Memoir on inventing the confocal scanning microscope

Scanning

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Citation Report

#	Article	IF	Citations
1	Future trends in microscopy. Journal of Microscopy, 1989, 155, 419-435.	0.8	6
2	Foundations of Confocal Scanned Imaging in Light Microscopy. , 1990, , 1-14.		30
3	Three-dimensional fluorescence microscopy. Progress in Biophysics and Molecular Biology, 1991, 56, 187-213.	1.4	28
4	A confocal beam scanning whiteâ€light microscope. Journal of Microscopy, 1991, 163, 179-187.	0.8	21
5	Fundamental and practical limits in confocal light microscopy. Scanning, 1991, 13, 184-198.	0.7	25
7	Applications of confocal microscopy to the study of myelin development and neuron structure. Journal of Electron Microscopy Technique, 1991, 18, 31-37.	1.1	2
8	The application of scanning confocal microscopy in cartilage research. The Histochemical Journal, 1991, 23, 328-335.	0.6	16
9	The quantitative evaluation of a confocal surgical microscope. , 1992, , .		О
10	Three-dimensional images of Ram $\tilde{A}^3$ n y Cajal's original preparations, as viewed by confocal microscopy. Trends in Neurosciences, 1992, 15, 246-248.	4.2	10
11	Algorithms for a fast confocal optical inspection system. , 0, , .		10
12	Application of a femtosecond self-sustaining mode-locked Ti:sapphire laser to the field of laser scanning confocal microscopy. Optical and Quantum Electronics, 1992, 24, 851-859.	1.5	80
13	Optimized reflection imaging in laser confocal microscopy and its application to neurobiology: Modificationsa to the biorad MRCâ€500. Scanning, 1992, 14, 104-111.	0.7	25
14	Molecular biology in living cells by means of digital optical microscopy. Micron and Microscopica Acta, 1992, 23, 239-257.	0.2	18
15	Trends in confocal microscopy. Micron, 1993, 24, 237-247.	1.1	18
16	Konfokale Laserscanningâ€Mikroskopie. Physik in Unserer Zeit, 1993, 24, 70-78.	0.0	19
17	Chromosome research?look forward to 2001. Chromosome Research, 1993, 1, 5-7.	1.0	2
18	The application of confocal microscopy to the study of living systems. Neuroscience and Biobehavioral Reviews, 1993, 17, 477-482.	2.9	36
19	Clinical and Diagnostic Use of In Vivo Confocal Microscopy in Patients with Corneal Disease. Ophthalmology, 1993, 100, 1444-1454.	2.5	258

#	Article	IF	CITATIONS
20	Chapter 1 Introduction to Confocal Microscopy and Three-Dimensional Reconstruction. Methods in Cell Biology, 1993, 38, 1-45.	0.5	67
21	Image sharpness and contrast transfer in coherent confocal microscopy. Journal of Microscopy, 1993, 172, 31-39.	0.8	34
23	Optik â€" ein lebendiges Forschungsgebiet mit unerschöpflichem Anwendungspotential. Physik Journal, 1993, 49, 491-494.	0.1	0
24	Fluorescence Confocal Microscopy: Applications in Fungal Cytology. Mycologia, 1993, 85, 721-733.	0.8	15
25	Sources of Noise in Three-Dimensional Microscopical Data Sets. , 1994, , 47-94.		25
26	Three-Dimensional Volume Reconstruction in Confocal Microscopy: Practical Considerations. , 1994, , 169-180.		3
27	Confocal three-dimensional scanning laser Raman-SERS-fluorescence microprobe. Spectral imaging and high-resolution applications. Journal of Raman Spectroscopy, 1994, 25, 699-707.	1.2	53
28	What's new: To boldly glow?. Applications of laser scanning confocal microscopy in developmental biology. BioEssays, 1994, 16, 357-365.	1.2	25
29	Microwaves for immunohistochemistry. Micron, 1994, 25, 151-170.	1.1	59
30	Tools of the Trade Image Manipulation: Confocal images to go?. Current Biology, 1994, 4, 857-860.	1.8	7
31	Fiber-optic laser scanning confocal microscope suitable for fluorescence imaging. Applied Optics, 1994, 33, 573.	2.1	97
32	Confocal microscopy in mycological research. Experimental Mycology, 1994, 18, 275-293.	1.8	44
33	Simultaneous Near Ultraviolet and Visible Excitation Confocal Microscopy of Calcium Transients in Xenopus Oocytes. Methods in Cell Biology, 1994, 40, 263-284.	0.5	6
34	Confocal laser scanning microscopy in nephrology. Nephrology, 1995, 1, 175-179.	0.7	1
35	Confocal microscopy: Uses in measurement of cellular structure and function. Progress in Retinal and Eye Research, 1995, 14, 527-565.	7.3	12
36	Effect of an annular pupil on confocal imaging through highly scattering media. Optics Letters, 1996, 21, 312.	1.7	65
37	Characteristics of Raman Microscopy. , 1996, , 27-49.		24
38	Confocal optical microscopy. Reports on Progress in Physics, 1996, 59, 427-471.	8.1	649

#	Article	IF	Citations
39	Characterizing biostructures and cellular events in 2D/3D [using wide-field and confocal optical sectioning microscopy]. IEEE Engineering in Medicine and Biology Magazine, 1996, 15, 92-100.	1.1	18
40	Imaging developing neural morphology using optical coherence tomography. Journal of Neuroscience Methods, 1996, 70, 65-72.	1.3	92
41	Involvement of the adherens junction - actin filament system in acantholytic dyskeratosis of Hailey-Hailey disease. A histological, ultrastructural, and histochemical study of lesional and non-lesional skin. Journal of Cutaneous Pathology, 1996, 23, 211-222.	0.7	48
43	QUALITATIVE AND QUANTITATIVE SURFACE MICROSCOPY. , 1996, , 943-1032.		10
44	Fact and Artefact in Confocal Microscopy. Advances in Dental Research, 1997, 11, 433-441.	3.6	64
45	A three axis parallel drive microrobot. Review of Scientific Instruments, 1997, 68, 4282-4285.	0.6	4
46	Surface roughness and microtopography., 0,, 82-100.		3
47	Confocal microscopy of colloids. Current Opinion in Colloid and Interface Science, 1997, 2, 158-161.	3.4	31
48	Application of Confocal Laser-Scanning Microscopy to Comparative Endocrinologya. Annals of the New York Academy of Sciences, 1998, 839, 331-335.	1.8	0
49	Confocal fluorescence microscopy of plant cells. Protoplasma, 1998, 201, 121-157.	1.0	116
50	An imaging technique using confocal circular synthetic aperture radar. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1524-1530.	2.7	137
51	Advances in confocal microscopy of the cornea. Eye, 1998, 12, 331-332.	1.1	3
52	Highly accurate non-contact characterization of engineering surfaces using confocal microscopy. Measurement Science and Technology, 1998, 9, 1142-1151.	1.4	116
53	Chapter 20: GFP Biofluorescence: Imaging Gene Expression and Protein Dynamics in Living Cells. Methods in Cell Biology, 1998, , 343-367.	0.5	5
54	Confocal Microscopy: Principles and Practices. Current Protocols in Cytometry, 1998, 5, Unit 2.8.	3.7	5
55	Parallel-mode confocal microscope. Optical Engineering, 1999, 38, 1635.	0.5	31
56	Confocal laser scanning microscopy of calcium dynamics in living cells. Microscopy Research and Technique, 1999, 46, 356-369.	1,2	41
57	Measurement of Intracellular Calcium Concentration Using Confocal Microscopy. , 1999, 114, 75-92.		1

#	Article	IF	CITATIONS
58	Evanescent-wave microscopy: a new tool to gain insight into the control of transmitter release. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 307-318.	1.8	55
59	Concepts in Imaging and Microscopy: Exploring Biological Structure and Function with Confocal Microscopy. Biological Bulletin, 1999, 197, 115-122.	0.7	24
60	Confocal Laser Scanning Microscopy of Environmental Samples. , 1999, , 251-266.		2
61	Confocal Microscopy: Recent Developments. Advances in Imaging and Electron Physics, 1999, 106, 293-345.	0.1	1
62	<title>Confocal scanning laser microscopy and its application in biomedical health sciences &lt;math display="inline"&gt;&lt;/math&gt; /title&gt;. , 1999, 3747, 115.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;63&lt;/td&gt;&lt;td&gt;Specular Microscopy, Confocal Microscopy, and Ultrasound Biomicroscopy. Cornea, 2000, 19, 712-722.&lt;/td&gt;&lt;td&gt;0.9&lt;/td&gt;&lt;td&gt;79&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;64&lt;/td&gt;&lt;td&gt;The beauty of the yeast: Live cell microscopy at the limits of optical resolution. Microscopy Research and Technique, 2000, 51, 511-529.&lt;/td&gt;&lt;td&gt;1.2&lt;/td&gt;&lt;td&gt;48&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;65&lt;/td&gt;&lt;td&gt;Multiphoton microscopy in life sciences. Journal of Microscopy, 2000, 200, 83-104.&lt;/td&gt;&lt;td&gt;0.8&lt;/td&gt;&lt;td&gt;1,170&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;66&lt;/td&gt;&lt;td&gt;Principles and Practices of Laser Scanning Confocal Microscopy. Molecular Biotechnology, 2000, 16, 127-150.&lt;/td&gt;&lt;td&gt;1.3&lt;/td&gt;&lt;td&gt;138&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;67&lt;/td&gt;&lt;td&gt;Single molecule microscopy of biomembranes (Review). Molecular Membrane Biology, 2000, 17, 17-29.&lt;/td&gt;&lt;td&gt;2.0&lt;/td&gt;&lt;td&gt;63&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;68&lt;/td&gt;&lt;td&gt;Multiple-objective microscopy with three-dimensional resolution near 100  nm and a long working distance. Optics Letters, 2001, 26, 1684.&lt;/td&gt;&lt;td&gt;1.7&lt;/td&gt;&lt;td&gt;24&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;69&lt;/td&gt;&lt;td&gt;Confocal microscopy: characterization of fluorescent tracers by image processing of optical sections. Pathologie Et Biologie, 2001, 49, 194-198.&lt;/td&gt;&lt;td&gt;2.2&lt;/td&gt;&lt;td&gt;2&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;71&lt;/td&gt;&lt;td&gt;&lt;/math&gt; &lt;math display="inline"&gt;&lt;/math&gt; &lt;math display="inline"&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;4&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;72&lt;/td&gt;&lt;td&gt;Identification of acquisition parameters from the point spread function of a fluorescence microscope. Optics Communications, 2001, 196, 109-117.&lt;/td&gt;&lt;td&gt;1.0&lt;/td&gt;&lt;td&gt;9&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;73&lt;/td&gt;&lt;td&gt;Fluorescence microscopy with 3D resolution in the 100Ânm range. Comptes Rendus Physique, 2001, 2, 1509-1514.&lt;/td&gt;&lt;td&gt;0.1&lt;/td&gt;&lt;td&gt;0&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;74&lt;/td&gt;&lt;td&gt;Raman Spectroscopy in Ophthalmology: From Experimental Tool to Applications In Vivo. Lasers in Medical Science, 2001, 16, 236-252.&lt;/td&gt;&lt;td&gt;1.0&lt;/td&gt;&lt;td&gt;44&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;75&lt;/td&gt;&lt;td&gt;Chapter 4 Principles of confocal microscopy. Methods in Cell Biology, 2001, 63, 89-106.&lt;/td&gt;&lt;td&gt;0.5&lt;/td&gt;&lt;td&gt;28&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;76&lt;/td&gt;&lt;td&gt;Practical Aspects of Objective Lens Selection for Confocal and Multiphoton Digital Imaging Techniques. Methods in Cell Biology, 2002, 70, 245-299.&lt;/td&gt;&lt;td&gt;0.5&lt;/td&gt;&lt;td&gt;10&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>		

#	Article	IF	Citations
77	Three-Dimensional Confocal Microscopy of the Living Human Eye. Annual Review of Biomedical Engineering, 2002, 4, 69-91.	5.7	41
78	<title>Lifetime imaging with the Zeiss LSM-510</title> ., 2002, , .		15
79	<title>Multiwavelength TCSPC lifetime imaging</title> ., 2002, 4620, 79.		50
80	Introduction to Confocal Microscopy. Methods in Cell Biology, 2002, 70, 1-85.	0.5	34
81	Optical Imaging of Neural Structure and Physiology: Confocal Fluorescence Microscopy in Live Brain Slices., 2002,, 49-76.		6
82	Single molecule fluorescence and force microscopy. Experimental Gerontology, 2002, 37, 1495-1511.	1.2	4
83	Confocal Microscopy of a Dense Particle System. Journal of Colloid and Interface Science, 2002, 245, 75-80.	5.0	36
84	Biological confocal microscopy. Materials Today, 2002, 5, 34-41.	8.3	27
85	Polarized confocal theta microscopy. Comptes Rendus Physique, 2002, 3, 1445-1450.	0.3	1
86	A post-processing technique for extending depth of focus in conventional optical microscopy. Optics and Laser Technology, 2002, 34, 299-305.	2.2	10
87	Single-molecule reader for proteomics and genomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 782, 127-135.	1.2	16
88	Preparative Techniques for Transmission Electron Microscopy and Confocal Laser Scanning Microscopy of Lichens. , 2002, , 87-117.		19
89	Modern laser scanning microscopy in biology, biotechnology and medicine. Annals of Anatomy, 2003, 185, 1-20.	1.0	87
90	In vivo confocal microscopy for evaluation of wound healing following corneal refractive surgery. Progress in Retinal and Eye Research, 2003, 22, 339-358.	7.3	97
91	How the Confocal Laser Scanning Microscope entered Biological Research. Biology of the Cell, 2003, 95, 335-342.	0.7	248
92	Use of the confocal laser scanning microscope in studies on the developmental biology of marine crustaceans. Microscopy Research and Technique, 2003, 60, 458-464.	1.2	26
93	Focusing of light through a stratified medium: a practical approach for computing microscope point spread functions. Part I: Conventional microscopy. Optics Communications, 2003, 216, 55-63.	1.0	62
94	Quantitative Study of Electrokinetic Transport in Porous Media by Confocal Laser Scanning Microscopy. Langmuir, 2003, 19, 4527-4531.	1.6	30

#	Article	IF	CITATIONS
95	Optimizing Detection Sensitivity on Surface-Enhanced Raman Scattering of Transition-Metal Electrodes with Confocal Raman Microscopy. Applied Spectroscopy, 2003, 57, 419-427.	1.2	34
96	Point spread function of optical microscopes imaging through stratified media. Optics Express, 2003, 11, 2964.	1.7	57
97	Corneal nerves: structure, contents and function. Experimental Eye Research, 2003, 76, 521-542.	1.2	981
98	[17] Filters and mirrors for applications in fluorescence microscopy. Methods in Enzymology, 2003, 360, 394-415.	0.4	3
99	Two-photon excitation microscopy. Advances in Imaging and Electron Physics, 2003, , 195-XII.	0.1	14
100	It was twenty years ago today: a celebration of two decades of optical sectioning. BioTechniques, 2003, 35, 1156-1162.	0.8	2
101	The Scanning Confocal Electron Microscope. Microscopy Today, 2003, 11, 8-13.	0.2	25
102	Confocal fluorescence spectroscopy of subcutaneous cartilage expressing green fluorescent protein versus cutaneous collagen autofluorescence. Journal of Biomedical Optics, 2004, 9, 254.	1.4	27
103	In Vivo Confocal Microscopy of Keratic Precipitates. JAMA Ophthalmology, 2004, 122, 1773.	2.6	68
104	Cell motility under the microscope: Vorsprung durch Technik. Nature Reviews Molecular Cell Biology, 2004, 5, 667-672.	16.1	31
105	Kindling molecules: a new way to †break' the Abbe limit. Comptes Rendus Physique, 2004, 5, 143-148.	0.3	2
106	Optically sliced micro-PIV using confocal laser scanning microscopy (CLSM). Experiments in Fluids, 2004, 37, 105-119.	1.1	153
107	Fluorescence lifetime imaging by time-correlated single-photon counting. Microscopy Research and Technique, 2004, 63, 58-66.	1.2	422
108	Focusing of light through a stratified medium: a practical approach for computing microscope point spread functions. Optics Communications, 2004, 235, 1-10.	1.0	34
110	Two-color two-photon 4Pi fluorescence microscopy. Optics Letters, 2004, 29, 1354.	1.7	20
112	One-photon versus Two-photon Laser Scanning Mic roscopy and Digital Image Analysis of Microbial Biofilms. Methods in Microbiology, 2004, 34, 89-136.	0.4	21
113	Two-Photon Imaging for Studying the Microbial Ecology of Biofilm Systems. Microbes and Environments, 2004, 19, 1-6.	0.7	15
114	Evaluation of the Corneal Endothelium. Techniques in Ophthalmology, 2005, 3, 19-26.	0.1	4

#	Article	IF	CITATIONS
115	A comparison of surface metrology techniques. Journal of Physics: Conference Series, 2005, 13, 458-465.	0.3	49
116	A new wide field-of-view confocal imaging system and its applications in drug discovery and pathology., 2005, 6009, 600904.		0
117	Microscopy and Image Analysis. Current Protocols in Human Genetics, 2005, 46, Unit 4.4.	3.5	10
118	Improvement of the LLS and MAP deconvolution algorithms by automatic determination of optimal regularization parameters and pre-filtering of original data. Optics Communications, 2005, 244, 37-49.	1.0	12
119	Penetration of bonding resins into fibre-reinforced composite posts: a confocal microscopic study. International Endodontic Journal, 2005, 38, 46-51.	2.3	89
120	Optical sectioning microscopy. Nature Methods, 2005, 2, 920-931.	9.0	685
121	Mechanobiology in the Third Dimension. Annals of Biomedical Engineering, 2005, 33, 1469-1490.	1.3	343
122	Fluorescence Analysis in Microarray Technology. Mikrochimica Acta, 2005, 151, 1-21.	2.5	112
123	Confocal microscopy: comparisons, applications, and problems. BioTechniques, 2005, 39, S2-S5.	0.8	69
124	Four-dimensional cardiac imaging in living embryos via postacquisition synchronization of nongated slice sequences. Journal of Biomedical Optics, 2005, 10, 054001.	1.4	147
125	Image estimation for structured-illumination microscopy. , 2005, , .		3
126	Multi-Dimensional Time-Correlated Single Photon Counting. , 2005, , 77-108.		2
127	Stimulated emission depletion microscopy on lithographic nanostructures. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S695-S705.	0.6	27
128	Excitation beyond the monochromatic laser limit: simultaneous 3-D confocal and multiphoton microscopy with a tapered fiber as white-light laser source. Journal of Biomedical Optics, 2005, 10, 054009.	1.4	21
130	Confocal laser scanning microscopy in orthopaedic research. Progress in Histochemistry and Cytochemistry, 2005, 40, 1-71.	5.1	57
131	In Vivo Confocal Microscopy Study of Blebs after Filtering Surgery. Ophthalmology, 2005, 112, 1979.e1-1979.e9.	2.5	119
132	Two-photon fluorescence excitation and related techniques in biological microscopy. Quarterly Reviews of Biophysics, 2005, 38, 97-166.	2.4	276
133	Automated MEMS-based Drosophila embryo injection system for high-throughput RNAi screens. Lab on A Chip, 2006, 6, 1012.	3.1	65

#	Article	IF	CITATIONS
134	In Vivo Confocal Microscopy of the Ocular Surface. Ocular Surface, 2006, 4, 81-93.	2.2	117
135	The colored revolution of bioimaging. IEEE Signal Processing Magazine, 2006, 23, 20-31.	4.6	120
136	Past, Present, and Future of High Content Screening and the Field of Cellomics., 2007, 356, 3-18.		48
137	Tandem Scanning Confocal Corneal Microscopy in the Diagnosis of Suspected Acanthamoeba Keratitis. Ophthalmology, 2006, 113, 538-547.	2.5	130
138	Clinical Corneal Confocal Microscopy. Survey of Ophthalmology, 2006, 51, 482-500.	1.7	73
139	Fault zone geometry of a mature active normal fault: A potential high permeability channel (Pirgaki) Tj ETQq1 1	0.78 <u>4</u> 314	rgBT/Overloc
140	La técnica de impregnación argéntica de Golgi. Conmemoración del centenario del premio nobel de Medicina (1906) compartido por Camillo Golgi y Santiago Ramón y Cajal. Biomedica, 2006, 26, 498.	0.3	9
141	Multi-kernel deconvolution applied to confocal fluorescence microscopy with engineered point spread function. Journal of the European Optical Society-Rapid Publications, 2006, $1, \dots$	0.9	4
142	Laser Scanning Confocal Microscopy. Kobunshi, 2006, 55, 961-965.	0.0	17
143	A comparison of surface metrology techniques. , 2006, , .		1
145	MEMS deformable mirror for ophthalmic imaging. , 2006, 6113, 66.		4
146	Discussion of the finite element method in optical diffraction tomography. , 2006, 6188, 129.		o
147	In Vivo Confocal Microscopy of Normal Conjunctiva and Conjunctivitis. Cornea, 2006, 25, 781-788.	0.9	95
148	Improving the lateral resolution in confocal fluorescence microscopy using laterally interfering excitation beams. Optics Communications, 2006, 259, 400-408.	1.0	15
149	Use of confocal laser scanning microscopy (CLSM) for depthwise resolved microscale-particle image velocimetry ( $\hat{l}_4$ -PIV). Optics and Lasers in Engineering, 2006, 44, 208-223.	2.0	21
150	The Potential of Confocal Imaging for Measuring Physiological Changes in Brewer's Yeast. Journal of the Institute of Brewing, 2006, 112, 134-147.	0.8	13
151	Foundations of Confocal Scanned Imaging in Light Microscopy. , 2006, , 1-19.		100
152	Non-Laser Light Sources for Three-Dimensional Microscopy. , 2006, , 126-144.		6

#	ARTICLE	IF	CITATIONS
154	The Intermediate Optical System of Laser-Scanning Confocal Microscopes. , 2006, , 207-220.		23
155	Principles of two-photon excitation fluorescence microscopy and other nonlinear imaging approaches. Advanced Drug Delivery Reviews, 2006, 58, 788-808.	6.6	192
156	Visualising fouling of a chromatographic matrix using confocal scanning laser microscopy. Biotechnology and Bioengineering, 2006, 95, 714-723.	1.7	20
157	In vivo confocal scanning laser microscopy: comparison of the reflectance and fluorescence mode by imaging human skin. Journal of Biomedical Optics, 2006, 11, 044012.	1.4	60
158	Comparative Anatomy of Laboratory Animal Corneas with a New-Generation High-ResolutionIn VivoConfocal Microscope. Current Eye Research, 2006, 31, 501-509.	0.7	55
159	A VR ENHANCED COLLABORATIVE SYSTEM FOR 3D CONFOCAL MICROSCOPIC IMAGE PROCESSING AND VISUALIZATION. International Journal of Image and Graphics, 2006, 06, 231-250.	1.2	5
161	A new parallel plate shear cell for in situ real-space measurements of complex fluids under shear flow. Review of Scientific Instruments, 2007, 78, 103902.	0.6	28
162	Technology Insight: microarrays—research and clinical applications. Nature Clinical Practice Endocrinology and Metabolism, 2007, 3, 594-605.	2.9	4
163	Single-Molecule Fluorescence Analysis of Cellular Nanomachinery Components. Annual Review of Biophysics and Biomolecular Structure, 2007, 36, 371-394.	18.3	15
164	Assessment of Bone, Cartilage, Tendon and Bone Cells by Confocal Laser Scanning Microscopy. , 2007, , 353-367.		0
165	Laser-Scanning Confocal Microscopy. , 2007, , 39-46.		1
166	Confocal fluorescence microscopy (CLSM) for food structure characterisation., 2007,, 232-260.		11
167	Current applications of clinical confocal microscopy. Current Opinion in Ophthalmology, 2007, 18, 300-307.	1.3	26
168	Multi-dimensional time-correlated single-photon counting. , 2007, , .		1
169	The Integument of Water-walking Arthropods: Form and Function. Advances in Insect Physiology, 2007, , 117-192.	1.1	192
170	1.1 Survey of laser systems. , 0, , 3-29.		0
171	Advances in ocular imaging. Expert Review of Ophthalmology, 2007, 2, 755-767.	0.3	3
172	Confocal microscopy of colloids. Journal of Physics Condensed Matter, 2007, 19, 113102.	0.7	207

#	Article	IF	Citations
173	Nanoimaging in protein-misfolding andÂ-conformational diseases. Nanomedicine, 2007, 2, 615-643.	1.7	13
174	Physical and Technical Background., 2007,, 15-77.		18
175	Potential solutions for confocal imaging of living animals. BioTechniques, 2007, 43, S14-S19.	0.8	16
176	Seeing is believing: A focus on the contribution of microscopic imaging to our understanding of immune system function. European Journal of Immunology, 2007, 37, S18-S33.	1.6	43
177	Simple windows-based software for the control of laser scanning confocal microscopes. Journal of Neuroscience Methods, 2007, 162, 26-31.	1.3	3
178	In vivo confocal microscopy in the normal corneas of cats, dogs and birds. Veterinary Ophthalmology, 2007, 10, 222-230.	0.6	56
179	Contemporary in vivo confocal microscopy of the living human cornea using white light and laser scanning techniques: a major review. Clinical and Experimental Ophthalmology, 2007, 35, 71-88.	1.3	168
180	Contact lens-induced changes in the anterior eye as observed in vivo with the confocal microscope. Progress in Retinal and Eye Research, 2007, 26, 398-436.	7.3	130
181	Chapter 2. Scanning Transmission Electron Microscopy. RSC Nanoscience and Nanotechnology, 2007, , 28-65.	0.2	6
182	Pharmaceutical applications of confocal laser scanning microscopy: The physical characterisation of pharmaceutical systems. Advanced Drug Delivery Reviews, 2007, 59, 1434-1452.	6.6	83
183	Virtual slit scanning microscopy. Histochemistry and Cell Biology, 2007, 128, 499-505.	0.8	18
184	Confocal laser scanning microscopy. Using new technology to answer old questions in forensic investigations. International Journal of Legal Medicine, 2008, 122, 173-177.	1.2	39
185	Widefield fluorescence microscopy with extended resolution. Histochemistry and Cell Biology, 2008, 130, 807-17.	0.8	31
186	The Structure and Dynamics of Microparticles at Pickering Emulsion Interfaces. Scanning, 2008, 30, 87-95.	0.7	37
188	Contrast and resolution enhancement in a confocal terahertz video system. JETP Letters, 2008, 88, 492-495.	0.4	12
189	Super-resolution for a 3D world. Nature Methods, 2008, 5, 471-472.	9.0	5
190	Confocal THz imaging using a gas laser. , 2008, , .		1
191	Seeing Circuits Assemble. Neuron, 2008, 60, 441-448.	3.8	24

#	Article	IF	CITATIONS
192	Axial coding in full-field microscopy using three-dimensional structured illumination implemented with no moving parts. Optics Letters, 2008, 33, 1617.	1.7	8
193	Contrast enhancing techniques in digital holographic microscopy. Measurement Science and Technology, 2008, 19, 025501.	1.4	17
194	Holography, tomography and 3D microscopy as linear filtering operations. Measurement Science and Technology, 2008, 19, 074012.	1.4	51
195	Surface characterisation of daguerreotypes with the optical metrological technique of confocal microscopy. Surface Engineering, 2008, 24, 138-146.	1.1	10
196	Chapter 5 Imaging in Depth. Methods in Cell Biology, 2008, 89, 95-128.	0.5	10
197	Confocal microscopy: when is it helpful to diagnose corneal and conjunctival disease?. Expert Review of Ophthalmology, 2008, 3, 177-192.	0.3	6
198	Ultrashort pulse laser ionization microscopy. , 2008, , .		0
199	Clinical applications of corneal confocal microscopy. Clinical Ophthalmology, 2008, 2, 435.	0.9	66
200	Over the rainbow: 25 years of confocal imaging. BioTechniques, 2008, 44, 643-648.	0.8	20
201	Anatomical and molecular imaging of skin cancer. Clinical, Cosmetic and Investigational Dermatology, 2008, 1, 1.	0.8	22
202	Single Molecule Microarray Analysis. , 2009, , 289-316.		1
203	Comparison of Microleakage in Human and Bovine Substrates Using Confocal Microscopy. Bulletin of Tokyo Dental College, The, 2009, 50, 111-116.	0.1	17
204	Frontiers in fluorescence microscopy. International Journal of Developmental Biology, 2009, 53, 1569-1579.	0.3	19
205	Confocal terahertz imaging. Applied Physics Letters, 2009, 95, .	1.5	16
206	Scanning laser microscopy: From far field to near field. , 2009, , .		0
207	Fibered Confocal Microscopy of Bladder Tumors: An <i>ex Vivo</i> Study. Journal of Endourology, 2009, 23, 197-202.	1.1	44
208	Laser diffraction microscopy. Reports on Progress in Physics, 2009, 72, 076601.	8.1	13
209	3D Confocal Laser Scanning Microscopy for the Analysis of Chlorophyll Fluorescence Parameters of Chloroplasts in Intact Leaf Tissues. Plant and Cell Physiology, 2009, 50, 90-105.	1.5	21

#	Article	IF	CITATIONS
210	Compact handheld digital holographic microscopy system development., 2009,,.		4
211	Use of confocal laser scanning microscopy in systematics of insects with a comparison of fluorescence from different stains. Systematic Entomology, 2009, 34, 10-14.	1.7	22
212	Shine a light: Imaging the immune system. European Journal of Immunology, 2009, 39, 1188-1202.	1.6	6
213	Structures of the corneal limbus detected by laser-scanning confocal biomicroscopy as related to the palisades of Vogt detected by slit-lamp microscopy. Japanese Journal of Ophthalmology, 2009, 53, 199-203.	0.9	16
214	Saturated structured confocal microscopy with theoretically unlimited resolution. Optics Communications, 2009, 282, 3657-3664.	1.0	26
215	Confocal THz Laser Microscope. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 358.	1.2	9
216	Optical microscopy in photosynthesis. Photosynthesis Research, 2009, 102, 111-141.	1.6	38
217	<i>In vivo</i> confocal microscopy of the normal equine cornea and limbus. Veterinary Ophthalmology, 2009, 12, 57-64.	0.6	44
218	Features of wear of brittle inorganic materials during friction and abrasive machining. Journal of Friction and Wear, 2009, 30, 33-40.	0.1	2
219	Soft X-ray microscopy in the spectral region of "carbon window―with the use of multilayer optics and a laser-plasma source. Journal of Experimental and Theoretical Physics, 2009, 109, 872-884.	0.2	8
220	Confocal Microscopy in Ophthalmology. American Journal of Ophthalmology, 2009, 148, 639-646.	1.7	146
221	Complex Applications of Simple FRAP on Membranes. , 2009, , 187-221.		6
222	Chapter 1 The Resolution Challenge in 3D Optical Microscopy. Progress in Optics, 2009, 53, 1-67.	0.4	47
223	Spectroscopy at Electrochemical Interfaces. Springer Series in Chemical Physics, 2009, , 35-231.	0.2	0
224	Optical Biopsy of Human Bladder Neoplasia With In Vivo Confocal Laser Endomicroscopy. Journal of Urology, 2009, 182, 1299-1305.	0.2	170
225	Millisecond timescale slimfield imaging and automated quantification of single fluorescent protein molecules for use in probing complex biological processes. Integrative Biology (United Kingdom), 2009, $1,602$ .	0.6	108
226	Contribution of In Vivo Confocal Microscopy to the Diagnosis and Management of Infectious Keratitis. Ocular Surface, 2009, 7, 41-52.	2.2	102
227	Optical microscopy for textile fibre identification. , 2009, , 133-157.		6

#	Article	IF	Citations
228	Three-dimensional imaging by optical sectioning in the aberration-corrected scanning transmission electron microscope. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 3825-3844.	1.6	67
230	MULTIPHOTON MICROSCOPY: A NEW APPROACH, IN PHYSIOLOGICAL STUDIES AND PATHOLOGICAL DIAGNOSIS FOR OPHTHALMOLOGY. Journal of Innovative Optical Health Sciences, 2009, 02, 45-60.	0.5	3
231	Optimal pupil design for confocal microscopy. , 2010, , .		1
232	Morphometry of Corneal Epithelial Cells on Normal Eyes and After Anterior Lamellar Keratoplasty. Cornea, 2010, 29, 1118-1124.	0.9	10
233	Microscopy of soft materials. , 0, , 1-24.		2
234	Image Contrast in Aberration-Corrected Scanning Confocal Electron Microscopy. Advances in Imaging and Electron Physics, 2010, 162, 45-76.	0.1	11
235	Raman Microspectrometry Applied to the Study of Electrode Materials for Lithium Batteries. Chemical Reviews, 2010, 110, 1278-1319.	23.0	622
236	Advanced optical imaging in living embryos. Cellular and Molecular Life Sciences, 2010, 67, 3489-3497.	2.4	12
237	Application of micro-FTIR imaging in the Earth sciences. Analytical and Bioanalytical Chemistry, 2010, 397, 2039-2049.	1.9	37
238	Key technologies of light field capture for 3D reconstruction in microscopic scene. Science China Information Sciences, 2010, 53, 1917-1930.	2.7	3
239	Confocal microscopy and optical coherence tomography imaging of hereditary granular dystrophy. Contact Lens and Anterior Eye, 2010, 33, 33-40.	0.8	7
240	Diagnostic morphometric applicability of confocal laser scanning microscopy in Osteoarchaeology. International Journal of Osteoarchaeology, 2010, 20, 708-718.	0.6	10
241	Soft X-ray imaging of thick carbon-based materials using the normal incidence multilayer optics. Micron, 2010, 41, 722-728.	1.1	13
242	Imaging properties of bright-field and annular-dark-field scanning confocal electron microscopy. Ultramicroscopy, 2010, 111, 20-26.	0.8	18
243	The use of laser scanning confocal microscopy (LSCM) in materials science. Journal of Microscopy, 2010, 240, 173-180.	0.8	59
244	The economy of photons. Nature Methods, 2010, 7, 357-359.	9.0	18
245	The Effect of Milk Processing on the Microstructure of the Milk Fat Globule and Rennet Induced Gel Observed Using Confocal Laser Scanning Microscopy. Journal of Food Science, 2010, 75, E135-45.	1.5	72
246	Applications of Adaptive Optics Scanning Laser Ophthalmoscopy. Optometry and Vision Science, 2010, 87, 260-268.	0.6	60

#	Article	IF	CITATIONS
247	Optical Biopsy at the Bedside. Archives of Dermatology, 2010, 146, 909-10.	1.7	4
250	Advanced Microscopy of Microbial Cells. Advances in Biochemical Engineering/Biotechnology, 2010, 124, 21-54.	0.6	8
251	Fluoro- and Chromogenic Chemodosimeters for Heavy Metal Ion Detection in Solution and Biospecimens. Chemical Reviews, 2010, 110, 6280-6301.	23.0	1,252
252	The correlation confocal microscope. Optics Express, 2010, 18, 9765.	1.7	9
253	Recent advances in confocal microscopy for studying drug delivery to the eye: Concepts and pharmaceutical applications. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 74, 33-40.	2.0	14
254	Surface analysis of membrane dynamics. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 766-776.	1.4	40
255	Single-Biomolecule Kinetics: The Art of Studying a Single Enzyme. Annual Review of Analytical Chemistry, 2010, 3, 319-340.	2.8	47
256	Enhancement of contrast and spatial resolution in confocal coherent terahertz imaging system. , 2010, , .		1
257	Imaging the Dynamics of Biological Processes via Fast Confocal Microscopy and Image Processing. Cold Spring Harbor Protocols, 2011, 2011, pdb.top117-pdb.top117.	0.2	3
258	Wide-Range Displacement Sensor Based on Fiber-Optic Fabry–Perot Interferometer for Subnanometer Measurement. IEEE Sensors Journal, 2011, 11, 1602-1606.	2.4	147
259	Laser Scanning Cytometry and Its Applications: A Pioneering Technology in the Field of Quantitative Imaging Cytometry. Methods in Cell Biology, 2011, 102, 159-205.	0.5	29
260	Review of Super-Resolution Fluorescence Microscopy for Biology. Applied Spectroscopy, 2011, 65, 967-980.	1.2	258
261	Spatially resolved Brillouin spectroscopy to determine the rheological properties of the eye lens. Biomedical Optics Express, 2011, 2, 2144.	1.5	62
262	Combined Covalent and Noncovalent Functionalization of Nanomagnetic Carbon Surfaces with Dendrimers and BODIPY Fluorescent Dye. Chemistry of Materials, 2011, 23, 3606-3613.	3.2	39
263	Core–shell nanoparticle of silver coated with light-emitting rubrene: Surface plasmon enhanced photoluminescence. Synthetic Metals, 2011, 161, 2103-2106.	2.1	12
264	Application of Confocal Laser Scanning Microscopy to the In-situ and Ex-situ Study of Corrosion Processes. , 2011, , .		3
265	Intravital imaging of phagocyte recruitment. Thrombosis and Haemostasis, 2011, 105, 802-810.	1.8	34
266	Scanning and Image Reconstruction Techniques in Confocal Laser Scanning Microscopy. , 0, , .		3

#	Article	IF	CITATIONS
267	The Basics of Confocal Microscopy. , 0, , .		3
268	Characterization and quantification of woundâ€induced hair follicle neogenesis using ⟨i⟩in vivo⟨ i⟩ confocal scanning laser microscopy. Skin Research and Technology, 2011, 17, 387-397.	0.8	28
269	Imaging single cells in the living retina. Vision Research, 2011, 51, 1379-1396.	0.7	187
270	A CMOS In-Pixel CTIA High-Sensitivity Fluorescence Imager. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 449-458.	2.7	62
271	Review of Near-Field Terahertz Measurement Methods and Their Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 976-1019.	1.2	183
272	Depth-resolved Imaging and Displacement Measurement Techniques Viewed as Linear Filtering Operations. Experimental Mechanics, 2011, 51, 453-465.	1.1	11
273	Investigations of new possibilities in the calibration of diamond hardness indenters geometry. Measurement: Journal of the International Measurement Confederation, 2011, 44, 351-358.	2.5	11
274	Automated identification of epidermal keratinocytes in reflectance confocal microscopy. Journal of Biomedical Optics, 2011, 16, 030502.	1.4	31
275	Methods for Imaging Thick Specimens: Confocal Microscopy, Deconvolution, and Structured Illumination. Cold Spring Harbor Protocols, 2011, 2011, pdb.top066936.	0.2	31
276	Feasibility investigation of using tunable infrared communications laser for multiwavelength digital holographic Laplacian reconstruction. Optical Engineering, 2011, 50, 105801.	0.5	3
277	Object-depending artifacts in confocal measurements. Proceedings of SPIE, 2012, , .	0.8	8
278	Deep and optically resolved imaging through scattering media by space-reversed propagation. Optics Letters, 2012, 37, 4823.	1.7	7
279	Development of optical system with rotational misalignment adjustment for multi-optical-probe confocal microscopy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 06F702.	0.6	2
280	Terahertz confocal microscopy with a quantum cascade laser source. Optics Express, 2012, 20, 21924.	1.7	52
281	Sensitivity of synthetic aperture laser optical feedback imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 476.	0.8	6
282	Synthetic aperture laser optical feedback imaging using a translational scanning with galvanometric mirrors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1639.	0.8	9
283	Limitations of synthetic aperture laser optical feedback imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2247.	0.8	2
284	Fluorescence Imaging of Osteoclasts Using Confocal Microscopy. Methods in Molecular Biology, 2012, 816, 401-424.	0.4	3

#	Article	IF	CITATIONS
285	Swept Field Laser Confocal Microscopy for Enhanced Spatial and Temporal Resolution in Live-Cell Imaging. Microscopy and Microanalysis, 2012, 18, 753-760.	0.2	26
286	Advanced Nanomeasuring Techniques for Surface Characterization. , 2012, 2012, 1-23.		26
287	Design and analysis of a cross-type structured-illumination confocal microscope for high speed and high resolution. Measurement Science and Technology, 2012, 23, 105403.	1.4	5
288	Resolution and localization. , 2012, , 86-130.		1
290	Optics and Photonics: Key Enabling Technologies. Proceedings of the IEEE, 2012, 100, 1604-1643.	16.4	42
291	A Review of Micromodels and Their Use in Two-Phase Flow Studies. Vadose Zone Journal, 2012, 11, vzj2011.0072.	1.3	169
292	Evaluation of Dry Eye. Survey of Ophthalmology, 2012, 57, 293-316.	1.7	131
293	Colloidal aggregates tested via nanoindentation and quasi-simultaneous 3D imaging. European Physical Journal E, 2012, 35, 124.	0.7	23
294	2.2 Confocal Microscopy. , 2012, , 3-23.		20
297	Multimodal spatially resolved near-field scattering and absorption spectroscopy. , 2012, , .		5
298	The Confocal Story. , 2012, , 3-5.		4
299	Oil-sealed femtoliter fiber-optic arrays for single molecule analysis. Lab on A Chip, 2012, 12, 2229.	3.1	41
300	Focal Modulation Microscopy: Principle and Techniques. , 0, , .		0
301	Advances in microscopy and complementary imaging techniques to assess the fate of drugs ex vivo in respiratory drug delivery. Advanced Drug Delivery Reviews, 2012, 64, 344-356.	6.6	30
302	Optical sectioning in reciprocal fiber-optic based chromatic confocal microscope. Optik, 2012, 123, 1450-1452.	1.4	3
303	Imaging properties of bright-field and annular-dark-field scanning confocal electron microscopy: II. Point spread function analysis. Ultramicroscopy, 2012, 112, 53-60.	0.8	7
304	Sparse Poisson Noisy Image Deblurring. IEEE Transactions on Image Processing, 2012, 21, 1834-1846.	6.0	71
305	Confocal Endomicroscopy: Instrumentation and Medical Applications. Annals of Biomedical Engineering, 2012, 40, 378-397.	1.3	138

#	Article	IF	CITATIONS
306	Corneal Confocal Microscopy: A New Technique for Early Detection of Diabetic Neuropathy. Current Diabetes Reports, 2013, 13, 488-499.	1.7	60
307	<i>In vivo</i> confocal microscopy in dermatology: from research to clinical application. Journal of Biomedical Optics, 2013, 18, 061212.	1.4	42
308	In situ measurement of crystal surface dynamics in pure and contaminated solutions by Confocal Microscopy and Atomic Force Microscopy. Crystal Research and Technology, 2013, 48, 919-941.	0.6	6
309	Optical imaging techniques for point-of-care diagnostics. Lab on A Chip, 2013, 13, 51-67.	3.1	320
310	Single Cell Optical Imaging and Spectroscopy. Chemical Reviews, 2013, 113, 2469-2527.	23.0	250
311	Optical fibers for high-resolution in vivo microendoscopic fluorescence imaging. Optical Fiber Technology, 2013, 19, 760-771.	1.4	114
312	Laser profilometer using a Fabry–Perot etalon and an objective. Sensors and Actuators A: Physical, 2013, 203, 47-51.	2.0	2
313	Parallel large-range scanning confocal microscope based on a digital micromirror device. Optik, 2013, 124, 1585-1588.	1.4	6
314	3. Ocular surface health with contact lens wear. Contact Lens and Anterior Eye, 2013, 36, S14-S21.	0.8	22
317	Fast Dispersive Laser Scanner by Using Digital Micro Mirror Arrays. , 2013, , .		1
318	Dual modality endomicroscope with optical zoom capability. Biomedical Optics Express, 2013, 4, 1494.	1.5	21
319	Non-resonant and non-enhanced Raman Correlation Spectroscopy. Optics Express, 2013, 21, 15418.	1.7	8
320	Miniature varifocal objective lens for endomicroscopy. Optics Letters, 2013, 38, 3103.	1.7	19
321	Living Matter Observations with a Novel Hyperspectral Supercontinuum Confocal Microscope for VIS to Near-IR Reflectance Spectroscopy. Sensors, 2013, 13, 14523-14542.	2.1	12
322	Confocal laser endomicroscopy in head and neck cancer. Current Opinion in Otolaryngology and Head and Neck Surgery, 2013, 21, 164-170.	0.8	19
323	Improved detectability of neuronal connectivity on mechanical sectioning setup by using confocal detection. Journal of Biomedical Optics, 2013, 18, 050506.	1.4	8
324	Enhancing 3-D cell structures in confocal and STED microscopy: a joint model for interpolation, deblurring and anisotropic smoothing. Measurement Science and Technology, 2013, 24, 125703.	1.4	9
325	<i>InÂvivo</i> confocal microscopic evaluation of corneal Langerhans cell density, and distribution and evaluation of dry eye in rheumatoid arthritis. Innate Immunity, 2013, 19, 348-354.	1.1	69

#	Article	IF	Citations
326	A diffuser-based optical sectioning fluorescence microscope. Measurement Science and Technology, 2013, 24, 125404.	1.4	1
329	Characteristic Quantities of Corneal Epithelial Structures in Confocal Laser Scanning Microscopic Volume Data Sets. Cornea, 2013, 32, 636-643.	0.9	8
330	Tegument of Schistosoma mansoni as a Therapeutic Target., 2013,,.		6
331	Three-Dimensional Identification of Microorganisms Using a Digital Holographic Microscope. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-6.	0.7	1
332	State of the art in advanced endoscopic imaging for the detection and evaluation of dysplasia and early cancer of the gastrointestinal tract. Clinical and Experimental Gastroenterology, 2014, 7, 133.	1.0	34
333	From identification of fluorescent flavoproteins to mitochondrial redox indicators in intact tissues. Journal of Innovative Optical Health Sciences, 2014, 07, 1350058.	0.5	6
334	Liquid crystal microfluidics: surface, elastic and viscous interactions at microscales. Liquid Crystals Reviews, 2014, 2, 73-110.	1.1	92
335	Lateral resolution improvement of laser-scanning imaging for nano defects detection. Advanced Optical Technologies, 2014, 3, 425-433.	0.9	1
336	Optical sectioning using a digital Fresnel incoherent-holography-based confocal imaging system. Optica, 2014, 1, 70.	4.8	44
337	Axial scanning in confocal microscopy employing adaptive lenses (CAL). Optics Express, 2014, 22, 6025.	1.7	70
338	Coherence-controlled holographic microscopy in diffuse media. Optics Express, 2014, 22, 4180.	1.7	18
339	Time-Resolved Emission Imaging Microscopy Using Phosphorescent Metal Complexes: Taking FLIM and PLIM to New Lengths. Structure and Bonding, 2014, , 205-256.	1.0	43
340	Spectralâ€domain optical coherence tomography evaluation of the cornea, retina, and optic nerve in normal horses. Veterinary Ophthalmology, 2014, 17, 140-148.	0.6	18
342	Fast Dispersive Laser Scanner by Using Digital Micro Mirror Arrays. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.8	3
343	<scp>B</scp> ending the Rules: Widefield Microscopy and the Abbe Limit of Resolution. Journal of Cellular Physiology, 2014, 229, 132-138.	2.0	37
344	SR-FTIR Microscopy and FTIR Imaging in the Earth Sciences. Reviews in Mineralogy and Geochemistry, 2014, 78, 447-479.	2.2	34
345	Past and present of corneal refractive surgery. Acta Ophthalmologica, 2014, 92, 1-21.	0.6	47
346	Medical Robotics for Cellular and Molecular Imaging. , 2014, , 213-225.		0

#	Article	IF	CITATIONS
347	In situ Raman spectroscopic–electrochemical studies of lithium-ion battery materials: a historical overview. Journal of Applied Electrochemistry, 2014, 44, 23-43.	1.5	106
348	Laser Scanning Confocal Microscopy: History, Applications, and Related Optical Sectioning Techniques. Methods in Molecular Biology, 2014, 1075, 9-47.	0.4	58
349	A review of oil, dispersed oil and sediment interactions in the aquatic environment: Influence on the fate, transport and remediation of oil spills. Marine Pollution Bulletin, 2014, 79, 16-33.	2.3	291
350	Analysis of solar cell cross sections with micro-light beam induced current (ÂμLBIC). Solar Energy Materials and Solar Cells, 2014, 131, 124-128.	3.0	9
351	Confocal laser endomicroscopy for non-invasive head and neck cancer imaging: A comprehensive review. Oral Oncology, 2014, 50, 711-716.	0.8	30
352	Corneal assessment technologies: Current status. Survey of Ophthalmology, 2014, 59, 599-614.	1.7	80
353	Photophysics of fluorescence. , 2014, , 23-46.		0
355	Through the looking glass – the adventures of seeing beyond the diffraction limit. Annalen Der Physik, 2015, 527, A77.	0.9	3
356	Calculation of Anisotropy and Symmetry Coefficients of Corneal Nerve Orientation Based on Automated Recognition of Digital Confocal Images. Bio-Medical Engineering, 2015, 49, 155-159.	0.3	12
357	Performance and Quality Characterization of the Reference MNA Nonlinear Optical Molecular Crystal by Pockels Electrooptic Confocal Microscopy. Advanced Optical Materials, 2015, 3, 1088-1095.	3.6	2
359	Confocal Laser Scanning Microscope, Raman Microscopy and Western Blotting to Evaluate Inflammatory Response after Myocardial Infarction. Current Vascular Pharmacology, 2015, 13, 78-90.	0.8	4
360	Fundamental Study on the Effect of Spray Parameters on Characteristics of P3HT:PCBM Active Layers Made by Spray Coating. Coatings, 2015, 5, 488-510.	1.2	24
361	Confocal Microscopy for Process Monitoring and Wide-Area Height Determination of Vertically-Aligned Carbon Nanotube Forests. Coatings, 2015, 5, 477-487.	1.2	7
362	Stochastic optical reconstruction microscopy ( <scp>STORM</scp> ) in comparison with stimulated emission depletion ( <scp>STED</scp> ) and other imaging methods. Journal of Neurochemistry, 2015, 135, 643-658.	2.1	95
363	Control of the differential interference contrast in reinjected bimode laser. Applied Optics, 2015, 54, 9763.	2.1	2
364	Three-dimensional imaging by self-reference digital holograms. , 2015, , .		3
365	Spatial heterodyne scanning laser confocal holographic microscopy. Applied Optics, 2015, 54, 10096.	2.1	0
366	Methods of Single-Channel Digital Holography for Three-Dimensional Imaging. IEEE Transactions on Industrial Informatics, 2016, 12, 220-230.	7.2	11

#	Article	IF	Citations
367	Phase modulation nanoscopy: a simple approach to enhanced optical resolution. Faraday Discussions, 2015, 177, 507-515.	1.6	25
368	Resolving the structure of inner ear ribbon synapses with STED microscopy. Synapse, 2015, 69, 242-255.	0.6	29
369	A cost-effective fluorescence mini-microscope for biomedical applications. Lab on A Chip, 2015, 15, 3661-3669.	3.1	86
370	In Vivo Confocal Microscopy after Corneal Collagen Crosslinking. Ocular Surface, 2015, 13, 298-314.	2.2	121
371	Clarifying Tissue Clearing. Cell, 2015, 162, 246-257.	13.5	977
372	Recent advances in wavefront shaping techniques for biomedical applications. Current Applied Physics, 2015, 15, 632-641.	1.1	194
373	Fluorescence lifetime imaging by multi-dimensional time correlated single photon counting. Medical Photonics, 2015, 27, 41-61.	3.8	29
374	Fluorescence lifetime imaging (FLIM): Basic concepts and some recent developments. Medical Photonics, 2015, 27, 3-40.	3.8	208
375	Large-area three-dimensional profilometer based on digital micromirror device. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2015, 82, 102.	0.2	3
376	Imaging the behavior of molecules in biological systems: breaking the 3D speed barrier with 3D multi-resolution microscopy. Faraday Discussions, 2015, 184, 359-379.	1.6	13
377	High-speed dual-beam, crossed line-scanning fluorescence microscope with a point confocal resolution. Applied Optics, 2015, 54, 3811.	2.1	4
378	Incoherent digital holography with phase-only spatial light modulators. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2015, 14, 041307.	1.0	6
379	Single-shot acquisition of optical direct and global components using single coded pattern projection. Japanese Journal of Applied Physics, 2015, 54, 042501.	0.8	6
380	Ultrathin high-index metasurfaces for shaping focused beams. Applied Optics, 2015, 54, 7586.	2.1	8
381	Application of confocal laser-scanning microscopy (CLSM) to autofluorescent organic and mineral matter in peat, coals and siliciclastic sedimentary rocks $\hat{a} \in A$ qualitative approach. International Journal of Coal Geology, 2015, 137, 1-18.	1.9	25
382	Correlative Light Electron Microscopy: Connecting Synaptic Structure and Function. Frontiers in Synaptic Neuroscience, 2016, 8, 28.	1.3	47
383	A Deeper Look into Type 1 Diabetes – Imaging Immune Responses during Onset of Disease. Frontiers in Immunology, 2016, 7, 313.	2.2	19
384	Transport Phenomena in Gel. Gels, 2016, 2, 17.	2.1	23

#	Article	IF	Citations
385	Concurrent Reflectance Confocal Microscopy and Laser Doppler Flowmetry to Improve Skin Cancer Imaging: A Monte Carlo Model and Experimental Validation. Sensors, 2016, 16, 1411.	2.1	10
386	Skin Wound Healing Revealed by Multimodal Optical Microscopies. , 2016, , .		3
387	Use of new imaging in detecting and monitoring ocular manifestations of the mucopolysaccharidoses. Acta Ophthalmologica, 2016, 94, e676-e682.	0.6	11
388	New approaches in renal microscopy. Current Opinion in Nephrology and Hypertension, 2016, 25, 159-167.	1.0	7
389	Ex Vivo (Fluorescence) Confocal Microscopy in Surgical Pathology. Advances in Anatomic Pathology, 2016, 23, 159-169.	2.4	41
390	Evaluation of confocal laser endomicroscopy as an aid to differentiate primary flat lesions of the larynx: A prospective clinical study. Head and Neck, 2016, 38, E1695-704.	0.9	13
392	Single-Molecule Confocal FRET Microscopy to Dissect Conformational Changes in the Catalytic Cycle of DNA Topoisomerases. Methods in Enzymology, 2016, 581, 317-351.	0.4	13
394	Visualization of the 3D structures of small organisms via LED-SIM. Frontiers in Zoology, 2016, 13, 26.	0.9	4
395	Three-Dimensional Imaging by Self-Reference Single-Channel Digital Incoherent Holography. IEEE Transactions on Industrial Informatics, 2016, 12, 1571-1583.	7.2	13
396	A toolbox to explore the mechanics of living embryonic tissues. Seminars in Cell and Developmental Biology, 2016, 55, 119-130.	2.3	112
397	Characterizing local structure of SiOx using confocal $\hat{l}$ 4-Raman spectroscopy and its effects on electrochemical property. Electrochimica Acta, 2016, 212, 68-75.	2.6	27
398	High-speed line-field confocal holographic microscope for quantitative phase imaging. Optics Express, 2016, 24, 9251.	1.7	10
399	Well-aging. Dermatologic Clinics, 2016, 34, 513-518.	1.0	11
400	Note on the classification of super-resolution in far-field microscopy and information theory.  Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, B31.	0.8	6
401	The Role of Retinal Imaging and Portable Screening Devices in Tele-ophthalmology Applications for Diabetic Retinopathy Management. Current Diabetes Reports, 2016, 16, 132.	1.7	42
402	Recent insights from in vitro single-molecule studies into nucleosome structure and dynamics. Biophysical Reviews, 2016, 8, 33-49.	1.5	34
403	Hybrid Microscopy: Enabling Inexpensive High-Performance Imaging through Combined Physical and Optical Magnifications. Scientific Reports, 2016, 6, 22691.	1.6	44
404	Inverse focusing inside turbid media by creating an opposite virtual objective. Scientific Reports, 2016, 6, 29452.	1.6	3

#	Article	IF	CITATIONS
405	Optical nano artifact metrics using silicon random nanostructures. Scientific Reports, 2016, 6, 32438.	1.6	9
406	Resolution enhancement for low-temperature scanning microscopy by cryo-immersion. Optics Express, 2016, 24, 13023.	1.7	12
407	Parallel-mode scanning optical sectioning using digital Fresnel holography with three-wave interference phase-shifting. Optics Express, 2016, 24, 2200.	1.7	16
408	Volumetric HiLo microscopy employing an electrically tunable lens. Optics Express, 2016, 24, 15029.	1.7	35
409	Acousto-optical Scanning-Based High-Speed 3D Two-Photon Imaging In Vivo. Neuromethods, 2016, , 213-245.	0.2	0
410	Facile multi-dimensional profiling of chemical gradients at the millimetre scale. Analyst, The, 2016, 141, 150-156.	1.7	2
411	Where Do We Stand with Super-Resolution Optical Microscopy?. Journal of Molecular Biology, 2016, 428, 308-322.	2.0	76
412	Friends or foes? Emerging insights from fungal interactions with plants. FEMS Microbiology Reviews, 2016, 40, 182-207.	3.9	238
413	Buckling of paramagnetic chains in soft gels. Soft Matter, 2016, 12, 228-237.	1.2	68
414	Marvin Lee Minsky (1927–2016). Artificial Intelligence in Medicine, 2017, 75, 24-31.	3.8	2
415	Threeâ€dimensional imaging flow cytometry through lightâ€sheet fluorescence microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 144-151.	1.1	39
416	Optical coherence tomography in biofilm research: A comprehensive review. Biotechnology and Bioengineering, 2017, 114, 1386-1402.	1.7	131
417	Intravital microscopy in historic and contemporary immunology. Immunology and Cell Biology, 2017, 95, 506-513.	1.0	54
419	Introduction to Modern Tools and Techniques to Understand Microbes. , 2017, , 1-23.		0
420	The reinvention of twentieth century microscopy for threeâ€dimensional imaging. Immunology and Cell Biology, 2017, 95, 520-524.	1.0	19
421	Corneal and Conjunctival Infectious Disease Diagnostics. International Ophthalmology Clinics, 2017, 57, 1-11.	0.3	2
422	Shearing interference microscope for stepâ€height measurements. Journal of Microscopy, 2017, 266, 178-185.	0.8	2
423	Endomicroscopy for Computer and Robot Assisted Intervention. IEEE Reviews in Biomedical Engineering, 2017, 10, 12-25.	13.1	17

#	Article	IF	CITATIONS
425	Automatic Classification of Cancerous Tissue in Laserendomicroscopy Images of the Oral Cavity using Deep Learning. Scientific Reports, 2017, 7, 11979.	1.6	194
426	Microscopy and Image Analysis. Current Protocols in Human Genetics, 2017, 94, 4.4.1-4.4.89.	3.5	19
427	Large-scale 3-dimensional quantitative imaging of tissues: state-of-the-art and translational implications. Translational Research, 2017, 189, 1-12.	2.2	23
428	Single-molecule fluorescence microscopy review: shedding new light on old problems. Bioscience Reports, 2017, 37, .	1.1	219
429	Embryonic hematopoiesis under microscopic observation. Developmental Biology, 2017, 428, 318-327.	0.9	18
430	Techniques for the Cellular and Subcellular Localization of Endocannabinoid Receptors and Enzymes in the Mammalian Brain. Methods in Enzymology, 2017, 593, 61-98.	0.4	7
431	Crosslinking Evidences In-Vitro and In-Vivo. , 2017, , 63-97.		0
432	InÂVivo Confocal Microscopy of Corneal Nerves in Health and Disease. Ocular Surface, 2017, 15, 15-47.	2.2	258
433	Implantable Optical Neural Interface., 2017,, 209-236.		0
434	Quantum Microscopy. Quantum Science and Technology, 2017, , 159-183.	1.5	0
435	Confocal laser induced fluorescence with comparable spatial localization to the conventional method. Review of Scientific Instruments, 2017, 88, 103506.	0.6	8
436	Fast steering mirror and michelson interferometer based laser beam pointing and steering. , 2017, , .		1
438	Core/shell nanofiber characterization by Raman scanning microscopy. Biomedical Optics Express, 2017, 8, 1025.	1.5	22
439	Confocal laser feedback tomography for skin cancer detection. Biomedical Optics Express, 2017, 8, 4037.	1.5	19
440	Modeling the depth-sectioning effect in reflection-mode dynamic speckle-field interferometric microscopy. Optics Express, 2017, 25, 130.	1.7	14
441	Optimizing depth-of-field extension in optical sectioning microscopy techniques using a fast focus-tunable lens. Optics Express, 2017, 25, 16783.	1.7	10
442	Superresolution Optical Microscopy. , 2017, , 241-291.		0

#	Article	IF	CITATIONS
444	Adaptive lenses for axial scanning in HiLo microscopy. , 2017, , .		0
445	Digital tissue and what it may reveal about the brain. BMC Biology, 2017, 15, 101.	1.7	14
446	Phase-shifting interference microscope with extendable field of measurement. Journal of Optics (United Kingdom), 2018, 20, 045605.	1.0	1
447	Micro-PIV., 2018,, 367-411.		0
448	Physical and Technical Background. , 2018, , 33-111.		2
449	Label-free 3D computational imaging of spermatozoon locomotion, head spin and flagellum beating over a large volume. Light: Science and Applications, 2018, 7, 17121-17121.	7.7	48
450	Emerging applications of digital micromirror devices in biophotonic fields. Optics and Laser Technology, 2018, 104, 17-25.	2.2	26
451	Optical fiber tips for biological applications: From light confinement, biosensing to bioparticles manipulation. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1209-1246.	1.1	39
452	Reconstruction of 3D porous media using multiple-point statistics based on a 3D training image. Journal of Natural Gas Science and Engineering, 2018, 51, 129-140.	2.1	48
453	<i>In vivo</i> confocal microscopy for detection of subconjunctival <i>Onchocerca lupi</i> infection in a dog. Veterinary Ophthalmology, 2018, 21, 632-637.	0.6	4
454	Ex Vivo Confocal Fluorescence Microscopy for Rapid Evaluation of Tissues in Surgical Pathology Practice. Archives of Pathology and Laboratory Medicine, 2018, 142, 396-401.	1.2	35
455	Enhancing optical microscopy illumination to enable quantitative imaging. Scientific Reports, 2018, 8, 4782.	1.6	7
456	Multi-Beam Scanning Electron Microscopy for High-Throughput Imaging in Connectomics Research. Frontiers in Neuroanatomy, 2018, 12, 112.	0.9	51
457	Reconstruction of 3D Porous Media Using Multiple-Point Statistics Based on a 2D Training Image. , 2018, , .		0
458	Introduction and Historical Perspective. , 2018, , 1-20.		1
459	Spatially-incoherent annular illumination microscopy for bright-field optical sectioning. Ultramicroscopy, 2018, 195, 74-84.	0.8	12
460	Variability in eukaryotic initiation factor iso4E in Brassica rapa influences interactions with the viral protein linked to the genome of Turnip mosaic virus. Scientific Reports, 2018, 8, 13588.	1.6	20
461	Optical and Cross-Sectional Imaging Technologies for Bladder Cancer. Cancer Treatment and Research, 2018, 175, 139-163.	0.2	6

#	Article	IF	CITATIONS
462	Confocal laser scanning microscopy—aÂpowerful tool in bone research. Wiener Medizinische Wochenschrift, 2018, 168, 314-321.	0.5	8
463	Light sheet imaging comes of age. Journal of Cell Biology, 2018, 217, 1567-1569.	2.3	9
464	Carbon dots as a new class of light emitters for biomedical diagnostics and therapeutic applications. , 2018, , 227-295.		19
465	Coherent Optical Spectroscopy/Microscopy and Applications. , 2018, , 87-115.		9
466	Modern Laser Scanning Confocal Microscopy. Current Protocols in Cytometry, 2018, 85, e39.	3.7	70
467	High-speed focal-distance-modulated fiber-coupled confocal sensor for coordinate measuring systems. Applied Optics, 2018, 57, 3907.	0.9	14
468	Computational imaging. Advances in Optics and Photonics, 2018, 10, 409.	12.1	156
470	Large Scale Imaging by Fine Spatial Alignment of Multi-Scanning Data with Gel Cube Device. Applied Sciences (Switzerland), 2018, 8, 235.	1.3	5
471	Concepts in Light Microscopy of Viruses. Viruses, 2018, 10, 202.	1.5	44
472	Multiscale and Multimodal Imaging for Connectomics. Progress in Optical Science and Photonics, 2019, , 3-45.	0.3	0
473	The Airyscan Detector: Confocal Microscopy Evolution for the Neurosciences. Progress in Optical Science and Photonics, 2019, , 83-102.	0.3	2
474	Turning Up the Heat: Local Temperature Control During in vivo Imaging of Immune Cells. Frontiers in Immunology, 2019, 10, 2036.	2.2	11
475	Formation, Deformation, Rolling and Sliding of Particles and Particle Aggregates: Mechanisms and Applications., 2019,, 89-114.		0
476	Ex Vivo Microscopy: A Promising Next-Generation Digital Microscopy Tool for Surgical Pathology Practice. Archives of Pathology and Laboratory Medicine, 2019, 143, 1058-1068.	1.2	38
477	Acoustofluidic methods in cell analysis. TrAC - Trends in Analytical Chemistry, 2019, 117, 280-290.	5.8	45
480	Fluorescence microscopy of biophysical protein dynamics in nanoporous hydrogels. Journal of Applied Physics, 2019, 126, .	1.1	15
481	Various Types of Microscopes and Accessories. , 2019, , 355-382.		0
482	Parameter-free image resolution estimation based on decorrelation analysis. Nature Methods, 2019, 16, 918-924.	9.0	197

#	Article	IF	CITATIONS
483	In Vivo Reflectance Confocal Microscopy: Emerging Role in Noninvasive Diagnosis and Monitoring of Eczematous Dermatoses. Actas Dermo-sifiliogrA¡ficas, 2019, 110, 626-636.	0.2	6
484	Pancreatic Cysts: Diagnostic Role of EUS-Guided Microforceps Biopsy and Confocal Laser Endomicroscopy. Gastroenterology Research and Practice, 2019, 2019, 1-9.	0.7	12
485	Adverse Drug Events Detection in Clinical Notes by Jointly Modeling Entities and Relations Using Neural Networks. Drug Safety, 2019, 42, 135-146.	1.4	56
486	A Review of Next-Generation Sequencing (NGS): Applications to the Diagnosis of Ocular Infectious Diseases. Seminars in Ophthalmology, 2019, 34, 223-231.	0.8	28
487	Fight against background noise in stimulated emission depletion nanoscopy. Physical Biology, 2019, 16, 051002.	0.8	24
488	Probeâ€based confocal laser endomicroscopy for rapid onâ€site evaluation of transbronchial biopsy specimens. Thoracic Cancer, 2019, 10, 1441-1447.	0.8	13
489	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. Advanced Materials, 2019, 31, e1806620.	11.1	390
490	The Effect of Honing Angle and Roughness Height on the Tribological Performance of CuNiCr Iron Liner. Metals, 2019, 9, 487.	1.0	19
491	Development of a confocal scanning microscope for fluorescence imaging and spectroscopy at variable temperatures. Review of Scientific Instruments, 2019, 90, 043702.	0.6	4
492	Real-Time 3D High-Resolution Microscopy of Human Cells on the International Space Station. International Journal of Molecular Sciences, 2019, 20, 2033.	1.8	23
493	Reconstruction of coronary circulation networks: A review of methods. Microcirculation, 2019, 26, e12542.	1.0	8
494	Time Is Precious—Quo Vadis, Creativity?. , 2019, , 15-28.		0
496	A comprehensive study on geometric, topological and fractal characterizations of pore systems in low-permeability reservoirs based on SEM, MICP, NMR, and X-ray CT experiments. Marine and Petroleum Geology, 2019, 103, 12-28.	1.5	169
497	Towards an optical diagnostic system for otitis media using a combination of otoscopy and spectroscopy. Journal of Biophotonics, 2019, 12, e201800305.	1.1	9
498	Endomicroscopy in the Pancreaticobiliary Tree. , 2019, , 259-262.e1.		0
499	Imaging the adenovirus infection cycle. FEBS Letters, 2019, 593, 3419-3448.	1.3	40
500	Evaluation und Justierung eines neuartigen, hochfrequent fokusabstandsmodulierten, fasergekoppelten, konfokalen Punktsensors fÃ $\frac{1}{4}$ r axial geregelte OberflÃ $e$ henmessungen mit einem NanokoordinatenmessgerÃ $e$ TM Technisches Messen, 2019, 86, 216-226.	0.3	3
501	Industrial Calibration Procedure for Confocal Microscopes. Materials, 2019, 12, 4137.	1.3	11

#	Article	IF	CITATIONS
502	Optical tissue clearing and immunolabeling in kidney research. Methods in Cell Biology, 2019, 154, 31-41.	0.5	3
503	Intravital Imaging Techniques for Biomedical and Clinical Research. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 448-457.	1.1	37
504	Confocal Laser Endomicroscopy in Barrett's Esophagus: Is It a Clinical Resource or Still a Research Procedure?. , 2019, , 77-86.		0
505	Magnetorheological gels in two and three dimensions: understanding the interplay between single particle motion, internal deformations, and matrix properties. Archive of Applied Mechanics, 2019, 89, 153-165.	1.2	4
506	Optical spectroscopy as a tool for battery research. Physical Sciences Reviews, 2019, 4, .	0.8	3
507	Fluorescence microscopy for visualizing single-molecule protein dynamics. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129362.	1.1	17
508	Inverse Scattering via Transmission Matrices: Broadband Illumination and Fast Phase Retrieval Algorithms. IEEE Transactions on Computational Imaging, 2020, 6, 95-108.	2.6	14
509	Corneal confocal microscopy: ready for prime time. Australasian journal of optometry, The, 2020, 103, 265-277.	0.6	73
510	0.1THz super-resolution imaging based on 3D printed confocal waveguides. Optics Communications, 2020, 459, 124896.	1.0	21
511	An Update on Corneal Imaging Techniques: from Macroscale to Nanostructure. SN Comprehensive Clinical Medicine, 2020, 2, 1-10.	0.3	8
512	Confocal Microscopy: Principles and Modern Practices. Current Protocols in Cytometry, 2020, 92, e68.	3.7	113
513	Image computing for fibre-bundle endomicroscopy: A review. Medical Image Analysis, 2020, 62, 101620.	7.0	44
514	Identifying the comprehensive pore structure characteristics of a rock from 3D images. Journal of Petroleum Science and Engineering, 2020, 187, 106764.	2.1	15
515	Evaluation of Fluorescent Confocal Microscopy for Intraoperative Analysis of Prostate Biopsy Cores. European Urology Focus, 2020, 7, 1254-1259.	1.6	20
516	Long working distance high resolution reflective sample imaging via structured embedded speckle illumination. Optics and Lasers in Engineering, 2020, 134, 106296.	2.0	3
517	Microanalytical techniques for phenotyping secondary xylem. IAWA Journal, 2020, 41, 356-389.	2.7	4
518	Surface analysis of tissue paper using laser scanning confocal microscopy and micro-computed topography. Cellulose, 2020, 27, 8989-9003.	2.4	12
519	Beyond What Meets the Eye: Imaging and Imagining Wood Mechanical–Structural Properties. Advanced Materials, 2021, 33, e2001613.	11.1	46

#	Article	IF	CITATIONS
521	Imaging Supramolecular Morphogenesis with Confocal Laser Scanning Microscopy at Elevated Temperatures. Nano Letters, 2020, 20, 4234-4241.	4.5	12
522	Corneal Epithelial "Neuromas― A Case of Mistaken Identity?. Cornea, 2020, 39, 930-934.	0.9	35
523	Complementary capabilities of photoacoustic imaging to existing optical ocular imaging techniques. , 2020, , $1-17$ .		2
524	Biological Microscopy with Undetected Photons. IEEE Access, 2020, 8, 107539-107548.	2.6	9
525	Three-dimensional-subwavelength field localization, time reversal of sources, and infinitely asymptotic degeneracy in spherical structures. Physical Review A, 2020, 101, .	1.0	1
526	lmaging of the immune system – towards a subcellular and molecular understanding. Journal of Cell Science, 2020, 133, .	1.2	12
527	Versatile high-speed confocal microscopy using a single laser beam. Review of Scientific Instruments, 2020, 91, 033706.	0.6	4
528	Parallel Acquisition of Plasma Membrane Ultrastructure and Cytosolic Protein Localisation in Cultured Cells via Correlated Immunogold SEM. Cells, 2020, 9, 1329.	1.8	0
529	Source shot noise mitigation in focused ion beam microscopy by time-resolved measurement. Ultramicroscopy, 2020, 211, 112948.	0.8	17
530	A new combined approach using confocal and scanning electron microscopy to image surface modifications on quartzite. Journal of Archaeological Science: Reports, 2020, 30, 102237.	0.2	7
531	High-sensitivity laser confocal tomography based on frequency-shifted feedback technique. Optics and Lasers in Engineering, 2020, 129, 106059.	2.0	5
532	Highâ€Speed Largeâ€Field Multifocal Illumination Fluorescence Microscopy. Laser and Photonics Reviews, 2020, 14, 1900070.	4.4	16
533	Single-Virus Tracking: From Imaging Methodologies to Virological Applications. Chemical Reviews, 2020, 120, 1936-1979.	23.0	131
534	Influence of aberrations and roughness on the chromatic confocal signal based on experiments and wave-optical modeling. Surface Topography: Metrology and Properties, 2020, 8, 025031.	0.9	12
535	Confocal laser scanning microscopy (CLSM) of nanoencapsulated food ingredients., 2020,, 131-158.		2
536	On the use of confocal microscopy for calculating the surface microroughness and the respective hydrophobic properties of marble specimens. Journal of Building Engineering, 2021, 33, 101876.	1.6	8
537	Measurement Range Extension of an Industrial Tomography and Profilometry Using Comb-less Interferometry. Lecture Notes in Mechanical Engineering, 2021, , 1041-1052.	0.3	0
538	Physical Optics for Clinicians. , 2021, , 1-22.		0

#	Article	IF	CITATIONS
539	Single-molecule electrochemistry. Frontiers of Nanoscience, 2021, , 253-293.	0.3	1
540	Advanced Label-Free Laser Scanning Microscopy and Its Biological Imaging Application. Applied Sciences (Switzerland), 2021, 11, 1002.	1.3	1
542	Aplication of <i>in Vivo</i> Confocal Microscopy in Ophtalmologyâ€"Overview. Open Journal of Ophthalmology, 2021, 11, 60-90.	0.1	O
543	Clinical Examination and Diagnostic Testing. , 2021, , 1-22.		О
544	Theoretical study of wide-field fluorescence microscopy based on dynamic speckle illumination. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 238701.	0.2	1
545	In Vivo and Ex Vivo Confocal Microscopy for Nail Diseases. Updates in Clinical Dermatology, 2021, , 55-66.	0.1	O
546	Actually Seeing What Is Going on – Intravital Microscopy in Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2021, 9, 627462.	2.0	24
547	Membrane voltage as a dynamic platform for spatiotemporal signaling, physiological, and developmental regulation. Plant Physiology, 2021, 185, 1523-1541.	2.3	24
549	Clinical Applications of In Vivo and Ex Vivo Confocal Microscopy. Applied Sciences (Switzerland), 2021, 11, 1979.	1.3	15
550	MICROSCOPE IN DENTISTRY: A REVIEW ARTICLE. Innovare Journal of Medical Sciences, 0, , 15-21.	0.2	0
551	Tools of dermatology: A historical perspective. Clinics in Dermatology, 2021, 39, 555-562.	0.8	1
552	Microbial interactions with silicate glasses. Npj Materials Degradation, 2021, 5, .	2.6	22
553	Perfect absorber with separated â€~dielectric–metal–ground' metamaterial structure. Journal Physics D: Applied Physics, 2021, 54, 225105.	1.3	4
554	Low-Light Photodetectors for Fluorescence Microscopy. Applied Sciences (Switzerland), 2021, 11, 2773.	1.3	9
555	Current and future perspectives of digital microscopy with fluorescence confocal microscope for prostate tissue interpretation: a narrative review. Translational Andrology and Urology, 2021, 10, 1569-1580.	0.6	8
556	Nanotechnology measurements of the Young's modulus of polymeric materials. Journal of Physics: Conference Series, 2021, 1826, 012004.	0.3	2
557	Three-Dimensional Imaging in Stem Cell-Based Researches. Frontiers in Veterinary Science, 2021, 8, 657525.	0.9	13
558	Confocal Scanning Laser Microscopy in Medicine. , 0, , .		O

#	Article	IF	CITATIONS
559	Transmissive Single-Pixel Microscopic Imaging through Scattering Media. Sensors, 2021, 21, 2721.	2.1	10
560	An insight of techniques for the assessment of permeation flux across the skin for optimization of topical and transdermal drug delivery systems. Journal of Drug Delivery Science and Technology, 2021, 62, 102355.	1.4	22
561	Keratic Precipitates: The Underutilized Diagnostic Clue. Ocular Immunology and Inflammation, 2021, 29, 776-785.	1.0	7
562	Single-Molecule Imaging in Living Plant Cells: A Methodological Review. International Journal of Molecular Sciences, 2021, 22, 5071.	1.8	6
563	Programming Metasurface Nearâ€Fields for Nanoâ€Optical Sensing. Advanced Optical Materials, 2021, 9, 2100435.	3.6	6
564	Caracterização topográfica e de rugosidade de filme fino semicondutor por microscopia confocal. Research, Society and Development, 2021, 10, e22810514833.	0.0	1
565	Nonparaxial Mie Theory of Image Formation in Optical Microscopes and Characterization of Colloidal Particles. Physical Review Applied, 2021, 15, .	1.5	4
566	Three-dimensional confocal reflectance microscopy for surface metrology. Measurement Science and Technology, 2021, 32, 102002.	1.4	20
567	Evaluating structured-illumination patterns in optimizing optical-sectioning of HiLo microscopy. Journal Physics D: Applied Physics, 2021, 54, 414001.	1.3	5
568	Measurement Range Expansion of Chromatic Confocal Probe with Supercontinuum Light Source. International Journal of Automation Technology, 2021, 15, 529-536.	0.5	5
569	Clinical Applications of In Vivo Confocal Microscopy in Keratorefractive Surgery. Journal of Refractive Surgery, 2021, 37, 493-503.	1.1	6
570	Correlation plenoptic microscopy. , 2021, , .		0
571	Ovary Development: Insights From a Three-Dimensional Imaging Revolution. Frontiers in Cell and Developmental Biology, 2021, 9, 698315.	1.8	12
572	Detection of ovalbumin amyloid-like fibrils at the oil-water interface in oil-in-water emulsions by spinning disk confocal microscopy. Food Structure, 2021, 29, 100207.	2.3	1
573	Tissue clearing and 3D imaging – putting immune cells into context. Journal of Cell Science, 2021, 134, .	1.2	6
574	Application of Atomic Force (AFM), Environmental Scanning Electron (ESEM) and Confocal Laser Scanning Microscopy (CLSM) in bitumen: A review of the ageing effect. Micron, 2021, 147, 103083.	1.1	39
575	Advances and Applications of Atomic-Resolution Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2021, 27, 943-995.	0.2	14
576	Role of fluorescence confocal microscopy for rapid evaluation of EUS fine-needle biopsy sampling in pancreatic solid lesions. Gastrointestinal Endoscopy, 2021, 94, 562-568.e1.	0.5	8

#	Article	IF	CITATIONS
577	Modeling and optimization of galvanometric point-scanning temporal dynamics. Biomedical Optics Express, 2021, 12, 6701.	1.5	3
578	Applications of in vivo confocal microscopy in the management of infectious keratitis in veterinary ophthalmology, 2021, , .	0.6	4
579	A wave-optical model for chromatic confocal sensing using multimode fibre incoherent illumination. Journal of Optics (United Kingdom), 2021, 23, 115608.	1.0	4
580	Lazer Taramalı Konfokal Mikroskobun Prensipleri ve Tıpta Kullanım Alanları. Akdeniz Medical Journal, 0, , 457-462.	0.0	0
581	Micro-CT for Biological and Biomedical Studies: A Comparison of Imaging Techniques. Journal of Imaging, 2021, 7, 172.	1.7	22
582	Three-dimensional morphology of bacterial community developed on the index-matched materials. Scientific Reports, 2021, 11, 19508.	1.6	0
583	Coupling AFM and CLSM to investigate the effect of ageing on the bee structures of bitumen. Micron, 2021, 151, 103149.	1.1	17
584	Non-Destructive and Label-Free Monitoring of 3D Cell Constructs. Learning Materials in Biosciences, 2021, , 233-250.	0.2	0
586	Direct Imaging of Superwetting Behavior on Solid–Liquid–Vapor Triphase Interfaces. Advanced Materials, 2017, 29, 1703009.	11.1	10
587	An Eye on Repair. , 2006, , 118-138.		2
589	Non-laser Illumination for Confocal Microscopy. , 1990, , 69-76.		9
590	Foundations of Confocal Scanned Imaging in Light Microscopy. , 1995, , 1-17.		45
591	Mapping and Measuring Surfaces Using Reflection Confocal Microscopy., 1995,, 255-266.		23
592	Bibliography of Confocal Microscopes. , 1995, , 571-577.		2
593	Non-Laser Light Sources., 1995,, 99-109.		2
594	The Intermediate Optical System of Laser-Scanning Confocal Microscopes. , 1995, , 139-154.		11
595	Advances in Solid State Lasers. NATO ASI Series Series B: Physics, 1994, , 225-250.	0.2	4
596	A Versatile Time-Resolved Laser Scanning Confocal Microscope. , 1996, , 79-83.		1

#	ARTICLE	IF	CITATIONS
598	Reflecting on Confocal Microscopy: A Personal Perspective. Methods in Molecular Biology, 2014, 1075, 1-7.	0.4	4
599	Fluorescence Microscopy. Springer Handbooks, 2019, , 1039-1088.	0.3	9
600	In Vivo Confocal Scanning Laser Microscopy. , 2019, , 263-284.		9
601	Interferometric Scattering (iSCAT) Microscopy and Related Techniques. Biological and Medical Physics Series, 2019, , 25-65.	0.3	21
602	TCSPC FLIM with Different Optical Scanning Techniques. Springer Series in Chemical Physics, 2015, , 65-117.	0.2	3
603	In Vivo Confocal Microscopy. , 2004, , 183-193.		2
604	Intravital Multiphoton Endoscopy. , 2014, , 305-370.		2
605	Microscopia confocal de reflectancia in vivo: papel emergente en el diagnóstico no invasivo, asÃ-como en el seguimiento de las dermatosis eccematosas. Actas Dermo-sifiliográficas, 2019, 110, 626-636.	0.2	5
606	In vivo Meibomian gland imaging techniques: A review of the literature. Journal Francais D'Ophtalmologie, 2020, 43, e123-e131.	0.2	6
607	Correlation plenoptic imaging for microscopy applications. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126472.	0.9	20
608	Confocal/two-photon microscopy in studying colonisation of cancer cells in bone using xenograft mouse models. BoneKEy Reports, 2016, 5, 851.	2.7	8
610	Terahertz confocal microscopy with an injection-seeded terahertz parametric generator. Optical Engineering, 2019, 58, 1.	0.5	3
611	Synchrotron Radiation InfraRed microspectroscopy and imaging in the characterization of archaeological materials and cultural heritage artefacts., 2019,, 411-444.		2
612	Exploring Fungal Activity with Confocal and Multiphoton Microscopy. Mycology, 2005, , 307-329.	0.5	1
614	Confocal scanning optical microscopy and its applications for biological specimens. Journal of Cell Science, 1989, 94, 175-206.	1.2	310
615	Confocal fluorescence microscopy with the tandem scanning light microscope. Journal of Cell Science, 1989, 94, 617-624.	1.2	20
616	Confocal microscopy with a microlens array. Applied Optics, 2020, 59, 3058.	0.9	7
617	Optical defocus noise suppressing by using a pinhole-polarizer in Fresnel incoherent correlation holography. Applied Optics, 2017, 56, F121.	2.1	9

#	Article	IF	CITATIONS
618	Image deconvolution for confocal laser scanning microscopy using constrained total variation with a gradient field. Applied Optics, 2019, 58, 3754.	0.9	3
619	State-of-the-art active optical techniques for three-dimensional surface metrology: a review [Invited]. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, B60.	0.8	125
620	Continuous focal translation enhances rate of point-scan volumetric microscopy. Optics Express, 2019, 27, 36241.	1.7	8
621	Continuous amplified digital optical phase conjugator for focusing through thick, heavy scattering medium. OSA Continuum, 2019, 2, 703.	1.8	8
622	Modular Scanning Confocal Microscope with Digital Image Processing. PLoS ONE, 2016, 11, e0166212.	1.1	8
626	Confocal Laser Scanning Microscopy. BioTechniques, 1999, 27, 992-1004.	0.8	115
627	Advanced methods in fluorescence microscopy. Analytical Cellular Pathology, 2013, 36, 5-17.	0.7	3
628	Comparing microleakage and layering methods of silorane-based resin composite in class V cavities using confocal microscopy: An in vitro study. Journal of Conservative Dentistry, 2011, 14, 164.	0.3	24
629	Advances in Microscopy Techniques. Archives of Pathology and Laboratory Medicine, 2011, 135, 255-263.	1.2	41
631	Conditions for Confocal Readout of Three-Dimensional Photorefractive Data Bits. , 2000, , 307-331.		1
632	Imaging Intracellular Calcium in Living Tissue by Laser-Scanning Confocal Microscopy., 2001,, 661-671.		0
633	Optical Coherence Tomography and Developmental Biology. , 2001, , 505-538.		0
634	Other Techniques. , 2001, , 315-360.		0
635	Other Techniques. Research Methods for Mutant Mice Series, 2001, , .	0.1	0
636	Surface Analysis Using Confocal Raman Micro-Spectroscopy. , 2002, , 1-9.		0
639	Confocal Laser Scanning Microscopy. , 2004, , 895-947.		1
641	Refractive surgery revealed through in vivo confocal microscopy. , 2007, , 33-51.		0
644	Confocal Microscopy / Denis Semwogerere, Eric R. Weeks. , 2008, , 737-746.		0

#	Article	IF	CITATIONS
645	Confocal microscopy of the cornea. , 2009, , 95-103.		0
646	Surface Analytical Methods. Springer Series in Chemical Physics, 2009, , 251-294.	0.2	0
647	Endoscopic Techniques for Optical Imaging. , 2010, , 25-48.		1
648	Vascular Imaging Using Confocal Microscopy. Endocrinology and Metabolism, 2010, 25, 171.	1.3	O
649	Photobleaching Minimization in Single- and Multi-Photon Fluorescence Imaging., 2010,, 8-1-8-28.		0
651	Specialized Microscopy Techniques. , 2011, , 157-172.		0
654	Deconvolution and Denoising for Confocal Microscopy. , 2013, , 117-163.		1
656	Coherent Microscopy and Optical Coherence Tomography for Biomedical Applications. , 2013, , 107-129.		0
657	Materials and Experimental Methods. Springer Theses, 2013, , 37-51.	0.0	0
658	Object Depending Measurement Uncertainty of Confocal Sensors. , 2014, , 465-470.		1
659	Métodos de estudio y diagnóstico de la morfologÃa y la estructura corneal. , 2014, , 61-90.		0
660	Optical Sectioning by Confocal Fresnel Incoherent Correlation Holography. , 2014, , .		0
661	Imaging Techniques for Corneal Disorders. Essentials in Ophthalmology, 2014, , 45-55.	0.0	0
663	Algorithms for a Fast Confocal Optical Inspection System. , 1996, , 439-474.		0
664	Theory and Applications of Confocal Microscopy. , 1996, , 231-244.		2
665	Analysis of Microspheres in Living Cells by Confocal Microscopy. , 1997, , 149-161.		0
666	Theoretische Analyse von neuronalen Netzen. Betriebswirtschaftliche Forschung Zur Unternehmensfýhrung, 1998, , 77-174.	0.1	0
667	Diagnostic applications of confocal microscopy. , 1999, , 123-148.		0

#	Article	IF	Citations
668	Multiphoton Fluorescence Microscopy., 1999,, 331-336.		1
670	Confocal Laser-scanning Microscopy in Filamentous Fungi. Fungal Biology, 2015, , 1-25.	0.3	2
671	Chapter 2. Scanning Transmission Electron Microscopy. RSC Nanoscience and Nanotechnology, 2015, , 30-79.	0.2	0
673	Biomedical in vivo Optical Imaging for Disease Espying and Diagnosis. Biosystems and Biorobotics, 2016, , 329-355.	0.2	1
675	Trends in Nanoscopy in Materials Research. Advances in Civil and Industrial Engineering Book Series, 2016, , 80-110.	0.2	0
676	In Vivo Microscopy. , 2016, , 99-111.		0
677	Konfokale Laserscanmikroskopie. , 2016, , 35-47.		0
678	Visualization and Image Analysis of Yeast Cells. Methods in Molecular Biology, 2016, 1369, 347-361.	0.4	0
679	Confocal Microscopy and Micro-endoscopy of the Larynx. , 2016, , 491-509.		0
680	Optical Examinations of Fibers, Yarns, and Fabrics., 2017,, 55-73.		1
681	Super-Resolution Two-Photon Excitation Microscopy Utilizing Transmissive Liquid Crystal Devices. Series in Cellular and Clinical Imaging, 2016, , 189-211.	0.2	0
682	Tract Tracing and Histological Techniques. Neuromethods, 2017, , 277-312.	0.2	0
683	Micro-scale Geometry Measurement. Springer Tracts in Mechanical Engineering, 2017, , 197-221.	0.1	0
684	Principles and Application of Confocal Microscopy to Understand Symbiotic Fungi., 2017,, 341-354.		0
685	Confocal microscopy in ocular surface disease. Ophthalmology Journal, 2017, 10, 23-30.	0.1	3
686	Das Abbild der Zellen. , 0, , 595-634.		0
687	Methods and Instrumentation. Springer Theses, 2018, , 35-114.	0.0	0
688	Through-Focus Scanning Optical Fluorescence Microscopy for Marine Phytoplankton Count., 2018,,.		0

#	Article	IF	CITATIONS
689	Structured Illumination Microscopy (SIM)., 2018, , 1-8.		0
691	Optical Surface Metrology: Methods. Springer Series in Measurement Science and Technology, 2019, , 95-198.	0.5	0
692	Fast-time consecutive confocal image deblurring using spatiotemporal fused regularization. Applied Optics, 2019, 58, 5148.	0.9	0
693	Reflectance Confocal Microscopy for theÂDiagnosis and Management of Skin Diseases. , 2020, , 137-147.		0
695	Neurohistology with a Touch of History: Technology-Driven Research. Neuromethods, 2020, , 1-48.	0.2	0
696	In Vivo Reflectance Confocal Microscopy for Mucous Membranes. , 2020, , 195-204.		0
697	The Structure of an Electromagnetic Field at Focus. , 2021, , 1-28.		0
698	History and Fundamentals of Reflectance Confocal Microscopy. , 2020, , 127-134.		2
699	Digital line scanning fluorescence microscopy based on digital micromirror device. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 238701.	0.2	1
700	Development of confocal picosecond ultrasonics for visualizing propagation of an acoustic wave. Japanese Journal of Applied Physics, 2020, 59, SKKB04.	0.8	1
701	Volume Holographic Multifocal Illumination Beam Shaper for Confocal Microscopy. , 2021, , .		0
702	In-Situ Depth Measurement of Laser Micromachining. Photonics, 2021, 8, 493.	0.9	4
703	Biological Application of FLIM by TCSPC. , 2006, , 261-276.		0
704	From Microscopy to Nanoscopy: How to Get and Read Optical Data at Single Molecule Level Using Confocal and Two-Photon Excitation Microscopy. , 2005, , 187-207.		0
705	In Vivo Confocal Microscopy in Healthy Conjunctiva, Conjunctivitis, and Conjunctival Tumors. , 2008, , 217-227.		0
706	Application of Laser Scanning Confocal Microscopy in Musculoskeletal Research. , 2007, , 173-189.		0
707	Confocal Laser Scanning Microscopy of Living Cells. , 0, , .		0
708	In vivo Histology of the Cornea – from the "Rostock Cornea Module―to the "Rostock Electronic Slit Lamp―– a Clinical "Proof of Concept―Study. Klinische Monatsblatter Fur Augenheilkunde, 2020, 237, 1442-1454.	0.3	7

#	Article	IF	CITATIONS
709	Confocal Scan. , 2021, , 353-380.		0
710	High-Resolution Optical Fluorescence Microscopy for Cell Biology Studies. , 2022, , 179-201.		0
711	Paradox of complex diversity: Challenges in the diagnosis and management of bacterial keratitis. Progress in Retinal and Eye Research, 2022, 88, 101028.	7.3	16
715	Oral cancer diagnostics: An overview. National Journal of Maxillofacial Surgery, 2021, 12, 324.	0.1	5
716	Mikroskopia trójwymiarowych struktur komórkowych – od mikroskopu świetlnego do konfokalnego. Tutoring Gedanensis, 2021, 6, 33-38.	0.0	0
718	Risk Stratification of Pancreatic Cysts With Confocal Laser Endomicroscopy., 2022, 1, 160-170.		2
719	Chromatic confocal measurement method using a phase Fresnel zone plate. Optics Express, 2022, 30, 2390.	1.7	18
722	Application of Confocal Laser Scanning Microscopy in Biology and Medicine. Vestnik Dermatologii I Venerologii, 2014, 90, 17-24.	0.2	6
723	Comparing marginal microleakage in Class V cavities restored with flowable composite and Cention-N using confocal microscope-an in-vitro study. Indian Journal of Dental Research, 2021, 32, 348.	0.1	3
724	Confocal laser scanning microscopy: experience of the Ural Research Institute of Dermatovenerology and Immunopathology. Klinicheskaya Dermatologiya I Venerologiya, 2022, 21, 106.	0.0	0
725	At the molecular resolution with MINFLUX?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200145.	1.6	8
726	Multifocal confocal microscopy using a volume holographic lenslet array illuminator. Optics Express, 2022, 30, 14910.	1.7	6
727	Optical tissue clearing associated with 3D imaging: application in preclinical and clinical studies. Histochemistry and Cell Biology, 2022, 157, 497-511.	0.8	10
728	Raman scattering enhancement of dielectric microspheres on silicon nitride film. Scientific Reports, 2022, 12, 5346.	1.6	7
729	Corneal Confocal Microscopy and the Nervous System: Introduction to the Special Issue. Journal of Clinical Medicine, 2022, 11, 1475.	1.0	1
730	Confocal laser endomicroscopy and confocal microscopy for head and neck cancer imaging: Recent updates and future perspectives. Oral Oncology, 2022, 127, 105826.	0.8	13
731	Fluorescence Microscopy—An Outline of Hardware, Biological Handling, and Fluorophore Considerations. Cells, 2022, 11, 35.	1.8	30
742	Phosphate Glasses for Biophotonic Applications. Biomaterials Science Series, 2022, , 134-161.	0.1	0

#	Article	IF	CITATIONS
743	Physical Optics for Clinicians. , 2022, , 937-958.		0
744	Clinical Examination and Diagnostic Testing. , 2022, , 105-126.		0
745	Analysis of the conformational space and dynamics of RNA helicases by single-molecule FRET in solution and on surfaces. Methods in Enzymology, 2022, , .	0.4	1
746	Development of Microscopic Techniques for the Visualization of Plant–Root-Knot Nematode Interaction. Plants, 2022, 11, 1165.	1.6	3
747	Influence of Surface Tilt Angle on a Chromatic Confocal Probe with a Femtosecond Laser. Applied Sciences (Switzerland), 2022, 12, 4736.	1.3	3
748	Fast classification and recognition method of blood cells using deep learning based on wrapped phase in polar coordinate. Optik, 2022, 261, 169175.	1.4	0
749	Simplified method for estimating discharge of microporous ceramic emitters for drip irrigation. Biosystems Engineering, 2022, 219, 38-55.	1.9	8
752	Label free optical transmission tomography for biosystems: intracellular structures and dynamics. Biomedical Optics Express, 2022, 13, 4190.	1.5	5
753	In focus in HCB. Histochemistry and Cell Biology, 2022, , .	0.8	0
<b>7</b> 54	Correlating Scanning Ion Conductance and Super-Resolved Fluorescence Microscopy. Bioanalytical Reviews, 2022, , 205-230.	0.1	1
757	Understanding the Feedback Circuit in an Atomic Force Microscope. Applied Science and Convergence Technology, 2022, 31, 99-102.	0.3	0
758	Quantitative refractive index tomography of millimeter-scale objects using single-pixel wavefront sampling. Optica, 2022, 9, 1073.	4.8	6
759	Methodological approaches for the structural, chemical, and microbial analysis of microbial biofilms developed on the surface of cementitious materials: Overview and future prospects. International Biodeterioration and Biodegradation, 2022, 175, 105485.	1.9	6
760	Fundamentals of Microscopy. , 2023, , 11-25.		0
761	Three-Dimensional Imaging. , 2023, , 247-317.		0
762	Model visualization: from micro to macro. , 2022, , 207-221.		0
763	Engineering a DNA origami mediated multicolour quantum dot platform for sub-diffraction spectral separation imaging. RSC Advances, 2022, 12, 23778-23785.	1.7	1
764	Boundary-Preserved Deep Denoising of Stochastic Resonance Enhanced Multiphoton Images. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-12.	2.2	2

#	Article	IF	CITATIONS
765	Corneal Confocal Microscopy as a Quantitative Imaging Biomarker of Diabetic Peripheral Neuropathy: A Review. Journal of Clinical Medicine, 2022, 11, 5130.	1.0	7
766	Light-field microscopy with correlated beams for high-resolution volumetric imaging. Scientific Reports, 2022, 12, .	1.6	8
767	A Short History of Plant Light Microscopy. Current Protocols, 2022, 2, .	1.3	2
768	Correlation light-field microscopy. , 2022, , .		1
769	Newer Diagnostic Technology for Diagnosis of Keratoconus. , 2022, , 129-149.		0
770	Confocal Microscopy. , 2023, , 279-286.		0
771	Surface Characteristics Measurement Using Computer Vision: A Review. CMES - Computer Modeling in Engineering and Sciences, 2023, 135, 917-1005.	0.8	3
772	Multifocal Confocal Fluorescence Microscopy Using Volume Holographic Array Illumination. , 2022, , .		0
773	Confocal Laser Scanning Polarimetry. , 2023, , 321-344.		0
775	Development, Implementation and Application of Confocal Laser Endomicroscopy in Brain, Head and Neck Surgery—A Review. Diagnostics, 2022, 12, 2697.	1.3	4
776	Ex Vivo Fluorescence Confocal Microscopy. , 2022, , 111-120.		0
777	Confocal Microscopy., 2022,, 105-138.		2
778	Super-Resolution Optical Imaging of Bacterial Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2023, 29, 1-13.	1.9	1
779	Infrared SpectroscopyÂand Application to Forensics. Soil Forensics, 2023, , 93-140.	0.2	0
780	Deep Learning based Method for Segmentation, Tracking, and Analysis of Intracellular Proteins and Their Interactions. , 2022, , .		0
781	Discrimination of normal and cancerous human skin tissues based on laser-induced spectral shift fluorescence microscopy. Scientific Reports, 2022, 12, .	1.6	2
782	Methods for the Visualization of Multispecies Biofilms. Springer Series on Biofilms, 2023, , 35-78.	0.0	0
783	Using optical coherence tomography images to evaluate fungal growth in reline resins. Journal of Innovative Optical Health Sciences, 0, , .	0.5	0

#	Article	IF	CITATIONS
784	Observing single cells in whole organs with optical imaging. Journal of Innovative Optical Health Sciences, 2023, $16$ , .	0.5	7
785	Corneal confocal microscopy in the diagnosis of non-infectious etiology uveitis. Meditsinskiy Sovet, 0, , .	0.1	0
786	Optical Diagnostics in Herpetic Keratitis. Photonics, 2023, 10, 349.	0.9	0
787	Common-path tandem interferometer for thin-film thickness measurements. Measurement: Journal of the International Measurement Confederation, 2023, 214, 112780.	2.5	0
788	PM-ARNN: 2D-TO-3D reconstruction paradigm for microstructure of porous media via adversarial recurrent neural network. Knowledge-Based Systems, 2023, 264, 110333.	4.0	1
789	Evolution of adaptive optics retinal imaging [Invited]. Biomedical Optics Express, 2023, 14, 1307.	1.5	17
790	Coherent Backscattering and Laser Feedback Microscopy. , 1992, , .		0
791	Fluorescence confocal microscopy for rapid evaluation of EUS fine-needle biopsy in pancreatic solid lesions. VideoGIE, 2023, 8, 113-114.	0.3	0
792	Adaptive optics for optical microscopy [Invited]. Biomedical Optics Express, 2023, 14, 1732.	1.5	13
793	Advances in intravital imaging of liver immunity using optical microscopy and labeling methods. , 2023, 1, 61-77.		2
794	Imaging the child's eye, orbit, and visual pathways. , 2017, , 76-93.e1.		0
795	近红å¤äºŒåŒºå±èšç"¦æ~¾å¾®æŠ€æœ¯çš"进展åŠåº"用ï¼^特é,€ï¼‰. Hongwai Yu Jiguang Gongchen	g/I <b>ofu</b> ared	an <b>t</b> l Laser En
796	GAED Medal Lecture 2022: Challenging the Dogma in Diabetic Neuropathy and Beyond. Journal of Diabetes and Endocrine Practice, 2023, 06, 003-010.	0.2	0
800	Spatial analysis of multispecies bacterial biofilms. Methods in Microbiology, 2023, , 275-307.	0.4	0
802	In-vivo corneal confocal microscopy: Imaging analysis, biological insights and future directions. Communications Biology, 2023, 6, .	2.0	0
806	Signal Processing and Artificial Intelligence for Dual-Detection Confocal Probes. International Journal of Precision Engineering and Manufacturing, 2024, 25, 199-223.	1.1	1
812	Metasurface Confocal - Enabling a Shift in Optical Instrumentation. , 2023, , .		0
815	Teaching Philosophy, Educational Psychology, and Cognitive Neuroscience. Advances in Educational Technologies and Instructional Design Book Series, 2023, , 49-74.	0.2	0

# ARTICLE IF CITATIONS

817 Intravital Microscopy to Study the Effect of Matrix Metalloproteinase Inhibition on Acute Myeloid Leukemia Cell Migration in the Bone Marrow. Methods in Molecular Biology, 2024, , 211-227.

0.4 0