

James H Werner

List of Publications by Year in descending order

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72
papers

3,626
citations

201674

27
h-index

175258

52
g-index

75
all docs

75
docs citations

75
times ranked

3731
citing authors

#	ARTICLE	IF	CITATIONS
1	A DNA-templated Silver Nanocluster Probe That Fluoresces upon Hybridization. <i>Nano Letters</i> , 2010, 10, 3106-3110.	9.1	600
2	Single Molecule Fluorescence Spectroscopy at Ambient Temperature. <i>Chemical Reviews</i> , 1999, 99, 2929-2956.	47.7	325
3	A complementary palette of fluorescent silver nanoclusters. <i>Chemical Communications</i> , 2010, 46, 3280.	4.1	272
4	Silver nanocluster aptamers: in situ generation of intrinsically fluorescent recognition ligands for protein detection. <i>Chemical Communications</i> , 2011, 47, 2294-2296.	4.1	240
5	A Fluorescence Light-Up Ag Nanocluster Probe That Discriminates Single-Nucleotide Variants by Emission Color. <i>Journal of the American Chemical Society</i> , 2012, 134, 11550-11558.	13.7	238
6	A DNA-templated fluorescent silver nanocluster with enhanced stability. <i>Nanoscale</i> , 2012, 4, 4107.	5.6	160
7	DNA Templated Metal Nanoclusters: From Emergent Properties to Unique Applications. <i>Accounts of Chemical Research</i> , 2018, 51, 2756-2763.	15.6	139
8	Three-dimensional tracking of individual quantum dots. <i>Applied Physics Letters</i> , 2007, 91, 224106.	3.3	109
9	Time-Resolved Three-Dimensional Molecular Tracking in Live Cells. <i>Nano Letters</i> , 2010, 10, 4732-4737.	9.1	108
10	Effect of shell thickness and composition on blinking suppression and the blinking mechanism in CdSe/CdS nanocrystal quantum dots. <i>Journal of Biophotonics</i> , 2010, 3, 706-717.	2.3	99
11	Formation and Stabilization of Fluorescent Gold Nanoclusters Using Small Molecules. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15879-15882.	3.1	88
12	Dynamics of the Primary Processes of Protein Folding: α Helix Nucleation. <i>Journal of Physical Chemistry B</i> , 2002, 106, 487-494.	2.6	82
13	Photoluminescence imaging of electronic-impurity-induced exciton quenching in single-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2012, 7, 126-132.	31.5	76
14	DNA/RNA Detection Using DNA-Templated Few-Atom Silver Nanoclusters. <i>Biosensors</i> , 2013, 3, 185-200.	4.7	74
15	Aggregation Effects on the Emission Spectra and Dynamics of Model Oligomers of MEH-PPV. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18851-18862.	3.1	71
16	Confocal, Three-Dimensional Tracking of Individual Quantum Dots in High-Background Environments. <i>Analytical Chemistry</i> , 2008, 80, 9830-9834.	6.5	70
17	Site-specific Dimensions Across a Highly Denatured Protein; A Single Molecule Study. <i>Journal of Molecular Biology</i> , 2005, 352, 672-682.	4.2	68
18	Bright two-photon emission and ultra-fast relaxation dynamics in a DNA-templated nanocluster investigated by ultra-fast spectroscopy. <i>Nanoscale</i> , 2012, 4, 4247.	5.6	67

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19	Disorder Limited Exciton Transport in Colloidal Single-Wall Carbon Nanotubes. Nano Letters, 2012, 12, 5091-5096.	9.1	61
20	Progress towards single-molecule DNA sequencing: a one color demonstration. Journal of Biotechnology, 2003, 102, 1-14.	3.8	52
21	The creation of a novel fluorescent protein by guided consensus engineering. Protein Engineering, Design and Selection, 2007, 20, 69-79.	2.1	51
22	Fast, super resolution imaging via Bessel-beam stimulated emission depletion microscopy. Optics Express, 2014, 22, 12398.	3.4	44
23	A Comparison of the Fluorescence Dynamics of Single Molecules of a Green Fluorescent Protein: One-versus Two-Photon Excitation. ChemPhysChem, 2006, 7, 250-260.	2.1	42
24	Time-Resolved, Confocal Single-Molecule Tracking of Individual Organic Dyes and Fluorescent Proteins in Three Dimensions. ACS Nano, 2012, 6, 8922-8932.	14.6	41
25	A two-dimensional view of the folding energy landscape of cytochrome c. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11130-11135.	7.1	40
26	Counting Small RNA in Pathogenic Bacteria. Analytical Chemistry, 2013, 85, 4938-4943.	6.5	33
27	Confocal line scanning of a Bessel beam for fast 3D Imaging. Optics Letters, 2014, 39, 3682.	3.3	29
28	3D Dimensional Tracking of Non-blinking Giant™ Quantum Dots in Live Cells. Advanced Functional Materials, 2014, 24, 4796-4803.	14.9	29
29	Formation and Dynamics of Supported Phospholipid Membranes on a Periodic Nanotextured Substrate. Langmuir, 2009, 25, 2986-2993.	3.5	28
30	Effects of Solvent Properties on the Spectroscopy and Dynamics of Alkoxy-Substituted PPV Oligomer Aggregates. Journal of Physical Chemistry B, 2012, 116, 10504-10513.	2.6	28
31	Visualizing Core-Shell Structure in Substituted PPV Oligomer Aggregates Using Fluorescence Lifetime Imaging Microscopy (FLIM). Journal of Physical Chemistry C, 2011, 115, 15607-15616.	3.1	27
32	A Beacon of Light. IEEE Nanotechnology Magazine, 2011, 5, 28-33.	1.3	23
33	Exonuclease I Hydrolyzes DNA with a Distribution of Rates. Biophysical Journal, 2005, 88, 1403-1412.	0.5	20
34	Three-dimensional tracking of fluorescent particles. , 2006, , .		17
35	Actin restructuring during Salmonella typhimurium infection investigated by confocal and super-resolution microscopy. Journal of Biomedical Optics, 2014, 19, 016011.	2.6	13
36	Light-sheet microscopy by confocal line scanning of dual-Bessel beams. Journal of Biomedical Optics, 2016, 21, 100502.	2.6	13

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37	Multicolor Three-Dimensional Tracking for Single-Molecule Fluorescence Resonance Energy Transfer Measurements. <i>Analytical Chemistry</i> , 2018, 90, 6109-6115.	6.5	13
38	Going beyond 2D: following membrane diffusion and topography in the IgE-Fc[epsilon]RI system using 3-dimensional tracking microscopy. , 2009, 7185, 71850Z.		12
39	Effects of fluorescence excitation geometry on the accuracy of DNA fragment sizing by flow cytometry. <i>Applied Optics</i> , 2000, 39, 2831.	2.1	11
40	<title>Current status of DNA sequencing by single molecule detection</title>. , 1999, , .		10
41	Increasing the Resolution of Single Pair Fluorescence Resonance Energy Transfer Measurements in Solution via Molecular Cytometry. <i>Analytical Chemistry</i> , 2007, 79, 3509-3513.	6.5	10
42	Measuring an Antibody Affinity Distribution Molecule by Molecule. <i>Analytical Chemistry</i> , 2008, 80, 8642-8648.	6.5	9
43	Photophysical characterization of fluorescent metal nanoclusters synthesized using oligonucleotides, proteins and small molecule ligands. <i>Proceedings of SPIE</i> , 2010, , .	0.8	9
44	Note: Time-gated 3D single quantum dot tracking with simultaneous spinning disk imaging. <i>Review of Scientific Instruments</i> , 2015, 86, 126102.	1.3	8
45	3D particle transport in multichannel microfluidic networks with rough surfaces. <i>Scientific Reports</i> , 2020, 10, 13848.	3.3	8
46	Visualization and modeling of inhibition of IL-1 β and TNF- α mRNA transcription at the single-cell level. <i>Scientific Reports</i> , 2021, 11, 13692.	3.3	8
47	Three dimensional time-gated tracking of non-blinking quantum dots in live cells. <i>Proceedings of SPIE</i> , 2015, 9338, .	0.8	7
48	Single-cell correlations of mRNA and protein content in a human monocytic cell line after LPS stimulation. <i>PLoS ONE</i> , 2019, 14, e0215602.	2.5	7
49	Probing dimerization and intraprotein fluorescence resonance energy transfer in a far-red fluorescent protein from the sea anemone <i>Heteractis crispa</i> . <i>Journal of Biomedical Optics</i> , 2008, 13, 031212.	2.6	6
50	Increased Mortality in Mice following Immunoprophylaxis Therapy with High Dosage of Nicotinamide in <i>Burkholderia</i> Persistent Infections. <i>Infection and Immunity</i> , 2019, 87, .	2.2	6
51	Super-resolution photoluminescence lifetime and intensity mapping of interacting CdSe/CdS quantum dots. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	6
52	Fast, 3D imaging via confocal line scanning of a Bessel beam using a single galvo mirror. , 2014, , .		4
53	NanoCluster Beacon - A new molecular probe for homogeneous detection of nucleic acid targets. , 2011, , .		3
54	A framework for quantitative analysis of spectral data in two channels. <i>Applied Physics Letters</i> , 2020, 117, 024101.	3.3	2

#	ARTICLE	IF	CITATIONS
55	Surface-immobilized antibody-antigen binding studies by single molecule fluorescence imaging. , 2006, , .		1
56	Single molecule spectroscopic characterization of a far-red fluorescent protein (HcRed) from the Anthozoa coral <i>Heteractis crispa</i> . , 2006, 6098, 18.		1
57	Time-resolved detection of the one- and two-photon excited fluorescence of single molecules of a folding enhanced green fluorescent protein. , 2006, 6092, 11.		1
58	New tools for discovering the role sRNA plays in cellular regulation. Proceedings of SPIE, 2012, , .	0.8	1
59	"Sizing" the oligomers of Azami Green fluorescent protein with FCS and antibunching. , 2012, , .		1
60	Enhanced 3D localization of individual RNA transcripts via astigmatic imaging. Proceedings of SPIE, 2014, , .	0.8	1
61	Three-dimensional single-molecule tracking in living cells. , 2019, , 229-267.		1
62	A gain series method for accurate EMCCD calibration. Scientific Reports, 2021, 11, 18348.	3.3	1
63	Spatio-Temporal Measurements and Modeling of Genetic Expression. Biophysical Journal, 2013, 104, 552a.	0.5	0
64	DNA-Templated Silver Nanoclusters that Fluoresce upon Hybridization. Biophysical Journal, 2013, 104, 545a.	0.5	0
65	The optical properties of conjugated materials and their aggregates: towards imaging of films and devices. Proceedings of SPIE, 2014, , .	0.8	0
66	Correlating Rat Basophil Leukemia Cell Activation with Interleukin 4 RNA Production using Single Molecule Fluorescence In-Situ Hybridization, Automated Super-Resolution Microscopy, and GPU-Enabled Image Analysis. Biophysical Journal, 2014, 106, 374a.	0.5	0
67	Simultaneous Confocal based 3D Tracking and Fluorescence Imaging. Biophysical Journal, 2014, 106, 194a.	0.5	0
68	3 Dimensional Tracking of Blinking Suppressed Quantum Dots in Live Cells. Biophysical Journal, 2014, 106, 216a.	0.5	0
69	Counting Small RNA in Pathogenic Bacteria. Biophysical Journal, 2014, 106, 396a.	0.5	0
70	Tracking Single Quantum Dots in Three Dimensions: Following Cell Receptor Traffic and Membrane Topology. , 2009, , .		0
71	Time-resolved 3D Tracking of Individual Quantum Dot Labeled Proteins in Live Cells via Confocal Feedback. , 2010, , .		0
72	Non-blinking "Giant" Nanocrystal Quantum Dots: Ideal Probes for Real-time Three-dimensional Tracking. , 2013, , .		0