

# Peter Goodwin

## List of Publications by Year in descending order

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74  
papers

3,609  
citations

159585

30  
h-index

133252

59  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3493  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of Raman and pyrometry dynamic temperature measurements of shocked cyclohexane. <i>Journal of Applied Physics</i> , 2021, 129, 075901.	2.5	6
2	Immobilization of Cyanines in DNA Produces Systematic Increases in Fluorescence Intensity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8963-8971.	4.6	12
3	A gain series method for accurate EMCCD calibration. <i>Scientific Reports</i> , 2021, 11, 18348.	3.3	1
4	A single nucleobase tunes nonradiative decay in a DNA-bound silver cluster. <i>Journal of Chemical Physics</i> , 2021, 155, 094305.	3.0	8
5	A framework for quantitative analysis of spectral data in two channels. <i>Applied Physics Letters</i> , 2020, 117, 024101.	3.3	2
6	Interfacial molecular interactions of cellobiohydrolase Cel7A and its variants on cellulose. <i>Biotechnology for Biofuels</i> , 2020, 13, 10.	6.2	21
7	Super-resolution photoluminescence lifetime and intensity mapping of interacting CdSe/CdS quantum dots. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	6
8	A Split DNA Scaffold for a Green Fluorescent Silver Cluster. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17588-17597.	3.1	23
9	Shockwave compression and dissociation of ammonia gas. <i>Journal of Chemical Physics</i> , 2019, 150, 024305.	3.0	2
10	Mapping Emission from Clusters of CdSe/ZnS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4046-4053.	3.1	18
11	Shock-driven reactions in acrylonitrile. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
12	A DNA-Encapsulated Silver Cluster and the Roles of Its Nucleobase Ligands. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28382-28392.	3.1	27
13	Precision Additive Nanofabrication: The Role of Liquid Ink Transport in the Direct Placement of Quantum Dot Emitters onto Sub-Micrometer Antennas by Dip-Pen Nanolithography ( <i>Small</i> 31/2018). <i>Small</i> , 2018, 14, 1870144.	10.0	0
14	Shockwave compression of Ar gas at several initial densities. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
15	Light Sheet Microscopy by Dual Line Scanning of Two Bessel Beams. <i>Biophysical Journal</i> , 2017, 112, 145a.	0.5	0
16	Light-sheet microscopy by confocal line scanning of dual-Bessel beams. <i>Journal of Biomedical Optics</i> , 2016, 21, 100502.	2.6	13
17	Advancing 3D Single Molecule Tracking by Time-Gating and Fast Simultaneous Spinning Disk Imaging for Contextual Information. <i>Biophysical Journal</i> , 2016, 110, 632a-633a.	0.5	0
18	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

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19	DNA-Directed Fluorescence Switching of Silver Clusters. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27829-27837.	3.1	30
20	Shape Evolution and Single Particle Luminescence of Organometal Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2015, 9, 2948-2959.	14.6	252
21	Confocal line scanning of a Bessel beam for fast 3D Imaging. <i>Optics Letters</i> , 2014, 39, 3682.	3.3	29
22	Fast, super resolution imaging via Bessel-beam stimulated emission depletion microscopy. <i>Optics Express</i> , 2014, 22, 12398.	3.4	44
23	Non-invasive timing of gas gun projectiles with light detection and ranging. <i>Journal of Physics: Conference Series</i> , 2014, 500, 142009.	0.4	0
24	Quantitative Tradeoffs between Spatial, Temporal, and Thermometric Resolution of Nonresonant Raman Thermometry for Dynamic Experiments. <i>Applied Spectroscopy</i> , 2014, 68, 1279-1288.	2.2	18
25	Scanning Probe Microscopy of Nanocomposite Membranes and Dynamic Organization. <i>Advanced Functional Materials</i> , 2013, 23, 2576-2591.	14.9	5
26	A Silver Clusterâ€™DNA Equilibrium. <i>Analytical Chemistry</i> , 2013, 85, 9868-9876.	6.5	52
27	Non-invasive timing of gas gun-launched projectiles using external surface-mounted optical fiber-Bragg grating strain gauges. <i>Review of Scientific Instruments</i> , 2013, 84, 035002.	1.3	7
28	Binding and Movement of Individual Cel7A Cellobiohydrolases on Crystalline Cellulose Surfaces Revealed by Single-molecule Fluorescence Imaging. <i>Journal of Biological Chemistry</i> , 2013, 288, 24164-24172.	3.4	40
29	Targeted <i>In Situ</i> Biosynthetic Transcriptional Activation in Native Surface-Level Human Articular Chondrocytes during Lesion Stabilization. <i>Cartilage</i> , 2012, 3, 141-155.	2.7	4
30	Design, synthesis, and a novel application of quorum-sensing agonists as potential drug-delivery vehicles. <i>Journal of Drug Targeting</i> , 2011, 19, 528-539.	4.4	11
31	Distinct Conformations of DNA-Stabilized Fluorescent Silver Nanoclusters Revealed by Electrophoretic Mobility and Diffusivity Measurements. <i>Langmuir</i> , 2011, 27, 8923-8933.	3.5	64
32	Correcting Some Errors. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2011, 27, 1171.	2.7	1
33	Native Chondrocyte Viability during Cartilage Lesion Progression. <i>Cartilage</i> , 2010, 1, 306-311.	2.7	5
34	Time-Resolved Three-Dimensional Molecular Tracking in Live Cells. <i>Nano Letters</i> , 2010, 10, 4732-4737.	9.1	108
35	Fluorescence Intermittency and Energy Transfer in Small Clusters of Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14831-14837.	3.1	35
36	Photophysics of the Red Chromophore of HcRed: Evidence for Cisâ€™Trans Isomerization and Protonation-State Changes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4678-4685.	2.6	15

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37	Histopomorphic Evaluation of Radiofrequency Mediated DÄ©bridement Chondroplasty. The Open Orthopaedics Journal, 2010, 4, 211-220.	0.2	10
38	Base-Directed Formation of Fluorescent Silver Clusters. Journal of Physical Chemistry C, 2008, 112, 18776-18782.	3.1	202
39	Three-dimensional tracking of individual quantum dots. Applied Physics Letters, 2007, 91, 224106.	3.3	109
40	Increasing the Resolution of Single Pair Fluorescence Resonance Energy Transfer Measurements in Solution via Molecular Cytometry. Analytical Chemistry, 2007, 79, 3509-3513.	6.5	10
41	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
42	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
43	Site-specific Dimensions Across a Highly Denatured Protein; A Single Molecule Study. Journal of Molecular Biology, 2005, 352, 672-682.	4.2	68
44	Exonuclease I Hydrolyzes DNA with a Distribution of Rates. Biophysical Journal, 2005, 88, 1403-1412.	0.5	20
45	Single-Molecule Spectroscopy for Nucleic Acid Analysis: A New Approach for Disease Detection and Genomic Analysis. Current Pharmaceutical Biotechnology, 2004, 5, 271-278.	1.6	5
46	Progress towards single-molecule DNA sequencing: a one color demonstration. Journal of Biotechnology, 2003, 102, 1-14.	3.8	52
47	A Simple Quenching Method for Fluorescence Background Reduction and Its Application to the Direct, Quantitative Detection of Specific mRNA. Analytical Chemistry, 2003, 75, 6236-6243.	6.5	27
48	Single Molecule Fluorescence Spectroscopy at Ambient Temperature. Chemical Reviews, 1999, 99, 2929-2956.	47.7	325
49	Efficient Detection of Single DNA Fragments in Flowing Sample Streams by Two-Photon Fluorescence Excitation. Analytical Chemistry, 1999, 71, 2108-2116.	6.5	43
50	Efficient detection of single molecules eluting off an optically trapped microsphere. Bioimaging, 1998, 6, 33-42.	1.3	20
51	Single-Molecule Identification in Flowing Sample Streams by Fluorescence Burst Size and Intraburst Fluorescence Decay Rate. Analytical Chemistry, 1998, 70, 1444-1451.	6.5	88
52	Fluorescence Detection in Hydrodynamically Focused Sample Streams: Reduction of Diffusional Defocusing by Association of Analyte with High-Molecular-Weight Species. Applied Spectroscopy, 1998, 52, 755-762.	2.2	13
53	Statistics of Single-Molecule Detection. Journal of Physical Chemistry B, 1997, 101, 3626-3632.	2.6	36
54	Fluorescence photon antibunching from single molecules on a surface. Chemical Physics Letters, 1997, 269, 365-370.	2.6	91

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55	A maximum likelihood estimator to distinguish single molecules by their fluorescence decays. <i>Chemical Physics Letters</i> , 1997, 270, 464-470.	2.6	77
56	The statistics of single molecule detection: An overview. <i>Bioimaging</i> , 1997, 5, 88-98.	1.3	37
57	New flow cytometric technologies for the 21st century. <i>Human Cell</i> , 1997, 10, 3-10.	2.7	5
58	Reduction of Luminescent Background in Ultrasensitive Fluorescence Detection by Photobleaching. <i>Analytical Chemistry</i> , 1996, 68, 2270-2276.	6.5	49
59	Single-Molecule Detection in Liquids by Laser-Induced Fluorescence. <i>Accounts of Chemical Research</i> , 1996, 29, 607-613.	15.6	145
60	Characterization of DNA Size Determination of Small Fragments by Flow Cytometry. <i>Analytical Chemistry</i> , 1995, 67, 1755-1761.	6.5	59
61	Single molecule detection and photochemistry on a surface using near-field optical excitation. <i>Physical Review Letters</i> , 1994, 72, 160-163.	7.8	225
62	Alterations of Single Molecule Fluorescence Lifetimes in Near-Field Optical Microscopy. <i>Science</i> , 1994, 265, 364-367.	12.6	338
63	Analysis of fluorescence lifetime data for single Rhodamine molecules in flowing sample streams. <i>Analytical Chemistry</i> , 1994, 66, 64-72.	6.5	81
64	Internal energy distributions of laser ablated species from YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Journal of Applied Physics</i> , 1993, 73, 1957-1964.	2.5	47
65	Time-resolved temperature measurements during pulsed laser irradiation using thin film metal thermometers. <i>Review of Scientific Instruments</i> , 1993, 64, 2615-2623.	1.3	16
66	Detection and lifetime measurement of single molecules in flowing sample streams by laser-induced fluorescence. <i>Applied Physics Letters</i> , 1993, 62, 2030-2032.	3.3	124
67	Rapid sizing of individual fluorescently stained DNA fragments by flow cytometry. <i>Nucleic Acids Research</i> , 1993, 21, 803-806.	14.5	132
68	Temperature measurements of polyimide during KrF excimer laser ablation. <i>Journal of Applied Physics</i> , 1992, 72, 4344-4350.	2.5	61
69	Observation of an electronic state of C <sub>2</sub> H near 9 eV by resonance ionization spectroscopy. <i>Journal of Chemical Physics</i> , 1991, 94, 6978-6988.	3.0	19
70	Ultraviolet photoablation of p-tetrafluoroethylene: Rotational energy distributions of the CF radical and time-resolved mass spectra. <i>Journal of Applied Physics</i> , 1991, 69, 2584-2588.	2.5	29
71	H/D isotope effect in the predissociation of C <sub>2</sub> HD. <i>Journal of Chemical Physics</i> , 1990, 93, 3714-3715.	3.0	20
72	Observation of a new electronic state of C <sub>2</sub> by resonance ionization spectroscopy. <i>Journal of Chemical Physics</i> , 1988, 88, 4548-4549.	3.0	18

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73	Resonance ionization spectroscopy of a new $\lambda$ band system of C <sub>2</sub> . Journal of Chemical Physics, 1988, 89, 6600-6611.	3.0	23
74	Two-photon resonance REMPI detection of the formyl radical. Journal of Chemical Physics, 1986, 84, 5334-5343.	3.0	27