

# shimon weiss

## List of Publications by Year in descending order

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177  
papers

38,118  
citations

12330

69  
h-index

5394

164  
g-index

197  
all docs

197  
docs citations

197  
times ranked

29305  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane potential sensing: Material design and method development for single particle optical electrophysiology. <i>Journal of Chemical Physics</i> , 2022, 156, 084201.	3.0	2
2	Multi-parameter photon-by-photon hidden Markov modeling. <i>Nature Communications</i> , 2022, 13, 1000.	12.8	18
3	PySOFI: an open source Python package for SOFI. <i>Biophysical Reports</i> , 2022, 2, 100052.	1.2	1
4	In vitro and in vivo NIR fluorescence lifetime imaging with a time-gated SPAD camera. <i>Optica</i> , 2022, 9, 532.	9.3	15
5	Statistical parametrization of cell cytoskeleton reveals lung cancer cytoskeletal phenotype with partial EMT signature. <i>Communications Biology</i> , 2022, 5, 407.	4.4	8
6	Super-resolution Imaging of Plasmonic Near-Fields: Overcoming Emitter Mislocalizations. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4520-4529.	4.6	2
7	Electrically controlling and optically observing the membrane potential of supported lipid bilayers. <i>Biophysical Journal</i> , 2022, 121, 2624-2637.	0.5	3
8	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	6.0	152
9	Weak Electromagnetic Fields Accelerate Fusion of Myoblasts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4407.	4.1	0
10	Receptor compaction and GTPase rearrangement drive SRP-mediated cotranslational protein translocation into the ER. <i>Science Advances</i> , 2021, 7, .	10.3	14
11	Subunit cooperation in the Get1/2 receptor promotes tail-anchored membrane protein insertion. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	2
12	Optical probing of local membrane potential with fluorescent polystyrene beads. <i>Biophysical Reports</i> , 2021, 1, 100030.	1.2	2
13	Single-Photon, Time-Gated, Phasor-Based Fluorescence Lifetime Imaging through Highly Scattering Medium. <i>ACS Photonics</i> , 2020, 7, 68-79.	6.6	14
14	Wide-field time-gated SPAD imager for phasor-based FLIM applications. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 024002.	2.3	50
15	Development of Lipid-Coated Semiconductor Nanosensors for Recording of Membrane Potential in Neurons. <i>ACS Photonics</i> , 2020, 7, 1141-1152.	6.6	11
16	Cusp-artifacts in high order superresolution optical fluctuation imaging. <i>Biomedical Optics Express</i> , 2020, 11, 554.	2.9	15
17	Improved Surface Functionalization and Characterization of Membrane-Targeted Semiconductor Voltage Nanosensors. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3906-3913.	4.6	12
18	Interfacing the Cell with "Biomimetic Membrane Proteins". <i>Small</i> , 2019, 15, e1903006.	10.0	7

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19	The effect of macromolecular crowding on single-round transcription by <i>Escherichia coli</i> RNA polymerase. <i>Nucleic Acids Research</i> , 2019, 47, 1440-1450.	14.5	26
20	A 512 Å— 512 SPAD Image Sensor With Integrated Gating for Widefield FLIM. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-12.	2.9	109
21	Ratiometric widefield imaging with spectrally balanced detection. <i>Biomedical Optics Express</i> , 2019, 10, 5385.	2.9	0
22	Toward dynamic structural biology: Two decades of single-molecule Förster resonance energy transfer. <i>Science</i> , 2018, 359, .	12.6	414
23	48-spot single-molecule FRET setup with periodic acceptor excitation. <i>Journal of Chemical Physics</i> , 2018, 148, 123304.	3.0	12
24	Membrane insertion of $\alpha$ and membrane potential sensing by $\beta$ semiconductor voltage nanosensors: Feasibility demonstration. <i>Science Advances</i> , 2018, 4, e1601453.	10.3	33
25	Characterizing highly dynamic conformational states: The transcription bubble in RNAP-promoter open complex as an example. <i>Journal of Chemical Physics</i> , 2018, 148, 123315.	3.0	29
26	Monte Carlo Diffusion-Enhanced Photon Inference: Distance Distributions and Conformational Dynamics in Single-Molecule FRET. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11598-11615.	2.6	17
27	Characterizing the Quantum-Confined Stark Effect in Semiconductor Quantum Dots and Nanorods for Single-Molecule Electrophysiology. <i>ACS Photonics</i> , 2018, 5, 4788-4800.	6.6	30
28	Sequential activation of human signal recognition particle by the ribosome and signal sequence drives efficient protein targeting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5487-E5496.	7.1	21
29	Rapid Voltage Sensing with Single Nanorods via the Quantum Confined Stark Effect. <i>ACS Photonics</i> , 2018, 5, 2860-2867.	6.6	22
30	Design Rules for Membrane-Embedded Voltage-Sensing Nanoparticles. <i>Biophysical Journal</i> , 2017, 112, 703-713.	0.5	28
31	Studying transcription initiation by RNA polymerase with diffusion-based single-molecule fluorescence. <i>Protein Science</i> , 2017, 26, 1278-1290.	7.6	13
32	Different types of pausing modes during transcription initiation. <i>Transcription</i> , 2017, 8, 242-253.	3.1	16
33	Multispot single-molecule FRET: High-throughput analysis of freely diffusing molecules. <i>PLoS ONE</i> , 2017, 12, e0175766.	2.5	27
34	A Quantitative Theoretical Framework For Protein-Induced Fluorescence Enhancement—Förster-Type Resonance Energy Transfer (PIFE-FRET). <i>Journal of Physical Chemistry B</i> , 2016, 120, 6401-6410.	2.6	60
35	Photon-HDF5: An Open File Format for Timestamp-Based Single-Molecule Fluorescence Experiments. <i>Biophysical Journal</i> , 2016, 110, 26-33.	0.5	45
36	Characterization of Porous Materials by Fluorescence Correlation Spectroscopy Super-resolution Optical Fluctuation Imaging. <i>ACS Nano</i> , 2015, 9, 9158-9166.	14.6	80

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37	Cobalt(III) Protoporphyrin Activates the DGCR8 Protein and Can Compensate microRNA Processing Deficiency. <i>Chemistry and Biology</i> , 2015, 22, 793-802.	6.0	11
38	Processing of microRNA primary transcripts requires heme in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1861-1866.	7.1	69
39	Toward Single-Molecule Optical Mapping of the Epigenome. <i>ACS Nano</i> , 2014, 8, 14-26.	14.6	42
40	The Transcription Bubble of the RNA Polymerase Promoter Open Complex Exhibits Conformational Heterogeneity and Millisecond-Scale Dynamics: Implications for Transcription Start-Site Selection. <i>Journal of Molecular Biology</i> , 2013, 425, 875-885.	4.2	77
41	Labeling Cytosolic Targets in Live Cells with Blinking Probes. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2138-2146.	4.6	24
42	Single molecule quantum-confined Stark effect measurements of semiconductor nanoparticles at room temperature. , 2013, , .		1
43	A Bis(phosphine)-Modified Peptide Ligand for Stable and Luminescent Quantum Dots in Aqueous Media. <i>Synthesis</i> , 2013, 45, 2426-2430.	2.3	5
44	Development of new photon-counting detectors for single-molecule fluorescence microscopy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120035.	4.0	100
45	Advances in superresolution optical fluctuation imaging (SOFI). <i>Quarterly Reviews of Biophysics</i> , 2013, 46, 210-221.	5.7	49
46	Phasor imaging with a widefield photon-counting detector. <i>Journal of Biomedical Optics</i> , 2012, 17, 016008.	2.6	38
47	Four-Color Alternating-Laser Excitation Single-Molecule Fluorescence Spectroscopy for Next-Generation Biodetection Assays. <i>Clinical Chemistry</i> , 2012, 58, 707-716.	3.2	26
48	Single Molecule Quantum-Confined Stark Effect Measurements of Semiconductor Nanoparticles at Room Temperature. <i>ACS Nano</i> , 2012, 6, 10013-10023.	14.6	111
49	Spatiotemporal manipulation of retinoic acid activity in zebrafish hindbrain development via photo-isomerization. <i>Development (Cambridge)</i> , 2012, 139, 3355-3362.	2.5	12
50	Nanoblade Delivery and Incorporation of Quantum Dot Conjugates into Tubulin Networks in Live Cells. <i>Nano Letters</i> , 2012, 12, 5669-5672.	9.1	39
51	Stable, Compact, Bright Biofunctional Quantum Dots with Improved Peptide Coating. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11370-11378.	2.6	30
52	Slow Unfolded-State Structuring in Acyl-CoA Binding Protein Folding Revealed by Simulation and Experiment. <i>Journal of the American Chemical Society</i> , 2012, 134, 12565-12577.	13.7	132
53	Opening and Closing of the Bacterial RNA Polymerase Clamp. <i>Science</i> , 2012, 337, 591-595.	12.6	210
54	Enzymatically Incorporated Genomic Tags for Optical Mapping of DNA-Binding Proteins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3578-3581.	13.8	40

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55	High-throughput single-molecule optofluidic analysis. <i>Nature Methods</i> , 2011, 8, 242-245.	19.0	95
56	Aromatic Aldehyde and Hydrazine Activated Peptide Coated Quantum Dots for Easy Bioconjugation and Live Cell Imaging. <i>Bioconjugate Chemistry</i> , 2011, 22, 1006-1011.	3.6	36
57	Ultra high-throughput single molecule spectroscopy with a 1024 pixel SPAD. <i>Proceedings of SPIE</i> , 2011, 7905, .	0.8	27
58	Superresolution Optical Fluctuation Imaging with Organic Dyes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9441-9443.	13.8	88
59	High-throughput FCS using an LCOS spatial light modulator and an 8 Å <sup>-1</sup> SPAD array. <i>Biomedical Optics Express</i> , 2010, 1, 1408.	2.9	74
60	Achieving increased resolution and more pixels with Superresolution Optical Fluctuation Imaging (SOFI). <i>Optics Express</i> , 2010, 18, 18875.	3.4	187
61	Tracking Single Proteins in Live Cells Using Single-Chain Antibody Fragment-Fluorescent Quantum Dot Affinity Pair. <i>Methods in Enzymology</i> , 2010, 475, 61-79.	1.0	4
62	Phasor-based single-molecule fluorescence lifetime imaging using a wide-field photon-counting detector. , 2009, 7185, .		15
63	Adsorbate-induced absorption redshift in an organic-inorganic cluster conjugate: Electronic effects of surfactants and organic adsorbates on the lowest excited states of a methanethiol-CdSe conjugate. <i>Journal of Chemical Physics</i> , 2009, 131, 174705.	3.0	24
64	Fast, background-free, 3D super-resolution optical fluctuation imaging (SOFI). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22287-22292.	7.1	942
65	Quantum Dots for In Vivo Small-Animal Imaging. <i>Journal of Nuclear Medicine</i> , 2009, 50, 493-496.	5.0	167
66	Combining atomic force and fluorescence microscopy for analysis of quantum dot labeled protein-DNA complexes. <i>Journal of Molecular Recognition</i> , 2009, 22, 397-402.	2.1	23
67	Particle Size, Surface Coating, and PEGylation Influence the Biodistribution of Quantum Dots in Living Mice. <i>Small</i> , 2009, 5, 126-134.	10.0	418
68	Dynamic Partitioning of a Glycosylated Phosphatidylinositol-Anchored Protein in Glycosphingolipid-Rich Microdomains Imaged by Single-Quantum Dot Tracking. <i>Traffic</i> , 2009, 10, 691-712.	2.7	153
69	Lighting Up Individual DNA Binding Proteins with Quantum Dots. <i>Nano Letters</i> , 2009, 9, 1598-1603.	9.1	50
70	Suppression of Quantum Dot Blinking in DTT-Doped Polymer Films. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11541-11545.	3.1	35
71	Nanometer Distance Measurements between Multicolor Quantum Dots. <i>Nano Letters</i> , 2009, 9, 2199-2205.	9.1	23
72	In vivo assembly and single-molecule characterization of the transcription machinery from <i>Shewanella oneidensis</i> MR-1. <i>Protein Expression and Purification</i> , 2009, 65, 66-76.	1.3	5

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73	Cys-diabody Quantum Dot Conjugates (ImmunoQdots) for Cancer Marker Detection. <i>Bioconjugate Chemistry</i> , 2009, 20, 1474-1481.	3.6	52
74	High Speed Multichannel Charge Sensitive Data Acquisition System With Self-Triggered Event Timing. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 1148-1152.	2.0	13
75	Single-Quantum Dot Imaging with a Photon Counting Camera. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 543-557.	1.6	36
76	Tracking bio-molecules in live cells using quantum dots. <i>Journal of Biophotonics</i> , 2008, 1, 287-298.	2.3	112
77	Efficient Site-Specific Labeling of Proteins via Cysteines. <i>Bioconjugate Chemistry</i> , 2008, 19, 786-791.	3.6	219
78	Nonequilibrium Single Molecule Protein Folding in a Coaxial Mixer. <i>Biophysical Journal</i> , 2008, 95, 352-365.	0.5	46
79	Measuring diffusion with polarization-modulation dual-focus fluorescence correlation spectroscopy. <i>Optics Express</i> , 2008, 16, 14609.	3.4	20
80	Hybrid photodetector for single-molecule spectroscopy and microscopy. <i>Proceedings of SPIE</i> , 2008, 6862, .	0.8	38
81	Single molecule protein folding kinetics in a co-axial microfluidic mixer. , 2008, , .		0
82	Ruggedness in the folding landscape of protein L. <i>HFSP Journal</i> , 2008, 2, 388-395.	2.5	25
83	High Affinity scFv <sup>+</sup> Hapten Pair as a Tool for Quantum Dot Labeling and Tracking of Single Proteins in Live Cells. <i>Nano Letters</i> , 2008, 8, 4618-4623.	9.1	34
84	Single-molecule FRET reveals sugar-induced conformational dynamics in LacY. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12640-12645.	7.1	144
85	Detectors for single-molecule fluorescence imaging and spectroscopy. <i>Journal of Modern Optics</i> , 2007, 54, 239-281.	1.3	110
86	microPET-Based Biodistribution of Quantum Dots in Living Mice. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1511-1518.	5.0	182
87	Singlet Oxygen Production by Peptide-Coated Quantum Dot <sup>+</sup> Photosensitizer Conjugates. <i>Journal of the American Chemical Society</i> , 2007, 129, 6865-6871.	13.7	281
88	Photobleaching Pathways in Single-Molecule FRET Experiments. <i>Journal of the American Chemical Society</i> , 2007, 129, 4643-4654.	13.7	90
89	Three-Color Alternating-Laser Excitation of Single Molecules: Monitoring Multiple Interactions and Distances. <i>Biophysical Journal</i> , 2007, 92, 303-312.	0.5	179
90	Solubilization of Quantum Dots with a Recombinant Peptide from <i>Escherichia coli</i> . <i>Small</i> , 2007, 3, 793-798.	10.0	38

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91	Periodic acceptor excitation spectroscopy of single molecules. <i>European Biophysics Journal</i> , 2007, 36, 669-674.	2.2	21
92	Single-Molecule Fluorescence Studies of Protein Folding and Conformational Dynamics. <i>Chemical Reviews</i> , 2006, 106, 1785-1813.	47.7	488
93	Notice of Violation of IEEE Publication Principles: Peptide coated quantum dots for biological applications. <i>IEEE Transactions on Nanobioscience</i> , 2006, 5, 231-238.	3.3	16
94	Initial Transcription by RNA Polymerase Proceeds Through a DNA-Scrunching Mechanism. <i>Science</i> , 2006, 314, 1144-1147.	12.6	400
95	Rotational and Translational Diffusion of Peptide-Coated CdSe/CdS/ZnS Nanorods Studied by Fluorescence Correlation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 1639-1647.	13.7	117
96	Direct Observation of Abortive Initiation and Promoter Escape within Single Immobilized Transcription Complexes. <i>Biophysical Journal</i> , 2006, 90, 1419-1431.	0.5	136
97	Shot-Noise Limited Single-Molecule FRET Histograms: A Comparison between Theory and Experiments. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22103-22124.	2.6	301
98	A space- and time-resolved single photon counting detector for fluorescence microscopy and spectroscopy. , 2006, 6092, .		15
99	Fluorescence lifetime microscopy with a time- and space-resolved single-photon counting detector. , 2006, 6372, .		9
100	Development of an ultrafast single photon counting imager for single molecule imaging. , 2006, 6092, 168.		5
101	Advances in fluorescence imaging with quantum dot bio-probes. <i>Biomaterials</i> , 2006, 27, 1679-1687.	11.4	411
102	Site-specific labeling of proteins for single-molecule FRET by combining chemical and enzymatic modification. <i>Protein Science</i> , 2006, 15, 640-646.	7.6	54
103	Single-Step Multicolor Fluorescence In Situ Hybridization Using Semiconductor Quantum Dot-DNA Conjugates. <i>Cell Biochemistry and Biophysics</i> , 2006, 45, 59-70.	1.8	54
104	Photon-counting H33D detector for biological fluorescence imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 567, 133-136.	1.6	39
105	Near-infrared peptide-coated quantum dots for small animal imaging. , 2006, 6096, 29.		1
106	Using photon statistics to boost microscopy resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4797-4798.	7.1	44
107	Enhancing the photoluminescence of peptide-coated nanocrystals. , 2005, , .		0
108	Peptide-coated semiconductor nanocrystals for biomedical applications. , 2005, 5704, .		5

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109	Wavefunction engineering: From quantum wells to near-infrared type-II colloidal quantum dots synthesized by layer-by-layer colloidal epitaxy. <i>Chemical Physics</i> , 2005, 318, 82-90.	1.9	38
110	Protein-protein interactions as a tool for site-specific labeling of proteins. <i>Protein Science</i> , 2005, 14, 2059-2068.	7.6	40
111	Quantum Dots for Live Cells, in Vivo Imaging, and Diagnostics. <i>Science</i> , 2005, 307, 538-544.	12.6	7,371
112	Probing structural heterogeneities and fluctuations of nucleic acids and denatured proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17348-17353.	7.1	219
113	Enhancing the Photoluminescence of Peptide-Coated Nanocrystals with Shell Composition and UV Irradiation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1669-1674.	2.6	57
114	Alternating-Laser Excitation of Single Molecules. <i>Accounts of Chemical Research</i> , 2005, 38, 523-533.	15.6	335
115	Retention of Transcription Initiation Factor $\lambda$ 70 in Transcription Elongation: Single-Molecule Analysis. <i>Molecular Cell</i> , 2005, 20, 347-356.	9.7	132
116	Accurate FRET Measurements within Single Diffusing Biomolecules Using Alternating-Laser Excitation. <i>Biophysical Journal</i> , 2005, 88, 2939-2953.	0.5	440
117	Comparison of Photophysical and Colloidal Properties of Biocompatible Semiconductor Nanocrystals Using Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2005, 77, 2235-2242.	6.5	115
118	Fluorescence-aided molecule sorting: Analysis of structure and interactions by alternating-laser excitation of single molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 8936-8941.	7.1	597
119	Hybrid Approach to the Synthesis of Highly Luminescent CdTe/ZnS and CdHgTe/ZnS Nanocrystals. <i>Journal of the American Chemical Society</i> , 2004, 126, 1926-1927.	13.7	154
120	Photon Arrival-Time Interval Distribution (PAID): A Novel Tool for Analyzing Molecular Interactions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3051-3067.	2.6	65
121	Femtomole Mixer for Microsecond Kinetic Studies of Protein Folding. <i>Analytical Chemistry</i> , 2004, 76, 7169-7178.	6.5	138
122	Enhanced Absorption Induced by a Metallic Nanoshell. <i>Nano Letters</i> , 2004, 4, 85-88.	9.1	78
123	Bioactivation and Cell Targeting of Semiconductor CdSe/ZnS Nanocrystals with Phytochelatin-Related Peptides. <i>Journal of the American Chemical Society</i> , 2004, 126, 6115-6123.	13.7	564
124	The Power and Prospects of Fluorescence Microscopies and Spectroscopies. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2003, 32, 161-182.	18.3	198
125	A Rugged Energy Landscape Mechanism for Trapping of Transmembrane Receptors during Endocytosis. <i>Biochemistry</i> , 2003, 42, 2916-2925.	2.5	24
126	ANALYTICAL CHEMISTRY: How to Detect Weak Pairs. <i>Science</i> , 2003, 299, 667-668.	12.6	54



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127	Fluorescent probes and bioconjugation chemistries for single-molecule fluorescence analysis of biomolecules. <i>Journal of Chemical Physics</i> , 2002, 117, 10953-10964.	3.0	147
128	Single-molecule spectroscopy and microscopy. <i>Comptes Rendus Physique</i> , 2002, 3, 619-644.	0.9	61
129	Synthesis and Properties of Biocompatible Water-Soluble Silica-Coated CdSe/ZnS Semiconductor Quantum Dots. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8861-8871.	2.6	1,221
130	RATIOMETRICSINGLE-MOLECULESTUDIES OFFREELYDIFFUSINGBIOMOLECULES. <i>Annual Review of Physical Chemistry</i> , 2001, 52, 233-253.	10.8	195
131	Time-gated biological imaging by use of colloidal quantum dots. <i>Optics Letters</i> , 2001, 26, 825.	3.3	332
132	Ultrahigh-Resolution Colocalization of Spectrally Separable Point-like Fluorescent Probes. <i>Methods</i> , 2001, 25, 87-102.	3.8	63
133	Properties of Fluorescent Semiconductor Nanocrystals and their Application to Biological Labeling. <i>Single Molecules</i> , 2001, 2, 261-276.	0.9	365
134	Measuring conformational dynamics of biomolecules by single molecule fluorescence spectroscopy. , 2000, 7, 724-729.		641
135	Shattering the diffraction limit of light: A revolution in fluorescence microscopy?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 8747-8749.	7.1	45
136	Ultrahigh-resolution multicolor colocalization of single fluorescent probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 9461-9466.	7.1	304
137	Single-molecule protein folding: Diffusion fluorescence resonance energy transfer studies of the denaturation of chymotrypsin inhibitor 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5179-5184.	7.1	440
138	Single-molecule fluorescence spectroscopy of enzyme conformational dynamics and cleavage mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 893-898.	7.1	511
139	Ratiometric measurement and identification of single diffusing molecules. <i>Chemical Physics</i> , 1999, 247, 85-106.	1.9	155
140	Temporal fluctuations of fluorescence resonance energy transfer between two dyes conjugated to a single protein. <i>Chemical Physics</i> , 1999, 247, 107-118.	1.9	97
141	Polarization Spectroscopy of Single Fluorescent Molecules. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6839-6850.	2.6	251
142	Evidence for a thermal contribution to emission intermittency in single CdSe/CdS core/shell nanocrystals. <i>Journal of Chemical Physics</i> , 1999, 110, 1195-1201.	3.0	214
143	Single-pair fluorescence resonance energy transfer on freely diffusing molecules: Observation of Forster distance dependence and subpopulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3670-3675.	7.1	525
144	Fluorescence Spectroscopy of Single Biomolecules. <i>Science</i> , 1999, 283, 1676-1683.	12.6	1,926

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145	Near-field fluorescence microscopy of cells. Ultramicroscopy, 1998, 71, 303-309.	1.9	49
146	Semiconductor Nanocrystals as Fluorescent Biological Labels. Science, 1998, 281, 2013-2016.	12.6	7,948
147	Hindered Rotational Diffusion and Rotational Jumps of Single Molecules. Physical Review Letters, 1998, 80, 2093-2096.	7.8	179
148	Single molecule spectroscopy with automated positioning. Applied Physics Letters, 1997, 70, 782-784.	3.3	32
149	Membrane specific mapping and colocalization of malarial and host skeletal proteins in the Plasmodium falciparum infected erythrocyte by dual-color near-field scanning optical microscopy. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 520-525.	7.1	133
150	Quantum jumps of single molecules at room temperature. Chemical Physics Letters, 1997, 271, 1-5.	2.6	160
151	Dual-molecule spectroscopy: molecular rulers for the study of biological macromolecules. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 1115-1128.	2.9	39
152	Probing the interaction between two single molecules: fluorescence resonance energy transfer between a single donor and a single acceptor.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 6264-6268.	7.1	1,139
153	Advances in ultrafast scanning tunneling microscopy. Applied Physics Letters, 1996, 69, 1321-1323.	3.3	49
154	Single Molecule Dynamics Studied by Polarization Modulation. Physical Review Letters, 1996, 77, 3979-3982.	7.8	333
155	The ultrafast response of a scanning tunneling microscope. Physica Status Solidi (B): Basic Research, 1995, 188, 343-359.	1.5	47
156	Design consideration in an ultrafast scanning tunneling microscope. Review of Scientific Instruments, 1995, 66, 4130-4134.	1.3	14
157	Period doubling and quasi-periodicity in additive-pulse mode-locked lasers. Optics Letters, 1995, 20, 1794.	3.3	52
158	Ultrafast dynamics of the optical mode of a 1.5 $\mu$ m multiple quantum well optical amplifier. Applied Physics Letters, 1994, 64, 2861-2863.	3.3	5
159	Ultrafast phase dynamics of coherent emission from excitons in GaAs quantum wells. Physical Review B, 1994, 50, 8439-8453.	3.2	78
160	Carrier transport effects and dynamics in multiple quantum well optical amplifiers. Optical and Quantum Electronics, 1994, 26, S731-S756.	3.3	7
161	Instantaneous frequency dynamics of coherent wave mixing in semiconductor quantum wells. Physical Review Letters, 1993, 70, 3307-3310.	7.8	86
162	Ultrafast scanning probe microscopy. Applied Physics Letters, 1993, 63, 2567-2569.	3.3	137

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164	Femtosecond time-resolved free induction decay of room temperature excitons in GaAs quantum wells. Applied Physics Letters, 1992, 60, 2666-2668.	3.3	30
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