

Gary Brooker

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,165
citations

279798

23
h-index

501196

28
g-index

37
all docs

37
docs citations

37
times ranked

1446
citing authors

#	ARTICLE	IF	CITATIONS
1	Historical development of FINCH from the beginning to single-shot 3D confocal imaging beyond optical resolution [Invited]. Applied Optics, 2022, 61, B121.	1.8	6
2	Single shot holographic super-resolution microscopy. Optics Express, 2021, 29, 15953.	3.4	26
3	Single crystal birefringent lens interferometers: application to FINCH super resolution microscopy and other applications. , 2017, , .		0
4	High-magnification super-resolution FINCH microscopy using birefringent crystal lens interferometers. Nature Photonics, 2016, 10, 802-808.	31.4	57
5	CINCH (confocal incoherent correlation holography) super resolution fluorescence microscopy based upon FINCH (Fresnel incoherent correlation holography). , 2015, 9336, .		5
6	Improved axial resolution of FINCH fluorescence microscopy when combined with spinning disk confocal microscopy. Optics Express, 2014, 22, 22298.	3.4	30
7	Inherently super-resolving FINCH 3D fluorescence microscopy. , 2014, , .		0
8	In-line FINCH super resolution digital holographic fluorescence microscopy using a high efficiency transmission liquid crystal GRIN lens. Optics Letters, 2013, 38, 5264.	3.3	66
9	Faithful reconstruction of digital holograms captured by FINCH using a Hamming window function in the Fresnel propagation. Optics Letters, 2013, 38, 3922.	3.3	22
10	Enhanced resolution in Fourier incoherent single channel holography (FISCH) with reduced optical path difference. Optics Express, 2013, 21, 20131.	3.4	40
11	Enhanced resolution and throughput of Fresnel incoherent correlation holography (FINCH) using dual diffractive lenses on a spatial light modulator (SLM). Optics Express, 2012, 20, 9109.	3.4	116
12	Reconstruction of objects above and below the objective focal plane with dimensional fidelity by FINCH fluorescence microscopy. Optics Express, 2012, 20, 19822.	3.4	42
13	Fresnel incoherent correlation holography (FINCH): a review of research. Advanced Optical Technologies, 2012, 1, 151-169.	1.7	25
14	High fidelity reconstruction of three-dimensional objects by FINCH fluorescence microscopy. , 2012, , .		0
15	Laboratory of ion and second messenger imaging: A tribute to the memory of Erminio Costa. Pharmacological Research, 2011, 64, 319-320.	7.1	0
16	Optimal resolution in Fresnel incoherent correlation holographic fluorescence microscopy. Optics Express, 2011, 19, 5047.	3.4	129
17	Theoretical and experimental demonstration of resolution beyond the Rayleigh limit by FINCH fluorescence microscopic imaging. Optics Express, 2011, 19, 26249.	3.4	148
18	FINCH: Fresnel Incoherent Correlation Hologram. , 2011, , .		2

#	ARTICLE	IF	CITATIONS
19	Incoherent Digital Holographic Microscopy with Coherent and Incoherent Light. Springer Series in Surface Sciences, 2011, , 87-112.	0.3	0
20	Achieving the Rayleigh Limit in Fresnel Incoherent Correlation Holographic 3D Fluorescence Microscopy. , 2011, , .		0
21	Review of three-dimensional holographic imaging by Fresnel incoherent correlation holograms. 3D Research, 2010, 1, 28-35.	1.8	9
22	Non-scanning motionless fluorescence three-dimensional holographic microscopy. Nature Photonics, 2008, 2, 190-195.	31.4	372
23	Digital spatially incoherent Fresnel holography. Optics Letters, 2007, 32, 912.	3.3	441
24	Fluorescence incoherent color holography. Optics Express, 2007, 15, 2244.	3.4	126
25	Scanning holographic microscopy with resolution exceeding the Rayleigh limit of the objective by superposition of off-axis holograms. Applied Optics, 2007, 46, 993.	2.1	70
26	Homodyne scanning holography. Optics Express, 2006, 14, 4280.	3.4	47
27	Interleukin-10 Prevents Glutamate-Mediated Cerebellar Granule Cell Death by Blocking Caspase-3-Like Activity. Journal of Neuroscience, 2001, 21, 3104-3112.	3.6	172
28	Brain-Derived Neurotrophic Factor and Basic Fibroblast Growth Factor Downregulate NMDA Receptor Function in Cerebellar Granule Cells. Journal of Neuroscience, 1998, 18, 7953-7961.	3.6	132
29	trkA Mediates the Nerve Growth Factor-induced Intracellular Calcium Accumulation. Journal of Biological Chemistry, 1996, 271, 6092-6098.	3.4	71
30	Glutamate impairs neuronal calcium extrusion while reducing sodium gradient. Neuron, 1994, 12, 295-300.	8.1	171
31	A nomogram for digoxin therapy. American Journal of Medicine, 1974, 57, 63-68.	1.5	165
32	[30] Assay of cyclic nucleotide phosphodiesterases with radioactive substrates. Methods in Enzymology, 1974, 38, 205-212.	1.0	161
33	Serum Cardiac Glycoside Assay Based upon Displacement of ³ H-Ouabain from Na-K ATPase. Circulation, 1972, 45, 20-36.	1.6	72
34	High Pressure Anion Exchange Chromatographic Measurement of Cyclic Adenosine 3',5'-Monophosphate and Cyclic [14C]Adenosine Monophosphate Specific Activity in Myocardium Prelabeled with [14C]Adenosine. Journal of Biological Chemistry, 1971, 246, 7810-7816.	3.4	32
35	Theoretical basis for the measurement of compounds by enzymic radioisotopic displacement. Biochemistry, 1968, 7, 4182-4184.	2.5	22
36	Assay of adenosine 3',5'-cyclic monophosphate and guanosine 3',5'-cyclic monophosphate in biological materials by enzymic radioisotopic displacement. Biochemistry, 1968, 7, 4177-4181.	2.5	388