>Nature Methods</i> , 2011 , 8, 811-9	21.6 209
1713	Scale: a chemical approach for fluorescence imaging and reconstruction of transparent mouse brain. 2011 , 14, 1481-8	863
1712	Diamond-based single-photon emitters. 2011 , 74, 076501	363
1711	Intravital microscopy as a tool to study drug delivery in preclinical studies. 2011 , 63, 119-28	52
1710	The effect of pH value on the formation of gold nanoshells. 2011 , 13, 3301-3311	14
1709	A pilot study of using multiphoton microscopy to diagnose gastric cancer. 2011 , 25, 1425-30	30
1708	Two-photon in vivo imaging of cells. 2011 , 26, 1483-9	15
1707	Ultramicroscopy is a novel light sheet based imaging technique created by various research disciplines. 2011 , 128, 352-358	1
1706	Progress toward optical biopsy: bringing the microscope to the patient. 2011 , 189, 111-9	27
1705	A comparative study of one- and two-photon absorption properties of pyrene and perylene diimide derivatives. 2011 , 17, 1413-25	10
1704	Visualizing odor representation in the brain: a review of imaging techniques for the mapping of sensory activity in the olfactory glomeruli. 2011 , 68, 2689-709	91
1703	A theoretical study on magnesium ion-selective two-photon fluorescent probe based on benzo [h] chromene derivatives. 2011 , 130, 61-68	9
1702	Quantum dots as contrast agents for in vivo tumor imaging: progress and issues. 2011 , 399, 2331-42	48
1701	Neuronal tracing for connectomic studies. 2011 , 9, 159-66	30
1700	Real-time intravital imaging of cancer models. 2011 , 13, 848-54	13

1699	Myocardial substrate and route of administration determine acute cardiac retention and lung bio-distribution of cardiosphere-derived cells. 2011 , 18, 443-50	59
1698	Simultaneous two-photon activation of presynaptic cells and calcium imaging in postsynaptic dendritic spines. 2011 , 1, 2	7
1697	Two-photon excited UV fluorescence for protein crystal detection. 2011 , 67, 839-46	42
1696	Towards multimodal nonlinear optical tomography - experimental methodology. 2011 , 8, 617-624	39
1695	Multimodal Nonlinear Optical Microscopy. 2011 , 5, 496	103
1694	Gold Nanorods as Theranostic Agents. 2011 , 659-681	1
1693	Optical Imaging and Measurement of Angiogenesis. 2011 , 369-411	
1692	Synthesis, Photophysical Properties of Tribranched Chromophores Based on 1,3,5-Triazine Core and Different Electro-donating End-groups. 2011 , 29, 2129-2133	4
1691	How Förster resonance energy transfer imaging improves the understanding of protein interaction networks in cancer biology. 2011 , 12, 442-61	44
1690	FLIM FRET technology for drug discovery: automated multiwell-plate high-content analysis, multiplexed readouts and application in situ. 2011 , 12, 609-26	49
1689	Reconstructing embryonic development. 2011 , 49, 488-513	61
1688	Toward high-content/high-throughput imaging and analysis of embryonic morphogenesis. 2011 , 49, 555-69	22
1687	Multiphoton microscopy system with a compact fiber-based femtosecond-pulse laser and handheld probe. 2011 , 4, 34-9	30
1686	Future and advances in endoscopy. 2011 , 4, 471-81	32
1685	Surface-modified gold nanoshells for enhanced cellular uptake. 2011 , 98, 479-87	16
1684	A two-photon turn-on probe for lipid rafts with minimum internalization. 2011 , 12, 392-5	21
1683	Video rate bioluminescence imaging of secretory proteins in living cells: localization, secretory frequency, and quantification. 2011 , 415, 182-9	23
1682	New insight in boron chemistry: Application in two-photon absorption. 2011 , 33, 1453-1458	7

1681	Development of a non-linear optical microscope for real-time measurement of neuronal activity in sub-micrometric structures. 2011 , 33, 1434-1439	
1680	The effect of keratoconus on the structural, mechanical, and optical properties of the cornea. 2011 , 4, 223-36	84
1679	In vivo simultaneous intra- and extracellular potassium recordings using a micro-optrode. 2011 , 194, 206-17	31
1678	4D in in vivo 2-photon laser scanning fluorescence microscopy with sample motion in 6 degrees of freedom. 2011 , 200, 47-53	14
1677	Photosensitive chitosan to control cell attachment. 2011 , 361, 71-8	13
1676	On the effects of permanent molecular dipole moments in two-photon molecular excitations: an analytic generalized rotating wave approximation treatment including both the direct permanent dipole and the virtual state excitation mechanisms. 2011 , 44, 205401	8
1675	In vivo real-time multiphoton imaging of T lymphocytes in the mouse brain after experimental stroke. 2011 , 42, 1429-36	29
1674	Tools used to study how protein complexes are assembled in signaling cascades. 2011 , 2, 247-59	21
1673	Backward emission angle of microscopic second-harmonic generation from crystallized type I collagen fiber. 2011 , 16, 075001	3
1672	Hyperspectral coherent anti-Stokes Raman scattering microscopy imaging through turbid medium. 2011 , 16, 021116	10
1671	In vivo spectral imaging of different cell types in the small intestine by two-photon excited autofluorescence. 2011 , 16, 116025	29
1670	Enhanced two-channel nonlinear imaging by a highly polarized supercontinuum light source generated from a nonlinear photonic crystal fiber with two zero-dispersion wavelengths. 2011 , 16, 056010	6
1669	Maximum imaging depth of two-photon autofluorescence microscopy in epithelial tissues. 2011 , 16, 026008	42
1668	Video-rate tomographic phase microscopy. 2011 , 16, 011005	44
1667	Functional photoacoustic microscopy of pH. 2011 , 16, 100503	25
1666	Two-photon microscopy of cortical NADH fluorescence intensity changes: correcting contamination from the hemodynamic response. 2011 , 16, 106003	19
1665	Intravital microscopy: new insights into metastasis of tumors. 2011 , 124, 299-310	120
1664	Morphology and hemodynamics during vascular regeneration in critically ischemic murine skin studied by intravital microscopy techniques. 2011 , 47, 222-30	10

1663	Amplifying transmission and compact suspension for a low-profile, large-displacement piezoelectric actuator. 2011 , 21,	12
1662	Molecular and functional imaging of invasion and metastasis: windows into the metastatic cascade. 2010 , 7, 173-88	6
1661	Small molecule fluorescent probes for the detection of amyloid self-assembly in vitro and in vivo. 2011 , 12, 205-20	57
1660	Two-photon time-resolved confocal microscopy using a digital micromirror device. 2011 ,	
1659	Stent-induced coronary artery stenosis characterized by multimodal nonlinear optical microscopy. 2011 , 16, 021110	4
1658	Two-photon phosphorescence lifetime microscopy (2PLM) for high resolution imaging of oxygen. 2011 ,	3
1657	Time-resolved confocal microscopy of cryogenic processes in biological tissues. 2011 ,	
1656	Multiphoton fluorescence, second harmonic generation, and fluorescence lifetime imaging of whole cleared mouse organs. 2011 , 16, 106009	13
1655	High-speed focal modulation microscopy using acousto-optical modulators for visualization of thick biological specimens. 2011 ,	
1654	Visualization of heat propagation in biological tissues with two-photon fluorescence microscopy. 2011 ,	1
1653	Nonlinear-Optical Probe for Ultrafast Electron Dynamics: From Quantum Physics to Biosciences. 2011 , 3, 255-258	3
1652	Long-term in vivo imaging of β -amyloid plaque appearance and growth in a mouse model of cerebral β -amyloidosis. 2011 , 31, 624-9	92
1651	Pump-probe imaging differentiates melanoma from melanocytic nevi. 2011 , 3, 71ra15	96
1650	Nipkow confocal imaging from deep brain tissues. 2011 , 10, 121-9	14
1649	Three-dimensional multi-site two-photon excitation for probing neuronal signal integration. 2011 ,	
1648	Imaging molecular dynamics in vivo--from cell biology to animal models. 2011 , 124, 2877-90	62
1647	Phasor approach to fluorescence lifetime microscopy distinguishes different metabolic states of germ cells in a live tissue. 2011 , 108, 13582-7	275
1646	Advanced Fluorescence Reporters in Chemistry and Biology III. 2011 ,	11

1645	Uropathogenic Escherichia coli P and Type 1 fimbriae act in synergy in a living host to facilitate renal colonization leading to nephron obstruction. 2011 , 7, e1001298	107
1644	Photon counting, sensor corrections, and lifetime imaging for improved detection in two-photon microscopy. 2011 , 105, 3106-13	29
1643	In vivo two-photon microscopy to 1.6-mm depth in mouse cortex. 2011 , 16, 106014	264
1642	Late emergence of the vibrissa direction selectivity map in the rat barrel cortex. 2011 , 31, 10689-700	48
1641	Two-photon microscopy and fluorescence lifetime imaging reveal stimulus-induced intracellular Na ⁺ and Cl ⁻ changes in cockroach salivary acinar cells. 2011 , 300, C1323-36	24
1640	Thiol reactive probes and chemosensors. 2012 , 12, 15907-46	223
1639	Intravital microscopy: a practical guide on imaging intracellular structures in live animals. 2012 , 2, 143-57	79
1638	Two-photon imaging of microglia in the mouse cortex in vivo. 2012 , 2012,	23
1637	Examining form and function of dendritic spines. 2012 , 2012, 704103	57
1636	Simultaneous measurement of neural spike recordings and multi-photon calcium imaging in neuroblastoma cells. 2012 , 12, 15281-91	2
1635	Quantitative measurements in 3-dimensional datasets of mouse lymph nodes resolve organ-wide functional dependencies. 2012 , 2012, 128431	13
1634	Monitoring the glioma tropism of bone marrow-derived progenitor cells by 2-photon laser scanning microscopy and positron emission tomography. 2012 , 14, 471-81	7
1633	Preclinical study of using multiphoton microscopy to diagnose liver cancer and differentiate benign and malignant liver lesions. 2012 , 17, 026004	24
1632	Unique diagnostic and therapeutic roles of porphyrins and phthalocyanines in photodynamic therapy, imaging and theranostics. 2012 , 2, 916-66	410
1631	Simultaneous imaging of multiple focal planes for three-dimensional microscopy using ultra-high-speed adaptive optics. 2012 , 17, 050505	39
1630	In vivo photoacoustic microscopy with 7.6- μ m axial resolution using a commercial 125-MHz ultrasonic transducer. 2012 , 17, 116016	92
1629	Intravital imaging of cell signaling in mice. 2012 , 1, 2-10	26
1628	Multimodal light-sheet microscopy for fluorescence live imaging. 2012 ,	2

1627	Polydimethylsiloxane embedded mouse aorta ex vivo perfusion model: proof-of-concept study focusing on atherosclerosis. 2012 , 17, 076006	2
1626	Deep tissue optical and optoacoustic molecular imaging technologies for pre-clinical research and drug discovery. 2012 , 13, 504-22	60
1625	Imaging of biological tissues with pixel-level analysis of second-order susceptibility. 2013 , 18, 31102	10
1624	Video-rate resonant scanning multiphoton microscopy: An emerging technique for intravital imaging of the tumor microenvironment. 2012 , 1,	37
1623	Investigating second messenger signaling in vivo. 2012 , 505, 363-82	6
1622	C-scan photoacoustic microscopy for invivo imaging of Drosophila pupae. 2012 , 101, 013702	16
1621	Detection of single fluorescent proteins inside eukaryotic cells using two-photon fluorescence. 2012 , 3, 340-53	7
1620	Focal switching of photochromic fluorescent proteins enables multiphoton microscopy with superior image contrast. 2012 , 3, 1955-63	12
1619	Human tissue color as viewed in high dynamic range optical spectral transmission measurements. 2012 , 3, 2154-61	39
1618	Measuring aberrations in the rat brain by coherence-gated wavefront sensing using a Linnik interferometer. 2012 , 3, 2510-25	20
1617	Methanol immersion reduces spherical aberration of water dipping lenses at long wavelengths used in multi-photon laser scanning microscopy. 2012 , 3, 3314-24	1
1616	Scattered light fluorescence microscopy in three dimensions. 2012 , 20, 3744-52	32
1615	Multi-contrast focal modulation microscopy for in vivo imaging of thick biological tissues. 2012 , 20, 12166-70	8
1614	Focusing through dynamic scattering media. 2012 , 20, 15086-92	63
1613	Extending the fundamental imaging-depth limit of multi-photon microscopy by imaging with photo-activatable fluorophores. 2012 , 20, 18525-36	19
1612	Enhancement of imaging depth of two-photon microscopy using pinholes: analytical simulation and experiments. 2012 , 20, 20605-22	7
1611	Spatiotemporal focusing in opaque scattering media by wave front shaping with nonlinear feedback. 2012 , 20, 29237-51	27
1610	Digital-micromirror-device-based confocal 4D microscopy. 2012 ,	1

1609	Simultaneous multiplane in vivo nonlinear microscopy using spectral encoding. 2012 , 37, 2967-9	7
1608	Fluorescence volume imaging with an axicon: simulation study based on scalar diffraction method. 2012 , 51, 7236-45	17
1607	Stimulated emission reduced fluorescence microscopy: a concept for extending the fundamental depth limit of two-photon fluorescence imaging. 2012 , 3, 1465-75	16
1606	Adjustment of ablation shapes and subwavelength ripples based on electron dynamics control by designing femtosecond laser pulse trains. 2012 , 112, 103103	11
1605	Imaging of cellular spread on a three-dimensional scaffold by means of a novel cell-labeling technique for high-resolution computed tomography. 2012 , 18, 167-75	4
1604	Superpenetration optical microscopy by iterative multiphoton adaptive compensation technique. 2012 , 109, 8434-9	143
1603	Remotely scanned multiphoton temporal focusing by axial grism scanning. 2012 , 37, 2913-5	25
1602	In vivo optical microendoscopy for imaging cells lying deep within live tissue. 2012 , 2012, 1029-34	30
1601	Beyond the Rayleigh Limit in Optical Lithography. 2012 , 409-466	10
1600	Action potential propagation in transverse-axial tubular system is impaired in heart failure. 2012 , 109, 5815-9	75
1599	Optogenetic electrophysiology: a new approach to combine cellular and systems physiology. 2012 , 3, 193-201	1
1598	The Molecular Structures of Alpha-Brominated 2,5-Dimethyl-Terephthalonitrile Derivatives and the Dependences of Their Yields on the Reaction Time. 2012 , 476-478, 1178-1185	
1597	Two-photon microscopy of the mouse cochlea in situ for cellular diagnosis. 2013 , 18, 31104	17
1596	Microfluidic tools to investigate pathologies in the blood microcirculation. 2012 , 9, 529	6
1595	Realization of hybrid systems coupling molecules and gold nanoparticles towards fluorescence enhancement. 2012 ,	1
1594	Protein conformation and molecular order probed by second-harmonic-generation microscopy. 2012 , 17, 060901	31
1593	In vivo imaging of the diseased nervous system: an update. 2012 , 18, 4465-70	4
1592	Targeted nanosensor aided three-dimensional pH mapping in tumor spheroids using two-photon microscopy. 2012 ,	2

1591	Multicellular Tumor Spheroids as an in Vivo-Like Tumor Model for Three-Dimensional Imaging of Chemotherapeutic and Nano Material Cellular Penetration. 2012 , 11, 7290.2012.00012	85
1590	Evaluation of intracellular labeling with micron-sized particles of iron oxide (MPIOs) as a general tool for in vitro and in vivo tracking of human stem and progenitor cells. 2012 , 21, 1743-59	39
1589	Application of optical imaging and spectroscopy to radiation biology. 2012 , 177, 365-75	7
1588	Calcium imaging. 362-409	1
1587	Perspectives. 470-479	
1586	Two-Photon Microscopy for Deep Tissue Imaging of Living Specimens. 2012 , 20, 12-16	11
1585	- Early Detection of Oral Cancer Using Biooptical Imaging Technologies. 2012 , 348-361	
1584	Quantitative analysis of monocyte subpopulations in murine atherosclerotic plaques by multiphoton microscopy. 2012 , 7, e44823	18
1583	Lanthanide-doped up-converting nanoparticles: Merits and challenges. 2012 , 7, 532-563	311
1582	. 2012 , 18, 1326-1334	6
1581	Biochemistry: A glimpse of molecular competition. 2012 , 491, 198-200	1
1580	Imaging: The fog clears. 2012 , 491, 197-8	10
1579	All-optical spin-wave control. 2012 , 6, 643-645	4
1578	Aberration-free three-dimensional multiphoton imaging of neuronal activity at kHz rates. 2012 , 109, 2919-24	131
1577	Air-guided photonic-crystal-fiber pulse-compression delivery of multimewatt femtosecond laser output for nonlinear-optical imaging and neurosurgery. 2012 , 100, 101104	11
1576	Methods for in vivo molecular imaging. 2012 , 77, 1339-53	13
1575	Single-wavelength two-photon excitation-stimulated emission depletion (SW2PE-STED) superresolution imaging. 2012 , 109, 6390-3	66
1574	Excitation spectra and brightness optimization of two-photon excited probes. 2012 , 102, 934-44	76

1573	In vivo imaging of the mouse spinal cord using two-photon microscopy. 2012 , e2760	23
1572	Two-photon optogenetic toolbox for fast inhibition, excitation and bistable modulation. <i>Nature Methods</i> , 2012 , 9, 1171-9	21.6 246
1571	Amyloid plaque formation precedes dendritic spine loss. 2012 , 124, 797-807	64
1570	A life dedicated to Alzheimer's disease research: in memory of Inge Grundke-Iqbal (1937-2012). 2012 , 124, 907-908	
1569	Nanoscopy of living brain slices with low light levels. 2012 , 75, 992-1000	106
1568	Multicolor in vivo brain imaging with a microscope-coupled fiber-bundle microprobe. 2012 , 101, 233702	14
1567	Dynamic longitudinal investigation of individual nerve endings in the skin of anesthetized mice using in vivo two-photon microscopy. 2012 , 17, 046007	10
1566	Setup for investigating gold nanoparticle penetration through reconstructed skin and comparison to published human skin data. 2013 , 18, 061218	8
1565	Simultaneous imaging of mitochondria and lysosomes by using two-photon fluorescent probes. 2012 , 18, 15246-9	40
1564	Theoretical study of two-photon absorption properties and up-conversion efficiency of new symmetric organic conjugated molecules for photovoltaic devices. 2012 , 18, 3657-67	7
1563	If you don't look, you won't see: intravital multiphoton imaging of primary and metastatic breast cancer. 2012 , 17, 125-9	19
1562	Charting monosynaptic connectivity maps by two-color light-sheet fluorescence microscopy. 2012 , 2, 1375-86	40
1561	Comment: Cell Motility Models and Inference for Dynamic Systems. 2012 , 107, 865-868	
1560	Magnetic and optical properties of multifunctional core-shell radioluminescence nanoparticles. 2012 , 22, 12802-12809	64
1559	Two-photon fluorescent probe for cadmium imaging in cells. 2012 , 137, 1837-45	32
1558	Diaza-18-crown-6 hydroxyquinoline derivatives as flexible tools for the assessment and imaging of total intracellular magnesium. 2012 , 3, 727-734	23
1557	Bayesian Spatio-Dynamic Modeling in Cell Motility Studies: Learning Nonlinear Toxic Fields Guiding the Immune Response. 2012 , 107, 855-865	6
1556	A turn-on two-photon fluorescent probe for ATP and ADP. 2012 , 48, 3206-8	116

1555	pH-responsive water soluble smart vesicles containing a bis(styryl)benzene derivative for two-photon microscopy imaging. 2012 , 22, 1977-1984	10
1554	Shedding light on the laser wavelength effect in Raman analysis of skin epidermises. 2012 , 137, 4241-6	12
1553	A two-photon turn-on probe for glucose uptake. 2012 , 48, 2122-4	9
1552	A highly sensitive two-photon fluorescent probe for mitochondrial zinc ions in living tissue. 2012 , 48, 4546-8	73
1551	6-Substituted quinoline-based ratiometric two-photon fluorescent probes for biological Zn ²⁺ detection. 2012 , 48, 4196-8	103
1550	Reaction-based two-photon probes for mercury ions: fluorescence imaging with dual optical windows. 2012 , 14, 2598-601	91
1549	Assembly, Two-Photon Absorption, and Bioimaging of Living Cells of A Cuprous Cluster. 2012 , 24, 954-961	56
1548	A mitochondria-localized two-photon fluorescent probe for ratiometric imaging of hydrogen peroxide in live tissue. 2012 , 48, 3518-20	139
1547	Molecular-Switch-Mediated Multiphoton Fluorescence Microscopy with High-Order Nonlinearity. 2012 , 3, 2082-2086	8
1546	All Optical Determination of Microscopic and Macroscopic Structure of Chiral, Polar Microcrystals from Achiral, Nonpolar Molecules. 2012 , 116, 12219-12225	17
1545	Imaging calcium in neurons. 2012 , 73, 862-85	780
1544	Two-photon uncaging: The chemist point of view. 2012 , 34, 1664-1669	8
1543	A potential water-soluble ytterbium-based porphyrin-cyclen dual bio-probe for Golgi apparatus imaging and photodynamic therapy. 2012 , 48, 9646-8	40
1542	Two-photon calcium imaging in the intact brain. 2012 , 740, 83-102	7
1541	Habenula circuit development: past, present, and future. 2012 , 6, 51	41
1540	Two-Photon Imaging of Population Activity with Genetically Encoded Calcium Indicators in Living Flies. 2012 , 113-124	
1539	Three-dimensional imaging of small intestine morphology using non-linear optical microscopy and endogenous signals. 2012 , 221, 279-83	2
1538	Laser scanning-based tissue autofluorescence/fluorescence imaging (LS-TAFI), a new technique for analysis of microanatomy in whole-mount tissues. 2012 , 180, 2249-56	14

1537	Direct two-photon excitation of Sm ³⁺ , Eu ³⁺ , Tb ³⁺ , Tb.DOTA and Tb.propargylDO3A in solution. 2012 , 541, 16-20	14
1536	Quantitative in vivo imaging of embryonic development: opportunities and challenges. 2012 , 84, 149-62	43
1535	SnapShot: Optical control and imaging of brain activity. 2012 , 149, 1650-1650.e2	3
1534	A small-molecule two-photon probe for nitric oxide in living tissues. 2012 , 18, 12388-94	47
1533	Lipid-PEG-folate encapsulated nanoparticles with aggregation induced emission characteristics: cellular uptake mechanism and two-photon fluorescence imaging. 2012 , 8, 3655-63	128
1532	Shedding light on nanomedicine. 2012 , 4, 638-62	63
1531	Multiphoton microscopy applications in nanodermatology. 2012 , 4, 680-90	10
1530	Genetically encoded optical indicators for the analysis of neuronal circuits. 2012 , 13, 687-700	151
1529	Real-time in vivo imaging of fungal migration to the central nervous system. 2012 , 14, 1819-27	16
1528	Molecular Rotors: Imaging Intracellular Viscosity. 2012 , 243-262	2
1527	Organelle-specific detection of phosphatase activities with two-photon fluorogenic probes in cells and tissues. 2012 , 134, 12157-67	140
1526	Strong two-photon fluorescence enhanced jointly by dipolar and quadrupolar modes of a single plasmonic nanostructure. 2012 , 101, 051109	11
1525	Pyrene-based water dispersible orange emitter for one- and two-photon fluorescence cellular imaging. 2012 , 3, 2464	11
1524	A review of imaging methods for measuring drug release at nanometre scale: a case for drug delivery systems. 2012 , 9, 203-18	13
1523	Fluorescence Microscopy. 2012 , 327-348	1
1522	Fluorescence Spectroscopy to Characterize Protein Aggregates and Particles. 2012 , 201-226	6
1521	Encyclopedia of Nanotechnology. 2012 , 1083-1090	
1520	Dual-color imaging of magnesium/calcium ion activities with two-photon fluorescent probes. 2012 , 84, 8110-3	49

1519	Quantifying human eosinophils using three-dimensional volumetric images collected with multiphoton fluorescence microscopy. 2012 , 142, 15-20.e1	16
1518	Small molecule fluorophore and copolymer RGD peptide conjugates for ex vivo two-photon fluorescence tumor vasculature imaging. 2012 , 33, 8477-85	29
1517	Intravital microscopy: new insights into cellular interactions. 2012 , 12, 601-7	13
1516	Reliable optical detection of coherent neuronal activity in fast oscillating networks in vitro. 2012 , 60, 139-52	8
1515	Multiphoton Microscopy Advances Toward Super Resolution. 2012 , 121-140	1
1514	Cellular-Level Optical Biopsy Using Full-Field Optical Coherence Microscopy. 2012 , 185-199	
1513	Two-photon microscopy as a tool to study blood flow and neurovascular coupling in the rodent brain. 2012 , 32, 1277-309	288
1512	Mapping viscosity in cells using molecular rotors. 2012 , 14, 12671-86	319
1511	Harmonic nanocrystals for biolabeling: a survey of optical properties and biocompatibility. 2012 , 6, 2542-9	143
1510	The slow fade of cell fluorescence. 2012 , 6, 641-643	
1509	A small molecule two-photon probe for hydrogen sulfide in live tissues. 2012 , 48, 8395-7	171
1508	Live imaging fluorescent proteins in early mouse embryos. 2012 , 506, 361-89	9
1507	Photochemical tools for studying metal ion signaling and homeostasis. 2012 , 51, 7212-24	38
1506	Chapter 6:Biological Methods for Characterisation of Nano-Anti-Microbial Materials. 2012 , 153-192	1
1505	Focusing and scanning light through a multimode optical fiber using digital phase conjugation. 2012 , 20, 10583-90	224
1504	In vivo two-photon microscopy reveals immediate microglial reaction to implantation of microelectrode through extension of processes. 2012 , 9, 066001	122
1503	Small Organic Molecules and Higher Homologs. 2012 , 1335-1380	
1502	Fluorescence lifetime microscopy of tumor cell invasion, drug delivery, and cytotoxicity. 2012 , 504, 109-25	28

1501	Photothermal genetic engineering. 2012 , 6, 7548-52	13
1500	The role of nanophotonics in regenerative medicine. 2012 , 811, 267-84	3
1499	Deep-tissue focal fluorescence imaging with digitally time-reversed ultrasound-encoded light. 2012 , 3, 928	238
1498	Integrin and Cell Adhesion Molecules. 2012 ,	2
1497	Extended depth-of-field for visual systems: an overview. 2012 ,	1
1496	Visualization Techniques. 2012 ,	
1495	Encyclopedia of Nanotechnology. 2012 , 1096-1109	
1494	Genetically Encoded Functional Indicators. 2012 ,	2
1493	Optical imaging using endogenous contrast to assess metabolic state. 2012 , 14, 351-67	176
1492	Photons in Natural and Life Sciences. 2012 ,	2
1491	Reliable in vivo identification of both GABAergic and glutamatergic neurons using Emx1-Cre driven fluorescent reporter expression. 2012 , 52, 182-9	12
1490	Optical Properties of a Two-Photon Chromophore in a Polymeric Nanostructure. 2012 , 554, 65-71	
1489	Sodium sensing in neurons with a dendrimer-based nanoprobe. 2012 , 6, 1176-87	46
1488	Novel mechanism for mesenchymal stem cells in attenuating peritoneal adhesion: accumulating in the lung and secreting tumor necrosis factor β -stimulating gene-6. 2012 , 3, 51	27
1487	Mapping molecular agents distributions in whole mice hearts using born-normalized optical projection tomography. 2012 , 7, e34427	5
1486	Imaging immune and metabolic cells of visceral adipose tissues with multimodal nonlinear optical microscopy. 2012 , 7, e38418	17
1485	Distinct modulated pupil function system for real-time imaging of living cells. 2012 , 7, e44028	
1484	High-resolution intravital microscopy. 2012 , 7, e50915	29

1483	Label-free evaluation of hepatic microvesicular steatosis with multimodal coherent anti-Stokes Raman scattering microscopy. 2012 , 7, e51092	34
1482	Ultra-bright and -stable red and near-infrared squaraine fluorophores for in vivo two-photon imaging. 2012 , 7, e51980	33
1481	Functional diversity of supragranular GABAergic neurons in the barrel cortex. 2012 , 6, 52	54
1480	Large-scale, high-resolution electrophysiological imaging of field potentials in brain slices with microelectronic multielectrode arrays. 2012 , 6, 80	65
1479	Finding a Needle in a Haystack: Identification of EGFP Tagged Neurons during Calcium Imaging by Means of Two-Photon Spectral Separation. 2012 , 5, 96	13
1478	Focal Modulation Microscopy: Principle and Techniques. 2012 ,	
1477	Real-time noninvasive optical diagnosis for colorectal cancer using multiphoton microscopy. 2012 , 34, 181-5	17
1476	Use of multiphoton microscopy to diagnose liver cancer and lung metastasis in an orthotopic rat model. 2012 , 34, 271-7	7
1475	Two-photon fluorescence imaging super-enhanced by multishell nanophotonic particles, with application to subcellular pH. 2012 , 8, 2213-21	26
1474	A novel quinoline-based two-photon fluorescent probe for detecting Cd ²⁺ in vitro and in vivo. 2012 , 41, 6189-94	33
1473	A Multiparametric Imaging of Cellular Coenzymes for Monitoring Metabolic and Mitochondrial Activities. 2012 , 223-243	2
1472	Computational adaptive optics for broadband optical interferometric tomography of biological tissue. 2012 , 109, 7175-80	124
1471	Visualizing dynamics of sub-hepatic distribution of nanoparticles using intravital multiphoton fluorescence microscopy. 2012 , 6, 4122-31	68
1470	Experimental and theoretical studies on the one-photon and two-photon properties of a series of carbazole derivatives containing styrene. 2012 , 25, 362-372	17
1469	Multicolor two-photon tissue imaging by wavelength mixing. <i>Nature Methods</i> , 2012 , 9, 815-8	21.6 122
1468	Synthesis and properties of fluorescent dyes conjugated to hyperbranched polyglycerols. 2012 , 36, 419-427	30
1467	Dendritic spines: from structure to in vivo function. 2012 , 13, 699-708	194
1466	Imaging cortical vasculature with stimulated Raman scattering and two-photon photothermal lensing microscopy. 2012 , 43, 668-674	30

1465	Two-Photon Fluorescent Probes for Bioimaging. 2012 , 2012, 3199-3217	216
1464	Simultaneous multi-site two-photon photostimulation in three dimensions. 2012 , 5, 745-53	25
1463	Eliminating the scattering ambiguity in multifocal, multimodal, multiphoton imaging systems. 2012 , 5, 425-36	14
1462	Imaging neocortical neurons through a chronic cranial window. 2012 , 2012, 694-701	31
1461	Graphene Oxide Nanoparticles as a Nonbleaching Optical Probe for Two-Photon Luminescence Imaging and Cell Therapy. 2012 , 124, 1866-1870	16
1460	Water-Soluble, Donor-Acceptor Biphenyl Derivatives in the 2-(o-Nitrophenyl)propyl Series: Highly Efficient Two-Photon Uncaging of the Neurotransmitter γ -Aminobutyric Acid at λ 800 nm. 2012 , 124, 1876-1879	22
1459	Measurement of pH Values in Human Tissues by Two-Photon Microscopy. 2012 , 124, 2727-2730	6
1458	Measurement of pH values in human tissues by two-photon microscopy. 2012 , 51, 2673-6	72
1457	Glycosylated star-shaped conjugated oligomers for targeted two-photon fluorescence imaging. 2012 , 18, 9705-13	19
1456	pHTomato, a red, genetically encoded indicator that enables multiplex interrogation of synaptic activity. 2012 , 15, 1047-53	130
1455	Scanning-fiber-based imaging method for tissue engineering. 2012 , 17, 066010	9
1454	Controlling waves in space and time for imaging and focusing in complex media. 2012 , 6, 283-292	793
1453	ViBE-Z: a framework for 3D virtual colocalization analysis in zebrafish larval brains. <i>Nature Methods</i> , 2012 , 9, 735-42	21.6 103
1452	Theoretical investigation of the two-photon absorption properties of 3,6-bis(4-vinylpyridinium) carbazole derivatives--new biological fluorescent probes. 2012 , 18, 2357-67	5
1451	Molecular imaging of small animals with fluorescent proteins: from projection to multimodality. 2012 , 36, 259-63	18
1450	Prospect for feedback guided surgery with ultra-short pulsed laser light. 2012 , 22, 24-33	38
1449	Genetically encoded neural activity indicators. 2012 , 22, 18-23	141
1448	Functional imaging in freely moving animals. 2012 , 22, 45-53	47

1447	The development of a novel dry powder inhaler. 2012 , 431, 45-52	14
1446	Characterization of metabolic changes associated with the functional development of 3D engineered tissues by non-invasive, dynamic measurement of individual cell redox ratios. 2012 , 33, 5341-8	59
1445	Multiphoton fluorescence lifetime imaging shows spatial segregation of secondary metabolites in Eucalyptus secretory cavities. 2012 , 247, 33-42	23
1444	An autoimmunity odyssey: how autoreactive T cells infiltrate into the CNS. 2012 , 248, 140-55	33
1443	Differential Multiphoton Laser Scanning Microscopy. 2012 , 18, 14-28	8
1442	Detection of nickel in fish organs with a two-photon fluorescent probe. 2012 , 18, 1953-60	18
1441	Two-photon excited fluorescence lifetime measurements through a double-clad photonic crystal fiber for tissue micro-endoscopy. 2012 , 5, 14-9	11
1440	Bond-selective imaging of deep tissue through the optical window between 1600 and 1850 nm. 2012 , 5, 25-32	54
1439	MR elastography monitoring of tissue-engineered constructs. 2012 , 25, 452-63	35
1438	Combined in vivo multiphoton and CARS imaging of healthy and disease-affected human skin. 2012 , 75, 492-8	50
1437	Graphene oxide nanoparticles as a nonbleaching optical probe for two-photon luminescence imaging and cell therapy. 2012 , 51, 1830-4	173
1436	Water-soluble, donor-acceptor biphenyl derivatives in the 2-(o-nitrophenyl)propyl series: highly efficient two-photon uncaging of the neurotransmitter γ -aminobutyric acid at $\lambda = 800$ nm. 2012 , 51, 1840-3	99
1435	Optical and opto-acoustic interventional imaging. 2012 , 40, 346-66	8
1434	Post hoc immunostaining of GABAergic neuronal subtypes following in vivo two-photon calcium imaging in mouse neocortex. 2012 , 463, 339-54	19
1433	'Go with the flow': a review of methods and advancements in blood flow imaging. 2013 , 6, 217-55	74
1432	From molecular structure to tissue architecture: collagen organization probed by SHG microscopy. 2013 , 6, 129-42	117
1431	In vivo temporal and spatial profile of leukocyte adhesion and migration after experimental traumatic brain injury in mice. 2013 , 10, 32	42
1430	Optical imaging of structural and functional synaptic plasticity in vivo. 2013 , 719, 128-136	19

1429	Techniques for assessing 3-D cell-matrix mechanical interactions in vitro and in vivo. 2013 , 319, 2470-80	18
1428	A two-photon fluorescent probe for imaging hydrogen sulfide in living cells. 2013 , 99, 537-542	75
1427	A water-soluble two-photon fluorescent turn-on probe for pyrophosphate anion: Design, synthesis and properties. 2013 , 183, 124-128	16
1426	Methods in Neuroethological Research. 2013 ,	
1425	Contrast optimization of two-photon processes after a microstructured hollow-core fiber demonstrated for dye molecules. 2013 , 112, 579-586	3
1424	Porphyrins for probing electrical potential across lipid bilayer membranes by second harmonic generation. 2013 , 52, 9044-8	30
1423	Neurovascular coupling: in vivo optical techniques for functional brain imaging. 2013 , 12, 38	62
1422	An off-on COX-2-specific fluorescent probe: targeting the Golgi apparatus of cancer cells. 2013 , 135, 11663-9	212
1421	Synthesis, growth, crystalline perfection of 4-bromo-4'-dimethylamino benzylideneaniline (BDMABA) and photons absorption of BDMABA crystal. 2013 , 104, 403-8	13
1420	Molecular Imaging in Oncology. 2013 ,	3
1419	Nanometre-scale thermometry in a living cell. 2013 , 500, 54-8	1075
1418	Nanoparticles Based on Conjugated Polymers and Oligomers for Optoelectronic, Imaging, and Sensing Applications: The Illustrative Example of Fluorene-Based Polymers and Oligomers. 2013 , 1-25	0
1417	Computer aided alignment and quantitative 4D structural plasticity analysis of neurons. 2013 , 11, 249-57	6
1416	Insights into cell-to-cell and cell-to-blood-vessel communications in the brain: in vivo multiphoton microscopy. 2013 , 352, 149-59	20
1415	Ultrabright organic dots with aggregation-induced emission characteristics for real-time two-photon intravital vasculature imaging. 2013 , 25, 6083-8	218
1414	Two-photon microscopy with double-circle trajectories for in vivo cerebral blood flow measurements. 2013 , 54, 1	6
1413	Use of multiphoton tomography and fluorescence lifetime imaging to investigate skin pigmentation in vivo. 2013 , 18, 26022	46
1412	Dark-field third-harmonic imaging. 2013 , 103, 093701	13

1411	Online correction of licking-induced brain motion during two-photon imaging with a tunable lens. 2013 , 591, 4689-98	36
1410	Categorization of two-photon microscopy images of human cartilage into states of osteoarthritis. 2013 , 21, 1074-82	2
1409	What can stimulated emission do for bioimaging?. 2013 , 1293, 1-7	1
1408	Miniaturization of two-photon microscopy for imaging in freely moving animals. 2013 , 2013, 904-13	60
1407	Luminescent gold nanoparticles: a new class of nanoprobe for biomedical imaging. 2013 , 238, 1199-209	33
1406	Imaging neuronal populations in behaving rodents: paradigms for studying neural circuits underlying behavior in the mammalian cortex. 2013 , 33, 17631-40	52
1405	Two-photon voltage imaging using a genetically encoded voltage indicator. 2013 , 3, 2231	61
1404	Benzimidazole-based ratiometric two-photon fluorescent probes for acidic pH in live cells and tissues. 2013 , 135, 17969-77	270
1403	Recent Advances in Fiber Lasers for Nonlinear Microscopy. 2013 , 7,	251
1402	Nano-Optics for Enhancing Light-Matter Interactions on a Molecular Scale. 2013 ,	1
1401	Fluorogenic, two-photon-triggered photoclick chemistry in live mammalian cells. 2013 , 135, 16766-9	126
1400	Ultrafast Nonlinear Optics. 2013 ,	11
1399	Light microscopy mapping of connections in the intact brain. 2013 , 17, 596-9	57
1398	Expanding multimodal microscopy by high spectral resolution coherent anti-Stokes Raman scattering imaging for clinical disease diagnostics. 2013 , 85, 6703-15	44
1397	A compact microscope setup for multimodal nonlinear imaging in clinics and its application to disease diagnostics. 2013 , 138, 4048-57	34
1396	Two-photon imaging of neural population activity in zebrafish. 2013 , 62, 255-67	39
1395	A Highly Selective Reaction-Based Two-Photon Probe for Copper(I) in Aqueous Media. 2013 , 78, 785-788	16
1394	Synthetic fluorescent probes for monovalent copper. 2013 , 17, 656-62	70

1393	Long-wavelength, photostable, two-photon excitable BODIPY fluorophores readily modifiable for molecular probes. 2013 , 78, 9153-60	152
1392	A review of optical imaging and therapy using nanosized graphene and graphene oxide. 2013 , 34, 9519-34	137
1391	Rapid large-area multiphoton microscopy for characterization of graphene. 2013 , 7, 8441-6	69
1390	Efficient Photoluminescence of Mn ²⁺ -Doped ZnS Quantum Dots Excited by Two-Photon Absorption in Near-Infrared Window II. 2013 , 117, 20905-20911	48
1389	Fluorescence lifetime imaging microscopy for quantitative biological imaging. 2013 , 114, 457-88	30
1388	Optical developments for optogenetics. 2013 , 105, 443-64	40
1387	Synthesis and properties of Asante Calcium Red--a novel family of long excitation wavelength calcium indicators. 2013 , 54, 320-33	11
1386	Synthesis of charged bis-heteroaryl donor-acceptor (D-A ⁺) NLO-phores coupling (Deficient-Excessive) heteroaromatic rings. 2013 , 11, 7145-54	9
1385	Bi-directional Optrode for quantitative prediction of neural interface failure. 2013 ,	
1384	On the effects of permanent molecular dipoles in the simultaneous absorption of two photons: full generalized rotating wave approximation versus analytical results. 2013 , 139, 144104	6
1383	Endoscopic focal modulation microscopy. 2013 , 250, 116-121	1
1382	Frequency modulation optimization of nonlinear optical Z-scan by high repetition rate femtosecond laser. 2013 ,	
1381	Fluorescence imaging in the last two decades. 2013 , 62, 63-8	19
1380	Ratiometric detection of viscosity using a two-photon fluorescent sensor. 2013 , 19, 1548-53	104
1379	Cytosystems dynamics in self-organization of tissue architecture. 2013 , 493, 318-26	300
1378	A two-photon fluorescent probe for amyloid- β plaques in living mice. 2013 , 49, 1303-5	47
1377	Fluorescence imaging of synapse formation and remodeling. 2013 , 62, 51-62	19
1376	Photonic-Crystal Fiber Platform for Ultrafast Optical Science. 2013 , 195-213	

1375	Optical and opto-acoustic imaging. 2013 , 187, 133-50	17
1374	Barrel cortex function. 2013 , 103, 3-27	230
1373	Subtissue thermal sensing based on neodymium-doped LaF ₃ nanoparticles. 2013 , 7, 1188-99	290
1372	Optogenetic tools for mammalian systems. 2013 , 9, 596-608	75
1371	A Switchable Two-Photon Membrane Tracer Capable of Imaging Membrane-Associated Protein Tyrosine Phosphatase Activities. 2013 , 125, 442-446	20
1370	A switchable two-photon membrane tracer capable of imaging membrane-associated protein tyrosine phosphatase activities. 2013 , 52, 424-8	75
1369	Synthesis, one- and two-photon photophysical and excited-state properties, and sensing application of a new phosphorescent dinuclear cationic iridium(III) complex. 2013 , 19, 621-9	53
1368	Single cell optical imaging and spectroscopy. 2013 , 113, 2469-527	207
1367	HelioScan: a software framework for controlling in vivo microscopy setups with high hardware flexibility, functional diversity and extendibility. 2013 , 215, 38-52	45
1366	Preclinical intravital microscopy of the tumour-stroma interface: invasion, metastasis, and therapy response. 2013 , 25, 659-71	108
1365	Volumetric label-free imaging and 3D reconstruction of mammalian cochlea based on two-photon excitation fluorescence microscopy. 2013 , 23, 115601	
1364	astrocytic Ca signaling in health and brain disorders. 2013 , 8, 529-554	17
1363	In vivo imaging of zebrafish embryogenesis. 2013 , 62, 268-78	31
1362	Two-photon probes based on arylsulfonyl azides: Fluorescence detection and imaging of biothiols. 2013 , 99, 308-315	21
1361	Spatially resolved two-color diffusion measurements in human skin applied to transdermal liposome penetration. 2013 , 133, 1260-8	49
1360	three-photon microscopy of subcortical structures within an intact mouse brain. 2013 , 7,	830
1359	Breakthroughs in Photonics 2012: Nonlinear Laser Imaging for Neuroscience. 2013 , 5, 0701006-0701006	2
1358	Probing neuronal activities with genetically encoded optical indicators: from a historical to a forward-looking perspective. 2013 , 465, 361-71	16

1357	Design Strategies for Fluorescent Biodegradable Polymeric Biomaterials. 2013 , 1, 132-148	68
1356	Optimizing fluorescence excitation and detection for intravital two-photon microscopy. 2013 , 113, 311-23	1
1355	Improving the second-order nonlinear optical response of fluorescent proteins: the symmetry argument. 2013 , 135, 4061-9	44
1354	Fluorescent probes for G-quadruplex structures. 2013 , 14, 540-58	194
1353	Improving spinning disk confocal microscopy by preventing pinhole cross-talk for intravital imaging. 2013 , 110, 3399-404	61
1352	Cellular, subcellular and functional in vivo labeling of the spinal cord using vital dyes. 2013 , 8, 481-90	46
1351	Methods of dendritic spine detection: from Golgi to high-resolution optical imaging. 2013 , 251, 129-40	48
1350	Design of new quantum dot materials for deep tissue infrared imaging. 2013 , 65, 719-31	125
1349	Intravital imaging of autoreactive T cells in living animals. 2013 , 113, 149-68	1
1348	Advances in multiphoton microscopy technology. 2013 , 7, 93-101	293
1347	Functionalized two-photon absorbing diketopyrrolopyrrole-based fluorophores for living cells fluorescent microscopy. 2013 , 24, 942-50	49
1346	Visualizing leukocyte trafficking in the living brain with 2-photon intravital microscopy. 2012 , 6, 67	20
1345	Structural and molecular interrogation of intact biological systems. 2013 , 497, 332-7	1330
1344	Two-photon imaging of spinal cord cellular networks. 2013 , 242, 18-26	25
1343	Encyclopedia of Biophysics. 2013 , 2613-2613	
1342	Revolutionizing Biopharmaceutical Development with Quantitative Multispectral Optoacoustic Tomography (MSOT). 2013 , 211-232	
1341	Utilising Ultrafast Lasers for Multiphoton Biomedical Imaging. 2013 , 251-286	
1340	Photostable fluorescent organic dots with aggregation-induced emission (AIE dots) for noninvasive long-term cell tracing. 2013 , 3, 1150	290

1339	A water soluble probe with near infrared two-photon absorption and polarity-induced fluorescence for cerebral vascular imaging. 2013 , 4, 2833	61
1338	A ratiometric two-photon fluorescent probe reveals reduction in mitochondrial H2S production in Parkinson's disease gene knockout astrocytes. 2013 , 135, 9915-23	334
1337	Encyclopedia of Biophysics. 2013 , 2616-2622	
1336	High-resolution membrane capacitance measurements for the study of exocytosis and endocytosis. 2013 , 8, 1169-83	45
1335	Encyclopedia of Biophysics. 2013 , 2606-2613	
1334	ADVANCED OPTICAL TECHNIQUES TO EXPLORE BRAIN STRUCTURE AND FUNCTION. 2013 , 06, 1230002	17
1333	SeeDB: a simple and morphology-preserving optical clearing agent for neuronal circuit reconstruction. 2013 , 16, 1154-61	620
1332	Probing perceptual decisions in rodents. 2013 , 16, 824-31	183
1331	Oxygen Transport to Tissue XXXIV. 2013 ,	10
1330	Computational design of two-photon fluorescent probes for a zinc ion based on a Salen ligand. 2013 , 52, 5702-13	24
1329	Strong two-photon-induced fluorescence from photostable, biocompatible nitrogen-doped graphene quantum dots for cellular and deep-tissue imaging. 2013 , 13, 2436-41	769
1328	CLARITY for mapping the nervous system. <i>Nature Methods</i> , 2013 , 10, 508-13	21.6 490
1327	Synaptic computation and sensory processing in neocortical layer 2/3. 2013 , 78, 28-48	159
1326	Carbon dots: a safe nanoscale substance for the immunologic system of mice. 2013 , 8, 276	18
1325	Mode-locked red-emitting semiconductor disk laser with sub-250 fs pulses. 2013 , 103, 242101	28
1324	Photobleaching imprinting microscopy: seeing clearer and deeper. 2014 , 127, 288-94	7
1323	Structural and dynamical aspects of skin studied by multiphoton excitation fluorescence microscopy-based methods. 2013 , 50, 586-94	11
1322	Effector T-cell responses in non-lymphoid tissues: insights from in vivo imaging. 2013 , 91, 290-6	21

1321	Two-photon ratiometric fluorescent sensor based on specific biomolecular recognition for selective and sensitive detection of copper ions in live cells. 2013 , 85, 11936-43	61
1320	Probing carrier lifetimes in photovoltaic materials using subsurface two-photon microscopy. 2013 , 3, 2098	58
1319	Computational and experimental characterization of skin mechanics: identifying current challenges and future directions. 2013 , 5, 539-56	52
1318	Quantum dots in bioanalysis: a review of applications across various platforms for fluorescence spectroscopy and imaging. 2013 , 67, 215-52	431
1317	Two-photon photoacoustics ultrasound measurement by a loss modulation technique. 2013 ,	1
1316	An optimized two-photon method for in vivo lung imaging reveals intimate cell collaborations during infection. 2013 ,	
1315	Structured Laser Scanning Two-photon Superresolution Image with Temporal Intensity Modulation. 2013 ,	
1314	Line temporal focusing characteristics in transparent and scattering media. 2013 , 21, 5677-87	29
1313	Extended depth of field microscopy for rapid volumetric two-photon imaging. 2013 , 21, 10095-104	69
1312	Seeing through turbidity with harmonic holography [Invited]. 2013 , 52, 567-78	12
1311	Dual modality endomicroscope with optical zoom capability. 2013 , 4, 1494-503	16
1310	Tri-modal microscopy with multiphoton and optical coherence microscopy/tomography for multi-scale and multi-contrast imaging. 2013 , 4, 1584-94	15
1309	Volumetric imaging and quantification of cytoarchitecture and myeloarchitecture with intrinsic scattering contrast. 2013 , 4, 1978-90	40
1308	Optical fine-needle imaging biopsy of the brain. 2013 , 4, 2846-54	3
1307	Light-sheet microscopy in thick media using scanned Bessel beams and two-photon fluorescence excitation. 2013 , 21, 13824-39	125
1306	Frustrated FRET for high-contrast high-resolution two-photon imaging. 2013 , 21, 14097-108	7
1305	Focusing polychromatic light through strongly scattering media. 2013 , 21, 17299-308	48
1304	All-optical osteotomy to create windows for transcranial imaging in mice. 2013 , 21, 23160-8	9

1303	Imaging neuronal activity using femtosecond laser pulses. 2013 ,	
1302	Label-free multi-photon imaging using a compact femtosecond fiber laser mode-locked by carbon nanotube saturable absorber. 2013 , 4, 2187-95	49
1301	PEGYLATED CONJUGATED OLIGOMERS FOR TARGETED TWO-PHOTON FLUORESCENCE IMAGING OF CANCER CELLS. 2013 , 01, 1340011	
1300	Imaging and tracking of bone marrow-derived immune and stem cells. 2013 , 1052, 57-76	14
1299	Direct trabecular meshwork imaging in porcine eyes through multiphoton gonioscopy. 2013 , 18, 036009	15
1298	Angiotensin II AT2 receptor activation attenuates AT1 receptor-induced increases in the glomerular filtration of albumin: a multiphoton microscopy study. 2013 , 305, F1189-200	39
1297	The anisotropic hyperelastic biomechanical response of the vocal ligament and implications for frequency regulation: a case study. 2013 , 133, 1625-36	13
1296	Review of spectral imaging technology in biomedical engineering: achievements and challenges. 2013 , 18, 100901	171
1295	Multimodal nonlinear optical microscopy improves the accuracy of early diagnosis of squamous intraepithelial neoplasia. 2013 , 18, 036001	14
1294	Real-time suppression of turbidity of biological tissues in motion by three-wave mixing phase-conjugation. 2013 , 18, 111405	2
1293	350-fm side-view optical probe for imaging the murine brain in vivo from the cortex to the hypothalamus. 2013 , 18, 50502	14
1292	Ultrafast turbidity compensation in the optical therapeutic window by three-wave mixing phase conjugation. 2013 , 15, 055204	1
1291	Nonlinear optical properties of organic materials. 2013 , 274-296	0
1290	A novel ratiometric two-photon fluorescent probe for the detection of biothiols in solution and imaging of living cells. 2013 , 8, 2564-8	28
1289	Coherent anti-stokes Raman scattering (CARS) microscopy: a novel technique for imaging the retina. 2013 , 54, 3094-101	11
1288	Synergistic effect of cisplatin and synchrotron irradiation on F98 gliomas growing in nude mice. 2013 , 20, 777-84	7
1287	All-near-infrared multiphoton microscopy interrogates intact tissues at deeper imaging depths than conventional single- and two-photon near-infrared excitation microscopes. 2013 , 18, 106012	13
1286	In vivo single branch axotomy induces GAP-43-dependent sprouting and synaptic remodeling in cerebellar cortex. 2013 , 110, 10824-9	81

1285	Similarity transformed coupled cluster response (ST-CCR) theory--a time-dependent similarity transformed equation-of-motion coupled cluster (STEOM-CC) approach. 2013 , 139, 014110	5
1284	Live-cell analysis of plant reproduction: live-cell imaging, optical manipulation, and advanced microscopy technologies. 2013 , 55, 462-73	21
1283	Ultramicroscopy: light-sheet-based microscopy for imaging centimeter-sized objects with micrometer resolution. 2013 , 2013, 704-13	18
1282	Computational de-scattering for enabling high rate deep imaging of neural activity traces: Simulation study. 2013 ,	
1281	Calcium imaging in temporal focus. 2013 ,	
1280	Water-Soluble Conjugated Polymers for Simultaneous Two-Photon Cell Imaging and Two-Photon Photodynamic Therapy. 2013 , 1, 92-99	48
1279	Imaging of immune cell behavior and function in multiple sclerosis and experimental autoimmune encephalomyelitis. 2013 , 4, 27-35	
1278	Tracking Growing Axons by Particle Filtering in 3D + t Fluorescent Two-Photon Microscopy Images. 2013 , 272-283	2
1277	A theoretical investigation of two typical two-photon pH fluorescent probes. 2013 , 89, 300-9	16
1276	A Multiscale Moving Boundary Model Arising in Cancer Invasion. 2013 , 11, 309-335	29
1275	Be still my beating brain--reduction of brain micromotion during in vivo two-photon imaging. 2013 , 591, 2379-80	3
1274	NON-RESONANT TWO-PHOTON ABSORPTION CONTROL BY TWO TIME-DELAYED LASER PULSES. 2013 , 22, 1350008	3
1273	Adaptive optical two-photon microscopy using autofluorescent guide stars. 2013 , 38, 5075-8	34
1272	Finding the bottom and using it: Offsets and sensitivity in the detection of low intensity values in vivo with 2-photon microscopy. 2014 , 2,	16
1271	Implantable fiber-optic interface for parallel multisite long-term optical dynamic brain interrogation in freely moving mice. 2013 , 3, 3265	32
1270	Porphyryns for Probing Electrical Potential Across Lipid Bilayer Membranes by Second Harmonic Generation. 2013 , 125, 9214-9218	4
1269	Two-photon-based structured illumination microscopy applied for superresolution optical biopsy. 2013 ,	3
1268	Hemodialysis catheter thrombi: visualization and quantification of microstructures and cellular composition. 2013 , 14, 257-63	7

1267	Fluorescence Imaging in Cancerology. 2013 , 2, 3-17	1
1266	Imaging the effects of prostaglandin analogues on cultured trabecular meshwork cells by coherent anti-stokes Raman scattering. 2013 , 54, 5972-80	2
1265	Intranasal Fluorescent Nanocrystals for Longitudinal In Vivo Evaluation of Cerebral Microlesions. 2013 , 1, 93-104	11
1264	Two-photon microscopy imaging of thy1GFP-M transgenic mice: a novel animal model to investigate brain dendritic cell subsets in vivo. 2013 , 8, e56144	20
1263	A multimodal micro-optrode combining field and single unit recording, multispectral detection and photolabeling capabilities. 2013 , 8, e57703	26
1262	Sensing using rare-earth-doped upconversion nanoparticles. 2013 , 3, 331-45	140
1261	Photoacoustic Microscopy with Nonlinear Optical Effects to Visualize Deep Structures with High Spatial Resolution. 2013 , 33, 386-391	
1260	Confocal microscopy for astrocyte in vivo imaging: Recycle and reuse in microscopy. 2013 , 7, 51	22
1259	Imaging the microanatomy of astrocyte-T-cell interactions in immune-mediated inflammation. 2013 , 7, 58	18
1258	Mitochondrial-targeted two-photon fluorescent probes for zinc ions, H ₂ O ₂ , and thiols in living tissues. 2013 , 2013, 323619	16
1257	Advanced Methods in Fluorescence Microscopy. 2013 , 36, 5-17	12
1256	Cutting-Edge Regenerative Medicine Technologies for the Treatment of Heart Valve Calcification. 2013 ,	2
1255	Microstructure Fibers in Biophotonics. 2013 , 77	1
1254	Intravital Microscopy. 2014 , 3959-3972	0
1253	Ureter smooth muscle cell orientation in rat is predominantly longitudinal. 2014 , 9, e86207	5
1252	Visualization of mouse neuronal ganglia infected by Herpes Simplex Virus 1 (HSV-1) using multimodal non-linear optical microscopy. 2014 , 9, e105103	3
1251	A high performance, cost-effective, open-source microscope for scanning two-photon microscopy that is modular and readily adaptable. 2014 , 9, e110475	52
1250	A method to investigate radial glia cell behavior using two-photon time-lapse microscopy in an ex vivo model of spinal cord development. 2014 , 8, 22	7

1249	Six-color intravital two-photon imaging of brain tumors and their dynamic microenvironment. 2014 , 8, 57	47
1248	Extended two-photon microscopy in live samples with Bessel beams: steadier focus, faster volume scans, and simpler stereoscopic imaging. 2014 , 8, 139	63
1247	Contributions of the immune system to the pathophysiology of traumatic brain injury - evidence by intravital microscopy. 2014 , 8, 358	25
1246	Chronic cranial window with access port for repeated cellular manipulations, drug application, and electrophysiology. 2014 , 8, 379	44
1245	Deep brain stimulation macroelectrodes compared to multiple microelectrodes in rat hippocampus. 2014 , 7, 16	16
1244	Putting a finishing touch on GECIs. 2014 , 7, 88	99
1243	Monitoring activity in neural circuits with genetically encoded indicators. 2014 , 7, 97	100
1242	New Techniques of Transgenesis and Imaging: Applications in Neurology and Nephrology. Part I. 2014 , 26, 173-181	1
1241	Optoacoustic Imaging. 2014 , 281-300	0
1240	Tunable Multicolored Femtosecond Pulse Generation Using Cascaded Four-Wave Mixing in Bulk Materials. 2014 , 4, 444-467	5
1239	Intravital imaging of dendritic spine plasticity. 2014 , 3, e944439	2
1238	Multimodal nonlinear microscopy: A powerful label-free method for supporting standard diagnostics on biological tissues. 2014 , 07, 1330008	9
1237	In Vivo Visualization of (Auto)Immune Processes in the Central Nervous System of Rodents. 2016 , 1304, 117-29	8
1236	Assessment of tissue heating under tunable near-infrared radiation. 2014 , 19, 070501	35
1235	Visualizing T Cell Migration in situ. 2014 , 5, 363	20
1234	High-contrast 3D microscopic imaging of deep layers in a biological medium. 2014 ,	
1233	Micron-scale voltage and $[Ca^{2+}]_i$ imaging in the intact heart. 2014 , 5, 451	2
1232	Pixel timing correction in time-lapsed calcium imaging using point scanning microscopy. 2014 , 237, 60-8	5

1231	Correlative intravital imaging of cGMP signals and vasodilation in mice. 2014 , 5, 394	18
1230	3D-PSTD applied to the resolution in time and space of the time reversal of an image transmitted through a scattering medium. 2014 ,	1
1229	Clinical nonlinear laser imaging of human skin: a review. 2014 , 2014, 903589	25
1228	Assembly and characterization of a nonlinear optical microscopy for in vivo and ex vivo tissue imaging. 2014 ,	0
1227	Evaluating collagen morphology and pathological lipid deposition using multiphoton image statistics. 2014 ,	
1226	Interphase fluorescence in situ hybridization signal detection by computing intensity variance along the optical axis. 2014 ,	
1225	Time-resolved multifocal multiphoton microscope for high speed FRET imaging in vivo. 2014 , 39, 6013-6	33
1224	Core-pumped femtosecond Nd: fiber laser at 910 and 935 nm. 2014 , 39, 4404-7	18
1223	Imaging of the Mouse Cochlea with Two-photon Microscopy and Multimode Fiber-based Microendoscopy. 2014 ,	0
1222	Two-photon injection of polaritons in semiconductor microstructures. 2014 , 39, 307-10	6
1221	In vivo fluorescence microscopy via iterative multi-photon adaptive compensation technique. 2014 , 22, 23786-94	27
1220	Multimodal nonlinear optical microscopy with shaped 10 fs pulses. 2014 , 22, 28790-7	24
1219	Non-de-scanned parallel recording two-photon hyperspectral microscopy with high spectral and spatial resolution. 2014 , 5, 338-47	7
1218	Optimal lens design and use in laser-scanning microscopy. 2014 , 5, 1588-609	41
1217	Molecular orientation sensitive second harmonic microscopy by radially and azimuthally polarized light. 2014 , 5, 2231-46	19
1216	In vivo mouse fluorescence imaging for folate-targeted delivery and release kinetics. 2014 , 5, 2662-78	12
1215	Wide field intravital imaging by two-photon-excitation digital-scanned light-sheet microscopy (2p-DSLM) with a high-pulse energy laser. 2014 , 5, 3311-25	14
1214	Nonlinear photoacoustic microscopy via a loss modulation technique: from detection to imaging. 2014 , 22, 525-36	24

1213	Spectral-resolved multifocal multiphoton microscopy with multianode photomultiplier tubes. 2014 , 22, 21368-81	6
1212	Two-photon absorption and sensitivity to DNA of dye molecule-driven CdSe quantum dots. 2014 , 4, 19578	2
1211	Two-photon AgNP/DNA-TP dye nanosensing conjugate for biothiol probing in live cells. 2014 , 139, 6185-91	4
1210	Dinuclear ruthenium(II) complexes as two-photon, time-resolved emission microscopy probes for cellular DNA. 2014 , 53, 3367-71	141
1209	Development of Ultrasound-switchable Fluorescence Imaging Contrast Agents based on Thermosensitive Polymers and Nanoparticles. 2014 , 20,	16
1208	Alginate-coated magnetic nanoparticles for noninvasive MRI of extracellular calcium. 2014 , 27, 774-83	26
1207	Invited review article: Advanced light microscopy for biological space research. 2014 , 85, 101101	17
1206	Real-time interactive two-photon photoconversion of recirculating lymphocytes for discontinuous cell tracking in live adult mice. 2014 , 7, 425-33	40
1205	Mesoscale transcranial spontaneous activity mapping in GCaMP3 transgenic mice reveals extensive reciprocal connections between areas of somatomotor cortex. 2014 , 34, 15931-46	105
1204	In situ label-free cell viability assessment of nucleus pulposus tissue. 2014 , 32, 545-50	2
1203	In vivo two-photon fluorescence microscopy reveals disturbed cerebral capillary blood flow and increased susceptibility to ischemic insults in diabetic mice. 2014 , 20, 816-22	30
1202	Advances in Intravital Microscopy. 2014 ,	2
1201	Intravital multiphoton fluorescence imaging and optical manipulation of spinal cord in mice, using a compact fiber laser system. 2014 , 46, 563-72	9
1200	Recent Developments and Applications of Nanodiamonds as Versatile Bioimaging Agents. 2014 , 61, 67-76	18
1199	Carbon Nanodots: Synthesis, Characterization, and Bioanalytical Applications. 2014 , 135-175	4
1198	Femtosecond mode-locked red AlGaInP-VECSEL. 2014 ,	2
1197	Fluorescent Probes for Analysis and Imaging of Monoamine Oxidase Activity. 2014 , 35, 1269-1274	5
1196	Multiphoton microscopy using frequency-doubled compact femtosecond erbium-doped fiber laser. 2014 ,	

1195	Improvement of lateral resolution and extension of depth of field in two-photon microscopy by a higher-order radially polarized beam. 2014 , 63, 23-32	24
1194	Strategies to overcome photobleaching in algorithm-based adaptive optics for nonlinear in-vivo imaging. 2014 , 19, 16021	6
1193	Improvement of signal detection selectivity and efficiency in two-photon absorption-induced photoacoustic microscopy. 2014 ,	3
1192	Exploring the brain on multiple scales with correlative two-photon and light sheet microscopy. 2014 ,	
1191	Photoacoustic Brain Imaging: from Microscopic to Macroscopic Scales. 2014 , 1,	101
1190	Multispot multiphoton Ca ²⁺ imaging in acute myocardial slices. 2015 , 20, 51016	3
1189	Energy transfer between a biological labelling dye and gold nanorods. 2013 , 2, 015002	21
1188	Improved application of the electrophoretic tissue clearing technology, CLARITY, to intact solid organs including brain, pancreas, liver, kidney, lung, and intestine. 2014 , 14, 48	58
1187	Deep-tissue light delivery via optrode arrays. 2014 , 19, 15006	17
1186	Review of recent developments in stimulated emission depletion microscopy: applications on cell imaging. 2014 , 19, 080901	19
1185	Imaging deep and clear in thick inhomogeneous samples. 2014 ,	
1184	In vivo imaging of neural reactive plasticity after laser axotomy in cerebellar cortex. 2014 ,	
1183	Dinuclear Ruthenium(II) Complexes as Two-Photon, Time-Resolved Emission Microscopy Probes for Cellular DNA. 2014 , 126, 3435-3439	22
1182	Blood-to-Brain Drug Delivery Using Nanocarriers. 2014 , 433-454	7
1181	ELECTRONIC AND ELECTRICAL EFFECTS OF SOLVENTS. 2014 , 649-723	
1180	Femtosecond pump-probe microscopy generates virtual cross-sections in historic artwork. 2014 , 111, 1708-13	40
1179	Recent applications of superresolution microscopy in neurobiology. 2014 , 20, 16-21	22
1178	Highly selective two-photon fluorescent probe for imaging of nitric oxide in living cells. 2014 , 25, 19-23	17

1177	Shedding new light on lipid functions with CARS and SRS microscopy. 2014 , 1841, 1120-9	52
1176	Multispectral fluorescence ultramicroscopy: three-dimensional visualization and automatic quantification of tumor morphology, drug penetration, and antiangiogenic treatment response. 2014 , 16, 1-13	73
1175	Dual mode monitoring probe for mitochondrial viscosity in single cell. 2014 , 190, 685-693	62
1174	Correlative two-photon and light sheet microscopy. 2014 , 66, 268-72	20
1173	Photoluminescent carbon dots directly derived from polyethylene glycol and their application for cellular imaging. 2014 , 71, 87-93	182
1172	Molecular neuroanatomy: a generation of progress. 2014 , 37, 106-23	26
1171	Measurement of three-dimensional anisotropic diffusion by multiphoton fluorescence recovery after photobleaching. 2014 , 42, 555-65	10
1170	Energy transfer in aminonaphthalimide-boron-dipyrromethene (BODIPY) dyads upon one- and two-photon excitation: applications for cellular imaging. 2014 , 9, 797-804	22
1169	One-pot green synthesis of carbon dots by using <i>Saccharum officinarum</i> juice for fluorescent imaging of bacteria (<i>Escherichia coli</i>) and yeast (<i>Saccharomyces cerevisiae</i>) cells. 2014 , 38, 20-7	265
1168	Mapping brain circuit function in vivo using two-photon fluorescence microscopy. 2014 , 77, 492-501	12
1167	Crystal structure, optical properties and biological imaging of two curcumin derivatives. 2014 , 101, 312-317	15
1166	Synthesis and photophysical properties of new s-triazine derivatives containing ADA quadrupolar branches. 2014 , 102, 88-93	9
1165	Longitudinal in vivo two-photon fluorescence imaging. 2014 , 522, 1708-27	19
1164	Designing reaction-based fluorescent probes for selective hydrogen sulfide detection. 2014 , 133, 136-42	87
1163	Rational design of phosphorescent chemodosimeter for reaction-based one- and two-photon and time-resolved luminescent imaging of biothiols in living cells. 2014 , 3, 658-69	54
1162	Metabolic tumor profiling with pH, oxygen, and glucose chemosensors on a quantum dot scaffold. 2014 , 53, 1900-15	51
1161	Imaging hallmarks of cancer in living mice. 2014 , 14, 406-18	146
1160	Chemical analysis of molecular species through turbid medium. 2014 , 86, 1445-51	13

1159	In vivo two-photon calcium imaging in the visual system. 2014 , 2014, 402-16	9
1158	Monitoring synaptic and neuronal activity in 3D with synthetic and genetic indicators using a compact acousto-optic lens two-photon microscope. 2014 , 222, 69-81	45
1157	Chemical imaging of lipid droplets in muscle tissues using hyperspectral coherent Raman microscopy. 2014 , 141, 263-73	26
1156	In vivo imaging in NHP models of malaria: challenges, progress and outlooks. 2014 , 63, 206-15	14
1155	Quinoline-based two-photon fluorescent probe for nitric oxide in live cells and tissues. 2014 , 86, 308-11	79
1154	Laser scanning confocal microscopy: history, applications, and related optical sectioning techniques. 2014 , 1075, 9-47	39
1153	Optical Imaging of Neocortical Dynamics. 2014 ,	6
1152	Two-photon absorption and fluorescence fluoride-sensing properties of N-octyl-3,6-bis[4-(4-(diphenylamino)phenyl)phenyl]-1,4-diketo-pyrrolo[3,4-c]pyrrole. 2014 , 104, 97-101	19
1151	Two-photon targeted patching and electroporation in vivo. 2014 , 2014, 78-85	7
1150	Facile synthesis and intraparticle self-catalytic oxidation of dextran-coated hollow Au-Ag nanoshell and its application for chemo-thermotherapy. 2014 , 8, 467-75	72
1149	DNA replication at the single-molecule level. 2014 , 43, 1201-20	25
1148	Fundamentals of Fluorescence Microscopy. 2014 ,	19
1147	Femtosecond laser writing over silver nanoparticles system embedded in silica using nonlinear microscopy. 2014 , 36, 682-686	11
1146	Blockface histology with optical coherence tomography: a comparison with Nissl staining. 2014 , 84, 524-33	71
1145	Assessing the guest-accessible volume in MOFs using two-photon fluorescence microscopy. 2014 , 50, 289-91	30
1144	Theranostic iridium(III) complexes as one- and two-photon phosphorescent trackers to monitor autophagic lysosomes. 2014 , 53, 12137-41	142
1143	Genetically encoded optochemical probes for simultaneous fluorescence reporting and light activation of protein function with two-photon excitation. 2014 , 136, 15551-8	102
1142	Theranostic Iridium(III) Complexes as One- and Two-Photon Phosphorescent Trackers to Monitor Autophagic Lysosomes. 2014 , 126, 12333-12337	15

1141	A stable frequency comb directly referenced to rubidium electromagnetically induced transparency and two-photon transitions. 2014 , 104, 111104	9
1140	Minimum conditions for the induction of cortical spreading depression in brain slices. 2014 , 112, 2572-9	36
1139	Visual and portable strategy for copper(II) detection based on a striplike poly(thymine)-caged and microwell-printed hydrogel. 2014 , 86, 11263-8	65
1138	"Mixed-charge self-assembled monolayers" as a facile method to design pH-induced aggregation of large gold nanoparticles for near-infrared photothermal cancer therapy. 2014 , 6, 18930-7	43
1137	A small molecule two-photon fluorescent probe for intracellular sodium ions. 2014 , 50, 1309-12	70
1136	Assessment of breast pathologies using nonlinear microscopy. 2014 , 111, 15304-9	119
1135	Light-Induced Remodeling of Physically Crosslinked Hydrogels Using Near-IR Wavelengths. 2014 , 2, 1613-1618	23
1134	Quantitative nonlinear optical assessment of atherosclerosis progression in rabbits. 2014 , 86, 6346-54	3
1133	Noiseless intensity amplification of repetitive signals by coherent addition using the temporal Talbot effect. 2014 , 5, 5163	47
1132	Water-soluble copolymeric materials: switchable NIR two-photon fluorescence imaging agents for living cancer cells. 2014 , 2, 502-510	15
1131	Opposed-view dark-field digital holographic microscopy. 2014 , 5, 728-36	10
1130	CdSe/CdS-quantum rods: fluorescent probes for in vivo two-photon laser scanning microscopy. 2014 , 6, 10413-22	29
1129	Ratiometric two-photon fluorescent probe for quantitative detection of β -galactosidase activity in senescent cells. 2014 , 86, 10001-5	100
1128	A three-photon probe with dual emission colors for imaging of Zn(II) ions in living cells. 2014 , 50, 14378-81	15
1127	Two-photon imaging of Zn ²⁺ dynamics in mossy fiber boutons of adult hippocampal slices. 2014 , 111, 6786-91	27
1126	Intermolecular charge transfer enhances two-photon absorption in yellow fluorescent protein. 2014 , 16, 5958-64	36
1125	Two-photon fluorescent Bombyx mori silk by molecular recognition functionalization. 2014 , 2, 2136-2143	27
1124	Poly β -cyclodextrin inclusion-induced formation of two-photon fluorescent nanomicelles for biomedical imaging. 2014 , 50, 8398-401	31

1123	Poly β -cyclodextrin/TPdye nanomicelle-based two-photon nanoprobe for caspase-3 activation imaging in live cells and tissues. 2014 , 86, 11440-50	37
1122	Poly(Acrylic Acid)-Capped and Dye-Loaded Graphene Oxide-Mesoporous Silica: A Nano-Sandwich for Two-Photon and Photoacoustic Dual-Mode Imaging. 2014 , 31, 1060-1066	20
1121	Dual-color imaging of cytosolic and mitochondrial zinc ions in live tissues with two-photon fluorescent probes. 2014 , 12, 3406-12	22
1120	A ratiometric fluorescent molecular probe with enhanced two-photon response upon Zn ²⁺ binding for in vitro and in vivo bioimaging. 2014 , 5, 3469-3474	63
1119	Fluorescence microscopy. 2014 , 2014, pdb.top071795	130
1118	Observation of molecular diffusion in polyelectrolyte-wrapped SERS nanoprobe. 2014 , 30, 8931-7	13
1117	Red emissive two-photon probe for real-time imaging of mitochondria trafficking. 2014 , 86, 5638-41	56
1116	Genetically encoded molecular probes to visualize and perturb signaling dynamics in living biological systems. 2014 , 127, 1151-60	38
1115	Molecular imaging of ischemia and reperfusion in vivo with mitochondrial autofluorescence. 2014 , 86, 5024-31	23
1114	Computational design of two-photon fluorescent probes for intracellular free zinc ions. 2014 , 118, 10101-10	15
1113	A Two-Photon Probe for Near-Membrane Zinc Ions. 2014 , 3, 1070-1073	14
1112	Symmetry- and solvent-dependent photophysics of fluorenes containing donor and acceptor groups. 2014 , 118, 5228-37	26
1111	Shape-Dependent Two-Photon Photoluminescence of Single Gold Nanoparticles. 2014 , 118, 13904-13911	84
1110	All-optical thermometry and thermal properties of the optically detected spin resonances of the NV(-) center in nanodiamond. 2014 , 14, 4989-96	111
1109	Nanoparticles for photothermal therapies. 2014 , 6, 9494-530	1205
1108	Promising two-photon probes for in vivo detection of β -amyloid deposits. 2014 , 50, 11694-7	21
1107	A theoretical investigation on two latest two-photon pH fluorescent probes. 2014 , 293, 50-56	10
1106	Bright emission from a random Raman laser. 2014 , 5, 4356	73

1105	The spatiotemporal cellular dynamics of lung immunity. 2014 , 35, 379-86	18
1104	Recent development of two-photon fluorescent probes for bioimaging. 2014 , 12, 4550-66	155
1103	Highly sensitive quinoline-based two-photon fluorescent probe for monitoring intracellular free zinc ions. 2014 , 86, 6548-54	65
1102	Through-skull fluorescence imaging of the brain in a new near-infrared window. 2014 , 8, 723-730	642
1101	Conjugated-polymer-based red-emitting nanoparticles for two-photon excitation cell imaging with high contrast. 2014 , 30, 7623-7	46
1100	WITHDRAWN: Crystal structure and nonlinear optical properties of centrosymmetric Schiff base material: 4-chloro-4'-nitro benzylideneaniline. 2014 ,	
1099	Toward functional screening of cardioactive and cardiotoxic drugs with zebrafish in vivo using pseudodynamic three-dimensional imaging. 2014 , 86, 2213-20	14
1098	Optical clearing of fixed brain samples using SeeDB. 2014 , 66, Unit 2.22.	35
1097	Aggregation-induced emission: the whole is more brilliant than the parts. 2014 , 26, 5429-79	2216
1096	Real-time optical diagnosis for surgical margin in low rectal cancer using multiphoton microscopy. 2014 , 28, 36-41	26
1095	Recent Advances on the Synthesis of Metal Quantum Nanoclusters and Their Application for Bioimaging. 2014 , 20, 45-56	22
1094	Structure-dependent photothermal anticancer effects of carbon-based photoresponsive nanomaterials. 2014 , 35, 4058-65	53
1093	Fluorescent silver nanoclusters stabilized by DNA scaffolds. 2014 , 50, 9800-15	137
1092	Nanoprobes for super-resolution fluorescence imaging at the nanoscale. 2014 , 57, 100-106	24
1091	Plasmonic-enhanced two-photon fluorescence with single gold nanoshell. 2014 , 57, 1038-1045	4
1090	Simplified method to perform CLARITY imaging. 2014 , 9, 19	34
1089	'Smart' gold nanoshells for combined cancer chemotherapy and hyperthermia. 2014 , 9, 025012	33
1088	Visualizing S1P-directed cellular egress by intravital imaging. 2014 , 1841, 738-44	2

1087	Noninvasive two-photon microscopy imaging of mouse retina and retinal pigment epithelium through the pupil of the eye. 2014 , 20, 785-9	82
1086	Ratiometric fluorescence probe for two-photon bioimaging of Cr ³⁺ in living cells. 2014 , 55, 4075-4077	6
1085	Multiphoton excited fluorescent materials for frequency upconversion emission and fluorescent probes. 2014 , 26, 5400-28	66
1084	Two-photon fluorescent probes for metal ions in live tissues. 2014 , 53, 1794-803	65
1083	Microglia in Health and Disease. 2014 ,	9
1082	Photoreconfigurable polymers for biomedical applications: chemistry and macromolecular engineering. 2014 , 15, 3474-94	63
1081	Two-photon probes for metal ions based on phenylaza[18]crown-6 ethers and 1,2,3-triazoles as linkers. 2014 , 15, 2436-9	1
1080	Two-photon probe for Cu ²⁺ with an internal reference: quantitative estimation of Cu ²⁺ in human tissues by two-photon microscopy. 2014 , 86, 5353-9	66
1079	An ab initio analysis of the structure of L-tryptophan tautomers in microhydrated environments, in water and in hydrophobic solvents. 2014 , 1034, 17-25	4
1078	Large-area surface-enhanced Raman spectroscopy imaging of brain ischemia by gold nanoparticles grown on random nanoarrays of transparent boehmite. 2014 , 8, 5622-32	57
1077	Two-photon graphene oxide/aptamer nanosensing conjugate for in vitro or in vivo molecular probing. 2014 , 86, 3548-54	89
1076	Present and future of glass-ionomers and calcium-silicate cements as bioactive materials in dentistry: biophotonics-based interfacial analyses in health and disease. 2014 , 30, 50-61	72
1075	Ratiometric and selective two-photon fluorescent probe based on PET-ICT for imaging Zn ²⁺ in living cells and tissues. 2014 , 25, 93-98	7
1074	Micelle/Silica Co-protected Conjugated Polymer Nanoparticles for Two-Photon Excited Brain Vascular Imaging. 2014 , 26, 1874-1880	58
1073	High-speed two-photon calcium imaging of neuronal population activity using acousto-optic deflectors. 2014 , 2014, 618-29	6
1072	Investigation of photophysical properties of new branched compounds with triazine and benzimidazole units. 2014 , 38, 3042	11
1071	Two distinct layer-specific dynamics of cortical ensembles during learning of a motor task. 2014 , 17, 987-94	95
1070	A ratiometric two-photon fluorescent probe for cysteine and homocysteine in living cells. 2014 , 201, 520-525	37

1069	A two-photon mitotracker based on a naphthalimide fluorophore: Synthesis, photophysical properties and cell imaging. 2014 , 25, 1001-1005	21
1068	In vivo two-photon microscopy of the hippocampus using glass plugs. 2014 , 5, 1700-8	15
1067	Advanced CLARITY for rapid and high-resolution imaging of intact tissues. 2014 , 9, 1682-97	567
1066	A novel Zn ²⁺ complex as the ratiometric two-photon fluorescent probe for biological Cd ²⁺ detection. 2014 , 101, 30-37	24
1065	Quantitative evaluation of mechanical properties in tissue-engineered auricular cartilage. 2014 , 20, 17-27	25
1064	Dynamic multiphoton microscopy: focusing light on acute kidney injury. 2014 , 29, 334-42	24
1063	An orthotopic glioblastoma mouse model maintaining brain parenchymal physical constraints and suitable for intravital two-photon microscopy. 2014 ,	21
1062	Multimodal optical microscopy methods reveal polyp tissue morphology and structure in Caribbean reef building corals. 2014 , e51824	6
1061	Two-photon Absorption of Lanthanide Complexes: from Fundamental Aspects to Biphotonic Imaging Applications. 2014 , 197-230	7
1060	Multimodal Morphochemical Tissue Imaging. 2014 , 147-178	0
1059	Nonlinear optical microscopy signal processing strategies in cancer. 2014 , 13, 67-76	22
1058	Laser nanosurgery of cerebellar axons in vivo. 2014 , e51371	4
1057	Time-reversal optical focusing for biophotonics applications. 2014 ,	
1056	Time-resolved multicolor two-photon excitation fluorescence microscopy of cells and tissues. 2014 ,	
1055	Adaptive optics two photon microscopy with direct wavefront sensing using autofluorescent guide-stars. 2014 ,	1
1054	An implantable window system for chronic two-photon microscopy on mouse organs. 2014 ,	
1053	[Nonlinear Microscopy in Ophthalmology: Principles and Pathbreaking Applications]. 2015 , 232, 1365-73	1
1052	Noninvasive, in vivo imaging of subcortical mouse brain regions with 1.7 μ m optical coherence tomography. 2015 , 40, 4911-4	78

1051	Red emissive AIE nanodots with high two-photon absorption efficiency at 1040 nm for deep-tissue in vivo imaging. 2015 , 6, 3783-94	54
1050	A simple optical clearing method for tissue block. 2015 ,	1
1049	Multi-channel fiber photometry for population neuronal activity recording. 2015 , 6, 3919-31	59
1048	In Vivo Imaging of Drug Action. 2015 , 465-501	1
1047	Improved two-photon imaging of living neurons in brain tissue through temporal gating. 2015 , 6, 4027-36	9
1046	Rapid imaging of surgical breast excisions using direct temporal sampling two photon fluorescent lifetime imaging. 2015 , 6, 4317-25	26
1045	Essential Basics of Light-Matter Interaction in Biophotonics. 2015 , 57-198	
1044	- Quantum Chemical Prospective of Open-Shell Carbon Nanomaterials for Nonlinear Optical Applications. 2015 , 832-847	
1043	Analog time-reversed ultrasonically encoded light focusing inside scattering media with a 33,000 \times optical power gain. 2015 , 5, 8896	7
1042	Neurophotonics. 2015 , 1-27	
1041	Scattering of Sculpted Light in Intact Brain Tissue, with implications for Optogenetics. 2015 , 5, 11501	22
1040	Full-color structured illumination optical sectioning microscopy. 2015 , 5, 14513	28
1039	In Vivo Imaging of Glial and Immune Cell Responses in Central Nervous System Injury and Disease. 2015 , 21-38	
1038	Three-photon luminescence of gold nanorods and its applications for high contrast tissue and deep in vivo brain imaging. 2015 , 5, 251-66	68
1037	Photoacoustic computed microscopy. 2014 , 4, 4960	20
1036	Measurement of the Nucleus Area and Nucleus/Cytoplasm and Mitochondria/Nucleus Ratios in Human Colon Tissues by Dual-Colour Two-Photon Microscopy Imaging. 2015 , 5, 18521	22
1035	Compact Wireless Microscope for In-Situ Time Course Study of Large Scale Cell Dynamics within an Incubator. 2015 , 5, 18483	20
1034	Intravital laser-scanning microscopy for biomedical research. 2015 ,	

1033	Novel Mn ₃ [Co(CN) ₆] ₂ @SiO ₂ @Ag Core-Shell Nanocube: Enhanced Two-Photon Fluorescence and Magnetic Resonance Dual-Modal Imaging-Guided Photothermal and Chemo-therapy. 2015 , 11, 5956-67	53
1032	Future role of MR elastography in tissue engineering and regenerative medicine. 2015 , 9, 481-7	5
1031	Cyclometalated Iridium(III) Complexes as Two-Photon Phosphorescent Probes for Specific Mitochondrial Dynamics Tracking in Living Cells. 2015 , 21, 12000-10	55
1030	Non-linear imaging and characterization of atherosclerotic arterial tissue using combined SHG and FLIM microscopy. 2015 , 8, 347-56	14
1029	High-Resolution Multi-Photon Imaging of Morphological Structures of <i>Caenorhabditis elegans</i> . 2015 , 64, 11.19.1-11	3
1028	Polarization second harmonic generation microscopy provides quantitative enhanced molecular specificity for tissue diagnostics. 2015 , 8, 730-9	26
1027	Conformational Change of Self-Assembled DNA Nanotubes Induced by Two-Photon Excitation. 2015 , 11, 4090-6	17
1026	Two-Photon Probes for Lysosomes and Mitochondria: Simultaneous Detection of Lysosomes and Mitochondria in Live Tissues by Dual-Color Two-Photon Microscopy Imaging. 2015 , 10, 2240-9	16
1025	Fast spatial beam shaping by acousto-optic diffraction for 3D non-linear microscopy. 2015 , 23, 28191-205	37
1024	Label-free Linear and Nonlinear Spectroscopic Imaging in Biology and Medicine. 2015 , 1-29	
1023	Fluorescence Imaging for Biomedical Analysis. 2015 , 1-18	
1022	Intravital imaging - dynamic insights into natural killer T cell biology. 2015 , 6, 240	15
1021	Spatial information in large-scale neural recordings. 2014 , 8, 172	5
1020	Recapitulating the Tumor Ecosystem Along the Metastatic Cascade Using 3D Culture Models. 2015 , 5, 170	21
1019	Two-Photon Fluorescence Microscopy for Determination of the Riboflavin Concentration in the Anterior Corneal Stroma When Using the Dresden Protocol. 2015 , 56, 6740-6	8
1018	Combined cancer photothermal-chemotherapy based on doxorubicin/gold nanorod-loaded polymersomes. 2015 , 5, 345-56	153
1017	Interband transition enhanced third harmonic generation from nanoplasmonic gold?. 2015 , 5, 2217	18
1016	Non-degenerate multiphoton microscopy for deep brain imaging. 2015 ,	

1015	Two-photon microscopy allows imaging and characterization of cochlear microvasculature in vivo. 2015 , 2015, 154272	7
1014	. 2015 ,	5
1013	History and Present Status of Micro- and Nano-Imaging Analysis. 2015 , 67-124	
1012	High resolution imaging beyond the acoustic diffraction limit in deep tissue via ultrasound-switchable NIR fluorescence. 2014 , 4, 4690	19
1011	Three-photon-excited luminescence from unsymmetrical cyanostilbene aggregates: morphology tuning and targeted bioimaging. 2015 , 9, 4796-805	40
1010	New insights and system designs for temporally focused multiphoton optogenetics. 2015 ,	
1009	Shaping field for deep tissue microscopy. 2015 ,	
1008	Ex vivo label-free microscopy of head and neck cancer patient tissues. 2015 ,	4
1007	Cyanine fluorophores for cellular protection against ROS in stimulated macrophages and two-photon ROS detection. 2015 , 13, 7307-12	13
1006	Redox imaging using genetically encoded redox indicators in zebrafish and mice. 2015 , 396, 511-22	11
1005	Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy. 2015 , 115, 10816-906	902
1004	Preparation of aggregation-induced emission dots for long-term two-photon cell imaging. 2015 , 3, 3091-3097	32
1003	Optogenetics. 2015 ,	10
1002	Scalable and DiI-compatible optical clearance of the mammalian brain. 2015 , 9, 19	116
1001	Optical dissection of brain circuits with patterned illumination through the phase modulation of light. 2015 , 241, 66-77	36
1000	Fluorescent Proteins for Neuronal Imaging. 2015 , 57-96	2
999	Development of Imidazoline-2-Thiones Based Two-Photon Fluorescence Probes for Imaging Hypochlorite Generation in a Co-Culture System. 2015 , 127, 4972-4976	38
998	Multiphoton Process in Nanofabrication and Microscopy Imaging. 2015 , 1-38	

997	A mitochondrial targeted two-photon iridium(III) phosphorescent probe for selective detection of hypochlorite in live cells and in vivo. 2015 , 53, 285-95	104
996	Miniature microscopes for large-scale imaging of neuronal activity in freely behaving rodents. 2015 , 32, 141-7	56
995	Improvement of the spatial resolution in multiphoton microscopy by saturated excitation of fluorescence. 2015 ,	
994	Single particle tracking through highly scattering media with multiplexed two-photon excitation. 2015 ,	3
993	Characterization of atherosclerotic arterial tissue using combined SHG and FLIM microscopy. 2015 ,	
992	Visible-wavelength two-photon excitation microscopy. 2015 ,	
991	Non-linear imaging and characterization of atherosclerotic arterial tissue using combined SHG and FLIM microscopy. 2015 ,	
990	Design and performance of an ultra-flexible two-photon microscope for in vivo research. 2015 , 6, 4228-37	35
989	A Two-Photon Ratiometric Fluorescent Probe for Imaging Carboxylesterase 2 in Living Cells and Tissues. 2015 , 7, 28474-81	82
988	Sub-40fs, 1060-nm Yb-fiber laser enhances penetration depth in nonlinear optical microscopy of human skin. 2015 , 20, 120501	17
987	subcellular resolution optical imaging in the lung reveals early metastatic proliferation and motility. 2015 , 4,	42
986	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. 2015 , 2, 032004	106
985	Full-field optical coherence tomography for tissue imaging. 2015 ,	1
984	A practical method for monitoring FRET-based biosensors in living animals using two-photon microscopy. 2015 , 309, C724-35	24
983	Polarization microscopy for characterizing fiber orientation of ocular tissues. 2015 , 6, 4705-18	59
982	Unprecedentedly High Tissue Penetration Capability of Co-Assembled Nanosystems for Two-Photon Fluorescence Imaging In Vivo. 2015 , 3, 646-651	24
981	MEMS based fiber optical microendoscopes. 2015 , 37, 41-53	8
980	Large-scale recording of astrocyte activity. 2015 , 32, 95-106	43

- 979 Luminescent probes for the bioimaging of small anionic species in vitro and in vivo. **2015**, 44, 4547-95 283
- 978 Label-free biomedical imaging of lipids by stimulated Raman scattering microscopy. **2015**, 109, 30.3.1-30.3.17 18
- 977 Recent Progress on the Development of Chemosensors for Gases. **2015**, 115, 7944-8000 548
- 976 Lab-on-a-brain: implantable micro-optical fluidic devices for neural cell analysis in vivo. **2014**, 4, 6721 23
- 975 Dual-functional analogous cis-platinum complex with high antitumor activities and two-photon bioimaging. **2015**, 54, 2177-80 11
- 974 Nonlinear Optical Properties of Thiolate-Protected Gold Clusters. **2015**, 119, 6221-6226 50
- 973 One-photon and two-photon sensing of biothiols using a bis-pyrene-Cu(II) ensemble and its application to image GSH in the cells and tissues. **2015**, 87, 3308-13 85
- 972 X-Ray Excited Luminescence Chemical Imaging of Bacterial Growth on Surfaces Implanted in Tissue. **2015**, 4, 903-10 10
- 971 Two-photon brightness of azobenzene photoswitches designed for glutamate receptor optogenetics. **2015**, 112, E776-85 74
- 970 Enhancement of single particle rare earth doped NaYF₄: Yb, Er emission with a gold shell. **2015**, 26, 025101 14
- 969 A high speed multifocal multiphoton fluorescence lifetime imaging microscope for live-cell FRET imaging. **2015**, 6, 277-96 85
- 968 Live-cell imaging for the assessment of the dynamics of autophagosome formation: focus on early steps. **2015**, 75, 54-60 11
- 967 A cysteamine-selective two-photon fluorescent probe for ratiometric bioimaging. **2015**, 51, 2407-10 34
- 966 Three-dimensional reconstruction of corticospinal tract using one-photon confocal microscopy acquisition allows detection of axonal disruption in spinal cord injury. **2015**, 133, 113-24 10
- 965 Conjugated Polycyanines: A New Class of Materials with Large Third-Order Optical Nonlinearities. **2015**, 3, 900-906 30
- 964 Development of imidazoline-2-thiones based two-photon fluorescence probes for imaging hypochlorite generation in a co-culture system. **2015**, 54, 4890-4 195
- 963 Two-photon imaging with longer wavelength excitation in intact Arabidopsis tissues. **2015**, 252, 1231-40 39
- 962 Novel in vivo techniques to visualize kidney anatomy and function. **2015**, 88, 44-51 41

961	2-Photon excitation fluorescence microscopy enables deeper high-resolution imaging of voltage and Ca(2+) in intact mice, rat, and rabbit hearts. 2015 , 8, 112-23	14
960	A Golgi-localized two-photon probe for imaging zinc ions. 2015 , 51, 12099-102	38
959	Listen to the chemical and histological information in biological tissue. 2015 , 26, 395-400	0
958	Stabilizing 3D in vivo intravital microscopy images with an iteratively refined soft-tissue model for immunology experiments. 2015 , 64, 246-60	4
957	Ultraviolet light-mediated drug delivery: Principles, applications, and challenges. 2015 , 219, 31-42	108
956	Biophotonics for assessing breast cancer. 2015 , 175-214	
955	Silica shelled and block copolymer encapsulated red-emissive AIE nanoparticles with 50% quantum yield for two-photon excited vascular imaging. 2015 , 51, 13416-9	40
954	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as in Vivo Two-Photon Oxygen Sensors. 2015 , 137, 9832-42	88
953	Direct imaging of biological sulfur dioxide derivatives in vivo using a two-photon phosphorescent probe. 2015 , 63, 128-36	47
952	Towards a comprehensive understanding of brain machinery by correlative microscopy. 2015 , 20, 61105	9
951	Polarizable Embedded RI-CC2 Method for Two-Photon Absorption Calculations. 2015 , 11, 3669-78	11
950	High-resolution in vivo imaging of mouse brain through the intact skull. 2015 , 112, 9236-41	99
949	Sensitive and rapid detection of endogenous hydrogen sulfide distributing in different mouse viscera via a two-photon fluorescent probe. 2015 , 896, 128-36	24
948	Spectroscopic Imaging. 2015 , 69, 339-384	4
947	Neurophotonics: optical methods to study and control the brain. 2015 , 58, 345-364	26
946	Biocompatible Green and Red Fluorescent Organic Dots with Remarkably Large Two-Photon Action Cross Sections for Targeted Cellular Imaging and Real-Time Intravital Blood Vascular Visualization. 2015 , 7, 14965-74	77
945	New Techniques in Systems Neuroscience. 2015 ,	2
944	Raman Scattering and Other Multi-photon Processes. 2015 , 513-547	

943	Fluorescence. 2015 , 225-296	
942	Self-assembled Monolayer Mediated Surface Environment Modification of Poly(vinylpyrrolidone)-Coated Hollow Au-Ag Nanoshells for Enhanced Loading of Hydrophobic Drug and Efficient Multimodal Therapy. 2015 , 7, 12789-96	7
941	Optogenetic Sensors for Monitoring Intracellular Chloride. 2015 , 159-183	1
940	Neuronal hyperactivity--A key defect in Alzheimer's disease?. 2015 , 37, 624-32	109
939	Super-resolution two-photon microscopy via scanning patterned illumination. 2015 , 91, 042703	24
938	A method for long-term live imaging of tissue macrophages in adipose tissue explants. 2015 , 308, E1023-33	29
937	Direct wavefront sensing for high-resolution in vivo imaging in scattering tissue. 2015 , 6, 7276	144
936	Optical imaging probes for biomolecules: an introductory perspective. 2015 , 44, 4494-500	105
935	Oxygen Sensing Difluoroboron Dinaphthoylemethane Polylactide. 2015 , 48, 2967-2977	102
934	Highly-efficient entangled two-photon absorption with the assistance of plasmon nanoantenna. 2015 , 48, 115503	11
933	Recent advances in silicon-based neural microelectrodes and microsystems: a review. 2015 , 215, 300-315	63
932	Simultaneous recording of fluorescence and electrical signals by photometric patch electrode in deep brain regions in vivo. 2015 , 113, 3930-42	5
931	Computational modeling of STED microscopy through multiple biological cells under one- and two-photon excitation. 2015 ,	1
930	Detection of morphologic alterations in rectal carcinoma following preoperative radiochemotherapy based on multiphoton microscopy imaging. 2015 , 15, 142	7
929	Comprehensive imaging of cortical networks. 2015 , 32, 115-23	70
928	Glucagon-Secreting Alpha Cell Selective Two-Photon Fluorescent Probe TP- β For Live Pancreatic Islet Imaging. 2015 , 137, 5355-62	44
927	High-resolution in vivo optical imaging of stroke injury and repair. 2015 , 1623, 174-92	26
926	Novel imaging technologies for characterization of microbial extracellular polysaccharides. 2015 , 6, 525	8

925	Modeling of tissue heating under tunable near IR radiation. 2015,	
924	Engineering a FRET strategy to achieve a ratiometric two-photon fluorescence response with a large emission shift and its application to fluorescence imaging. 2015, 6, 2360-2365	95
923	Five-Photon Absorption and Selective Enhancement of Multiphoton Absorption Processes. 2015, 2, 572-577	12
922	Solvent dependence of two-photon absorption spectra of the enhanced green fluorescent protein (eGFP) chromophore. 2015, 630, 32-36	3
921	Tracing engineered nanomaterials in biological tissues using coherent anti-Stokes Raman scattering (CARS) microscopy - A critical review. 2015, 9, 928-39	18
920	Multiphoton microscopy in brain imaging. 2015,	
919	Optical coherence tomography visualizes neurons in human entorhinal cortex. 2015, 2, 015004	42
918	Fluorescent porous carbon nanocapsules for two-photon imaging, NIR/pH dual-responsive drug carrier, and photothermal therapy. 2015, 53, 117-26	95
917	Cellular imaging in rheumatic diseases. 2015, 11, 357-67	13
916	. 2015, 21, 376-391	17
915	Two-photon responsive metal-organic framework. 2015, 137, 4026-9	159
914	Multiphoton excitation of fluorescent probes. 2015, 2015, 250-8	13
913	Photoluminescence imaging of Zn(2+) in living systems. 2015, 44, 4517-46	178
912	Merging advanced technologies with classical methods to uncover dendritic spine dynamics: A hot spot of synaptic plasticity. 2015, 96, 1-13	12
911	Functionalization of graphene oxide nanostructures improves photoluminescence and facilitates their use as optical probes in preclinical imaging. 2015, 7, 10410-20	38
910	Cardiovascular Imaging. 2015,	1
909	Small-molecule two-photon probes for bioimaging applications. 2015, 115, 5014-55	719
908	A supramolecular two-photon-active hydrogel platform for direct bioconjugation under near-infrared radiation. 2015, 3, 1313-1320	8

907	Four-wave mixing microscopy: a high potential nonlinear imaging method. 2015,	
906	Real-time visualization of melanin granules in normal human skin using combined multiphoton and reflectance confocal microscopy. 2015, 31, 141-8	4
905	Two-Photon Absorbing Dyes with Minimal Autofluorescence in Tissue Imaging: Application to in Vivo Imaging of Amyloid- β Plaques with a Negligible Background Signal. 2015, 137, 6781-9	154
904	Development of targetable two-photon fluorescent probes to image hypochlorous Acid in mitochondria and lysosome in live cell and inflamed mouse model. 2015, 137, 5930-8	394
903	Elucidating the relationship between superoxide anion levels and lifespan using an enhanced two-photon fluorescence imaging probe. 2015, 51, 9710-3	30
902	In vivo multi-photon luminescence imaging of cerebral vasculature and blood-brain barrier integrity using gold nanoparticles. 2015, 3, 2935-2938	19
901	Multiple functional nanoprobe for contrast-enhanced bimodal cellular imaging and targeted therapy. 2015, 87, 4448-54	63
900	Biocompatible Nanoparticles Based on Diketo-Pyrrolo-Pyrrole (DPP) with Aggregation-Induced Red/NIR Emission for In Vivo Two-Photon Fluorescence Imaging. 2015, 25, 2857-2866	194
899	Second-harmonic generation microscopy for assessment of mesenchymal stem cell-seeded acellular dermal matrix in wound-healing. 2015, 53, 659-68	38
898	Red-emitting DPSB-based conjugated polymer nanoparticles with high two-photon brightness for cell membrane imaging. 2015, 7, 6754-63	44
897	Surface-Enhanced Two-Photon Excitation Fluorescence of Various Fluorophores Evaluated Using a Multiphoton Microscope. 2015, 33, 3446-3452	
896	Water-soluble hyaluronic acid-hybridized polyaniline nanoparticles for effectively targeted photothermal therapy. 2015, 3, 3767-3776	78
895	Ultralow-threshold multiphoton-pumped lasing from colloidal nanoplatelets in solution. 2015, 6, 8513	84
894	Incoherent structured illumination improves optical sectioning and contrast in multiphoton super-resolution microscopy. 2015, 23, 5327-34	14
893	In vivo neuroimaging through the highly scattering tissue via iterative multi-photon adaptive compensation technique. 2015, 23, 6145-50	24
892	Super-resolution endoscopy for real-time wide-field imaging. 2015, 23, 16803-11	28
891	Sympathetic neuro-adipose connections mediate leptin-driven lipolysis. 2015, 163, 84-94	243
890	Optimizing and extending light-sculpting microscopy for fast functional imaging in neuroscience. 2015, 6, 353-68	11

889	Intravital fluorescence imaging of mouse brain using implantable semiconductor devices and epi-illumination of biological tissue. 2015 , 6, 1553-64	24
888	Periscope for noninvasive two-photon imaging of murine retina in vivo. 2015 , 6, 3352-61	19
887	Numerical study of multi-conjugate large area wavefront correction for deep tissue microscopy. 2015 , 23, 7463-70	23
886	Ultra-large field-of-view two-photon microscopy. 2015 , 23, 13833-47	73
885	Compressive imaging in scattering media. 2015 , 23, 14424-33	79
884	Axial range of conjugate adaptive optics in two-photon microscopy. 2015 , 23, 20849-57	17
883	On the Nature of an Extended Stokes Shift in the mPlum Fluorescent Protein. 2015 , 119, 13052-62	24
882	Miniaturized fiber-coupled confocal fluorescence microscope with an electrowetting variable focus lens using no moving parts. 2015 , 40, 2553-6	34
881	Resolution enhancement of two-photon microscopy via intensity-modulated laser scanning structured illumination. 2015 , 54, 2309-17	14
880	A novel AgNP/DNA/TPdye conjugate-based two-photon nanoprobe for GSH imaging in cell apoptosis of cancer tissue. 2015 , 51, 16810-2	26
879	Two-photon probes for biomedical imaging. 2015 , 71, 8219-8249	13
878	Video-rate two-photon excited fluorescence lifetime imaging system with interleaved digitization. 2015 , 40, 3296-9	14
877	Shaping field for 3D laser scanning microscopy. 2015 , 40, 3300-3	6
876	Modeling focusing Gaussian beams in a turbid medium with Monte Carlo simulations. 2015 , 23, 8699-705	20
875	For3D: Full organ reconstruction in 3D, an automatized tool for deciphering the complexity of lymphoid organs. 2015 , 424, 32-42	10
874	Nanocrystal Size and Quantum Yield in the Upconversion of Green to Violet Light with CdSe and Anthracene Derivatives. 2015 , 27, 7503-7507	83
873	Protonation and Trapping of a Small pH-Sensitive Near-Infrared Fluorescent Molecule in the Acidic Tumor Environment Delineate Diverse Tumors in Vivo. 2015 , 12, 4237-46	26
872	Compact fixed wavelength femtosecond oscillators for multi-photon imaging. 2015 ,	0

871	3D Data Mapping and Real-Time Experiment Control and Visualization in Brain Slices. 2015 , 109, 1521-7	3
870	Aggregation-Induced Emission: Together We Shine, United We Soar!. 2015 , 115, 11718-940	4745
869	Two-photon absorption cross sections within equation-of-motion coupled-cluster formalism using resolution-of-the-identity and Cholesky decomposition representations: Theory, implementation, and benchmarks. 2015 , 142, 064118	48
868	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. 2015 , 20, 101202	16
867	Influence of multiple scattering and absorption on the full scattering profile and the isobaric point in tissue. 2015 , 20, 56010	7
866	Deep and high-resolution three-dimensional tracking of single particles using nonlinear and multiplexed illumination. 2015 , 6, 7874	55
865	Spectral behavior of second harmonic signals from organic and non-organic materials in multiphoton microscopy. 2015 , 5, 084903	10
864	Compact multiphoton microscopy system based on frequency-doubled femtosecond erbium-doped fiber laser. 2015 ,	
863	Sensing the Whole Body and Clinical Diagnostics. 2015 , 677-717	
862	Nuclear physics: Sometimes Rays come in twos. 2015 , 526, 330-1	1
861	Sculpted Light Microscopy for High-Speed Imaging of Neuronal Activity. 2015 ,	
860	Picosecond pulse amplification up to a peak power of 42 W by a quantum-dot tapered optical amplifier and a mode-locked laser emitting at 1.26 μ m. 2015 , 40, 395-8	14
859	Structured illumination microscopy. 2015 , 7, 241	82
858	NIR-emitting molecular-based nanoparticles as new two-photon absorbing nanotools for single particle tracking. 2015 ,	1
857	An optical probe implanted in conventional hypodermic needle for minimum invasive optical diagnosis. 2015 ,	
856	A theoretical study of a series of novel two-photon nitric oxide (NO) fluorescent probes based on BODIPY. 2015 , 39, 8342-8355	9
855	Near-IR Two-Photon Fluorescent Sensor for K(+) Imaging in Live Cells. 2015 , 7, 17565-8	41
854	STED microscopy for nanoscale imaging in living brain slices. 2015 , 88, 57-66	34

853	Two-Photon Sensing and Imaging of Endogenous Biological Cyanide in Plant Tissues Using Graphene Quantum Dot/Gold Nanoparticle Conjugate. 2015 , 7, 19509-15	47
852	A pragmatic guide to multiphoton microscope design. 2015 , 7, 276-378	23
851	Feedback-based wavefront shaping. 2015 , 23, 12189-206	210
850	Guidestar-assisted wavefront-shaping methods for focusing light into biological tissue. 2015 , 9, 563-571	300
849	Deep two-photon brain imaging with a red-shifted fluorometric Ca ²⁺ indicator. 2015 , 112, 11377-82	73
848	Multifunctional diagnostic, nanothermometer, and photothermal nano-devices. 2015 ,	
847	Two-photon-like microscopy with orders-of-magnitude lower illumination intensity via two-step fluorescence. 2015 , 6, 8184	9
846	In vivo calcium imaging of information processing in mouse neocortex during behavior. 2015 ,	
845	Dependence of Two-Photon eGFP Bleaching on Femtosecond Pulse Spectral Amplitude and Phase. 2015 , 25, 1775-85	4
844	Ultramicroscopy: development and outlook. 2015 , 2, 041407	19
843	Two-photon microscopy of a Flt1 peptide-hyaluronate conjugate. 2015 , 10, 2315-24	5
842	Expanded coumarins: synthesis, optical properties and applications. 2015 , 3, 1421-1446	145
841	Fluorescence chemosensors for hydrogen sulfide detection in biological systems. 2015 , 140, 1772-86	76
840	Easily prepared ruthenium-complex nanomicelle probes for two-photon quantitative imaging of oxygen in aqueous media. 2015 , 5, 291-300	16
839	In vivo flow mapping in complex vessel networks by single image correlation. 2014 , 4, 7341	18
838	Enhancing optical forces on fluorescent up-converting nanoparticles by surface charge tailoring. 2015 , 11, 1555-61	16
837	Novel carbazole-based two-photon photosensitizer for efficient DNA photocleavage in anaerobic condition using near-infrared light. 2015 , 5, 770-774	30
836	Rational design of small indolic squaraine dyes with large two-photon absorption cross section. 2015 , 6, 761-769	55

835	Organic Nanophotonics. 2015 ,	6
834	Merging of the photocatalysis and copper catalysis in metal-organic frameworks for oxidative C-C bond formation. 2015 , 6, 1035-1042	109
833	Nanogel tectonic porous gel loading biologics, nanocarriers, and cells for advanced scaffold. 2015 , 37, 107-15	59
832	Neural Tracing Methods. 2015 ,	1
831	One- and two-photon luminescence in graphene oxide quantum dots. 2015 , 39, 98-101	24
830	Three-dimensional reconstruction of light microscopy image sections: present and future. 2015 , 9, 30-45	10
829	Two-photon microscopy in pre-clinical and clinical cancer research. 2015 , 8, 141-151	9
828	Fluorescent probes and bioimaging: alkali metals, alkaline earth metals and pH. 2015 , 44, 4619-44	480
827	Neural circuit remodeling and structural plasticity in the cortex during chronic pain. 2016 , 20, 1-8	8
826	Nonlinear Microscopy in Clinical Dermatology. 2016 , 269-280	
825	Neutrophil Extravasation Cascade: What Can We Learn from Two-photon Intravital Imaging?. 2016 , 16, 317-321	8
824	Fluorescent Cell Imaging in Regenerative Medicine. 2016 , 7, 29-33	1
823	Imaging Nanoparticle Skin Penetration in Humans. 2016 , 353-366	
822	Recent Progress in Light-Triggered Nanotheranostics for Cancer Treatment. 2016 , 6, 948-68	161
821	Imaging of Leukocyte Trafficking in Alzheimer's Disease. 2016 , 7, 33	26
820	Fungal Infection in the Brain: What We Learned from Intravital Imaging. 2016 , 7, 292	18
819	Modeling of Cerebral Oxygen Transport Based on In vivo Microscopic Imaging of Microvascular Network Structure, Blood Flow, and Oxygenation. 2016 , 10, 82	44
818	Linear and Non-Linear Optical Imaging of Cancer Cells with Silicon Nanoparticles. 2016 , 17,	24

817	A Guide to Fluorescent Protein FRET Pairs. 2016 , 16,	231
816	A Versatile Optical Clearing Protocol for Deep Tissue Imaging of Fluorescent Proteins in <i>Arabidopsis thaliana</i> . 2016 , 11, e0161107	27
815	Combination of an optical parametric oscillator and quantum-dots 655 to improve imaging depth of vasculature by intravital multicolor two-photon microscopy. 2016 , 7, 2362-72	4
814	Motion quantification during multi-photon functional imaging in behaving animals. 2016 , 7, 3686-3695	4
813	Imaging in turbid media: a transmission detector gives 2-3 order of magnitude enhanced sensitivity compared to epi-detection schemes. 2016 , 7, 3747-3755	6
812	Scanless functional imaging of hippocampal networks using patterned two-photon illumination through GRIN lenses. 2016 , 7, 3958-3967	19
811	3D resolution enhancement of deep-tissue imaging based on virtual spatial overlap modulation microscopy. 2016 , 24, 16238-46	2
810	Excited-State Symmetry Breaking and the Laporte Rule. 2021 , 12, 4067-4071	6
809	Biocompatible diameter-oscillating fiber with microlens endface. 2021 , 29, 12024-12032	
808	Imaging in vivo acetylcholine release in the peripheral nervous system with a fluorescent nanosensor. 2021 , 118,	2
807	Low noise, self-phase-modulation-enabled femtosecond fiber sources tunable in 740-1236 nm for wide two-photon fluorescence microscopy applications. 2021 , 12, 2888-2901	5
806	Large-scale voltage imaging in the brain using targeted illumination.	1
805	Chronic cranial window for photoacoustic imaging: a mini review. 2021 , 4, 15	1
804	Visualization of Platelet Integrins via Two-Photon Microscopy Using Anti-transmembrane Domain Peptides Containing a Blue Fluorescent Amino Acid. 2021 , 60, 1722-1730	0
803	Three-dimensional microvascular network reconstruction from in vivo images with adaptation of the regional inhomogeneity in the signal-to-noise ratio. 2021 , 28, e12697	3
802	Dopamine differentially modulates the size of projection neuron ensembles in the intact and dopamine-depleted striatum. 2021 , 10,	3
801	Synthesis, Assembly, Optical Properties, and Sensing Applications of Plasmonic Gap Nanostructures. 2021 , 33, e2006966	15
800	Improved spatial resolution using focal modulation microscopy with a Tai Chi aperture. 2021 , 29, 18263-18276	

799	Graphene Quantum Dots (GQDs) for Bioimaging and Drug Delivery Applications: A Review. 2021 , 3, 889-911	21
798	Upconversion Spectral Rulers for Transcutaneous Displacement Measurements. 2021 , 21,	
797	Three-Dimensional Distribution of Cochlear Macrophages in the Lateral Wall of Cleared Cochlea. 2021 , 14, 179-184	4
796	Visualization of HIV-1 reservoir: an imaging perspective. 2021 , 16, 232-239	0
795	Multimodal nonlinear-optical imaging of nucleoli. 2021 , 46, 3608-3611	3
794	Small Molecule-based Alkaline-earth Metal Ion Fluorescent Probes for Imaging Intracellular and Intercellular Multiple Signals. 2021 , 50, 870-887	3
793	Segmentation of Neurons from Fluorescence Calcium Recordings Beyond Real-time. 2021 , 3, 590-600	6
792	Advances in Two-Photon Imaging in Plants. 2021 , 62, 1224-1230	4
791	Assessment of optogenetically-driven strategies for prosthetic restoration of cortical vision in large-scale neural simulation of V1. 2021 , 11, 10783	1
790	Functional Genomics for Undiagnosed Patients: The Impact of Small GTPases Signaling Dysregulation at Pan-Embryo Developmental Scale. 2021 , 9, 642235	0
789	Intravital microscopy imaging of kidney injury and regeneration. 2021 , 7,	3
788	Optogenetic strategies for high-efficiency all-optical interrogation using blue-light-sensitive opsins. 2021 , 10,	8
787	Multiview deconvolution approximation multiphoton microscopy of tissues and zebrafish larvae. 2021 , 11, 10160	2
786	Brain microvascular damage linked to a moderate level of strain induced by controlled cortical impact. 2021 , 122, 110452	1
785	Multiphoton Imaging of Ca Instability in Acute Myocardial Slices from a Murine Model of Catecholaminergic Polymorphic Ventricular Tachycardia. 2021 , 10,	1
784	Dimensions of fluorescence kinetic concentration of doped morphology homologs synthesized by TCPP and UiO-66 MOF. 2021 , 23, 100982	2
783	Heterogeneity and Development of Fine Astrocyte Morphology Captured by Diffraction-Limited Microscopy. 2021 , 15, 669280	2
782	Evolving structure-function relations during aortic maturation and aging revealed by multiphoton microscopy. 2021 , 196, 111471	7

781	Theragnostic nanomotors: Successes and upcoming challenges. 2021 , 13, e1736	0
780	High-resolution two-photon transcranial imaging of brain using direct wavefront sensing. 2021 , 9, 1144	5
779	Holography-based structured light illumination for temporal focusing microscopy. 2021 , 46, 3143-3146	0
778	It's clearly the heart! Optical transparency, cardiac tissue imaging, and computer modelling. 2021 , 168, 18-18	0
777	Predictive Markers of Immunogenicity and Efficacy for Human Vaccines. 2021 , 9,	10
776	Longitudinal high-resolution imaging through a flexible intravital imaging window. 2021 , 7,	7
775	Twist-free ultralight two-photon fiberscope enabling neuroimaging on freely rotating/walking mice. 2021 , 8, 870	6
774	Precompensation of 3D field distortions in remote focus two-photon microscopy. 2021 , 12, 3717-3728	
773	Instant FLIM enables 4D in vivo lifetime imaging of intact and injured zebrafish and mouse brains. 2021 , 8, 885	5
772	In-vivo tracking of harmonic nanoparticles: a study based on a TIGER widefield microscope [Invited]. 2021 , 11, 1953	2
771	Calcium-responsive contrast agents for functional magnetic resonance imaging. 2021 , 2, 021301	5
770	Towards Multimode-fiber-based Two-photon Endoscopy. 2021 ,	
769	In Vivo Simultaneous Nonlinear Absorption Raman and Fluorescence (SNARF) Imaging of Mouse Brain Cortical Structures.	0
768	Three-Dimensional X-ray Imaging of β -Galactosidase Reporter Activity by Micro-CT: Implication for Quantitative Analysis of Gene Expression. 2021 , 11,	2
767	The effects of a simple optical clearing protocol on the mechanics of collagenous soft tissue. 2021 , 122, 110413	0
766	Optical volumetric brain imaging: speed, depth, and resolution enhancement. 2021 , 54, 323002	6
765	Single Nanoflake Hexagonal Boron Nitride Harmonic Generation with Ultralow Pump Power. 2021 , 8, 1922-1926	2
764	An Immersive Virtual Reality System for Rodents in Behavioral and Neural Research. 2021 , 18, 838-848	1

763	Simultaneous 3D Visualization of the Microvascular and Neural Network in Mouse Spinal Cord Using Synchrotron Radiation Micro-Computed Tomography. 2021 , 37, 1469-1480	3
762	Evaluating structured-illumination patterns in optimizing optical-sectioning of HiLo microscopy. 2021 , 54, 414001	1
761	Integrated light and electron microscopy continuum resolution imaging of 3D cell cultures.	0
760	140 kHz, 1.2 ps pulses from an all-PM Yb-doped fiber master oscillator-power amplifier. 2021 , 31, 085102	
759	Physical Mechanism of Photoinduced Charge Transfer in One- and Two-Photon Absorption in D-D-EA Systems. 2021 , 14,	1
758	Spatiotemporal sectioning of two-photon fluorescence ellipsoid with a CsPbBr ₃ nanosheet. 2021 , 14, 4288	3
757	Multispectral intravital microscopy for simultaneous bright-field and fluorescence imaging of the microvasculature. 2021 , 51, 12	1
756	Multi-Physical Parameter Cross-Sectional Imaging of Quantitative Phase and Fluorescence by Integrated Multimodal Microscopy. 2021 , 27, 1-9	2
755	Well-Defined Segment of Carbon Nanotube with Bright Red Emission for Three-Photon Fluorescence Cerebrovascular Imaging. 2021 , 9, 2100482	4
754	De-scattering with Excitation Patterning enables rapid wide-field imaging through scattering media. 2021 , 7,	3
753	Software for Non-Parametric Image Registration of 2-Photon Imaging Data.	
752	Optical Microscopy and the Extracellular Matrix Structure: A Review. 2021 , 10,	11
751	Single-laser-based simultaneous four-wavelength excitation source for femtosecond two-photon fluorescence microscopy. 2021 , 12, 4661-4679	3
750	Longitudinal neural connection detection using a ferritin-encoding adeno-associated virus vector and in vivo MRI method. 2021 , 42, 5010-5022	1
749	Optical Imaging of Beta-Amyloid Plaques in Alzheimer's Disease. 2021 , 11,	0
748	Two-Photon, Ratiometric, Quantitative Fluorescent Probe Reveals Fluctuation of Peroxynitrite Regulated by Arginase 1. 2021 , 93, 10090-10098	9
747	Neural anatomy and optical microscopy (NAOMi) simulation for evaluating calcium imaging methods. 2021 , 358, 109173	9
746	Intraoperative Label-Free Multimodal Nonlinear Optical Imaging for Point-of-Procedure Cancer Diagnostics. 2021 , 27,	3

745	Advances in nonlinear optical microscopy techniques for in vivo and in vitro neuroimaging.. 2021 , 13, 1199-1217		2
744	Direct focus sensing and shaping for high-resolution multi-photon imaging in deep tissue.		0
743	High-speed, cortex-wide volumetric recording of neuroactivity at cellular resolution using light beads microscopy. <i>Nature Methods</i> , 2021 , 18, 1103-1111	21.6	17
742	A Diagnostic Method for Gastric Cancer Using Two-Photon Microscopy With Enzyme-Selective Fluorescent Probes: A Pilot Study. 2021 , 11, 634219		4
741	Enhancement of two-photon-excited fluorescence by distributed Bragg reflectors. 2021 , 297, 129946		
740	Extraordinary nonlinear response of nanoparticles in double nanohole optical tweezers. 2021 ,		
739	Validation and tuning of in situ transcriptomics image processing workflows with crowdsourced annotations. 2021 , 17, e1009274		
738	HiLo Based Line Scanning Temporal Focusing Microscopy for High-Speed, Deep Tissue Imaging. 2021 , 11,		1
737	Non-Invasive Confocal Fluorescence Imaging of Mice Beyond 1700 nm Using Superconducting Nanowire Single-Photon Detectors.		1
736	Shedding Light on the Formation and Structure of Kombucha Biofilm Using Two-Photon Fluorescence Microscopy. 2021 , 12, 725379		5
735	Nyquist-exceeding high voxel rate acquisition in mesoscopic multiphoton microscopy for full-field submicron resolution resolvability. 2021 , 24, 103041		2
734	High Fidelity Spatial Light Modulator Configuration for Photo-Stimulation. 2021 , 9,		
733	Two-photon and Three-photon Fluorescence of Triton X-100 in the Ultraviolet Region. 2021 , 31, 1779-1785		
732	Three-dimensional label-free histological imaging of whole organs by microtomy-assisted autofluorescence tomography.		
731	Mode-Locked AlGaInP VECSEL for the Red and UV Spectral Range. 2021 , 305-320		
730	Smart computational light microscopes (SCLMs) of smart computational imaging laboratory (SCILab). 2021 , 2,		9
729	Fast wavelet-based photoacoustic microscopy. 2021 , 38, 1673-1680		
728	How to Extend the Capabilities of a Commercial Two-Photon Microscope to Perform Super-Resolution Imaging, Wavelength Mixing and Label-Free Microscopy.		

727	Mie-enhanced photothermal/thermo-optical nonlinearity and applications on all-optical switch and super-resolution imaging.		2
726	Study of neurovascular coupling by using mesoscopic and microscopic imaging. 2021 , 24, 103176		0
725	Single-beam multimodal nonlinear-optical imaging of structurally complex events in cell-cycle dynamics. 2021 , 3, 044001		2
724	Two-photon excitation fluorescent spectral and decay properties of retrograde neuronal tracer Fluoro-Gold. 2021 , 11, 18053		0
723	Unravelling the Effects of Cholesterol on the Second-Order Nonlinear Optical Responses of Di-8-ANEPPS Dye Embedded in Phosphatidylcholine Lipid Bilayers. 2021 , 125, 10195-10212		2
722	Femtosecond diode-based time lens laser for multiphoton microscopy. 2021 , 12, 6269-6276		
721	High-resolution structural and functional deep brain imaging using adaptive optics three-photon microscopy. <i>Nature Methods</i> , 2021 , 18, 1253-1258	21.6	12
720	Fast wavefront shaping for two-photon brain imaging with large field of view correction.		0
719	Optimizing imaging depth of anisotropic scattering tissues with polarization engineered second harmonic generation microscopy. 2021 , 28, 104653		0
718	Super-Resolution Microscopy: Shedding New Light on Imaging. 2021 , 9, 746900		3
717	Miniature 120-beam coherent combiner with 3D-printed optics for multicore fiber-based endoscopy. 2021 , 46, 4968-4971		2
716	Non-Diffracting Light Wave: Fundamentals and Biomedical Applications. 2021 , 9,		1
715	Super-Resolution Imaging With Lanthanide Luminescent Nanocrystals: Progress and Prospect. 2021 , 9, 692075		3
714	Real-time Noise-suppressed Wide-Dynamic-Range Compression in Ultrahigh-Resolution Neuronal Imaging.		
713	Label-free characterization of ischemic cerebral injury using intravital two-photon excitation fluorescence lifetime imaging microscopy. 2021 , 54, 114001		2
712	Holographic Imaging and Stimulation of Neural Circuits. 2021 , 1293, 613-639		2
711	Whole Murine Brain Imaging Based on Optical Elastic Scattering. 2021 , 3233, 109-125		
710	Optical Imaging in Biology: Basics and Applications. 2021 , 637-660		

709	Micro-endoscopy for Live Small Animal Fluorescent Imaging. 2021 , 1310, 153-186	0
708	Anatomical Modeling of Brain Vasculature in Two-Photon Microscopy by Generalizable Deep Learning. 2021 , 2021, 1-12	2
707	The design strategies and applications for organic multi-branched two-photon absorption chromophores with novel cores and branches: a recent review. 2021 , 9, 1520-1536	16
706	Imaging neural circuit pathology of autism spectrum disorders: autism-associated genes, animal models and the application of in vivo two-photon imaging.. 2022 , 71, i81-i99	1
705	A Guide to Fluorescence Lifetime Microscopy and Förster's Resonance Energy Transfer in Neuroscience. 2020 , 94, e108	4
704	Fluorescent Probes for Two-Photon Excitation Microscopy. 2009 , 249-269	2
703	Stem Cells: The Holy Grail of Regenerative Medicine. 2014 , 19-69	2
702	Dynamic two-photon imaging of cerebral microcirculation using fluorescently labeled red blood cells and plasma. 2013 , 765, 163-168	3
701	3D analysis of intracortical microvasculature during chronic hypoxia in mouse brains. 2013 , 765, 357-363	23
700	Light sheet-based imaging and analysis of early embryogenesis in the fruit fly. 2015 , 1189, 79-97	5
699	Visualizing the Behavior of HIV-Infected T Cells In Vivo Using Multiphoton Intravital Microscopy. 2016 , 1354, 189-201	6
698	Deep Two-Photon Imaging In Vivo with a Red-Shifted Calcium Indicator. 2019 , 1929, 15-26	3
697	Voltage Imaging with ANNINE Dyes and Two-Photon Microscopy. 2019 , 297-334	6
696	Combining Uncaging Techniques with Patch-Clamp Recording and Optical Physiology. 2007 , 149-168	3
695	Single-cell analysis of cytotoxic T cell function by intravital multiphoton microscopy. 2010 , 616, 181-92	4
694	Multiphoton intravital microscopy to study lymphocyte motility in lymph nodes. 2012 , 757, 247-57	25
693	Functional Imaging Using Two-Photon Microscopy in Living Tissue. 2012 , 129-164	1
692	Chronic Two-Photon Imaging of Neural Activity in the Anesthetized and Awake Behaving Rodent. 2014 , 151-173	5

691	Two-Photon Microscopy to Measure Blood Flow and Concurrent Brain Cell Activity. 2014 , 273-290	1
690	Principles and Fundamentals of Optical Imaging. 2014 , 19-32	3
689	Molecular Imaging in Oncology: Advanced Microscopy Techniques. 2020 , 216, 533-561	1
688	DISCo: Deep Learning, Instance Segmentation, and Correlations for Cell Segmentation in Calcium Imaging. 2020 , 151-162	5
687	Brain Function: Novel Technologies Driving Novel Understanding. 2014 , 299-334	4
686	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. 2020 , 599-638	4
685	Form Meets Function in the Brain: Observing the Activity and Structure of Specific Neural Connections. 2016 , 19-29	1
684	Bioimaging and Quantum Sensing Using NV Centers in Diamond Nanoparticles. 2016 , 109-137	3
683	Ultrafast Lasers in Surgery and Cell Manipulation. 2016 , 77-93	1
682	Optical Imaging. 2017 , 403-490	1
681	Fluorescence Photobleaching and Fluorescence Correlation Spectroscopy: Two Complementary Technologies To Study Molecular Dynamics in Living Cells. 2007 , 183-233	1
680	Fundamentals of optical imaging. 2008 , 3-22	21
679	Two-photon imaging of the immune system: a custom technology platform for high-speed, multicolor tissue imaging of immune responses. 2009 , 334, 1-29	30
678	Whole-Body Imaging of Hematopoietic and Cancer Cells Using Near-Infrared Probes. 2011 , 329-346	2
677	In Vivo Ca ²⁺ Imaging of Neuronal Activity. 2013 , 71-87	1
676	Multiphoton Fluorescence Microscopy. 2014 , 149-159	4
675	Super-resolution Fluorescence Microscopy. 2014 , 161-187	2
674	Intravital Multiphoton Endoscopy. 2014 , 305-370	1

673	Live Imaging of Subcellular Structures and Cellular Processes in Mouse Intraperitoneal Organs. 2014 , 163-185	1
672	Imaging Synapse Formation and Remodeling In Vitro and In Vivo. 2020 , 187-197	1
671	The Development of Coherent Multidimensional Microspectroscopy. 2019 , 311-337	1
670	Investigating learning-related neural circuitry with chronic in vivo optical imaging. 2020 , 225, 467-480	3
669	Fluorescence Imaging: Overview and Applications in Biomedical Research. 2009 , 524-531	1
668	Multimodal stratified imaging of nanovaccines in lymph nodes for improving cancer immunotherapy. 2020 , 161-162, 145-160	6
667	Polyethylene glycol (PEG) derived carbon dots: Preparation and applications. 2020 , 20, 100677	28
666	One- and two-photon absorption properties of quadrupolar A-D-EA dyes with donors of varying strengths. 2020 , 230, 118015	6
665	Substituted 9-Diethylaminobenzo[<i>b</i>]phenoxazin-5-ones (Nile Red Analogues): Synthesis and Photophysical Properties. 2021 , 86, 1471-1488	4
664	Three-Photon Spectroscopy of Porphyrins. 2020 , 124, 11038-11050	3
663	Direct Observation of Different One- and Two-Photon Fluorescent States in a Pyrrolo[3,2-]pyrrole Fluorophore. 2020 , 11, 4866-4872	2
662	Adaptive Optical Two-Photon Microscopy for Surface-Profiled Living Biological Specimens. 2021 , 6, 438-447	5
661	Iodinated Polyesters with Enhanced X-ray Contrast Properties for Biomedical Imaging. 2020 , 10, 1508	6
660	Fluorescent sensors for sodium ions. 2017 , 9, 5570-5579	18
659	Poly(fluorenone--thiophene)-based nanoparticles for two-photon fluorescence imaging in living cells and tissues.. 2020 , 10, 12373-12377	1
658	High spatiotemporal resolution and low photo-toxicity fluorescence imaging in live cells and in vivo. 2019 , 47, 1635-1650	9
657	Isoenergetic two-photon excitation enhances solvent-to-solute excited-state proton transfer. 2020 , 153, 224301	3
656	AO DIVER: Development of a three-dimensional adaptive optics system to advance the depth limits of multiphoton imaging. 2020 , 5, 120801	3

655	Deep learning for in vivo near-infrared imaging. 2021 , 118,	15
654	Advances in point spread function engineering for functional imaging of neural circuits in vivo. 2020 , 53, 383001	4
653	High density carbon fiber arrays for chronic electrophysiology, fast scan cyclic voltammetry, and correlative anatomy. 2020 , 17, 056029	11
652	Passive mode-locking of p-doped quantum dot semiconductor lasers. 2020 , 1695, 012068	1
651	Acousto-optic systems for advanced microscopy. 2021 , 3, 012004	2
650	Title: Time to wake up: Studying neurovascular coupling and brain-wide circuit function in the un-anesthetized animal.	1
649	Quantitative evaluation of two-photon calcium imaging modalities for high-speed volumetric calcium imaging in scattering brain tissue.	5
648	Two-photon calcium imaging of medial prefrontal cortex and hippocampus without cortical invasion.	1
647	Multi-modal Nonlinear Optical and Thermal Imaging Platform for Label-Free Characterization of Biological Tissue.	2
646	Determining the Depth Limit of Bioluminescent Sources in Scattering Media.	0
645	Network-enabled efficient image restoration for 3D microscopy of turbid biological specimens.	0
644	Bridging scales in scattering tissues via multifocal two-photon microscopy.	1
643	High-resolution two-photon transcranial imaging of brain using direct wavefront sensing.	1
642	Intravital Deep-Tumor Single-Beam 2-, 3- and 4-Photon Microscopy.	1
641	Parallel holographic illumination enables sub-millisecond two-photon optogenetic activation in mouse visual cortex in vivo.	5
640	Multimodal modeling of neural network activity: computing LFP, ECoG, EEG and MEG signals with LFPy2.0.	3
639	Minimally invasive deep-brain imaging through a 50 μm -core multimode fibre.	1
638	Two-photon imaging induces brain heating and calcium microdomain hyperactivity in cortical astrocytes.	2

637	Multiplex imaging of quantal glutamate release and presynaptic Ca ²⁺ at multiple synapses in situ.	1
636	MemBright: a Family of Fluorescent Membrane Probes for Advanced Cellular Imaging and Neuroscience.	2
635	Fast two-photon volumetric imaging of an improved voltage indicator reveals electrical activity in deeply located neurons in the awake brain.	16
634	MATRIEX Imaging: Multi-Area Two-photon Real-time In-vivo Explorer.	2
633	Kilohertz two-photon fluorescence microscopy imaging of neural activity in vivo.	2
632	Functional ultrasound imaging of deep visual cortex in awake non-human primates.	1
631	Estimation of neural network model parameters from local field potentials (LFPs).	1
630	Reconstruction of in-vivo subthreshold activity of single neurons from large-scale spiking recordings.	1
629	Neural Anatomy and Optical Microscopy (NAOMi) Simulation for evaluating calcium imaging methods.	9
628	Deformable mirror-based two-photon microscopy for axial mammalian brain imaging.	2
627	Precision calcium imaging of dense neural populations via a cell body-targeted calcium indicator.	1
626	Divergent excitation two photon microscopy for 3D random access mesoscale imaging at single cell resolution.	3
625	Semi-supervised machine learning facilitates cell colocalization and tracking in intravital microscopy.	2
624	The connectomics challenge. 2013 , 28, 167-73	11
623	Optimization of frequency-doubled Er-doped fiber laser for miniature multiphoton endoscopy. 2018 , 23, 1-12	6
622	Noninvasive and real-time pharmacokinetics imaging of polymeric nanoagents in the thoracoepigastric vein networks of living mice. 2019 , 24, 1-11	1
621	Excitation of erbium-doped nanoparticles in 1550-nm wavelength region for deep tissue imaging with reduced degradation of spatial resolution. 2019 , 24, 1-4	7
620	Common-path multimodal three-dimensional fluorescence and phase imaging system. 2020 , 25, 1-15	29

619	Light-sheet fluorescence expansion microscopy: fast mapping of neural circuits at super resolution. 2019 , 6, 015005	23
618	Absorption characterization of immersion medium for multiphoton microscopy at the 1700nm window. 2017 ,	1
617	Nanoscale Photoacoustic Tomography (nPAT) for label-free super-resolution 3D imaging of red blood cells. 2017 ,	2
616	Deep brain two-photon NIR fluorescence imaging for study of Alzheimer's disease. 2018 ,	0
615	Physical parameters of ultrawide band laser sources and their impacts on multiphoton imaging. 2018 ,	1
614	Nonlinear optical properties of water from 1150 nm to 1400 nm. 2019 ,	1
613	Simulated supercontinuum generation in water and the human eye. 2019 ,	1
612	Simultaneous label-free two-photon fluorescence and second-harmonic generation microscopy for visualization of mouse pulmonary alveoli. 2020 ,	0
611	Adaptive optics two-photon endomicroscopy enables deep-brain imaging at synaptic resolution over large volumes. 2020 , 6,	14
610	In Vivo Fluorescence Imaging and Spectroscopy. 2010 , 30-1-30-11	1
609	Fluorescence Correlation Spectroscopy. 2010 , 6-1-6-34	2
608	Recent advances in tissue imaging for cancer research. 2019 , 8,	7
607	Confocal microscopy with a microlens array. 2020 , 59, 3058-3063	3
606	Improving the resolution of two-photon microscopy using pixel reassignment. 2018 , 57, 6181-6187	7
605	Enhancing the axial resolution of two-photon imaging. 2019 , 58, 4892-4897	3
604	Comparing Two-Photon Excitation Modalities for Fast, Large-Scale Recording of Neuronal Activity in Rodents. 2017 ,	1
603	Selective femtosecond laser ablation via two-photon fluorescence imaging through a multimode fiber. 2019 , 10, 423-433	19
602	Optical properties of adult brains in one-, two-, and three-photon microscopy. 2019 , 10, 1627-1637	6

601	SyncRGB-FLIM: synchronous fluorescence imaging of red, green and blue dyes enabled by ultra-broadband few-cycle laser excitation and fluorescence lifetime detection. 2019 , 10, 1891-1904	2
600	Impact of the emission wavelengths on multiphoton imaging of mouse brains. 2019 , 10, 1905-1918	17
599	Contrast improvement in two-photon microscopy with instantaneous differential aberration imaging. 2019 , 10, 2467-2477	4
598	Retinal safety evaluation of two-photon laser scanning in rats. 2019 , 10, 3217-3231	2
597	Spatiotemporally controlled nano-sized third harmonic generation agents. 2019 , 10, 3301-3316	2
596	Elimination of imaging artifacts in second harmonic generation microscopy using interferometry. 2019 , 10, 3938-3952	3
595	Review of micro-optical sectioning tomography (MOST): technology and applications for whole-brain optical imaging [Invited]. 2019 , 10, 4075-4096	15
594	Two-photon images reveal unique texture features for label-free identification of ovarian cancer peritoneal metastases. 2019 , 10, 4479-4488	5
593	Correlative two-color two-photon (2C2P) excitation STED microscopy. 2019 , 10, 4516-4530	4
592	Non-invasive cellular-resolution retinal imaging with two-photon excited fluorescence. 2019 , 10, 4859-4873	6
591	Dual-plane 3-photon microscopy with remote focusing. 2019 , 10, 5585-5599	11
590	Two-photon image-scanning microscopy with SPAD array and blind image reconstruction. 2020 , 11, 2905-2924	13
589	Raster adaptive optics for video rate aberration correction and large FOV multiphoton imaging. 2020 , 11, 1032-1042	3
588	Four-dimensional visualization of zebrafish cardiovascular and vessel dynamics by a structured illumination microscope with electrically tunable lens. 2020 , 11, 1203-1215	4
587	Tissue imaging depth limit of stimulated Raman scattering microscopy. 2020 , 11, 762-774	16
586	Design of a high-resolution light field miniscope for volumetric imaging in scattering tissue. 2020 , 11, 1662-1678	10
585	Quantitative third-harmonic generation imaging of mouse visual cortex areas reveals correlations between functional maps and structural substrates. 2020 , 11, 5650-5673	2
584	Arrangement of the photoreceptor mosaic in a diabetic rat model imaged with multiphoton microscopy. 2020 , 11, 4901-4914	1

583	Fast multiphoton light-sheet microscopy with optimal pulse frequency. 2020 , 11, 6012-6026	9
582	Dual GRIN lens two-photon endoscopy for high-speed volumetric and deep brain imaging. 2021 , 12, 162-172	10
581	Hyperspectral imaging and spectral unmixing for improving whole-body fluorescence cryo-imaging. 2021 , 12, 395-408	5
580	Adaptive optics enables aberration-free single-objective remote focusing for two-photon fluorescence microscopy. 2021 , 12, 354-366	9
579	Scattering reduction by structured light illumination in line-scanning temporal focusing microscopy. 2018 , 9, 5654-5666	6
578	Wavelength agile multi-photon microscopy with a fiber amplified diode laser. 2018 , 9, 6273-6282	3
577	In vivo two-photon imaging of cortical vasculature in mice to 1.5-mm depth with 1280-nm excitation. 2011 ,	1
576	3D multiphoton fiber-coupled microscopy using adaptable optics for brain imaging. 2016 ,	1
575	Characterization of atherosclerotic arterial tissue using combined SHG and FLIM microscopy. 2015 ,	1
574	Superresolution Two-photon Image with Quasi-comb Structured Illumination. 2014 ,	1
573	Supercontinuum radiation in fluorescence microscopy and biomedical imaging applications. 2019 , 36, A139	31
572	Investigation of optically cleared human skin in combined multiphoton and reflectance confocal microscopy. 2015 ,	2
571	Measurement of 3-photon excitation and emission spectra and verification of Kasha's rule for selected fluorescent proteins excited at the 1700-nm window. 2019 , 27, 12723-12731	9
570	Image-based autofocus system for nonlinear optical microscopy with broad spectral tuning. 2019 , 27, 19915-19930	5
569	Overcoming tissue scattering in wide-field two-photon imaging by extended detection and computational reconstruction. 2019 , 27, 20117-20132	3
568	Large-scale femtosecond holography for near simultaneous optogenetic neural modulation. 2019 , 27, 32228-32234	4
567	Adaptive optimization for axial multi-foci generation in multiphoton microscopy. 2019 , 27, 35948-35961	3
566	Improving axial resolution of Bessel beam light-sheet fluorescence microscopy by photobleaching imprinting. 2020 , 28, 9464-9476	5

565	Optical beam shift as a vectorial pointer of curved-path geodesics: an evolution-operator perspective. 2020 , 28, 12302-12310	4
564	Deep learning-enabled efficient image restoration for 3D microscopy of turbid biological specimens. 2020 , 28, 30234-30247	13
563	Axially resolved volumetric two-photon microscopy with an extended field of view using depth localization under mirrored Airy beams. 2020 , 28, 39563-39573	1
562	Spatiotemporal focusing through a multimode fiber via time-domain wavefront shaping. 2021 , 29, 272-290	3
561	High-speed fiber-optic scanning nonlinear endomicroscopy for imaging neuron dynamics in vivo. 2020 , 45, 3605-3608	6
560	Two-photon Shack-Hartmann wavefront sensor. 2017 , 42, 1141-1144	5
559	High-resolution multiphoton microscopy with a low-power continuous wave laser pump. 2018 , 43, 699-702	4
558	Three-photon light-sheet fluorescence microscopy. 2018 , 43, 5484-5487	26
557	Laser speckle contrast imaging of blood flow in the deep brain using microendoscopy. 2018 , 43, 5627-5630	15
556	Volumetric two-photon microscopy with a non-diffracting Airy beam. 2019 , 44, 391-394	15
555	Two-photon PSF-engineered image scanning microscopy. 2019 , 44, 895-898	10
554	Deep-penetration fluorescence imaging through dense yeast cells suspensions using Airy beams. 2019 , 44, 1896-1899	8
553	Noninvasive three-dimensional imaging through scattering media by three-dimensional speckle correlation. 2019 , 44, 2526-2529	14
552	Coherent phase transfer and pulse compression at 1.4 μm in a backward-wave OPO. 2019 , 44, 3066-3069	2
551	Stain-free subcellular-resolution astrocyte imaging using third-harmonic generation. 2019 , 44, 3166-3169	8
550	Robust, efficient, and broadband SHG of ultrashort pulses in composite crystals. 2019 , 44, 3837-3840	4
549	Depth-resolved volumetric two-photon microscopy based on dual Airy beam scanning. 2019 , 44, 5238-5241	8
548	Cell-specific three-photon-fluorescence brain imaging: neurons, astrocytes, and gliovascular interfaces. 2020 , 45, 836-839	15

547	Chromato-axial memory effect through a forward-scattering slab. 2020 , 7, 338	11
546	Exceeding the limits of 3D fluorescence microscopy using a dual-stage-processing network. 2020 , 7, 1627	6
545	Scanless volumetric imaging by selective access multifocal multiphoton microscopy. 2019 , 6, 76-83	11
544	Advanced fluorescence microscopy for in vivo imaging of neuronal activity. 2019 , 6, 758	18
543	Simple imaging protocol for autofluorescence elimination and optical sectioning in fluorescence endomicroscopy. 2019 , 6, 972	5
542	Simulation design of wide-field temporal-focusing multiphoton excitation with a tunable excitation wavelength. 2019 , 2, 1174	2
541	MUTE-SIM: multiphoton up-conversion time-encoded structured illumination microscopy. 2020 , 3, 594	2
540	Real-time CARS imaging reveals a calpain-dependent pathway for paranodal myelin retraction during high-frequency stimulation. 2011 , 6, e17176	41
539	Spatial frequency-based analysis of mean red blood cell speed in single microvessels: investigation of microvascular perfusion in rat cerebral cortex. 2011 , 6, e24056	21
538	Nonlinear optical microscopy for histology of fresh normal and cancerous pancreatic tissues. 2012 , 7, e37962	29
537	Line-scanning particle image velocimetry: an optical approach for quantifying a wide range of blood flow speeds in live animals. 2012 , 7, e38590	57
536	Parallelized TCSPC for dynamic intravital fluorescence lifetime imaging: quantifying neuronal dysfunction in neuroinflammation. 2013 , 8, e60100	57
535	Dynamic visualization of dendritic cell-antigen interactions in the skin following transcutaneous immunization. 2014 , 9, e89503	21
534	Ellipsoid Segmentation Model for Analyzing Light-Attenuated 3D Confocal Image Stacks of Fluorescent Multi-Cellular Spheroids. 2016 , 11, e0156942	11
533	Astroglia in Thick Tissue with Super Resolution and Cellular Reconstruction. 2016 , 11, e0160391	18
532	Imaging of Scleral Collagen Deformation Using Combined Confocal Raman Microspectroscopy and Polarized Light Microscopy Techniques. 2016 , 11, e0165520	9
531	High-Resolution Ultrasound-Switchable Fluorescence Imaging in Centimeter-Deep Tissue Phantoms with High Signal-To-Noise Ratio and High Sensitivity via Novel Contrast Agents. 2016 , 11, e0165963	16
530	3D morphological analysis of the mouse cerebral vasculature: Comparison of in vivo and ex vivo methods. 2017 , 12, e0186676	21

529	Photoacoustic imaging platforms for multimodal imaging. 2015 , 34, 88-97	56
528	Intravital Microscopy Imaging Approaches for Image-Guided Drug Delivery Systems. 2015 , 16, 528-41	12
527	Characterizing the Two-photon Absorption Properties of Fluorescent Molecules in the 680-1300 nm Spectral Range. 2020 , 10,	8
526	Photon entanglement for life-science imaging: rethinking the limits of the possible. 2020 , 63, 698-707	4
525	Neurophotonic: optical methods to study and control the brain. 2015 , 185, 371-392	9
524	Keldysh photoionization theory: through the barriers. 2017 , 187, 1169-1204	2
523	Photon entanglement for life-science imaging: rethinking the limits of the possible. 2020 , 190, 749-761	3
522	Anatomical Modeling of Brain Vasculature in Two-Photon Microscopy by Generalizable Deep Learning. 2020 , 2020, 1-12	1
521	Imaging Approaches in Functional Assessment of Implantable Myogenic Biomaterials and Engineered Muscle Tissue. 2015 , 25, 4847	13
520	Time-lapse changes of injured neuronal substructures in the central nervous system after low energy two-photon nanosurgery. 2017 , 12, 751-756	5
519	Two-photon intravital imaging of leukocyte migration during inflammation in the respiratory system. 2019 , 34, 101-107	2
518	Detection of Near-membrane Calcium Ions in Live Tissues with a Two-Photon Fluorescent Probe. 2010 , 31, 599-605	11
517	Two-photon probes for biomedical applications. 2013 , 46, 188-94	27
516	Two-photon absorption properties of novel charge transfer molecules with divinyl sulfide/sulfone center. 2015 , 64, 233301	5
515	Fast structured illumination three-dimensional color microscopic imaging method based on Hilbert-transform. 2020 , 69, 128701	1
514	Two-photon calcium imaging of the medial prefrontal cortex and hippocampus without cortical invasion. 2017 , 6,	46
513	A tunable refractive index matching medium for live imaging cells, tissues and model organisms. 2017 , 6,	66
512	Nanoresolution real-time 3D orbital tracking for studying mitochondrial trafficking in vertebrate axons in vivo. 2019 , 8,	18

511	Extended field-of-view ultrathin microendoscopes for high-resolution two-photon imaging with minimal invasiveness. 2020 , 9,	14
510	How many neurons are sufficient for perception of cortical activity?. 2020 , 9,	15
509	Effect of femtosecond laser pulse repetition rate on nonlinear optical properties of organic liquids. 1, e1	3
508	From Zygote to Blastocyst: Application of Ultrashort Lasers in the Field of Assisted Reproduction and Developmental Biology. 2021 , 11,	1
507	Embedding and Backscattered Scanning Electron Microscopy: A Detailed Protocol for the Whole-Specimen, High-Resolution Analysis of Cardiovascular Tissues. 2021 , 8, 739549	2
506	Nonlinear Optical Microscopy with Ultralow Quantum Light. 2021 , 125, 8765-8776	2
505	Characterization of red fluorescent reporters for dual-color in vivo three-photon microscopy.	
504	Diamond Raman Laser and Yb Fiber Amplifier for In Vivo Multiphoton Fluorescence Microscopy.	0
503	Contribution of animal models toward understanding resting state functional connectivity. 2021 , 245, 118630	6
502	Vibrational two-photon microscopy for tissue imaging: Short-wave infrared surface-enhanced resonance hyper-Raman scattering. 2021 , e202100158	1
501	High energy (>40 nJ), sub-100 fs, 950 nm laser for two-photon microscopy. 2021 , 29, 38979-38988	1
500	Large-scale voltage imaging in behaving mice using targeted illumination. 2021 , 24, 103263	1
499	Shot noise limits on binary detection in multiphoton imaging. 2021 , 12, 7033-7048	2
498	In Vivo Three-Photon Microscopy of Mouse Brain Excited at the 2200 nm Window. 2021 , 8, 2898-2903	2
497	An Anatomically and Hemodynamically Realistic Simulation Framework for 3D Ultrasound Localization Microscopy.	
496	Monte Carlo Simulation of Image Depth Improvement by Two-color Two-photon Fluorescence Microscopy. 2008 , 36, 1343-1346	
495	Quantification of Dendrimer Nanoparticle Targeting on Tumor Cells by Two-photon Excitation Fluorescence through a Dual-Clad Optical Fiber. 2008 ,	
494	Nonlinear Imaging by an Endoscope Probe Incorporating a Tip-Tilt-Piston Microelectromechanical System Mirror. 2009 ,	

- 493 Photon-counting photobleaching measurements and the effect of dispersion in two-photon microscopy. **2009**,
- 492 Targeted Occlusion to Surface and Deep Vessels in Neocortex via Linear and Nonlinear Optical Absorption. **2009**, 169-185 2
- 491 Backscattering-mode Nonlinear Absorption Imaging in Turbid Media. **2009**,
- 490 The Influence of Astrocyte Activation on Hemodynamic Signals for Functional Brain Imaging. **2009**, 45-64
- 489 Chapter 2 Principles of Fluorescence for Quantitative Fluorescence Microscopy. **2009**, 35-64
- 488 Molecular Imaging Using Fluorescence and Bioluminescence to Reveal Tissue Response to Laser-Mediated Thermal Injury. **2010**, 799-823
- 487 In Vivo Imaging of Cellular Network Signaling. **2010**, 2753-2757
- 486 Fiber laser and handheld probe based multiphoton microscope. **2010**,
- 485 In vivo deep brain imaging using multiphoton microscopy. **2010**,
- 484 Technology development for deep tissue multiphoton imaging. **2010**,
- 483 Improving 2-Photon Microscopy by Beam Multiplexing and extended Excitation Bandwidth. **2010**,
- 482 Molecular Imaging of Cancer and the Implications for Pre-invasive Disease. **2011**, 167-207
- 481 Biomedical Imaging and Image Processing in Tissue Engineering. **2011**, 155-178 1
- 480 Optical Approaches to Studying the Basal Ganglia. **2011**, 191-220 1
- 479 Optical Imaging. **2011**, 267-279 2
- 478 In vivo two-photon imaging of cortical vasculature in mice to 1.5-mm depth with 1280-nm excitation. **2011**,
- 477 Photon Generation in Electronic Transitions: Lasers and Nanoscopic Sources. **2012**, 67-110
- 476 Scattered light fluorescence microscopy in three dimensions. **2012**,

- 475 In Vivo, Deep Tissue Three-Photon Imaging at the 1700-nm Spectral Window. **2012**, 1
- 474 Pulse compression and continuum generation for two-photon excited fluorescence microscopy. **2012**,
- 473 Intravital Microscopy for THz-Bio Analysis. **2012**, 413-435
- 472 In Vivo Imaging of Neurovascular Coupling with Two-Photon Excitation Laser Scanning Microscopy. **2012**, 40, 230
- 471 Fluorescence Imaging. **2012**, 248-274
- 470 Progress on Whole Brain Imaging Methods at The Level of Optical Microscopy*. **2012**, 39, 498-504 ○
- 469 Random-access Two-photon Microscopy for Neural Activity Observation*. **2012**, 39, 505-512
- 468 Fluorescence Microscopy Imaging in Biomedical Sciences. **2013**, 79-110
- 467 Multiphoton Imaging. **2013**, 233-254
- 466 Endomicroscopy. **2013**, 255-296
- 465 Short Wavelength (929nm) AlInGaAs Quantum Dot Passively Mode-Locked Lasers. **2013**,
- 464 New Approaches in Glial Biology. **2013**, 929-944
- 463 Label-free visualization of pancreatic cell and tissue components using nonlinear optical microscopy. **2013**,
- 462 Brain Metastasis. **2013**, 93-115
- 461 Dynamic control of the tilt of image plane for 3D tissue microscopy. **2013**,
- 460 Confocal Laser Scanning Microscopy. 1-77
- 459 Role of Microglia in the Normal Brain. **2013**,
- 458 Ultrafast Optics for Nonlinear Optical Microscopy. 1-86

457 Multiphoton Brain Imaging. **2014**, 313-321

456 Fluorescent Indicators for Functional Optical Imaging. **2014**, 53-72

2

455 Neocortex in the Spotlight: Concepts, Questions, and Methods. **2014**, 3-18

454 Two-Photon Imaging of Neuronal Network Dynamics in Neocortex. **2014**, 133-150

2

453 Intravital Two-Photon Excitation Microscopy in Neuroscience: General Concepts and Applications. **2014**, 1-23

452 Nonlinear Endomicroscopy Imaging Technology for Translational Applications. **2014**, 281-303

451 Multiphoton imaging with compact femtosecond fiber lasers. **2014**,

450 Lessons from In Vivo Imaging. **2014**, 81-114

449 Towards Deep-Tissue Imaging: Optimizing the Excitation Wavelength. **2014**,

448 Two-photon sensitive photolabile protecting groups: From molecular engineering to nanostructuring. **2014**,

447 Uncovering Tumor Biology by Intravital Microscopy*. **2014**, 153-164

1

446 Zebrafish Brain Development Monitored by Long-Term In Vivo Microscopy: A Comparison Between Laser Scanning Confocal and 2-Photon Microscopy. **2014**, 163-188

445 In vivo super-penetration microscopy for noninvasive imaging of mouse brain. **2014**,

444 Fluorescent Dextran in Intravital Multi-Photon Microscopy. **2014**, 205-219

1

443 In Vivo Imaging in Neurodegenerative Diseases. **2014**, 45-80

0

442 In vivo live-cell imaging in plant tissues by two-photon excitation microscopy. **2014**, 26, 25-30

441 Genetic Labeling of Synapses. **2015**, 231-248

440 Imaging of Complications in Atherosclerosis: Thrombosis and Platelet Aggregation. **2015**, 171-184

- 439 Practical Methods for In Vivo Cortical Physiology with 2-Photon Microscopy and Bulk Loading of Fluorescent Calcium Indicator Dyes. **2015**, 117-141
- 438 Introduction. **2015**, 1-37
- 437 44 nJ, 114 fs Nd-doped fiber laser pulses at 920nm for in vivo two-photon microscopic imaging. **2015**,
- 436 4D Two-photon Fluorescence Hyperspectral Image of Mesophyll Cells inside Intact Leaves. **2015**,
- 435 The μ Opioid Receptor and Stabilization of Brain Ionic Homeostasis in Hypoxia/Ischemia. **2015**, 247-348 1
- 434 The Role of μ Opioid Receptors in Brain Ionic Homeostasis Under Physiological Condition. **2015**, 117-246 1
- 433 ??????????????????2???????. **2015**, 41, 136-137
- 432 Improve the Signal-to-Noise Ratio of Ultrasound-Switchable Fluorescence Technique for Deep-tissue High-resolution Fluorescence Imaging. **2015**,
- 431 Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. **2015**, 1-20
- 430 Patterned Photostimulation in the Brain. **2015**, 235-270 2
- 429 Compact Ultrafast Fiber Lasers for Nonlinear Optical Microscopy. **2015**,
- 428 Stability study of Ultrasound-Switchable Fluorescence contrast agents: ICG-encapsulated poly (N-isopropylacrylamide) nanoparticles. **2015**,
- 427 Deciphering airway remodeling in asthma: Application of multimodal nonlinear optical microscopy. **2015**,
- 426 In vivo optical imaging of structural and functional plasticity of neurovascular unit. **2015**, 26, 99-105
- 425 Imaging the Cortical Representation of Active Sensing in the Vibrissa System. **2015**, 109-128
- 424 Technological Aspects of NADH Monitoring. **2015**, 43-67
- 423 Biomedical in vivo Optical Imaging for Disease Espying and Diagnosis. **2016**, 329-355 0
- 422 Local Manipulation of Neuronal Network with Focused Laser-Induced Perturbation. **2016**, 44, 244

- 421 Dendrites: Recording from Fine Neuronal Structures Using Patch-Clamp and Imaging Techniques. **2016**, 97-121
- 420 Advances in two photon scanning and scanless microscopy technologies for functional neural circuit imaging.
- 419 Encyclopedia of Nanotechnology. **2016**, 1698-1708
- 418 Two-photon microscopy based on fiber delivery of ultrashort laser pulses and supercontinuum generation in a photonic crystal fiber. **2016**,
- 417 Adaptive Field Microscopy: Shaping Field for 3D Laser Scanning Microscopy. **2016**,
- 416 The coming paradigm shift: A transition from manual to automated microscopy. **2016**, 7, 35 3
- 415 Fluorescence Spectroscopy. 1-14
- 414 Chapter 1 Introduction to Full-Field Optical Coherence Microscopy. **2016**, 1-52
- 413 Deep Tissue Fluorescent Imaging via Computational Cannula Microscopy. **2017**,
- 412 A assessment method of early gastric tumor excision based second harmonic generation signal. **2017**,
- 411 Ultrafast semiconductor disk lasers for in vivo multiphoton imaging. **2017**,
- 410 Assessment of Population and ECM Production Using Multiphoton Microscopy as an Indicator of Cell Viability. **2017**, 1601, 243-255
- 409 Computational Cannula Microscopy: Fluorescent Imaging Through Ultra-Thin Glass Needle. **2017**,
- 408 Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. **2017**, 1019-1037
- 407 In vivo multiphoton microscopy beyond 1 mm in the brain. **2017**,
- 406 1 Looking out the optical window. **2017**, 1-28
- 405 Video rate volumetric Ca²⁺ imaging across cortical layers using Seeded Iterative Demixing (SID) microscopy. 0
- 404 Dual Near Infrared Two-Photon Microscopy for Deep-Tissue Dopamine Nanosensor Imaging. 1

403	Brain Neuron Network Extraction and Analysis of Live Mice from Imaging Videos. 2017 , 8, 1-20	
402	Super-resolution imaging by dual patterned nonlinear illumination. 2017 ,	
401	Quadratic interpolation of the transmission matrix for the light propagation control in turbid media. 2018 ,	
400	Introduction. 2018 , 1-14	
399	Imaging of cochlear cells through scattering bone. 2018 ,	
398	Introduction. 2018 , 1-8	1
397	Confocal multispot microscope for fast and deep imaging in semicleared tissues. 2018 , 23, 1-4	1
396	In vivo, two-color multiphoton microscopy using a femtosecond diamond Raman laser. 2018 ,	
395	Spatially confined photoinactivation of bacteria: towards novel tools for detailed mechanistic studies. 2018 ,	
394	Time-reversed ultrasonically encoded (TRUE) focusing for deep-tissue optogenetic modulation. 2018 ,	
393	An animal-actuated rotational head-fixation system for 2-photon imaging during 2-d navigation.	4
392	Three-photon light-sheet fluorescence microscopy.	0
391	Rapid vertical tissue imaging with clinical multiphoton tomography. 2018 ,	1
390	Image reconstruction in multiphoton imaging through multivariate Gaussian fitting. 2018 ,	
389	NONINVASIVE ESTIMATION OF THE LOCAL TEMPERATURE OF BIOTISSUES HEATING UNDER THE ACTION OF LASER IRRADIATION FROM THE LUMINESCENCE SPECTRA OF Nd ³⁺ IONS. 2018 , 7, 25-36	1
388	Whole-brain imaging and characterization of Drosophila brains based on one-, two-, and three-photon excitations.	
387	Label-free imaging using multimodal microscopy in vivo and in vitro. 2018 ,	
386	Swept-source optical coherence tomography microsystem with an integrated Mirau interferometer and electrothermal micro-scanner. 2018 , 43, 4847-4850	3

- 385 Optical Sectioning of Live Mammal with Near-Infrared Light Sheet.
- 384 Breaking the limit of 3D fluorescence microscopy by dual-stage-processing network. 1
- 383 Deep line-temporal focusing with high axial resolution and a large field-of-view using intracavity control and incoherent pulse shaping. **2018**, 43, 4919-4922 2
- 382 Quantitative measurements of gastric cancers based on spectrum-resolved multiphoton imaging. **2018**,
- 381 Segmentation of biological images containing multitarget labeling using the jelly filling framework. **2018**, 5, 044006 1
- 380 Magnetization transfer contrast MRI in GFP-tagged live bacteria. **2019**, 19, 617-621
- 379 Super-resolution imaging in thick scattering samples by structured illumination microscopy with dual nonlinear effects. **2018**,
- 378 Schlieren two-photon microscopy for phase-contrast imaging. **2019**, 58, A26-A31 1
- 377 Fourier conjugate adaptive optics for deep-tissue large field of view imaging. **2018**, 57, 9803-9808
- 376 Central Auditory Processing. **2019**, 111-144
- 375 Targeted Occlusion to Surface and Deep Vessels in Neocortex Via Linear and Nonlinear Optical Absorption. **2019**, 145-162
- 374 Sparse Recovery of Under-Sampled Fiber Bundle Images for In-Vivo Endoscopy. **2019**,
- 373 Two-Photon Scanning Laser Ophthalmoscope. **2019**, 195-211
- 372 Multiplexed temporally focused light shaping through a GRIN lens for precise in-depth optogenetic photostimulation.
- 371 Nonlinear Label-Free Super-Resolution Microscopy Using Structured Illumination. **2019**, 289-312
- 370 Building a Two-Photon Microscope Is Easy. **2019**, 1-16
- 369 iSMORE: An Iterative Self Super-Resolution Algorithm. **2019**, 130-139 0
- 368 Comparison of emission wavelengths for in vivo deep imaging of mouse brain. **2019**,

- 367 Grey matter volume changes and corresponding cellular metrics identified in a longitudinal in vivo imaging approach. 0
- 366 EASY TWO-PHOTON IMAGE-SCANNING MICROSCOPY WITH SPAD ARRAY AND BLIND IMAGE RECONSTRUCTION. 2
- 365 Inner ear cellular imaging through scattering bone. **2019**,
- 364 Adaptive optics microspectrometer for cross-correlation measurement of microfluidic flows. **2019**, 24, 1-15 2
- 363 Optimal NIR and SWIR optical parameters for absorption and SHG detecting deep tissue vessels in intestinal submucosa. **2019**, 0
- 362 Adaptive optics two-photon microscopy for in vivo imaging of cortex and hippocampus in mouse brain. **2019**,
- 361 Multi-site optical recording of neuronal activity with complex light patterns. **2019**,
- 360 Two-photon laser scanning microscopy integrated with light stimulus system. **2019**,
- 359 Nanodiamonds enable adaptive-optics enhanced, super-resolution, two-photon excitation microscopy.
- 358 Engineering the chromatic dispersion in dual-wavelength metalenses for unpolarized visible light. **2019**,
- 357 Comparing the performance of a femto fiber-based laser and a Ti:sapphire used for multiphoton microscopy applications. **2019**, 58, 3830-3835 0
- 356 Dual-plane 3-photon microscopy with remote focusing.
- 355 Simulation approach to optimize fluorescence imaging performance of wide-field temporal-focusing microscopy with tunable wavelength excitation. **2019**,
- 354 Fast, 3D isotropic imaging of whole mouse brain using multi-angle-resolved subvoxel SPIM.
- 353 Dye-enhanced third upconversion Raman overtone in the ultraviolet region under intense excitation of a 532 nm laser. **2019**, 44, 4741-4744
- 352 Improved nondegenerate multiphoton microscopy and axial registration with a reflective objective. **2019**, 44, 5017-5020
- 351 Label-free characterization of visual cortical areas in awake mice via three-photon microscopy reveals correlations between functional maps and structural substrates.
- 350 Minutes-timescale 3D isotropic imaging of entire organs at subcellular resolution by content-aware compressed-sensing light-sheet microscopy.

- 349 Demonstration of flat-top beam illumination in widefield multiphoton microscopy. **2019**, 25, 1-8 0
- 348 Photometric Patch Electrode to Simultaneously Measure Neural Electrical Activity and Optical Signal in the Brain Tissue. **2020**, 131-153
- 347 Two-photon excitation fluorescence lifetime imaging microscopy and spectroscopy for cancer detection. **2019**, 0
- 346 Three-dimensional macro-scale micro-structure imaging with deep ultraviolet excitation. **2019**,
- 345 X-ray 3D imaging of gene expression in whole-mount murine brain by microCT, implication for functional analysis of tRNA endonuclease 54 gene mutated in pontocerebellar hypoplasia.
- 344 Molecular layer interneurons in the cerebellum encode for valence in associative learning.
- 343 Single-scan interferometric second harmonic generation microscopy using a kHz phase-scanner. **2019**, 27, 38435-38450 0
- 342 Enhancing generating and collecting efficiency of single particle upconverting luminescence at low-level power excitation.
- 341 Dopamine differentially modulates the size of projection neuron ensembles in the intact and dopamine-depleted striatum. 1
- 340 Measuring two-photon microscopy ultrafast laser pulse duration at the sample plane using time-correlated single-photon counting. **2020**, 25, 1-9 0
- 339 Two-dimensional random access multiphoton spatial frequency modulated imaging. **2020**, 28, 405-424 1
- 338 Stepwise Two-Photon Photochromism. **2020**, 57-78
- 337 Extended Field-of-View Deep Brain Imaging using Aberration Correction in GRIN Microendoscopes through 3D Printed Polymer Microlenses. **2020**,
- 336 Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. **2020**, 1-41
- 335 Neurohistology with a Touch of History: Technology-Driven Research. **2020**, 1-48
- 334 Introduction: Fluorescent Materials for Cell Imaging. **2020**, 1-15 2
- 333 New advances in the research of stimulated emission depletion super-resolution microscopy. **2020**, 69, 108702 1
- 332 Adaptive optics two-photon microendoscopy for high-resolution and deep-brain imaging in vivo. **2020**,

- 331 High-speed, long-term, 4D in vivo lifetime imaging in intact and injured zebrafish and mouse brains by instant FLIM.
- 330 Extended field-of-view ultrathin microendoscopes for high-resolution two-photon imaging with minimal invasiveness in awake mice.
- 329 Adaptive optics two-photon endomicroscopy enables deep brain imaging at synaptic resolution over large volumes.
- 328 Water-Soluble Fullerenol with Hydroxyl Group Dependence for Efficient Two-Photon Excited Photodynamic Inactivation of Infectious Microbes. **2020**, 15, 99 3
- 327 Balancing signal and photoperturbation in multiphoton light-sheet microscopy by optimizing laser pulse frequency.
- 326 Opto-E-Dura: a Soft, Stretchable ECoG Array for Multimodal, Multi-scale Neuroscience. 0
- 325 Enhanced two-photon photoluminescence assisted by multi-resonant characteristics of a gold nanocylinder. **2020**, 9, 4009-4019 2
- 324 Sphere estimation network: three-dimensional nuclei detection of fluorescence microscopy images. **2020**, 7, 044003 1
- 323 Learned adaptive multiphoton illumination microscopy.
- 322 Anatomical modeling of brain vasculature in two-photon microscopy by generalizable deep learning.
- 321 Dynamic Immunotherapy Study in Brain Tumor-Bearing Mice. **2021**, 221-237
- 320 Altered substrate metabolism in neurodegenerative disease: new insights from metabolic imaging. **2021**, 18, 248 3
- 319 Real-time diagnosis and Gleason grading of prostate core needle biopsies using nonlinear microscopy. **2021**, 0
- 318 Fluorescent Metal Nanoclusters for Bioimaging. **2020**, 97-128
- 317 Photobleaching Imprinting Enhanced Background Rejection in Line-Scanning Temporal Focusing Microscopy. **2020**, 8, 618131
- 316 New 1,3-Disubstituted Benzo[*c*]isoquinoline Cyclen-Based Ligand Platform: Synthesis, Eu Multiphoton Sensitization and Imaging Applications. **2020**, 26,
- 315 voltage-sensitive dye imaging of mouse cortical activity with mesoscopic optical tomography. **2020**, 7, 041402 1
- 314 Possible two-photon absorption in the near-infrared region observed by cavity ring-down spectroscopy. **2020**, 28, 39128-39136 1

313	Dynamic real-time subtraction of stray-light and background for multiphoton imaging. 2021 , 12, 288-302	1
312	Review on Optical Imaging Techniques for Multispectral Analysis of Nanomaterials.. 2022 , 6, 50-61	5
311	Nonlinear Imaging and Spectroscopy in Biomedical Applications. 2020 , 1-26	
310	Enhanced Two-photon Absorption Fluorescence of Fluorescein Biomarkers Using Squeezed Light Excitation. 2020 ,	1
309	Optical Imaging Probes for Amyloid Diseases in Brain. 2020 , 157-182	
308	Near-infrared Femtosecond Time Lens Diode Laser with kW Peak Powers for Two-Photon Microscopy. 2020 ,	
307	Electrochemical carbon fiber-based technique for simultaneous recordings of brain tissue PO ₂ , pH, and extracellular field potentials.	
306	Ultramicroscopy of Nerve Fibers and Neurons: Fine-Tuning the Light Sheets. 2020 , 325-339	1
305	Imaging Applications of Time-Domain Wavefront Shaping. 2020 ,	
304	Biofabrication of 3D tumor models in cancer research. 2020 , 67-90	
303	LED Zappelin—An open source LED controller for arbitrary spectrum visual stimulation and optogenetics during 2-photon imaging.	0
302	Independent apical and basal mechanical systems determine cell and tissue shape in the Drosophila wing disc.	0
301	Polymers and Nanostructured Materials for Drug Nanoparticles, Bioimaging, and Cell Delivery. 1-43	
300	Intraoperative imaging in pathology-assisted surgery. 2021 ,	3
299	Holographic microscope and its biological application. 2021 ,	0
298	Light sheet fluorescence microscopy. 2021 , 1,	15
297	Phototherapy and optical waveguides for the treatment of infection. 2021 , 179, 114036	7
296	Population imaging of synaptically released glutamate in mouse hippocampal slices. 2021 , 2, 100877	0

295	Validation and tuning of in situ transcriptomics image processing workflows with crowdsourced annotations.	
294	Investigating Molecular Diffusion Inside Small Neuronal Compartments with Two-Photon Fluorescence Correlation Spectroscopy. 2020 , 309-328	
293	Influence of pump beam shaping and noise on performance of a direct diode-pumped ultrafast Ti:sapphire laser. 2020 , 28, 31754-31762	1
292	Two-Photon Optogenetic Stimulation of Drosophila Neurons. 2021 , 2191, 97-108	
291	Intravital Imaging of Brain Tumors. 2021 , 85-102	1
290	Dual GRIN lens two-photon endoscopy for high-speed volumetric and deep brain imaging.	
289	Computational optical sectioning by phase-space imaging with an incoherent multiscale scattering model.	
288	Two-photon fluorescence imaging of subsurface tissue structures with volume holographic microscopy. 2020 , 25,	0
287	Nonlinear optical imaging to evaluate the impact of obesity on mammary gland and tumor stroma. 2007 , 6, 205-11	37
286	Two-photon imaging of the trabecular meshwork. 2010 , 16, 935-44	24
285	Trans-scleral imaging of the human trabecular meshwork by two-photon microscopy. 2011 , 17, 583-90	18
284	CONTRACTILITY OF THE RENAL GLOMERULUS AND MESANGIAL CELLS: LINGERING DOUBTS AND STRATEGIES FOR THE FUTURE. 2008 , 4, 1-9	13
283	A multiphoton microscope platform for imaging the mouse eye. 2012 , 18, 1840-8	16
282	Combined transmission, dark field and fluorescence microscopy for intact, 3D tissue analysis of biopsies. 2020 , 25,	1
281	Aggregation induced emission materials for tissue imaging. 2021 , 185, 1-18	
280	Towards non-blind optical tweezing by finding 3D refractive index changes through off-focus interferometric tracking. 2021 , 12, 6922	0
279	Quantum Dots assisted and NIR-II Emissive In Vivo Two-photon microscopy.	4
278	Fast whole-brain imaging of seizures in zebrafish larvae by two-photon light-sheet microscopy.. 2022 , 13, 1516-1536	2

277	Two-photon scanned light sheet fluorescence microscopy with axicon imaging for fast volumetric imaging. 2021 , 26,	2
276	Deep-Tissue Fluorescence Imaging Study of Reactive Oxygen Species in a Tumor Microenvironment. 2021 ,	6
275	Focusing new light on brain functions: multiphoton microscopy for deep and super-resolution imaging. 2021 ,	0
274	Spiral scanning fiber-optic two-photon endomicroscopy with double-cladding antiresonant fiber.	1
273	Bioimaging of superoxide anions in living cells and in vivo: Perfect visualization with fluorescence probes and their applications. 2021 , 199, 109964	0
272	An evaluation of resonant scanning as a high-speed imaging technique for two-photon imaging of cortical vasculature.	0
271	Novel Optics-Based Approaches for Cardiac Electrophysiology: A Review. 2021 , 12, 769586	1
270	Comparison of Two- and Three-Beam Interference Pattern Generation in Structured Illumination Microscopy. 2021 , 8, 526	1
269	Raman microspectroscopy for microbiology. 2021 , 1,	9
268	Imaging innate immunity. 2021 ,	0
267	A survey of physical methods for studying nuclear mechanics and mechanobiology. 2021 , 5, 041508	5
266	Nonlinear Imaging and Spectroscopy in Biomedical Applications. 2021 , 1799-1823	
265	Fluorescence imaging of large-scale neural ensemble dynamics.. 2022 , 185, 9-41	7
264	Impact ionization and multiple photon absorption in the two-dimensional photoexcited Hubbard model. 2022 , 105,	0
263	Video-rate acquisition fluorescence microscopy via generative adversarial networks. 2020 ,	
262	Combined transmission, dark field and fluorescence microscopy for intact, 3D tissue analysis of biopsies. 2020 , 25,	1
261	A Two-Photon Metal-Organic Framework Nanoprobe with Catalytic Hairpin Assembly for Amplified MicroRNA Imaging in Living Cells and Tissues.	
260	Two-Photon Fluorescent Nanomaterials and Their Applications in Biomedicine.. 2021 , 17, 509-528	11

- 259 Cell Recognition Using a Microscope and a Neural Network. **2021**,
- 258 Dispersionless absorption, dispersionless emission, and two-photon dispersion in a double-lambda-type four-level system under Doppler-free condition. **2022**, 137, 1 ○
- 257 Whole-brain optical access in small adult vertebrates with two- and three-photon microscopy. 1
- 256 Rapid deep widefield neuron finder driven by virtual calcium imaging data.
- 255 In vivo imaging in experimental spinal cord injury **Techniques and trends. 2022**, 2, 100859
- 254 Femtosecond optical parametric chirped-pulse amplification in birefringent step-index fiber.. **2022**, 47, 545-548 ○
- 253 Decontaminate Traces From Fluorescence Calcium Imaging Videos Using Targeted Non-negative Matrix Factorization.. **2021**, 15, 797421 ○
- 252 Motility Patterns Displayed by Immune Cells Under Inflammatory Conditions.. **2021**, 12, 804159 1
- 251 AIE-active macromolecules: designs, performances, and applications. **2021**, 13, 8-43 1
- 250 A biocompatible two-photon absorbing fluorescent mitochondrial probe for deep bioimaging.. **2022**, ○
- 249 Aberration Correction to Optimize the Performance of Two-Photon Fluorescence Microscopy Using the Genetic Algorithm.. **2022**, 1-7 1
- 248 Nonlinear Excitation and Self-Action of Bloch Surface Waves Governed by Gradient Optical Forces. **2022**, 9, 211-216 ○
- 247 Calcium imaging for analgesic drug discovery.. **2022**, 11, 100083 ○
- 246 Three-dimensional label-free histological imaging of whole organs by microtomy-assisted autofluorescence tomography.. **2022**, 25, 103721 1
- 245 Power-effective scanning with AODs for 3D optogenetic applications.. **2022**, e202100256 1
- 244 Chronic co-implantation of ultraflexible neural electrodes and a cranial window.. **2022**, 9, 032204 1
- 243 High-speed mosaic imaging using scanner-synchronized stage position sampling.. **2022**, 27, ○
- 242 Non-telecentric two-photon microscopy for 3D random access mesoscale imaging.. **2022**, 13, 544 1

241	Commercially derived versatile optical architecture for two-photon STED, wavelength mixing and label-free microscopy.. 2022 , 13, 1410-1429	1
240	Evaluation of resonant scanning as a high-speed imaging technique for two-photon imaging of cortical vasculature.. 2022 , 13, 1374-1385	1
239	Tracking Neural Stem Cells in vivo: Achievements and Limitations.. 2022 , 1	0
238	Intravital deep-tumor single-beam 3-photon, 4-photon, and harmonic microscopy.. 2022 , 11,	6
237	Carbazole-Functionalized Dipicolinato Ln Complexes Show Two-Photon Excitation and Viscosity-Sensitive Metal-Centered Emission.. 2022 , 245,	0
236	Two-Photon Time-Gated In Vivo Imaging of Dihydrolipoic-Acid-Decorated Gold Nanoclusters.. 2021 , 14,	1
235	Efficiency of Plasmon-Induced Dual-Mode Fluorescence Enhancement upon Two-Photon Excitation.. 2021 , 11,	0
234	Fluorescence techniques in developmental biology. 2018 , 43, 541-553	5
233	Intravital Microscopy Techniques to Image Wound Healing in Mouse Skin.. 2022 , 2440, 165-180	
232	Simultaneously enhancing aggregation-induced emission and boosting two-photon absorption of perylene diimides through regioisomerization.	0
231	Spatial narrowing of two-photon imaging in a silicon CCD camera. 2022 , 1-1	
230	Multidimensional Fluorescence Imaging of Embryonic and Postnatal Mammary Gland Development.. 2022 , 2471, 19-48	0
229	Nanogap-containing thermo-plasmonic nano-heaters for amplified photo-triggered tumor ablation at low laser power density.. 2022 ,	0
228	Understanding the Small World: The Microbes. 2022 , 1-61	0
227	Organic fluorescent nanoprobes with NIR-IIb characteristics for deep learning. 20210097	4
226	Metasurface-based bijective illumination collection imaging provides high-resolution tomography in three dimensions. 2022 , 16, 203-211	3
225	CANCOL, a Computer-Assisted Annotation Tool to Facilitate Colocalization and Tracking of Immune Cells in Intravital Microscopy.. 2022 , 208, 1493-1499	
224	Optical Modalities for Research, Diagnosis, and Treatment of Stroke and the Consequent Brain Injuries. 2022 , 12, 1891	0

223	Improvement in Resolution of Multiphoton Scanning Structured Illumination Microscopy via Harmonics. 2022,	1
222	Photonics tools begin to clarify astrocyte calcium transients.. 2022, 9, 021907	0
221	Bessel-droplet foci enable high-resolution and high-contrast volumetric imaging of synapses and circulation in the brain in vivo.	0
220	Automated chondrocyte viability analysis of articular cartilage based on deep learning segmentation and classification of two-photon microscopic images. 2022,	0
219	In vivo imaging with two-photon microscopy to assess the tumor-selective binding of an anti-CD137 switch antibody.. 2022, 12, 4907	0
218	Imaging plant tissues: advances and promising clearing practices.. 2022,	0
217	Super-Exchange Charge Transfer in One-Photon and Two-Photon Absorption of Multibranched Compounds.. 2022, 7, 9743-9753	
216	Toolbox for studying neurovascular coupling , with a focus on vascular activity and calcium dynamics in astrocytes.. 2022, 9, 021909	1
215	Diamond Raman laser and Yb fiber amplifier for multiphoton fluorescence microscopy.. 2022, 13, 1888-1898	0
214	Live-cell fluorescence spectral imaging as a data science challenge.. 2022, 14, 579-597	1
213	Software for Non-Parametric Image Registration of 2-Photon Imaging Data.. 2022, e202100330	1
212	A deep-learning approach for online cell identification and trace extraction in functional two-photon calcium imaging.. 2022, 13, 1529	1
211	Breaking trade-offs: development of fast, high-resolution, wide-field two-photon microscopes to reveal the computational principles of the brain.. 2022,	0
210	Albumin Uptake and Processing by the Proximal Tubule: Physiologic, Pathologic and Therapeutic Implications.. 2022,	1
209	Single-shot quantitative aberration and scattering length measurements in mouse brain tissues using an extended-source Shack-Hartmann wavefront sensor.. 2022, 30, 15250-15265	0
208	Direct vascular contact is a hallmark of cerebral astrocytes.. 2022, 39, 110599	1
207	A two-photon metal-organic framework nanoprobe with catalytic hairpin assembly for amplified MicroRNA imaging in living cells and tissues. 2022, 359, 131593	1
206	Graphene quantum dots: Synthesis, optical properties and navigational applications against cancer. 2022, 31, 103359	1

- 205 Organelle-specific blue-emitting two-photon probes for calcium ions: Combination with green-emitting two-photon probe for simultaneous detection of proton ions.. **2022**, 244, 123408
- 204 Effects of linkage between donors on photoinduced charge transfer in one-photon and two-photon absorption of Donor- π -Donor- π -Acceptor conjugates.. **2022**, 275, 121179
- 203 Individual Nanoflakes of Two Dimensional Materials Harmonic Generation with Ultralow Pump Power. **2021**,
- 202 Recent Progress in the Correlative Structured Illumination Microscopy. **2021**, 9, 364 0
- 201 Deep-3D microscope: 3D volumetric microscopy of thick scattering samples using a wide-field microscope and machine learning.. **2022**, 13, 284-299 0
- 200 Hexagonal boron nitride second harmonic generation using gold nanorods with continuous laser source. **2021**,
- 199 biPACT: a method for three-dimensional visualization of mouse spinal cord circuits of long segments with high resolution.
- 198 Recent advances of luminogens with aggregation-induced emission in multi-photon theranostics. **2021**, 8, 041328 1
- 197 Recent progress on synthetic and protein-based genetically encoded sensors for fluorimetric Cu(i) recognition: binding and reaction-based approaches. 0
- 196 Design and synthesis of a deep tissue penetrating near-infrared two-photon fluorescence probe for the specific detection of NQO1.. **2022**, 1
- 195 When light meets biology - how the specimen affects quantitative microscopy.. **2022**, 135, 1
- 194 Tomographic-encoded multiphoton (TEMP) microscopy.
- 193 In Situ Three-Dimensional Observation of Perovskite Crystallization Revealed by Two-Photon Fluorescence Imaging. 2200089 0
- 192 Lighting up cosmic neuronal networks with transformative in vivo calcium imaging.. **2022**, 0
- 191 Review on data analysis methods for mesoscale neural imaging .. **2022**, 9, 041407 1
- 190 Video_1.MP4. **2018**,
- 189 Video_2.MP4. **2018**,
- 188 Multiphoton Microscopy of Ag/por-Si Composite. **2022**,

- 187 Cortex-wide fast activation of VIP-expressing inhibitory neurons by reward and punishment.
- 186 Intravital Imaging with Two-Photon Microscopy: A Look into the Kidney. **2022**, 9, 294 2
- 185 Characterization of red fluorescent reporters for dual-color three-photon microscopy.. **2022**, 9, 031912
- 184 Mapping Organizational Changes of Fiber-Like Structures in Disease Progression by Multiparametric, Quantitative Imaging. 2100576 1
- 183 NAD(P)H fluorescence lifetime imaging of live intestinal nematodes reveals metabolic crosstalk between parasite and host.. **2022**, 12, 7264 0
- 182 Background free wide-field fluorescence imaging using edge detection combined with HiLo.. **2022**, e202200031
- 181 Measurement of cerebral oxygen pressure in living mice by two-photon phosphorescence lifetime microscopy.. **2022**, 3, 101370
- 180 A novel and fast-responsive two-photon fluorescent probe with modified group for monitoring endogenous HClO accompanied by a large turn-on signal and its application in zebrafish imaging.. **2022**, 278, 121361
- 179 Shedding Light on the Blood-Brain Barrier Transport with Two-Photon Microscopy In Vivo.. **2022**, 0
- 178 Two-Photon-Excited Single-Molecule Fluorescence Enhanced by Gold Nanorod Dimers.. **2022**, 0
- 177 Current Update on Nanotechnology-Based Approaches in Ovarian Cancer Therapy.. **2022**, 0
- 176 Blood-to-Brain Drug Delivery Using Nanocarriers. **2022**, 501-526
- 175 Two Photon Fluorescence Lifetime Imaging of Reduced Nicotinamide Adenine Dinucleotide in Brain Research. **2022**, 23-38
- 174 Drosophila Brain Advanced Multiphoton Imaging. **2022**, 59-79
- 173 Minimizing Motion Artifacts in Intravital Microscopy Using the Sedative Effect of Dexmedetomidine. 1-8
- 172 Exploration of Nonlinear Optical Properties for the First Theoretical Framework of Non-Fullerene DTS(FBTTh₂)₂-Based Derivatives. 1
- 171 Aggregation-induced emission: An emerging concept in brain science. **2022**, 286, 121581 1
- 170 Label-Free Metabolic Imaging &in vivo& by Two-Photon Fluorescence Lifetime Endomicroscopy.

- 169 Label-free multimodal nonlinear optical imaging of needle biopsy cores for intraoperative cancer diagnosis. **2022**, 27, 2
- 168 High-resolution non-line-of-sight imaging employing active focusing. 1
- 167 Assembly of Aggregation-Induced Emission Active Bola-Amphiphilic Macromolecules into Luminescent Nanoparticles Optimized for Two-Photon Microscopy In Vivo. 0
- 166 Next-Generation Laser Scanning Multiphoton Microscopes are Turnkey, Portable, and Industry-Ready. **2022**, 30, 16-23
- 165 In vivo non-invasive confocal fluorescence imaging beyond 1,700 nm using superconducting nanowire single-photon detectors. 10
- 164 Transport of intensity diffraction tomography with non-interferometric synthetic aperture for three-dimensional label-free microscopy. **2022**, 11, 3
- 163 Arthritis-associated osteoclastogenic macrophage, AtoM, as a key player in pathological bone erosion. **2022**, 42,
- 162 Real-time fiber-optic recording of acute-ischemic-stroke signatures.
- 161 Deep Tissue High-resolution and Background-free Imaging with Plasmonic SAX Microscopy. **2022**, 419-435
- 160 Plasmonic Optical Imaging of Biological Samples. **2022**, 389-417
- 159 Luminescent Metal Complexes in Bioimaging. **2022**, 1073-1107
- 158 Real-time observation of neutrophil extracellular trap formation in the inflamed mouse brain via two-photon intravital imaging. **2022**, 38, 0
- 157 Applications of Fluorescent Nanodiamond in Biology. 1-43
- 156 Investigating the effects of intermolecular interactions on nonlinear optical properties of binary mixtures with high repetition rate femtosecond laser pulses. 4, e23 0
- 155 Deep tissue multi-photon imaging using adaptive optics with direct focus sensing and shaping. 5
- 154 Two-Photon Absorption: An Open Door to the NIR-II Biological Window?. 10, 2
- 153 Image improvement of temporal focusing multiphoton microscopy via superior spatial modulation excitation and Hilbert-Huang transform decomposition. **2022**, 12,
- 152 GRINtrode: A neural implant for simultaneous two-photon imaging and extracellular electrophysiology in freely moving animals. 0

- 151 Advances of Stimulus-Responsive Hydrogels for Bone Defects Repair in Tissue Engineering. **2022**, 8, 389 1
- 150 Depth random-access two-photon Bessel light-sheet imaging indeep tissue.
- 149 Extended the depth of field and zoom microscope with varifocal lens. **2022**, 12, 0
- 148 biPACT: a method for three-dimensional visualization of mouse spinal cord circuits of long segments with high resolution. **2022**, 109672
- 147 Lightsheet Microscopy. **2022**, 2, 1
- 146 Two-Photon Fluorescence in Red and Violet Conjugated Polymer Microspheres. **2022**, 10, 101 2
- 145 Three-Dimensional Virtual Optical Clearing With Cycle-Consistent Generative Adversarial Network. 10,
- 144 Noise-like pulse generation in an Nd-doped single-mode all-fiber mode-locked Raman laser operating at 0.93 μm .
- 143 Imaging of eosin-stained brain section using two-photon excitation fluorescence microscopy. **2022**, 61,
- 142 Dental Age Estimation Using Multiphoton Microscopy: A Potential Tool for Forensic Science. **2022**, 2022, 1-9
- 141 SmaRT2P: a software for generating and processing smart line recording trajectories for population two-photon calcium imaging. **2022**, 9,
- 140 1.7 μm figure-9 Tm-doped ultrafast fiber laser. **2022**, 30, 32347 0
- 139 Viral particles imaging through evanescent wave scattering in a total internal reflection laser microscope. **2022**, 37, 100517
- 138 A Stable Zn-MOF for Photocatalytic Csp3H Oxidation: Vinyl Double Bonds Boosting Electron Transfer and Enhanced Oxygen Activation. 10668-10679 2
- 137 In vivo super-resolution of the brain [How to visualize the hidden nanoplasticity. **2022**, 104961 0
- 136 Physical Mechanisms of Intermolecular Interactions and Cross-Space Charge Transfer in Two-Photon BDBT-TCNB Co-Crystals. **2022**, 12, 2757 0
- 135 Deep-tissue two-photon microscopy with a frequency-doubled all-fiber mode-locked laser at 937nm. **2022**, 1, 1
- 134 Bioimaging of Dissolvable Microneedle Arrays: Challenges and Opportunities. **2022**, 2022, 1-23 0

- 133 Mitochondria-Targeted Ratiometric Chemodosimeter to Detect Hypochlorite Acid for Monitoring the Drug-Damaged Liver and Kidney. ○
- 132 From Transparent Cranial Windows to Multifunctional Smart Cranial Platforms. **2022**, 11, 2559
- 131 Phosphorescent Ir(III) Complexes for Biolabeling and Biosensing. **2022**, 380,
- 130 Tomographic-Encoded Multiphoton Microscopy.
- 129 High-resolution two-photon fluorescence microscope imaging of nanodiamonds containing NV color centers. **2022**, 40, 105874 ○
- 128 Cyclosporine-loaded micelles for ocular delivery: Investigating the penetration mechanisms. **2022**, 349, 744-755 4
- 127 Watt-level gigahertz femtosecond fiber laser system at 920 nm. **2022**, 47, 4941 1
- 126 Optimizing supercontinuum spectro-temporal properties by leveraging machine learning towards multi-photon microscopy. 3, 1
- 125 Highly Efficient and Biologically Compatible Photoremovable Protecting Group for Releasing Tertiary Amines through Two-Photon Excitation. ○
- 124 All-fiber-transmission photometry for simultaneous optogenetic stimulation and multi-color neuronal activity recording. **2020**, 210081-210081 ○
- 123 Practical considerations for quantitative and reproducible measurements with stimulated Raman scattering microscopy. ○
- 122 Adaptive Optical Coherent Raman Scattering Microscopy. **2022**, ○
- 121 Hypochlorous acid-activated two-photon fluorescent probe for evaluation of anticancer drugs-induced cardiotoxicity and screening of antioxidant drugs. ○
- 120 Microchemical Imaging of Oil Paint Composition and Degradation: State-of-the-Art and Future Prospects. **2022**, 359-418 ○
- 119 Multiscale photoacoustic tomography of neural activities with GCaMP calcium indicators. **2022**, 27, ○
- 118 Conjugated-Polymer-Based Photodynamic Therapy. 2200165 ○
- 117 Feasibility Analyses and Experimental Confirmation of Dove Prism Based Dual-fiberscope Rotary Joint. ○
- 116 Recent Advances in Strategies for Imaging Detection and Intervention of Cellular Senescence. ○

115	NIR-II-Excitable Dye-Loaded Nanoemulsions for Two-Photon Microscopy Imaging of Capillary Blood Vessels in the Entire Hippocampal CA1 Region of Living Mice. 2022 , 14, 40481-40490	0
114	Two-photon calcium imaging of neuronal activity. 2022 , 2,	1
113	Advanced observation of brain and nerve cells using two-photon microscopy with novel techniques.	0
112	Background-Free Deep Fluorescent Imaging of a Pore Architecture in Geomaterials Based on Magnetic Upconversion Nanoprobes.	0
111	Adaptive Optical Coherent Raman Imaging of Axons through Mouse Cranial Bone.	1
110	Compact multicolor two-photon fluorescence microscopy enabled by tailorable continuum generation from self-phase modulation and dispersive wave generation.	0
109	Pixelated microfluidics for drug screening on tumour spheroids and ex vivo microdissected primary tissue.	0
108	Multiregion neuronal activity: the forest and the trees.	1
107	Mouse models and human islet transplantation sites for intravital imaging. 13,	1
106	Whole-brain optical access in a small adult vertebrate with two- and three-photon microscopy. 2022 , 25, 105191	0
105	Automating the High-Throughput Screening of Protein-Based Optical Indicators and Actuators.	0
104	Fluorescent Dextran Applications in Renal Intravital Microscopy.	0
103	Three-dimensional natural color imaging based on focus level correlation algorithm using structured illumination microscopy. 10,	0
102	In Vivo Simultaneous Imaging of Plasma Membrane and Lipid Droplets in Hepatic Steatosis using Red-Emissive Two-Photon Probes. 2022 , 94, 15100-15107	0
101	Nd-doped single-mode all-fiber mode-locked cascaded Raman laser operating at 0.94 and 0.98 μm . 2022 , 170175	0
100	Scattering correcting wavefront shaping for three-photon microscopy.	0
99	Bioorganic Two-Photon Nanoprobes with a Photo-Oxidation Enhanced Emission Mechanism.	0
98	Design and development of a mitochondrial-targeted photosensitizer for two-photon fluorescence imaging and photodynamic therapy. 2022 ,	0

- 97 Facile synthesis of ultrabright luminogens with specific lipid droplets targeting feature for in vivo two-photon fluorescence retina imaging. **2022**, 107949 ○
- 96 Optical opening of the blood brain barrier for targeted and ultra-sparse viral infection of cells in the mouse cortex. ○
- 95 Tris(4?-Nitrobiphenyl)amine-An Octupolar Chromophore with High Two-Photon Absorption Cross-Section and Its Application for Uncaging of Calcium Ions in the Near-Infrared Region. ○
- 94 Imaging through scattering media using differential intensity transmission matrices with different Hadamard orderings. ○
- 93 3D scattering microphantom sample to assess quantitative accuracy in tomographic phase microscopy techniques. **2022**, 12, ○
- 92 Intravital Microscopy in Mammalian Organisms: From Tissue Physiology to Cell Biology. **2016**, 161-178 ○
- 91 Two-Photon Imaging. **2022**, 215-241 ○
- 90 Challenges in mitochondrial profiling during pre-clinical studies. **2023**, 101-131 ○
- 89 Integrated multimodal and fluorescence imaging microscope based on LED illumination. **2023**, ○
- 88 Tracing and tracking filamentous structures across scales: A systematic review. **2023**, 21, 452-462 ○
- 87 ADeS: a deep learning based Apoptosis Detection System for live cell imaging. ○
- 86 Cortex-wide response mode of VIP-expressing inhibitory neurons by reward and punishment. 11, ○
- 85 GRINtrode: a neural implant for simultaneous two-photon imaging and extracellular electrophysiology in freely moving animals. **2022**, 9, ○
- 84 Label-Free Metabolic Imaging In Vivo by Two-Photon Fluorescence Lifetime Endomicroscopy. **2022**, 9, 4017-4029 ○
- 83 Imaging tools for plant nanobiotechnology. 4, ○
- 82 Ultrashort pulse focusing through a planar interface between free space and a nonlinear medium. **2023**, 40, 156 ○
- 81 Lens-free 3D imaging based on wavelength scanning. **2022**, ○
- 80 NIT: an open-source tool for information theoretic analysis of neural population data. ○

79	Shortwave-Infrared Line-Scan Confocal Microscope for Deep Tissue Imaging in Intact Organs.	0
78	Nonlinear optical microscopy for skin in vivo: basics, development and applications.	1
77	Two Photon Absorption Properties of CBHB and DEABHB Single Crystals for Optical Limiting Applications.	0
76	An Anatomically Realistic Simulation Framework for 3D Ultrasound Localization Microscopy. 2023 , 1-1	0
75	Moxifloxacin As a Contrast Agent of Two-photon Microscopic Imaging for Detecting Colorectal Diseases.	0
74	Two-photon photoacoustic spectroscopy of liquid solutions under degenerate and non-degenerate laser excitation.	0
73	Photoablation at single cell resolution and its application in the Drosophila epidermis and peripheral nervous system. 13,	0
72	Observing Single Cells in Whole Organs with Optical Imaging.	1
71	Buccal Permeation of Polysaccharide High Molecular Weight Compounds: Effect of Chemical Permeation Enhancers. 2023 , 15, 129	0
70	Proline catabolism is key to facilitating <i>Candida albicans</i> pathogenicity.	0
69	In Vivo Imaging of the Structural Plasticity of Cortical Neurons After Stroke. 2023 , 69-81	0
68	Second Near-Infrared (NIR-II) Window for Imaging-Navigated Modulation of Brain Structure and Function. 2206044	0
67	Ultrafast Laser Pulse Generation by Mode Locking: MATLAB-Based Demonstrations.	0
66	Improving two-photon excitation microscopy for sharper and faster biological imaging. 2023 ,	0
65	Photoacoustic imaging of the brain in animal models. 2023 , 607-620	0
64	Fluorescent proteins and genetically encoded biosensors.	1
63	Two-Photon Excitation of Silicon-Vacancy Centers in Nanodiamonds for All-Optical Thermometry with a Noise Floor of 6.6 mK/Hz ^{1/2} .	0
62	Two-photon Microscopy as visual tool for polymer compatibilization monitoring: The PE-EVOH case.	0

- 61 Second harmonic generation microscopy: a powerful tool for bio-imaging. ○
- 60 Adaptive optical two-photon fluorescence microscopy probes cellular organization of ocular lenses in vivo. ○
- 59 Multi-Photon Microscopy. **2023**, 3, ○
- 58 Pixelated Microfluidics for Drug Screening on Tumour Spheroids and Ex Vivo Microdissected Tumour Explants. **2023**, 15, 1060 1
- 57 An All-Optical Physiology Pipeline Toward Highly Specific and Artifact-Free Circuit Mapping. **2023**, 137-163 ○
- 56 Miniature Multiphoton Microscopes for Recording Neural Activity in Freely Moving Animals. **2023**, 187-230 ○
- 55 In Vivo Non-linear Optical Microscopy as a Multidimensional Approach to Decipher Sensory Coding. **2023**, 1-15 ○
- 54 Raman Scattering and Other Multi-photon Processes. **2023**, 583-621 ○
- 53 The fabrication strategies of near-infrared absorbing transition metal complexes. **2023**, 483, 215096 ○
- 52 In vivo deep-brain 2-photon fluorescent microscopy labeled with near-infrared dyes excited at the 1700nm window. **2023**, 1255, 341118 ○
- 51 An automated platform for Assessing Working Memory and prefrontal circuit function. **2023**, 24, 100518 ○
- 50 Neural circuit changes in neurological disorders: Evidence from in vivo two-photon imaging. **2023**, 87, 101933 ○
- 49 Controlling the Energy Relaxation: Organic Doping in AlEgenNanoparticles for Highly Enhanced Intravital Two-Photon Imaging. ○
- 48 Hyaluronic acid PVA films for the simultaneous delivery of dexamethasone and levofloxacin to ocular tissues. **2023**, 638, 122911 ○
- 47 Tissue clearing and 3D reconstruction of digitized, serially sectioned slides provide novel insights into pancreatic cancer. **2023**, 4, 75-91 1
- 46 Stabilized two-photon intravital imaging using dexmedetomidine. **2023**, ○
- 45 An improving method of imaging through scattering medium under strong background illumination. **2023**, 210, 112548 ○
- 44 Multiplane Image Restoration Using Multivariate Curve Resolution: An Alternative Approach to Deconvolution in Conventional Brightfield Microscopy. **2023**, 10, 163 ○

- 43 Characterization of Chlorogenic Acid as a Two-Photon Fluorogenic Probe that Regulates Glycolysis in Tumor Cells under Hypoxia. **2023**, 66, 2498-2505 ○
- 42 In vivo imaging of inflammatory response in cancer research. **2023**, 43, ○
- 41 Definition and Quantification of Three-Dimensional Imaging Targets to Phenotype Pre-Eclampsia Subtypes: An Exploratory Study. **2023**, 24, 3240 ○
- 40 Digging Deeper through Biological Specimens Using Adaptive Optics-Based Optical Microscopy. **2023**, 10, 178 ○
- 39 Two-photon absorption dynamics by a rectangular entangled-photon pulse with time delay. **2023**, 56, 065501 ○
- 38 Two-Photon Interface of Nuclear Spins Based on the Optonuclear Quadrupolar Effect. **2023**, 13, ○
- 37 In Vivo and 3D Imaging Technique(s) for Spatiotemporal Mapping of Pathological Events in Experimental Model(s) of Spinal Cord Injury. **2023**, 14, 809-819 ○
- 36 From static to dynamic: live observation of the support system after ischemic stroke by two photon-excited fluorescence laser-scanning microscopy. **2023**, 18, 2093 ○
- 35 Two-photon fluorescence imaging using a tunable spectral window based on fiber supercontinuum. **2023**, 48, 1518 ○
- 34 Fluorescent Imaging In Vivo. **2023**, 597-647 ○
- 33 In Vivo Deep-Brain 3- and 4-Photon Fluorescence Imaging of Subcortical Structures Labeled by Quantum Dots Excited at the 2200 nm Window. **2023**, 17, 3686-3695 ○
- 32 MEMS Enabled Miniature Two-Photon Microscopy for Biomedical Imaging. **2023**, 14, 470 1
- 31 Three-photon excited fluorescence imaging in neuroscience: From principles to applications. 17, ○
- 30 A novel histological occlusion classification for coiled aneurysms based on multiphoton microscopy. 159101992311579 ○
- 29 Generation of 1.3 μm femtosecond pulses by cascaded nonlinear optical gain modulation in phosphosilicate fiber. **2023**, 48, 1698 ○
- 28 Towards a New Biomarker for Diabetic Retinopathy: Exploring RBP3 Structure and Retinoids Binding for Functional Imaging of Eyes In Vivo. **2023**, 24, 4408 ○
- 27 Optical Manipulation and Recording of Neural Activity with Wavefront Engineering. **2023**, 1-48 ○
- 26 Light-Based Neuronal Circuit Probing in Living Brains at High Resolution: Constraints and Layouts for Integrating Neuronal Activity Recording and Modulation in Three Dimensions. **2023**, 75-100 ○

- 25 Balancing the Fluorescence Imaging Budget for All-Optical Neurophysiology Experiments. **2023**, 49-74 ○
- 24 Optical and Analytical Methods to Visualize and Manipulate Cortical Ensembles and Behavior. **2023**, 331-361 ○
- 23 Fluorescence. **2023**, 245-329 ○
- 22 Research Progress on Organic Cocrystals Nonlinear Optics Materials and Applications. **2023**, 81, 191 ○
- 21 Dual Behavior Regulation: Tether-Free Deep-Brain Stimulation by Photothermal and Upconversion Hybrid Nanoparticles. ○
- 20 Fluorescence Lifetime Imaging Microscopy (FLIM) reveals spatial-metabolic changes in 3D breast cancer spheroids. **2023**, 13, ○
- 19 Sub-diffraction computational imaging via a flexible multicore-multimode fiber. **2023**, 31, 11249 ○
- 18 Novel Design and Application of High-NA Fiber Imaging Bundles for In Vivo Brain Imaging with Two-Photon Scanning Fluorescence Microscopy. **2023**, 15, 12831-12841 ○
- 17 Multiphoton excited singlet/triplet mixed self-trapped exciton emission. **2023**, 14, ○
- 16 Evaluation of a gain-managed nonlinear fiberamplifier for multiphoton microscopy. ○
- 15 Adaptive optics for optical microscopy [Invited]. **2023**, 14, 1732 1
- 14 Light and electron microscopy continuum-resolution imaging of 3D cell cultures. **2023**, 58, 616-632.e6 ○
- 13 An optical clearing imaging window: Realization of mouse brain imaging and manipulation through scalp and skull. 0271678X2311677 ○
- 12 Rapid detection of neurons in widefield calcium imaging datasets after training with synthetic data. ○
- 11 ?????????????????(??). **2022**, 51, 20220550 ○
- 10 Pulse train gating to improve signal generation for in vivo two-photon fluorescence microscopy. ○
- 9 Advances in Microscopy and Its Applications with Special Reference to Fluorescence Microscope: An Overview. **2023**, 3-17 ○
- 8 NeuroSeg-II: A deep learning approach for generalized neuron segmentation in two-photon Ca²⁺ imaging. 17, ○

- 7 ?????????????????????(??). **2022**, 51, 20220322 ○
- 6 Advances in the Electrophysiological Recordings of Long-Term Potentiation. **2023**, 24, 7134 ○
- 5 Noninvasive Imaging Through Scattering Media with Enlarged FOV Using PSF Estimations and Correlations. ○
- 4 High resolution recording of local field currents simultaneously with sound-evoked calcium signals by a photometric patch electrode in the auditory cortex field L of the chick. **2023**, 109863 ○
- 3 Photocleavable Ortho-Nitrobenzyl-Protected DNA Architectures and Their Applications. ○
- 2 Shining the Light on Astrocytic Ensembles. **2023**, 12, 1253 ○
- 1 A Brief Overview of Neutrophils in Neurological Diseases. **2023**, 13, 743 ○