Colin J R Sheppard

List of Publications by Year
in descending order

476	15,508	22548 61	35168 102
papers	citations	h-index	g-index

483	483	483	9202
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Purity of 3D polarization. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 6.	0.8	7
2	Characterization of the Mueller Matrix: Purity Space and Reflectance Imaging. Photonics, 2022, 9, 88.	0.9	4
3	A Table of Some Coherency Matrices, Coherency Matrix Factors, and Their Respective Mueller Matrices. Photonics, 2022, 9, 394.	0.9	2
4	Pixel Reassignment in Image Scanning Microscopy. Springer Proceedings in Physics, 2021, , 11-14.	0.1	0
5	Scattering and three-dimensional imaging in surface topography measuring interference microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, A27.	0.8	30
6	Polarimetric optical scanning microscopy of zebrafish embryonic development using the coherency matrix. Journal of Biophotonics, 2021, 14, e202000494.	1.1	4
7	Structured illumination microscopy and image scanning microscopy: a review and comparison of imaging properties. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200154.	1.6	9
8	Pixel reassignment in image scanning microscopy with a doughnut beam: example of maximum likelihood restoration. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 1075.	0.8	4
9	Phasor approach of Mueller matrix optical scanning microscopy for biological tissue imaging. Biophysical Journal, 2021, 120, 3112-3125.	0.2	5
10	The Development of Microscopy for Super-Resolution: Confocal Microscopy, and Image Scanning Microscopy. Applied Sciences (Switzerland), 2021, 11, 8981.	1.3	10
11	Scanning optical microscopy. Advances in Imaging and Electron Physics, 2020, 213, 227-325.	0.1	10
12	Multiphoton microscopy: a personal historical review, with some future predictions. Journal of Biomedical Optics, 2020, 25, 1.	1.4	26
13	Two-photon image-scanning microscopy with SPAD array and blind image reconstruction. Biomedical Optics Express, 2020, 11, 2905.	1.5	33
14	Pixel reassignment in image scanning microscopy: a re-evaluation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 154.	0.8	31
15	Polarization in reflectance imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 491.	0.8	3
16	Eigenvectors of polarization coherency matrices. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1143.	0.8	10
17	Analysis of numerical diffraction calculation methods: from the perspective of phase space optics and the sampling theorem. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1748.	0.8	39
18	Image scanning microscopy with multiphoton excitation or Bessel beam illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1639.	0.8	11

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19	Label Free Ultra-Sensitive Imaging with Sub-Diffraction Spatial Resolution. , 2019, , .		0
20	Super-Resolution Fluorescence Microscopy. , 2019, , 1-12.		0
21	A robust and versatile platform for image scanning microscopy enabling super-resolution FLIM. Nature Methods, 2019, 16, 175-178.	9.0	132
22	Twoâ€photon focal modulation microscopy for highâ€resolution imaging in deep tissue. Journal of Biophotonics, 2019, 12, e201800247.	1.1	12
23	Eigenvalues of the coherency matrix for exact backscattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1540.	0.8	10
24	Simultaneous dual-contrast three-dimensional imaging in live cells via optical diffraction tomography and fluorescence. Photonics Research, 2019, 7, 1042.	3.4	9
25	Labelâ€free ultraâ€sensitive visualization of structure below the diffraction resolution limit. Journal of Biophotonics, 2018, 11, e201700385.	1.1	7
26	Enhanced volumetric imaging in 2â€photon microscopy via acoustic lens beam shaping. Journal of Biophotonics, 2018, 11, e201700050.	1.1	30
27	Pixellated circle. Applied Optics, 2018, 57, 7878.	0.9	4
28	Factorization of the coherency matrix of polarization optics. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 586.	0.8	12
29	Partially coherent microscope in phase space. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1272.	0.8	7
30	Image scanning microscopy (ISM) with a single photon avalanche diode (SPAD) array detector. , 2018, , .		1
31	Partially coherent microscope imaging system in phase space: effect of defocus and phase reconstruction. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1846.	0.8	10
32	Coherency and differential Mueller matrices for polarizing media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 2058.	0.8	11
33	Partially coherent imaging in phase space. , 2018, , .		0
34	Resolution and superâ€resolution. Microscopy Research and Technique, 2017, 80, 590-598.	1.2	37
35	Image formation in image scanning microscopy, including the case of two-photon excitation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1339.	0.8	39
36	Parameterization of the deterministic Mueller matrix: application to a uniform medium. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 602.	0.8	8

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37	Interpretation of the optical transfer function: Significance for image scanning microscopy. Optics Express, 2016, 24, 27280.	1.7	28
38	Intensity Weighted Subtraction Microscopy Approach for Image Contrast and Resolution Enhancement. Scientific Reports, 2016, 6, 25816.	1.6	47
39	Expressions for parallel decomposition of the Mueller matrix. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 741.	0.8	15
40	Superconcentration of light: circumventing the classical limit to achievable irradiance. Optics Letters, 2016, 41, 2109.	1.7	27
41	Three-dimensional polarization algebra. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1938.	0.8	25
42	Phase microscope imaging in phase space. , 2016, , .		0
43	Microscopy using source and detector arrays. , 2016, , .		0
44	Pupil filters for extending the field-of-view in light-sheet microscopy. Optics Letters, 2016, 41, 1205.	1.7	23
45	Geometry of the Mueller matrix spectral decomposition. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1331.	0.8	7
46	Parameterization of the Mueller matrix. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 2323.	0.8	10
47	Image scanning microscopy with a quadrant detector. Optics Letters, 2015, 40, 5355.	1.7	49
48	Realistic wave-optics simulation of X-ray phase-contrast imaging at a human scale. Scientific Reports, 2015, 5, 12011.	1.6	11
49	The Hankel Transform in n-dimensions and Its Applications in Optical Propagation and Imaging. Advances in Imaging and Electron Physics, 2015, , 135-184.	0.1	3
50	Diffraction of a focused wave by an aperture: a new perspective. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 623.	0.8	4
51	Equivalent of the point spread function for partially coherent imaging. Optica, 2015, 2, 736.	4.8	11
52	Zernike expansion of pupil filters: optimization of the signal concentration factor. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 928.	0.8	16
53	Optimization of pupil filters for maximal signal concentration factor. Optics Letters, 2015, 40, 550.	1.7	8
54	The Green-function transform and wave propagation. Frontiers in Physics, 2014, 2, .	1.0	13

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55	Two-dimensional complex source point solutions: application to propagationally invariant beams, optical fiber modes, planar waveguides, and plasmonic devices. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2674.	0.8	9
56	Advanced optical microscopy methods for in vivo imaging of sub-cellular structures in thick biological tissues. Journal of Innovative Optical Health Sciences, 2014, 07, 1440001.	0.5	15
57	Analytic method to optimize aperture design in focal modulation microscopy. Optics Letters, 2014, 39, 1677.	1.7	4
58	Resolution enhancement in nonlinear scanning microscopy through post-detection digital computation. Optica, 2014, 1, 455.	4.8	29
59	Multipole and plane wave expansions of diverging and converging fields. Optics Express, 2014, 22, 8949.	1.7	3
60	Temporal reshaping of two-dimensional pulses. Optics Express, 2014, 22, 32016.	1.7	1
61	Focusing of vortex beams: Lommel treatment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 644.	0.8	10
62	MarÃ©chal condition and the effect of aberrations on Strehl intensity. Optics Letters, 2014, 39, 2354.	1.7	5
63	Creation of a 50,000Î» long needle-like field with 036Î» width: comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1326.	0.8	4
64	Jones and Stokes parameters for polarization in three dimensions. Physical Review A, 2014, 90, .	1.0	50
65	Polarized focused vortex beams: half-order phase vortices. Optics Express, 2014, 22, 18128.	1.7	11
66	Development of Pump-Probe Nanoscopy Architecture. Biophysical Journal, 2014, 106, 201a.	0.2	0
67	Imaging using cylindrical vector beams in a high-numerical-aperture microscopy system. Optics Letters, 2013, 38, 3111.	1.7	114
68	Phase contrast microscopy- Methods and modeling. , 2013, , .		0
69	Rayleighâ€“Sommerfeld diffraction formula in k space. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1180.	0.8	14
70	Limitations of the paraxial Debye approximation. Optics Letters, 2013, 38, 1074.	1.7	14
71	Improvement of axial resolution and contrast in temporally focused widefield two-photon microscopy with structured light illumination. Biomedical Optics Express, 2013, 4, 995.	1.5	86
72	Pupil filters for generation of light sheets. Optics Express, 2013, 21, 6339.	1.7	15

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73	Full-wave approach for x-ray phase imaging. Optics Express, 2013, 21, 17547.	1.7	11
74	Cylindrical lensesâ€"focusing and imaging: a review [Invited]. Applied Optics, 2013, 52, 538.	0.9	50
75	Balanced diffraction aberrations, independent of the observation point: application to a tilted dielectric plate. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2150.	0.8	3
76	Temporally focused wide-field two-photon microscopy: Paraxial to vectorial. Optics Express, 2013, 21, 12951.	1.7	22
77	A complete and computationally efficient numerical model of aplanatic solid immersion lens scanning microscope. Optics Express, 2013, 21, 14316.	1.7	14
78	Complex source point theory of paraxial and nonparaxial cosine-Gauss and Besselâ€"Gauss beams. Optics Letters, 2013, 38, 564.	1.7	5
79	Calculation of the volumetric diffracted field with a three-dimensional convolution: the three-dimensional angular spectrum method. Optics Letters, 2013, 38, 5296.	1.7	8
80	Rigorous analytical modeling of high-aperture focusing through a spherical interface. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1426.	0.8	6
81	Nonparaxial, three-dimensional, and fractal speckle. Optical Engineering, 2013, 52, 101904.	0.5	1
82	Superresolution by image scanning microscopy using pixel reassignment. Optics Letters, 2013, 38, 2889.	1.7	196
83	Intermediate field behind a nanostructure. Physical Review A, 2013, 88, .	1.0	4
84	Optical photon reassignment microscopy (OPRA). Optical Nanoscopy, 2013, 2, .	4.0	108
85	Recent Advances in Optical Microscopy Methods for Subcellular Imaging of Thick Biological Tissues. Critical Reviews in Biomedical Engineering, 2013, 41, 393-403.	0.5	4
86	Improving signal-to-noise ratio of structured light microscopy based on photon reassignment. Biomedical Optics Express, 2012, 3, 206.	1.5	5
87	Optical color-image encryption and synthesis using coherent diffractive imaging in the Fresnel domain. Optics Express, 2012, 20, 3853.	1.7	80
88	Coupled and uncoupled dipole models of nonlinear scattering. Optics Express, 2012, 20, 25834.	1.7	9
89	Reconstruction in interferometric synthetic aperture microscopy: comparison with optical coherence tomography and digital holographic microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 244.	0.8	13
90	Limitations of superoscillation filters in microscopy applications. Optics Letters, 2012, 37, 903.	1.7	26

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91	Multipole theory for tight focusing of polarized light, including radially polarized and other special cases. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 32.	0.8	41
92	Resolution of aplanatic solid immersion lens based microscopy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1059.	0.8	11
93	Complete modeling of subsurface microscopy system based on aplanatic solid immersion lens. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2350.	0.8	13
94	Geometric representation for partial polarization in three dimensions. Optics Letters, 2012, 37, 2772.	1.7	23
95	Subtractive imaging in confocal scanning microscopy using a CCD camera as a detector. Optics Letters, 2012, 37, 1280.	1.7	55
96	Optical image encryption based on phase retrieval combined with three-dimensional particle-like distribution. Journal of Optics (United Kingdom), 2012, 14, 075402.	1.0	34
97	Phase space analysis of partially coherent imaging in a microscope. , 2012, , .		0
98	An integrated coherent anti-Stokes Raman scattering and multiphoton imaging technique for liver disease diagnosis. , 2012, , .		2
99	Nonparaxial, three-dimensional and fractal speckle. , 2012, , .		4
100	Interpretation of the scattering mechanism for particles in a focused beam. Physical Review A, 2012, 86, .	1.0	16
101	Three-level filter for increased depth of focus and Bessel beam generation. Optics Express, 2012, 20, 27212.	1.7	26
102	Surface Modified Gold Nanorods in Two Photon Luminescence Imaging. Australian Journal of Chemistry, 2012, 65, 290.	0.5	5
103	Fighting against diffraction: apodization and near field diffraction structures. Laser and Photonics Reviews, 2012, 6, 354-392.	4.4	53
104	Optical image encryption based on coherent diffractive imaging using multiple wavelengths. Optics Communications, 2012, 285, 225-228.	1.0	22
105	Considerations of aperture configuration in focal modulation microscopy from the standpoint of modulation depth. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 496.	0.8	5
106	Three-dimensional imaging by partially coherent light under nonparaxial condition. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 554.	0.8	14
107	Effect of polarization on a solid immersion lens of arbitrary thickness. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 903.	0.8	10
108	Partial polarization in three dimensions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2655.	0.8	31

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109	Highly convergent focusing of light based on rotating dipole polarization. Applied Optics, 2011, 50, 4463.	2.1	7
110	Optical double-image cryptography based on diffractive imaging with a laterally-translated phase grating. Applied Optics, 2011, 50, 5750.	2.1	43
111	Dyadic Greenâ€™s function for aplanatic solid immersion lens based sub-surface microscopy. Optics Express, 2011, 19, 19280.	1.7	18
112	Direct calculation of a three-dimensional diffracted field. Optics Letters, 2011, 36, 1341.	1.7	19
113	Binary phase filters with a maximally-flat response. Optics Letters, 2011, 36, 1386.	1.7	21
114	Quantitative phase restoration by direct inversion using the optical transfer function. Optics Letters, 2011, 36, 2671.	1.7	39
115	2M1548 Dark-field imaging of beating axoneme : Correlation between bend propagation and structural changes in the axoneme(Molecular motor 3,The 48th Annual Meeting of the Biophysical Society of) Tj ETQq1 1 0.784314 rgBT /Overlock		0
116	Multiphoton luminescence of gold nanorods upon excitation with wavelengths away from their absorption maxima. , 2011, , .		3
117	Diffraction Optics. , 2011, , 11-32.		1
118	Polarization effects in 4Pi microscopy. Micron, 2011, 42, 353-359.	1.1	10
119	Enhanced background rejection in thick tissue using focal modulation microscopy with quadrant apertures. Optics Communications, 2011, 284, 1475-1480.	1.0	10
120	Two-photon focal modulation microscopy in turbid media. Applied Physics Letters, 2011, 99, .	1.5	12
121	Multimodal nonlinear optical imaging of obesity-induced liver steatosis and fibrosis. , 2011, , .		0
122	High-speed focal modulation microscopy using acousto-optical modulators for visualization of thick biological specimens. , 2011, , .		0
123	Full-field optical coherence tomography for rapid 3-D imaging in biological systems. , 2011, , .		1
124	Second/Third Harmonic Generation Microscopy. , 2011, , 55-74.		0
125	Image Formation and Analysis of Coherent Microscopy and Beyond â€“ Toward Better Imaging and Phase Recovery. Springer Series in Surface Sciences, 2011, , 295-327.	0.3	0
126	Quantitative phase from defocus. , 2011, , .		0

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127	An in situ and in vitro investigation for the transglutaminase potential in tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1310-1320.	2.1	21
128	Annular aperture detection scheme in radially polarized coherent anti-Stokes Raman scattering (RP-CARS) microscopy for contrast improvement. Proceedings of SPIE, 2010, , .	0.8	0
129	Real-time focal modulation microscopy. , 2010, , .		1
130	Focal modulation microscopy with annular apertures: A numerical study. Journal of Biophotonics, 2010, 3, 476-484.	1.1	24
131	Advanced micro and nanoscopy for biomedicine. Journal of Biophotonics, 2010, 3, 415-416.	1.1	0
132	Edge detector tolerant to object defocusing. Optics Communications, 2010, 283, 3639-3645.	1.0	1
133	Resolving interparticle position and optical forces along the axial direction using optical coherence gating. Applied Physics Letters, 2010, 97, 231113.	1.5	5
134	Using the phase-space imager to analyze partially coherent imaging systems: bright-field, phase contrast, differential interference contrast, differential phase contrast, and spiral phase contrast. Journal of Modern Optics, 2010, 57, 718-739.	0.6	44
135	Partially coherent image formation in Asymmetric Illumination-based Differential Phase Contrast (AIDPC) and phase-retrieval. , 2010, , .		0
136	Linear Phase Recovery From DIC Microscope. , 2010, , .		0
137	Image formation of volume holographic microscopy using point spread functions. Proceedings of SPIE, 2010, , .	0.8	0
138	3D Imaging with Holographic Tomography. AIP Conference Proceedings, 2010, , .	0.3	8
139	Divided-aperture technique for fluorescence confocal microscopy through scattering media. Applied Optics, 2010, 49, 752.	2.1	8
140	Sample-less calibration of the differential interference contrast microscope. Applied Optics, 2010, 49, 2954.	2.1	10
141	High-speed focal modulation microscopy using acousto-optical modulators. Biomedical Optics Express, 2010, 1, 1026.	1.5	19
142	åŸºäºŽäºŒæ¬¡è°æ³¢æ˜¾å¾®æ^åƒæŽ¨è®ºèƒ¶åŽŸè›‹ç™½å¾®ç»“æž„„çš„å‡†æ™¶ä½“æ¨¡åž‹. Chinese Optics Letters, 2010, 8, 213.		
143	Motion detection using extended fractional Fourier transform and digital speckle photography. Optics Express, 2010, 18, 11396.	1.7	12
144	Second harmonic scattering from small particles using Discrete Dipole Approximation. Optics Express, 2010, 18, 21603.	1.7	18

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145	Phase from chromatic aberrations. Optics Express, 2010, 18, 22817.	1.7	126
146	Phase-space representation of partially coherent imaging systems using the Cohen class distribution. Optics Letters, 2010, 35, 348.	1.7	27
147	Transport-of-intensity approach to differential interference contrast (TI-DIC) microscopy for quantitative phase imaging. Optics Letters, 2010, 35, 447.	1.7	166
148	Surface-plasmon-coupled emission microscopy with a spiral phase plate. Optics Letters, 2010, 35, 517.	1.7	32
149	Focal modulation microscopy: a theoretical study. Optics Letters, 2010, 35, 1804.	1.7	15
150	Optical image encryption based on diffractive imaging. Optics Letters, 2010, 35, 3817.	1.7	306
151	Real-Time Focal Modulation Microscopy Combined with Fluorescence Lifetime Imaging. , 2010, , .		0
152	Polarization and the focusing of light. , 2010, , .		0
153	Enhanced Background Rejection in In-Phase Focal Modulation Microscopy. , 2009, , .		0
154	Design considerations for refractive solid immersion lens: Application to subsurface integrated circuit fault localization using laser induced techniques. Review of Scientific Instruments, 2009, 80, 013703.	0.6	12
155	Linear Phase-gradient Imaging with Asymmetric Illumination based Differential Phase Contrast (AIDPC). , 2009, , .		1
156	Control of optical contrast using gold nanoshells for optical coherence tomography imaging of mouse xenograft tumor model in vivo. Journal of Biomedical Optics, 2009, 14, 054015.	1.4	45
157	Bessel beams: Effects of polarization. Optics Communications, 2009, 282, 4647-4656.	1.0	29
158	Performance parameters for highly-focused electromagnetic waves. Optics Communications, 2009, 282, 727-734.	1.0	9
159	High aperture focusing through a spherical interface: Application to refractive solid immersion lens (RSIL) for subsurface imaging. Optics Communications, 2009, 282, 1036-1041.	1.0	22
160	Improvements in confocal microscopy imaging using serrated divided apertures. Optics Communications, 2009, 282, 3846-3849.	1.0	8
161	Quantitative phase-gradient imaging at high resolution with asymmetric illumination-based differential phase contrast. Optics Letters, 2009, 34, 1924.	1.7	197
162	Polarization conversion in confocal microscopy with radially polarized illumination. Optics Letters, 2009, 34, 2147.	1.7	51

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163	Wide-field extended-resolution fluorescence microscopy with standing surface-plasmon-resonance waves. Optics Letters, 2009, 34, 2366.	1.7	32
164	Improved spatial resolution in fluorescence focal modulation microscopy. Optics Letters, 2009, 34, 3508.	1.7	31
165	Numerical study of effects of light polarization, scatterer sizes and orientations on near-field coherent anti-Stokes Raman scattering microscopy. Optics Express, 2009, 17, 2423.	1.7	14
166	Beam duality, with application to generalized Bessel-Gaussian, and Hermite- and Laguerre- Gaussian beams. Optics Express, 2009, 17, 3690.	1.7	27
167	Three-dimensional coherent transfer function for a confocal microscope with two D-shaped pupils. Applied Optics, 2009, 48, 810.	2.1	19
168	Model for light scattering in biological tissue and cells based on random rough nonspherical particles. Applied Optics, 2009, 48, 1153.	2.1	8
169	Concentration dependence of gold nanoshells on the enhancement of optical coherence tomography images: a quantitative study. Applied Optics, 2009, 48, D96.	2.1	29
170	Simple spatial phase modulator for focal modulation microscopy. Applied Optics, 2009, 48, 3237.	2.1	17
171	Optimization of axial resolution in a confocal microscope with D-shaped apertures. Applied Optics, 2009, 48, 3998.	2.1	24
172	Edge enhancement for in-phase focal modulation microscope. Applied Optics, 2009, 48, 6290.	2.1	8
173	Image formation in holographic tomography: high-aperture imaging conditions. Applied Optics, 2009, 48, H168.	2.1	36
174	Improved contrast radially polarized coherent anti-Stokes Raman scattering microscopy using annular aperture detection. Applied Physics Letters, 2009, 95, .	1.5	15
175	Critical parameters in the pegylation of gold nanoshells for biomedical applications: Anin vitromacrophage study. Journal of Drug Targeting, 2009, 17, 181-193.	2.1	99
176	Design, Fabrication, and Assembly of an Optical Biosensor Probe Package for OCT (Optical Coherence) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.7	8
177	Image Formation in Holographic Microscopy and Tomography. , 2009, , .		0
178	Effects of Polarization on the Focusing of Light. , 2009, , .		1
179	Transfer function analysis of partially coherent phase imaging methods and evaluation for quantitative imaging. , 2009, , .		0
180	A New Phase-Correlation Based Gradient Registration Approach for Phase-retrieval with DIC and DPC. , 2009, , .		0

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181	Quantitative Phase Imaging in Microscopy. , 2009, , 1-7.		0
182	Simple spatial phase modulator for focal modulation microscopy. Applied Optics, 2009, 48, 3238.	2.1	0
183	Synthesis of gold nanoshells based on the depositionprecipitation process. Gold Bulletin, 2008, 41, 23-36.	3.2	78
184	Combinatorial treatment of photothermal therapy using gold nanoshells with conventional photodynamic therapy to improve treatment efficacy: An in vitro study. Lasers in Surgery and Medicine, 2008, 40, 584-589.	1.1	47
185	Electro-spinning of pure collagen nano-fibres â€“ Just an expensive way to make gelatin?. Biomaterials, 2008, 29, 2293-2305.	5.7	538
186	Two-zone pupil filters. Optics Communications, 2008, 281, 913-922.	1.0	27
187	Three-zone pupil filters. Optics Communications, 2008, 281, 3623-3630.	1.0	26
188	Creation of a needle of longitudinally polarized light in vacuum using binary optics. Nature Photonics, 2008, 2, 501-505.	15.6	784
189	Quantitative phase restoration in differential interference contrast (DIC) microscopy. Proceedings of SPIE, 2008, , .	0.8	4
190	A two axes scanning SOI MEMS micromirror for endoscopic bioimaging. Journal of Micromechanics and Microengineering, 2008, 18, 025001.	1.5	74
191	Molecular contrast of EGFR expression using gold nanoparticles as a reflectance-based imaging probe. Molecular and Cellular Probes, 2008, 22, 14-23.	0.9	34
192	Filter performance parameters for vectorial high-aperture wave fields. Optics Letters, 2008, 33, 476.	1.7	16
193	Performance parameters for focusing of radial polarization. Optics Letters, 2008, 33, 497.	1.7	16
194	Interferometric polarization coherent anti-Stokes Raman scattering (IP-CARS) microscopy. Optics Letters, 2008, 33, 602.	1.7	44
195	Fractional Gouy phase. Optics Letters, 2008, 33, 1363.	1.7	10
196	Modeling phase functions in biological tissue. Optics Letters, 2008, 33, 1599.	1.7	4
197	Image formation in holographic tomography. Optics Letters, 2008, 33, 2362.	1.7	43
198	Superresolution along extended depth of focus with binary-phase filters for the Gaussian beam. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2095.	0.8	40

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199	Lommel pulses: An analytic form for localized waves of the focus wave mode type with bandlimited spectrum. Optics Express, 2008, 16, 150.	1.7	17
200	The divided aperture technique for microscopy through scattering media. Optics Express, 2008, 16, 17031.	1.7	37
201	Focal modulation microscopy. Optics Express, 2008, 16, 18764.	1.7	76
202	Partially coherent image formation in differential interference contrast (DIC) microscope. Optics Express, 2008, 16, 19462.	1.7	61
203	Influence of optical probe packaging on a 3D MEMS scanning micro-mirror for optical coherence tomography (OCT) applications. , 2008, , .		5
204	Synthesis of Contiguous Silicaâ^'Gold Coreâ^'Shell Structures:â€‰ Critical Parameters and Processes. Langmuir, 2008, 24, 5109-5112.	1.6	73
205	Design and development of a 3D scanning MEMS OCT probe using a novel SiOB package assembly. Journal of Micromechanics and Microengineering, 2008, 18, 125005.	1.5	45
206	Localization measures for high-aperture wavefields based on pupil moments. Journal of Optics, 2008, 10, 033001.	1.5	7
207	Endoscopic image analysis of photosensitizer fluorescence as a promising noninvasive approach for pathological grading of bladder cancer in situ. Journal of Biomedical Optics, 2008, 13, 054022.	1.4	20
208	What we expect from weakly dissipating materials at the range of plasmon resonance frequencies. , 2008, , .		1
209	Nanoillumination based on self-focus and field enhancement inside a subwavelength metallic structure. Applied Physics Letters, 2007, 90, 011501.	1.5	8
210	Comparison of three dimensional transfer function analysis of alternative phase imaging methods. , 2007, , .		2
211	MEMS-based non-rotatory circumferential scanning optical probe for endoscopic optical coherence tomography. , 2007, , .		6
212	Absorption effects in optical coherence tomography modeling. Proceedings of SPIE, 2007, , .	0.8	0
213	Improving the optical contrast of backscattering signal in reflectance-based imaging with gold nanoshells. Proceedings of SPIE, 2007, , .	0.8	0
214	Optical coherent tomography (OCT) bio-imaging using 3D scanning micromirror. , 2007, , .		4
215	<title>Effects of apertures on scattered light: a Monte Carlo study of confocal imaging</title>. , 2007, , .		0
216	Toward the standing wave surface plasmon resonance fluorescence microscopy. , 2007, , .		0

#	Article	IF	Citations
217	Fractal model of light scattering in biological tissue and cells. Optics Letters, 2007, 32, 142.	1.7	104
218	Filter performance parameters for high-aperture focusing. Optics Letters, 2007, 32, 1653.	1.7	18
219	Improved expressions for performance parameters for complex filters. Optics Letters, 2007, 32, 1713.	1.7	10
220	Binary-phase spatial filter for real-time swept-source optical coherence microscopy. Optics Letters, 2007, 32, 2375.	1.7	84
221	Tight focusing of radially polarized Gaussian and Bessel-Gauss beams. Optics Letters, 2007, 32, 3417.	1.7	81
222	Double-reflection polygon mirror for high-speed optical coherence microscopy. Optics Letters, 2007, 32, 3528.	1.7	29
223	High-aperture beams: reply to comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1211.	0.8	8
224	Monochromatic scalar fields with maximum focal irradiance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 2057.	0.8	3
225	Monochromatic electromagnetic fields with maximum focal energy density. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 3115.	0.8	2
226	Near-field effects on coherent anti-Stokes Raman scattering microscopy imaging. Optics Express, 2007, 15, 4118.	1.7	18
227	Investigation of the point spread function of surface plasmon-coupled emission microscopy. Optics Express, 2007, 15, 4634.	1.7	52
228	Ultra long high resolution beam by multi-zone rotationally symmetrical complex pupil filter. Optics Express, 2007, 15, 6409.	1.7	43
229	Imaging in digital holographic microscopy. Optics Express, 2007, 15, 13640.	1.7	74
230	The optics of microscopy. Journal of Optics, 2007, 9, S1-S6.	1.5	10
231	Real-time High Resolution Optical Coherence Microscopy with a Phase Shifting Apodizer. , 2007, , .		0
232	Near-infrared Fluorescence Imaging for Colonic Cancer Diagnosis. , 2007, , .		0
233	Design, Fabrication and Assembly of an Optical Biosensor Probe Package for OCT (Optical Coherence) Tj ETQq1 1 0.784314 rgBT /Ov		0
234	Second harmonic generation polarization microscopy with tightly focused linearly and radially polarized beams. Optics Communications, 2007, 275, 453-457.	1.0	110

#	Article	IF	Citations
235	The sampling limit in fluorescence microscopy. Micron, 2007, 38, 145-149.	1.1	17
236	Fundamentals of superresolution. Micron, 2007, 38, 165-169.	1.1	54
237	Effects of using a metal layer in total internal reflection fluorescence microscopy. Applied Physics A: Materials Science and Processing, 2007, 89, 333-335.	1.1	4
238	LIGHT SCATTERING BY RANDOM NON-SPHERICAL PARTICLES WITH ROUGH SURFACE IN BIOLOGICAL TISSUE AND CELLS(3A2 Cellular & Tissue Engineering & Biomaterials II). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S171.	0.0	0
239	Classification of colonic tissues using Raman spectroscopy and multivariate techniques. , 2006, , .		3
240	Study on potential of structured illumination microscopy utilizing digital micromirror device for endoscopy purpose. , 2006, , .		7
241	Effects of axial field components on second harmonic generation microscopy. Optics Express, 2006, 14, 1167.	1.7	80
242	White-light interference microscopy: a way to obtain high lateral resolution over an extended range of heights. Optics Express, 2006, 14, 6788.	1.7	18
243	<title>Phase space analysis of photon scattering in multi planes within a microscope system</title>. , 2006, , .		2
244	<title>Vectorial approach to studying second harmonic generation in collagen using linearly and radially polarized beams</title>. , 2006, , .		2
245	Application of antibody-conjugated gold nanoparticles for optical molecular imaging of epithelial carcinoma cells. , 2006, , .		1
246	Joint Distribution Functions and the Generalized Optical transfer Function. AIP Conference Proceedings, 2006, , .	0.3	1
247	Comment on â€œDo evanescent waves really exist in free space?â€• Optics Communications, 2006, 266, 448-449.	1.0	3
248	Signal-to-Noise Ratio in Confocal Microscopes. , 2006, , 442-452.		30
249	Comment on â€œTheoretical analysis of numerical aperture increasing lens microscopyâ€•[J. Appl. Phys. 97, 053105 (2005)]. Journal of Applied Physics, 2006, 100, 086108.	1.1	4
250	The numerical integration of fundamental diffraction integrals for converging polarized spherical waves using a two-dimensional form of Simpson's 1/3 Rule. Journal of Modern Optics, 2005, 52, 1123-1134.	0.6	6
251	White-light interference microscopy: effects of multiple reflections within a surface film. Optics Express, 2005, 13, 164.	1.7	17
252	Focusing of pseudoradial polarized beams. Optics Express, 2005, 13, 1066.	1.7	35

#	Article	IF	Citations
253	Linear phase imaging using differential interference contrast microscopy. Journal of Microscopy, 2004, 214, 7-12.	0.8	246
254	Practical limits of resolution in confocal and non-linear microscopy. Microscopy Research and Technique, 2004, 63, 18-22.	1.2	162
255	Fresnel diffraction by a circular aperture with off-axis illumination and its use in deconvolution of microscope images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 540.	0.8	9
256	Defocused transfer function for a partially coherent microscope and application to phase retrieval. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 828.	0.8	64
257	Orthogonal aberration functions for high-aperture optical systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 832.	0.8	11
258	Orthogonal aberration functions for high-aperture optical systems: erratum. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2468.	0.8	2
259	Vector treatment of second-harmonic generation produced by tightly focused vignetted Gaussian beams. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 2206.	0.9	17
260	Low-coherence interference microscopy using a ferro-electric liquid crystal phase-modulator. Optics Express, 2004, 12, 2512.	1.7	24
261	Image formation in low-coherence and confocal interference microscopes. Applied Optics, 2004, 43, 1493.	2.1	52
262	Zernike expansion of separable functions of Cartesian coordinates. Applied Optics, 2004, 43, 3963.	2.1	14
263	Annular pupils, radial polarization, and superresolution. Applied Optics, 2004, 43, 4322.	2.1	302
264	Polarization effects in SHG of collagen. , 2004, 5323, 343.		4
265	Three topics in Zernike polynomials. , 2004, , .		0
266	GAUSSIAN AND BESSEL BEAMS AND PULSES BEYOND THE PARAXIAL APPROXIMATION. , 2004, , .		0
267	Hyperresolving phase-only filters with an optically addressable liquid crystal spatial light modulator. Micron, 2003, 34, 327-332.	1.1	11
268	Information capacity and resolution in three-dimensional imaging. Optik, 2003, 113, 548-550.	1.4	12
269	A matrix method for calculating the three-dimensional irradiance distribution in the focal region of a convergent beam. Optik, 2003, 114, 298-304.	1.4	5
270	Focal shift and the axial optical coordinate for high-aperture systems of finite Fresnel number. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 2156.	0.8	38

#	Article	IF	Citations
271	Near-real-time phase difference amplification using multiple-beam interferometry and a liquid-crystal-phase-only spatial light modulator. Optical Engineering, 2003, 42, 3537.	0.5	1
272	Phase difference amplification using LCSLM and multiple-beam-interference. , 2003, 4829, 893.		0
273	Near-real-time phase difference amplification. , 2003, , .		1
274	Information capacity and resolution in three-dimensional imaging. , 2003, , .		0
275	Characterization of the second harmonic signal from collagen. , 2003, , .		21
276	Using an optically-addressable liquid crystal spatial light modulator to generate phase only filters. , 2003, 4829, 292.		0
277	Wavefront Coding Fluorescence Microscopy Using High Aperture Lenses. Springer Series in Optical Sciences, 2003, , 143-165.	0.5	15
278	Comment on â€˜TM, TE and â€˜TEMâ€™ beam modes: exact solutions and their problemsâ€™. Journal of Optics, 2002, 4, 217-218.	1.5	2
279	Spatial frequency content of focused ultrashort pulsed beams*. Journal of Optics, 2002, 4, 549-552.	1.5	3
280	Generalized Bessel pulse beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 2218.	0.8	35
281	Straightness measurements with a reflection confocal optical systemâ€”an experimental study. Applied Optics, 2002, 41, 3966.	2.1	11
282	Three-dimensional phase imaging with the intensity transport equation. Applied Optics, 2002, 41, 5951.	2.1	40
283	Numerical integration of diffraction integrals for a circular aperture. Optik, 2002, 113, 293-298.	1.4	18
284	Geometric phase-shifting for low-coherence interference microscopy. Optics and Lasers in Engineering, 2002, 37, 631-641.	2.0	40
285	A 3D vectorial optical transfer function suitable for arbitrary pupil functions. Optics Communications, 2002, 211, 53-63.	1.0	48
286	Wigner function for highly convergent three-dimensional wave fields. Optics Letters, 2001, 26, 968.	1.7	34
287	High-aperture beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 1579.	0.8	76
288	Wigner function for nonparaxial wave fields. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 2486.	0.8	12

#	Article	IF	Citations
289	Bessel pulse beams and focus wave modes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 2594.	0.8	47
290	Evanescent fields do contribute to the far field (1999,J. mod. Optics, 46, 729). Journal of Modern Optics, 2001, 48, 177-180.	0.6	5
291	Integrated intensity and confocal imaging through scattering media. Journal of Modern Optics, 2001, 48, 1517-1525.	0.6	12
292	‹title›Wigner function and ambiguity function for nonparaxial wavefields‹/title›. , 2001, , .		0
293	Comment on â€œThe uncertainty principle applied to estimate focal spot dimensionsâ€•[Opt. Commun. 173 (2000) 51]. Optics Communications, 2001, 189, 1-2.	1.0	2
294	Characterising elegant and standard Hermiteâ€“Gaussian beam modes. Optics Communications, 2001, 191, 173-179.	1.0	70
295	Beam collimation in the presence of aberrations. Optics Communications, 2001, 194, 1-9.	1.0	6
296	Optimization of second-harmonic generation microscopy. Micron, 2001, 32, 691-700.	1.1	60
297	Simultaneous multichannel nonlinear imaging: combined two-photon excited fluorescence and second-harmonic generation microscopy. Micron, 2001, 32, 685-689.	1.1	43
298	Measurement of thin coatings in the confocal microscope. Micron, 2001, 32, 701-705.	1.1	19
299	The three-dimensional transfer function and phase space mappings. Optik, 2001, 112, 189-192.	1.4	8
300	Geometric phase low-coherence interference microscopy at high numerical apertures. , 2001, 4417, 529.		0
301	Comment on 'Analysis of spherical aberration of a water immersion objective: application to specimens with refractive index 1.33-1.40', D.-S. Wan, M. Rajadhyaksha and R. H. Webb, J. Microsc. 197, 274-284 (2000). Journal of Microscopy, 2000, 200, 177-178.	0.8	2
302	Electromagnetic imaging in the confocal microscope. Optics Communications, 2000, 180, 1-8.	1.0	4
303	Imaging of spheres and surface profiling by confocal microscopy. Applied Optics, 2000, 39, 4621.	2.1	34
304	Polarization of almost-plane waves. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 335.	0.8	31
305	Focal shift, optical transfer function, and phase-space representations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 772.	0.8	25
306	Real-time phase-difference amplification with a liquid-crystal spatial light modulator. Applied Optics, 2000, 39, 5125.	2.1	5

#	Article	IF	Citations
307	Confocal imaging through weakly aberrating media. Applied Optics, 2000, 39, 6366.	2.1	9
308	Validity of the Debye approximation. Optics Letters, 2000, 25, 1660.	1.7	35
309	Axially invariant pupil filters. Journal of Modern Optics, 2000, 47, 57-68.	0.6	20
310	Two-dimensional weak-object transfer functions in the scanning harmonic microscope. Journal of Modern Optics, 2000, 47, 1195-1202.	0.6	7
311	Appropriate Image Processing for Confocal Microscopy. , 1999, , 42-54.		1
312	Fresnel coefficients for weak reflection, and the scattering potential for three-dimensional imaging. Optics Communications, 1999, 162, 182-186.	1.0	12
313	Focal distributions and Hertz potentials. Optics Communications, 1999, 160, 191-194.	1.0	6
314	Position magnifying sensor. Optics Communications, 1999, 170, 309-318.	1.0	2
315	Effect of a confocal pinhole in two-photon microscopy. , 1999, 47, 210-214.		39
316	Effects of system geometry on the axial response of the fibreoptical confocal microscope. Journal of Modern Optics, 1999, 46, 605-621.	0.6	12
317	Electromagnetic Gaussian beams beyond the paraxial approximation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1381.	0.8	109
318	Direct method for phase retrieval from the intensity of cylindrical wave fronts. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1838.	0.8	19
319	Focal-length measurement by multiple-beam shearing interferometry. Applied Optics, 1999, 38, 3542.	2.1	20
320	Effect of a finite-size pinhole on noise performance in single-, two-, and three-photon confocal fluorescence microscopy. Applied Optics, 1999, 38, 3562.	2.1	44
321	Straightness measurements by use of a reflection confocal optical system. Applied Optics, 1999, 38, 5310.	2.1	7
322	Binary optics and confocal imaging. Optics Letters, 1999, 24, 505.	1.7	28
323	Transverse-electric and transverse-magnetic beam modes beyond the paraxial approximation. Optics Letters, 1999, 24, 1543.	1.7	95
324	Axial resolution in the fibre-optical confocal microscope. Bioimaging, 1998, 6, 98-103.	1.8	10

#	Article	IF	Citations
325	Similarity theorems for fractional Fourier transforms and fractional Hankel transforms. Optics Communications, 1998, 154, 173-178.	1.0	24
326	The beam propagation factor for higher order Gaussian beams. Optics Communications, 1998, 153, 207-210.	1.0	103
327	Beam modes beyond the paraxial approximation: A scalar treatment. Physical Review A, 1998, 57, 2971-2979.	1.0	134
328	Near field and far field of elegant Hermite-Gaussian and Laguerre-Gaussian modes. Journal of Modern Optics, 1998, 45, 1999-2009.	0.6	76
329	Three-dimensional second-harmonic generation imaging with femtosecond laser pulses. Optics Letters, 1998, 23, 1209.	1.7	108
330	Dependence of focal shift on Fresnel number and angular aperture. Optics Letters, 1998, 23, 1803.	1.7	34
331	Resolution for off-axis illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 622.	0.8	10
332	Focal distribution for superresolving toraldo filters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 849.	0.8	38
333	Dependence of Fresnel number on aperture stop position. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 3016.	0.8	14
334	Free-space diffraction and the fractional fourier transform. Journal of Modern Optics, 1998, 45, 2097-2103.	0.6	5
335	Signal level in a confocal scanning microscope using step-index optical fibres. Journal of Modern Optics, 1998, 45, 529-537.	0.6	6
336	Novel method for beam collimation using multiple-beam shearing interferometry. , 1998, , .		3
337	Title is missing!. Waves in Random and Complex Media, 1998, 8, 53-66.	1.5	17
338	Aberration measurement in confocal microscopy: Phase retrieval from a single intensity measurement. Journal of Modern Optics, 1997, 44, 1553-1561.	0.6	11
339	<title>Interferometric measurement of refractive index profiles for thin film characterization</title>. , 1997, 3098, 442.		0
340	<title>Confocal interference microscopy</title>. , 1997, , .		3
341	Holmium-doped optical fiber for filter applications. Applied Optics, 1997, 36, 6815.	2.1	3
342	Efficient calculation of electromagnetic diffraction in optical systems using a multipole expansion. Journal of Modern Optics, 1997, 44, 803-818.	0.6	90

#	Article	IF	Citations
343	Effects of specimen refractive index on confocal imaging. Journal of Microscopy, 1997, 185, 366-374.	0.8	90
344	Free-space propagation of femto-second light pulses. Optics Communications, 1997, 133, 1-6.	1.0	56
345	Vector diffraction in paraboloidal mirrors with Seidel aberrations: effects of small object displacements. Optics Communications, 1997, 138, 262-264.	1.0	11
346	Effect of half-stop lateral misalignment on imaging of dark-field and stereoscopic confocal microscopes. Applied Optics, 1996, 35, 6732.	2.1	11
347	Effect of an annular pupil on confocal imaging through highly scattering media. Optics Letters, 1996, 21, 312.	1.7	65
348	Scattering by fractal surfaces with an outer scale. Optics Communications, 1996, 122, 178-188.	1.0	41
349	Flattened light beams. Optics Communications, 1996, 132, 144-152.	1.0	32
350	A surface reconstruction algorithm based on confocal interferometric profiling. Journal of Modern Optics, 1996, 43, 591-605.	0.6	15
351	Study of evanescent waves for transmission near-field optical microscopy. Journal of Modern Optics, 1996, 43, 1167-1183.	0.6	25
352	Simplified expressions for the bidirectional reflectance distribution function, and inverse scattering of surface roughness. Journal of Modern Optics, 1996, 43, 373-380.	0.6	6
353	Synthesis of filters for specified axial properties. Journal of Modern Optics, 1996, 43, 525-536.	0.6	22
354	Surface reconstruction using an algorithm based on confocal imaging. Journal of Modern Optics, 1996, 43, 469-486.	0.6	21
355	Near field of a weakly guiding step-index singlemode fibre. Electronics Letters, 1996, 32, 1128.	0.5	2
356	Optical transfer function analysis for two-photon 4Pi confocal fluorescence microscopy. Optics Communications, 1995, 114, 45-49.	1.0	13
357	The scattering potential for imaging in the reflection geometry. Optics Communications, 1995, 117, 16-19.	1.0	21
358	Three-dimensional confocal fluorescence imaging under ultrashort pulse illumination. Optics Communications, 1995, 117, 406-412.	1.0	20
359	Fundamental reduction of the observation volume in far-field light microscopy by detection orthogonal to the illumination axis: Confocal theta microscopy (Optics Comm. 111 (1994) 536). Optics Communications, 1995, 119, 693-695.	1.0	12
360	Comparison of threeâ€dimensional imaging properties between twoâ€photon and singleâ€photon fluorescence microscopy. Journal of Microscopy, 1995, 177, 128-137.	0.8	82

#	Article	IF	Citations
361	Three-dimensional Optical Transfer Function for Weak Aberrations. Journal of Modern Optics, 1995, 42, 1921-1928.	0.6	26
362	Three-dimensional Image Formation in Confocal Microscopy Under Ultra-short-laser-pulse Illumination. Journal of Modern Optics, 1995, 42, 747-762.	0.6	24
363	Effect of numerical aperture on interference fringe spacing. Applied Optics, 1995, 34, 4731.	2.1	89
364	Imaging of Random Surfaces. Journal of Modern Optics, 1995, 42, 861-881.	0.6	14
365	Investigation of Aberration Measurement in Confocal Microscopy. Journal of Modern Optics, 1995, 42, 627-638.	0.6	7
366	The fourier optics of nearâ€field microscopy. Scanning, 1995, 17, 28-40.	0.7	15
367	Optimal Concentration of Electromagnetic Radiation. Journal of Modern Optics, 1994, 41, 1495-1505.	0.6	60
368	The scanning optical microscope (Extracts on nearâ€field microscopy)â€”from a 1975 report. Scanning, 1994, 16, 327-332.	0.7	4
369	Improved axial resolution in confocal fluorescence microscopy using annular pupils. Optics Communications, 1994, 110, 533-539.	1.0	25
370	Modelling of images of square-wave gratings and isolated edges using rigorous diffraction theory. Optics Communications, 1994, 105, 367-378.	1.0	23
371	Three-dimensional transfer functions for high-aperture systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 593.	0.8	99
372	Three-dimensional transfer functions in 4Pi confocal microscopes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 1619.	0.8	31
373	Three-dimensional optical transfer function for circular and annular lenses with spherical aberration and defocus. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 1758.	0.8	30
374	Analysis of confocal microscopy under ultrashort light-pulse illumination: comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1994, 11, 2742.	0.8	10
375	Influence of spherical aberration on axial imaging of confocal reflection microscopy. Applied Optics, 1994, 33, 616.	2.1	59
376	Effects of defocus and primary spherical aberration on images of a straight edge in confocal microscopy. Applied Optics, 1994, 33, 625.	2.1	14
377	Confocal imaging of a stratified medium. Applied Optics, 1994, 33, 631.	2.1	34
378	Imaging Performance of Confocal Fluorescence Microscopes with Finite-sized Source. Journal of Modern Optics, 1994, 41, 1521-1530.	0.6	10

#	Article	IF	Citations
379	Three-dimensional Partially-coherent Image Formation in Confocal Microscopes with a Finite-sized Detector. Journal of Modern Optics, 1994, 41, 1701-1715.	0.6	10
380	Experimental investigation of fibre-optical confocal scanning microscopy: Including a comparison with pinhole detection. Micron, 1993, 24, 557-565.	1.1	12
381	Effects of image processing on the noise properties of confocal images. Micron, 1993, 24, 623-635.	1.1	4
382	Imaging in a confocal microscope with one circular and one annular lens. Optics Communications, 1993, 103, 254-264.	1.0	9
383	Fibre-optical confocal scanning interference microscopy. Optics Communications, 1993, 100, 79-86.	1.0	21
384	Detectability: A new criterion for evaluation of the confocal microscope. Scanning, 1993, 15, 187-192.	0.7	44
385	Dependence of two- and three-dimensional optical transfer functions on pinhole radius in a coherent confocal microscopeâ€"comments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 533.	0.8	1
386	Coherent imaging of periodic thick fine isolated structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 614.	0.8	22
387	Fresnel approximation for off-axis illumination of a circular aperture. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1993, 10, 984.	0.8	6
388	Imaging and Reconstruction for Rough Surface Scattering in the Kirchhoff Approximation by Confocal Microscopy. Journal of Modern Optics, 1993, 40, 2407-2421.	0.6	36
389	Modelling of threeâ€dimensional fluorescence images of muscle fibres: an application of the threeâ€dimensional optical transfer function. Journal of Microscopy, 1993, 169, 339-345.	0.8	9
390	Imaging by a High Aperture Optical System. Journal of Modern Optics, 1993, 40, 1631-1651.	0.6	85
391	Effects of a Finite-sized Pinhole on 3D Image Formation in Confocal Two-photon Fluorescence Microscopy. Journal of Modern Optics, 1993, 40, 2009-2024.	0.6	41
392	Three-dimensional Coherent Transfer Functions for Confocal Imaging with Unequal Annular Lenses. Journal of Modern Optics, 1993, 40, 1255-1272.	0.6	7
393	Scattering by a one-dimensional rough surface, and surface profile reconstruction by confocal imaging. Physical Review Letters, 1993, 70, 1409-1412.	2.9	22
394	Fluorescent Image Formation in the Fibre-optical Confocal Scanning Microscope. Journal of Modern Optics, 1992, 39, 825-834.	0.6	14
395	Three-dimensional Coherent Transfer Function in Reflection-mode Confocal Microscopy Using Annular Lenses. Journal of Modern Optics, 1992, 39, 783-793.	0.6	6
396	The significance of 3â€Ð transfer functions in confocal scanning microscopy. Journal of Microscopy, 1992, 165, 377-390.	0.8	50

#	Article	IF	Citations
397	Signalâ€toâ€noise ratio in confocal microscope systems. Journal of Microscopy, 1992, 168, 209-218.	0.8	36
398	Confocal differential interference contrast (DIC) microscopy: including a theoretical analysis of conventional and confocal DIC imaging. Journal of Microscopy, 1992, 165, 81-101.	0.8	101
399	Colour confocal reflection microscopy using red, green and blue lasers. Journal of Microscopy, 1992, 165, 103-117.	0.8	22
400	Effects of Annular Pupils on Confocal Fluorescent Imaging. Journal of Modern Optics, 1992, 39, 1883-1896.	0.6	5
401	Confocal fluorescent microscopy with a finite-sized circular detector. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 151.	0.8	60
402	Diffraction by a circular aperture: a generalization of Fresnel diffraction theory. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 274.	0.8	86
403	Three-dimensional optical transfer function in a fiber-optical confocal fluorescence microscope using annular lenses. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 1991.	0.8	12
404	Effects of defocus and primary spherical aberration on three-dimensional coherent transfer functions in confocal microscopes. Applied Optics, 1992, 31, 2541.	2.1	18
405	Edge-setting criterion in confocal microscopy. Applied Optics, 1992, 31, 4575.	2.1	13
406	Axial resolution in the fibre-optical confocal scanning microscope using annular lenses. Optics Communications, 1992, 88, 27-32.	1.0	9
407	Axial imaging through an aberrating layer of water in confocal microscopy. Optics Communications, 1992, 88, 180-190.	1.0	50
408	Image of a straight edge in fibre-optical confocal scanning microscopy. Optics Communications, 1992, 94, 485-490.	1.0	7
409	Signal Level of the Fibre-optical Confocal Scanning Microscope. Journal of Modern Optics, 1991, 38, 1621-1630.	0.6	36
410	Three-dimensional Imaging in Confocal Fluorescent Microscopy with Annular Lenses. Journal of Modern Optics, 1991, 38, 2247-2263.	0.6	53
411	Aberration compensation in confocal microscopy. Applied Optics, 1991, 30, 3563.	2.1	102
412	Diffraction by a half-plane: a generalization of the Fresnel diffraction theory. Optics Letters, 1991, 16, 1060.	1.7	2
413	Approximation to the three-dimensional optical transfer function. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1991, 8, 692.	0.8	16
414	Three-dimensional coherent transfer functions in fiber-optical confocal scanning microscopes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1991, 8, 1019.	0.8	29

#	Article	IF	Citations
415	Image formation in a fiber-optical confocal scanning microscope. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1991, 8, 1755.	0.8	111
416	Stray light and noise in confocal microscopy. Micron and Microscopica Acta, 1991, 22, 239-243.	0.2	15
417	Improvement of axial resolution in confocal microscopy using an annular pupil. Optics Communications, 1991, 84, 7-13.	1.0	38
418	Three-dimensional optical transfer function for an annular lens. Optics Communications, 1991, 81, 276-280.	1.0	35
419	Three-dimensional coherent transfer function in a reflection-mode confocal scanning microscope. Optics Communications, 1991, 81, 281-284.	1.0	51
420	Signal strength and noise in confocal microscopy: Factors influencing selection of an optimum detector aperture. Scanning, 1991, 13, 233-240.	0.7	32
421	Confocal Microscopy with Detector Arrays. Journal of Modern Optics, 1990, 37, 267-279.	0.6	40
422	A method for evaluating microscope objectives to optimize performance of confocal systems. Journal of Microscopy, 1990, 158, 177-185.	0.8	21
423	Threeâ€dimensional image formation in confocal microscopy. Journal of Microscopy, 1990, 159, 179-194.	0.8	73
424	Use of objective lenses with slit pupil functions in the imaging of line structures. Applied Optics, 1990, 29, 4705.	2.1	8
425	Aberration Measurement by Confocal Interferometry. Journal of Modern Optics, 1989, 36, 233-250.	0.6	25
426	Confocal Interference Microscopy. , 1989, , .		1
427	Axial resolution of confocal fluorescence microscopy. Journal of Microscopy, 1989, 154, 237-241.	0.8	56
428	Three-dimensional imaging in a microscope. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1989, 6, 1260.	0.8	64
429	Scanning optical microscopy of low-contrast samples. Nature, 1988, 334, 572-572.	13.7	5
430	Axial behavior of pupil-plane filters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1988, 5, 643.	0.8	179
431	Aberrations in high aperture conventional and confocal imaging systems. Applied Optics, 1988, 27, 4782.	2.1	46
432	The Extended-focus, Auto-focus and Surface-profiling Techniques of Confocal Microscopy. Journal of Modern Optics, 1988, 35, 145-154.	0.6	44

#	Article	IF	Citations
433	Confocal Microscopes with Slit Apertures. Journal of Modern Optics, 1988, 35, 1169-1185.	0.6	109
434	Depth of field in optical microscopy. Journal of Microscopy, 1988, 149, 73-75.	0.8	34
435	Reciprocity and equivalence in scanning microscopes. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 755.	0.8	14
436	Information capacity and resolution in an optical system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 1152.	0.8	211
437	Imaging in optical systems of finite Fresnel number. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 1428.	0.8	18
438	Surface profiling by phase-locked interferometry. Applied Optics, 1986, 25, 2372.	2.1	39
439	Observations of dislocations and junction irregularities in bipolar transistors using the OBIC mode of the scanning optical microscope. Solid-State Electronics, 1986, 29, 1189-1194.	0.8	17
440	Scanning methods in optical microscopy. Endeavour, 1986, 10, 17-19.	0.1	4
441	Scanned imagery. Journal Physics D: Applied Physics, 1986, 19, 2077-2084.	1.3	10
442	Interferometric measurements of the complex amplitude of the defocus signalV(z) in the confocal scanning optical microscope. Journal of Applied Physics, 1986, 60, 2708-2712.	1.1	12
443	The information capacity of a multi-dimensional communications system. International Journal of Electronics, 1986, 60, 655-662.	0.9	4
444	Imaging of birefringent objects in scanning microscopes. Applied Optics, 1985, 24, 2081.	2.1	3
445	Imaging in a scanning photoacoustic microscope. Journal of the Acoustical Society of America, 1984, 76, 513-515.	0.5	5
446	Edge detection in micrometrology with nearly confocal microscopy. Applied Optics, 1984, 23, 657.	2.1	7
447	Differential phase contrast in scanning optical microscopy. Journal of Microscopy, 1984, 133, 27-39.	0.8	133
448	Improved imaging of phase gradients in scanning optical microscopy. Journal of Microscopy, 1984, 135, 275-286.	0.8	47
449	Digital image processing of confocal images. Image and Vision Computing, 1983, 1, 52-56.	2.7	45
450	High resolution stereoscopic imaging. Applied Optics, 1983, 22, 886.	2.1	21

#	Article	IF	Citations
451	Scanning optical microscope incorporating a digital framestore and microcomputer. Applied Optics, 1983, 22, 1474.	2.1	25
452	<title>Applications Of Scanning Optical Microscopy</title>. Proceedings of SPIE, 1983, , .	0.8	4
453	Improvement in resolution by nearly confocal microscopy. Applied Optics, 1982, 21, 778.	2.1	56
454	Observation of optical signatures of materials. Applied Physics Letters, 1982, 41, 604-606.	1.5	19
455	Experimental observations of the depth-discrimination properties of scanning microscopes. Optics Letters, 1981, 6, 625.	1.7	69
456	Effects of high angles of convergence onV(z) in the scanning acoustic microscope.. Applied Physics Letters, 1981, 38, 858-859.	1.5	149
457	The theory of the directâ€view confocal microscope. Journal of Microscopy, 1981, 124, 107-117.	0.8	78
458	<title>Image Formation In Confocal Optical Systems</title>. , 1980, 0232, 197.		1
459	Optical fibre profiling using a scanning optical microscope. Optical and Quantum Electronics, 1980, 12, 341-345.	1.5	21
460	<title>Coded Apertures And Detectors For Optical Differentiation</title>. , 1980, 0232, 203.		5
461	Multiple Traversing of the Object in the Scanning Microscope. Optica Acta, 1980, 27, 611-624.	0.7	26
462	Effect of spherical aberration on the imaging properties of scanning optical microscopes. Applied Optics, 1979, 18, 1058.	2.1	40
463	Imaging properties of annular lenses. Applied Optics, 1979, 18, 3764.	2.1	35
464	Imaging and Super-resolution in the Harmonic Microscope. Optica Acta, 1979, 26, 761-770.	0.7	18
465	Second-harmonic imaging in the scanning optical microscope. Optical and Quantum Electronics, 1978, 10, 435-439.	1.5	229
466	Image Formation in Scanning Microscopes with Partially Coherent Source and Detector. Optica Acta, 1978, 25, 315-325.	0.7	122
467	Resonant scanning optical microscope. Applied Optics, 1978, 17, 2879.	2.1	121
468	Depth of field in the scanning microscope. Optics Letters, 1978, 3, 115.	1.7	178

#	Article	IF	Citations
469	Electromagnetic field in the focal region of wide-angular annular lens and mirror systems. IEE Journal on Microwaves, Optics and Acoustics, 1978, 2, 163.	0.4	43
470	The theory of scanning microscopes with Gaussian pupil functions. Journal of Microscopy, 1978, 114, 179-197.	0.8	18
471	Gaussian-beam theory of lenses with annular aperture. IEE Journal on Microwaves, Optics and Acoustics, 1978, 2, 105.	0.4	113
472	Image Formation in the Scanning Microscope. Optica Acta, 1977, 24, 1051-1073.	0.7	446
473	The application of the dynamical theory of X-ray diffraction to thick hologram gratings. International Journal of Electronics, 1976, 41, 365-373.	0.9	12
474	Thermionic emission from negative electron affinity silicon. Journal of Applied Physics, 1975, 46, 151-157.	1.1	12
475	Electric field enhancement of escape probability on negativeâ€electronâ€affinity surfaces. Applied Physics Letters, 1973, 23, 123-124.	1.5	14
476	An ultra-high vacuum reflection scanning electron diffraction system. Vacuum, 1972, 22, 567-570.	1.6	5