

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	Digital spatially incoherent Fresnel holography. <i>Optics Letters</i> , 2007, 32, 912.	3.3	441
2	Assay of adenosine 3',5'-cyclic monophosphate and guanosine 3',5'-cyclic monophosphate in biological materials by enzymic radioisotopic displacement. <i>Biochemistry</i> , 1968, 7, 4177-4181.	2.5	388
3	Non-scanning motionless fluorescence three-dimensional holographic microscopy. <i>Nature Photonics</i> , 2008, 2, 190-195.	31.4	372
4	Interleukin-10 Prevents Glutamate-Mediated Cerebellar Granule Cell Death by Blocking Caspase-3-Like Activity. <i>Journal of Neuroscience</i> , 2001, 21, 3104-3112.	3.6	172
5	Glutamate impairs neuronal calcium extrusion while reducing sodium gradient. <i>Neuron</i> , 1994, 12, 295-300.	8.1	171
6	A nomogram for digoxin therapy. <i>American Journal of Medicine</i> , 1974, 57, 63-68.	1.5	165
7	[30] Assay of cyclic nucleotide phosphodiesterases with radioactive substrates. <i>Methods in Enzymology</i> , 1974, 38, 205-212.	1.0	161
8	Theoretical and experimental demonstration of resolution beyond the Rayleigh limit by FINCH fluorescence microscopic imaging. <i>Optics Express</i> , 2011, 19, 26249.	3.4	148
9	Brain-Derived Neurotrophic Factor and Basic Fibroblast Growth Factor Downregulate NMDA Receptor Function in Cerebellar Granule Cells. <i>Journal of Neuroscience</i> , 1998, 18, 7953-7961.	3.6	132
10	Optimal resolution in Fresnel incoherent correlation holographic fluorescence microscopy. <i>Optics Express</i> , 2011, 19, 5047.	3.4	129
11	Fluorescence incoherent color holography. <i>Optics Express</i> , 2007, 15, 2244.	3.4	126
12	Enhanced resolution and throughput of Fresnel incoherent correlation holography (FINCH) using dual diffractive lenses on a spatial light modulator (SLM). <i>Optics Express</i> , 2012, 20, 9109.	3.4	116
13	Serum Cardiac Glycoside Assay Based upon Displacement of ³ H-Ouabain from Na-K ATPase. <i>Circulation</i> , 1972, 45, 20-36.	1.6	72
14	trkA Mediates the Nerve Growth Factor-induced Intracellular Calcium Accumulation. <i>Journal of Biological Chemistry</i> , 1996, 271, 6092-6098.	3.4	71
15	Scanning holographic microscopy with resolution exceeding the Rayleigh limit of the objective by superposition of off-axis holograms. <i>Applied Optics</i> , 2007, 46, 993.	2.1	70
16	In-line FINCH super resolution digital holographic fluorescence microscopy using a high efficiency transmission liquid crystal GRIN lens. <i>Optics Letters</i> , 2013, 38, 5264.	3.3	66
17	High-magnification super-resolution FINCH microscopy using birefringent crystal lens interferometers. <i>Nature Photonics</i> , 2016, 10, 802-808.	31.4	57
18	Homodyne scanning holography. <i>Optics Express</i> , 2006, 14, 4280.	3.4	47

#	ARTICLE	IF	CITATIONS
19	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
20	Enhanced resolution in Fourier incoherent single channel holography (FISCH) with reduced optical path difference. Optics Express, 2013, 21, 20131.	3.4	40
21	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
22	Improved axial resolution of FINCH fluorescence microscopy when combined with spinning disk confocal microscopy. Optics Express, 2014, 22, 22298.	3.4	30
23	Single shot holographic super-resolution microscopy. Optics Express, 2021, 29, 15953.	3.4	26
24	Fresnel incoherent correlation holography (FINCH): a review of research. Advanced Optical Technologies, 2012, 1, 151-169.	1.7	25
25	Theoretical basis for the measurement of compounds by enzymic radioisotopic displacement. Biochemistry, 1968, 7, 4182-4184.	2.5	22
26	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
27	Review of three-dimensional holographic imaging by Fresnel incoherent correlation holograms. 3D Research, 2010, 1, 28-35.	1.8	9
28	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
29	CINCH (confocal incoherent correlation holography) super resolution fluorescence microscopy based upon FINCH (Fresnel incoherent correlation holography). , 2015, 9336, .		5
30	FINCH: Fresnel Incoherent Correlation Hologram. , 2011, , .		2
31	Laboratory of ion and second messenger imaging: A tribute to the memory of Erminio Costa. Pharmacological Research, 2011, 64, 319-320.	7.1	0
32	Incoherent Digital Holographic Microscopy with Coherent and Incoherent Light. Springer Series in Surface Sciences, 2011, , 87-112.	0.3	0
33	Achieving the Rayleigh Limit in Fresnel Incoherent Correlation Holographic 3D Fluorescence Microscopy. , 2011, , .		0
34	High fidelity reconstruction of three-dimensional objects by FINCH fluorescence microscopy. , 2012, , .		0
35	Inherently super-resolving FINCH 3D fluorescence microscopy. , 2014, , .		0
36	Single crystal birefringent lens interferometers: application to FINCH super resolution microscopy and other applications. , 2017, , .		0