shimon weiss

List of Publications by Year in descending order

177 papers	38,118 citations	12322 69 h-index	5532 163 g-index
197 all docs	197 docs citations	197 times ranked	29305 citing authors

#	Article	IF	Citations
1	Semiconductor Nanocrystals as Fluorescent Biological Labels. , 1998, 281, 2013-2016.		7,948
2	Quantum Dots for Live Cells, in Vivo Imaging, and Diagnostics. Science, 2005, 307, 538-544.	6.0	7,371
3	Fluorescence Spectroscopy of Single Biomolecules. Science, 1999, 283, 1676-1683.	6.0	1,926
4	Synthesis and Properties of Biocompatible Water-Soluble Silica-Coated CdSe/ZnS Semiconductor Quantum Dots. Journal of Physical Chemistry B, 2001, 105, 8861-8871.	1.2	1,221
5	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.	3.3	1,139
6	Fast, background-free, 3D super-resolution optical fluctuation imaging (SOFI). Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22287-22292.	3.3	942
7	Measuring conformational dynamics of biomolecules by single molecule fluorescence spectroscopy. , 2000, 7, 724-729.		641
8	Fluorescence-aided molecule sorting: Analysis of structure and interactions by alternating-laser excitation of single molecules. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8936-8941.	3.3	597
9	Bioactivation and Cell Targeting of Semiconductor CdSe/ZnS Nanocrystals with Phytochelatin-Related Peptides. Journal of the American Chemical Society, 2004, 126, 6115-6123.	6.6	564
10	Single-pair fluorescence resonance energy transfer on freely diffusing molecules: Observation of Forster distance dependence and subpopulations. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 3670-3675.	3.3	525
11	Single-molecule fluorescence spectroscopy of enzyme conformational dynamics and cleavage mechanism. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 893-898.	3.3	511
12	Single-Molecule Fluorescence Studies of Protein Folding and Conformational Dynamics. Chemical Reviews, 2006, 106, 1785-1813.	23.0	488
13	Single-molecule protein folding: Diffusion fluorescence resonance energy transfer studies of the denaturation of chymotrypsin inhibitor 2. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 5179-5184.	3.3	440
14	Accurate FRET Measurements within Single Diffusing Biomolecules Using Alternating-Laser Excitation. Biophysical Journal, 2005, 88, 2939-2953.	0.2	440
15	Particle Size, Surface Coating, and PEGylation Influence the Biodistribution of Quantum Dots in Living Mice. Small, 2009, 5, 126-134.	5.2	418
16	Toward dynamic structural biology: Two decades of single-molecule FÃ¶rster resonance energy transfer. Science, 2018, 359, .	6.0	414
17	Advances in fluorescence imaging with quantum dot bio-probes. Biomaterials, 2006, 27, 1679-1687.	5.7	411
18	Initial Transcription by RNA Polymerase Proceeds Through a DNA-Scrunching Mechanism. Science, 2006, 314, 1144-1147.	6.0	400

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19	Properties of Fluorescent Semiconductor Nanocrystals and their Application to Biological Labeling. Single Molecules, 2001, 2, 261-276.	1.6	365
20	Alternating-Laser Excitation of Single Molecules. Accounts of Chemical Research, 2005, 38, 523-533.	7.6	335
21	Single Molecule Dynamics Studied by Polarization Modulation. Physical Review Letters, 1996, 77, 3979-3982.	2.9	333
22	Time-gated biological imaging by use of colloidal quantum dots. Optics Letters, 2001, 26, 825.	1.7	332
23	Ultrahigh-resolution multicolor colocalization of single fluorescent probes. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9461-9466.	3.3	304
24	Shot-Noise Limited Single-Molecule FRET Histograms:Â Comparison between Theory and Experimentsâ€. Journal of Physical Chemistry B, 2006, 110, 22103-22124.	1.2	301
25	Singlet Oxygen Production by Peptide-Coated Quantum Dotâ^'Photosensitizer Conjugates. Journal of the American Chemical Society, 2007, 129, 6865-6871.	6.6	281
26	Double phase-conjugate mirror: analysis, demonstration, and applications. Optics Letters, 1987, 12, 114.	1.7	272
27	Polarization Spectroscopy of Single Fluorescent Molecules. Journal of Physical Chemistry B, 1999, 103, 6839-6850.	1.2	251
28	Probing structural heterogeneities and fluctuations of nucleic acids and denatured proteins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17348-17353.	3.3	219
29	Efficient Site-Specific Labeling of Proteins via Cysteines. Bioconjugate Chemistry, 2008, 19, 786-791.	1.8	219
30	Evidence for a thermal contribution to emission intermittency in single CdSe/CdS core/shell nanocrystals. Journal of Chemical Physics, 1999, 110, 1195-1201.	1.2	214
31	Opening and Closing of the Bacterial RNA Polymerase Clamp. Science, 2012, 337, 591-595.	6.0	210
32	The Power and Prospects of Fluorescence Microscopies and Spectroscopies. Annual Review of Biophysics and Biomolecular Structure, 2003, 32, 161-182.	18.3	198
33	RATIOMETRICSINGLE-MOLECULESTUDIES OFFREELYDIFFUSINGBIOMOLECULES. Annual Review of Physical Chemistry, 2001, 52, 233-253.	4.8	195
34	Achieving increased resolution and more pixels with Superresolution Optical Fluctuation Imaging (SOFI). Optics Express, 2010, 18, 18875.	1.7	187
35	microPET-Based Biodistribution of Quantum Dots in Living Mice. Journal of Nuclear Medicine, 2007, 48, 1511-1518.	2.8	182
36	Hindered Rotational Diffusion and Rotational Jumps of Single Molecules. Physical Review Letters, 1998, 80, 2093-2096.	2.9	179

#	Article	IF	Citations
37	Three-Color Alternating-Laser Excitation of Single Molecules: Monitoring Multiple Interactions and Distances. Biophysical Journal, 2007, 92, 303-312.	0.2	179
38	Collective effects in excitonic free induction decay: Do semiconductors and atoms emit coherent light in different ways?. Physical Review Letters, 1992, 69, 2685-2688.	2.9	170
39	Quantum Dots for In Vivo Small-Animal Imaging. Journal of Nuclear Medicine, 2009, 50, 493-496.	2.8	167
40	Quantum jumps of single molecules at room temperature. Chemical Physics Letters, 1997, 271, 1-5.	1.2	160
41	Ratiometric measurement and identification of single diffusing molecules. Chemical Physics, 1999, 247, 85-106.	0.9	155
42	Hybrid Approach to the Synthesis of Highly Luminescent CdTe/ZnS and CdHgTe/ZnS Nanocrystals. Journal of the American Chemical Society, 2004, 126, 1926-1927.	6.6	154
43	Dynamic Partitioning of a Glycosylâ€Phosphatidylinositolâ€Anchored Protein in Glycosphingolipidâ€Rich Microdomains Imaged by Singleâ€Quantum Dot Tracking. Traffic, 2009, 10, 691-712.	1.3	153
44	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. ELife, 2021, 10, .	2.8	152
45	Fluorescent probes and bioconjugation chemistries for single-molecule fluorescence analysis of biomolecules. Journal of Chemical Physics, 2002, 117, 10953-10964.	1.2	147
46	Single-molecule FRET reveals sugar-induced conformational dynamics in LacY. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12640-12645.	3.3	144
47	Photorefractive oscillators. IEEE Journal of Quantum Electronics, 1989, 25, 550-569.	1.0	143
48	Femtomole Mixer for Microsecond Kinetic Studies of Protein Folding. Analytical Chemistry, 2004, 76, 7169-7178.	3.2	138
49	Ultrafast scanning probe microscopy. Applied Physics Letters, 1993, 63, 2567-2569.	1.5	137
50	Direct Observation of Abortive Initiation and Promoter Escape within Single Immobilized Transcription Complexes. Biophysical Journal, 2006, 90, 1419-1431.	0.2	136
51	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.	3.3	133
52	Retention of Transcription Initiation Factor Ïf70 in Transcription Elongation: Single-Molecule Analysis. Molecular Cell, 2005, 20, 347-356.	4.5	132
53	Slow Unfolded-State Structuring in Acyl-CoA Binding Protein Folding Revealed by Simulation and Experiment. Journal of the American Chemical Society, 2012, 134, 12565-12577.	6.6	132
54	Rotational and Translational Diffusion of Peptide-Coated CdSe/CdS/ZnS Nanorods Studied by Fluorescence Correlation Spectroscopy. Journal of the American Chemical Society, 2006, 128, 1639-1647.	6.6	117

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55	Beam coupling and locking of lasers using photorefractive four-wave mixing. Optics Letters, 1986, 11, 528.	1.7	115
56	Comparison of Photophysical and Colloidal Properties of Biocompatible Semiconductor Nanocrystals Using Fluorescence Correlation Spectroscopy. Analytical Chemistry, 2005, 77, 2235-2242.	3.2	115
57	Tracking bioâ€molecules in live cells using quantum dots. Journal of Biophotonics, 2008, 1, 287-298.	1.1	112
58	Single Molecule Quantum-Confined Stark Effect Measurements of Semiconductor Nanoparticles at Room Temperature. ACS Nano, 2012, 6, 10013-10023.	7.3	111
59	Detectors for single-molecule fluorescence imaging and spectroscopy. Journal of Modern Optics, 2007, 54, 239-281.	0.6	110
60	A 512 Ã— 512 SPAD Image Sensor With Integrated Gating for Widefield FLIM. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-12.	1.9	109
61	Development of new photon-counting detectors for single-molecule fluorescence microscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120035.	1.8	100
62	Temporal fluctuations of fluorescence resonance energy transfer between two dyes conjugated to a single protein. Chemical Physics, 1999, 247, 107-118.	0.9	97
63	High-throughput single-molecule optofluidic analysis. Nature Methods, 2011, 8, 242-245.	9.0	95
64	Photobleaching Pathways in Single-Molecule FRET Experiments. Journal of the American Chemical Society, 2007, 129, 4643-4654.	6.6	90
65	Superresolution Optical Fluctuation Imaging with Organic Dyes. Angewandte Chemie - International Edition, 2010, 49, 9441-9443.	7.2	88
66	Instantaneous frequency dynamics of coherent wave mixing in semiconductor quantum wells. Physical Review Letters, 1993, 70, 3307-3310.	2.9	86
67	Carrier capture times in 1.5 Î¼m multiple quantum well optical amplifiers. Applied Physics Letters, 1992, 60, 9-11.	1.5	83
68	Characterization of Porous Materials by Fluorescence Correlation Spectroscopy Super-resolution Optical Fluctuation Imaging. ACS Nano, 2015, 9, 9158-9166.	7.3	80
69	Ultrafast phase dynamics of coherent emission from excitons in GaAs quantum wells. Physical Review B, 1994, 50, 8439-8453.	1.1	78
70	Enhanced Absorption Induced by a Metallic Nanoshell. Nano Letters, 2004, 4, 85-88.	4.5	78
71	The Transcription Bubble of the RNA Polymeraseâ€“Promoter Open Complex Exhibits Conformational Heterogeneity and Millisecond-Scale Dynamics: Implications for Transcription Start-Site Selection. Journal of Molecular Biology, 2013, 425, 875-885.	2.0	77
72	Ultrafast gain dynamics in 1.5 Î¼m multiple quantum well optical amplifiers. Applied Physics Letters, 1991, 58, 158-160.	1.5	74

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73	High-throughput FCS using an LCOS spatial light modulator and an 8 Ã— 1 SPAD array. Biomedical Optics Express, 2010, 1, 1408.	1.5	74
74	Processing of microRNA primary transcripts requires heme in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1861-1866.	3.3	69
75	Photon Arrival-Time Interval Distribution (PAID):Â A Novel Tool for Analyzing Molecular Interactions. Journal of Physical Chemistry B, 2004, 108, 3051-3067.	1.2	65
76	Ultrahigh-Resolution Colocalization of Spectrally Separable Point-like Fluorescent Probes. Methods, 2001, 25, 87-102.	1.9	63
77	Single-molecule spectroscopy and microscopy. Comptes Rendus Physique, 2002, 3, 619-644.	0.3	61
78	A Quantitative Theoretical Framework For Protein-Induced Fluorescence Enhancementâ€“FÃ¶rster-Type Resonance Energy Transfer (PIFE-FRET). Journal of Physical Chemistry B, 2016, 120, 6401-6410.	1.2	60
79	Coupling of diode laser arrays with photorefractive passive phase conjugate mirrors. Applied Physics Letters, 1987, 50, 1397-1399.	1.5	59
80	Enhancing the Photoluminescence of Peptide-Coated Nanocrystals with Shell Composition and UV Irradiation. Journal of Physical Chemistry B, 2005, 109, 1669-1674.	1.2	57
81	ANALYTICAL CHEMISTRY: How to Detect Weak Pairs. Science, 2003, 299, 667-668.	6.0	54
82	Site-specific labeling of proteins for single-molecule FRET by combining chemical and enzymatic modification. Protein Science, 2006, 15, 640-646.	3.1	54
83	Single-Step Multicolor Fluorescence In Situ Hybridization Using Semiconductor Quantum Dot-DNA Conjugates. Cell Biochemistry and Biophysics, 2006, 45, 59-70.	0.9	54
84	Period doubling and quasi-periodicity in additive-pulse mode-locked lasers. Optics Letters, 1995, 20, 1794.	1.7	52
85	Cys-diabody Quantum Dot Conjugates (ImmunoQdots) for Cancer Marker Detection. Bioconjugate Chemistry, 2009, 20, 1474-1481.	1.8	52
86	Lighting Up Individual DNA Binding Proteins with Quantum Dots. Nano Letters, 2009, 9, 1598-1603.	4.5	50
87	Wide-field time-gated SPAD imager for phasor-based FLIM applications. Methods and Applications in Fluorescence, 2020, 8, 024002.	1.1	50
88	Advances in ultrafast scanning tunneling microscopy. Applied Physics Letters, 1996, 69, 1321-1323.	1.5	49
89	Near-field fluorescence microscopy of cells. Ultramicroscopy, 1998, 71, 303-309.	0.8	49
90	Advances in superresolution optical fluctuation imaging (SOFI). Quarterly Reviews of Biophysics, 2013, 46, 210-221.	2.4	49

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91	The ultrafast response of a scanning tunneling microscope. Physica Status Solidi (B): Basic Research, 1995, 188, 343-359.	0.7	47
92	Nonequilibrium Single Molecule Protein Folding in a Coaxial Mixer. Biophysical Journal, 2008, 95, 352-365.	0.2	46
93	Shattering the diffraction limit of light: A revolution in fluorescence microscopy?. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8747-8749.	3.3	45
94	Photon-HDF5: An Open File Format for Timestamp-Based Single-Molecule Fluorescence Experiments. Biophysical Journal, 2016, 110, 26-33.	0.2	45
95	Using photon statistics to boost microscopy resolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4797-4798.	3.3	44
96	Toward Single-Molecule Optical Mapping of the Epigenome. ACS Nano, 2014, 8, 14-26.	7.3	42
97	Protein-protein interactions as a tool for site-specific labeling of proteins. Protein Science, 2005, 14, 2059-2068.	3.1	40
98	Enzymatically Incorporated Genomic Tags for Optical Mapping of DNAâ€Binding Proteins. Angewandte Chemie - International Edition, 2012, 51, 3578-3581.	7.2	40
99	Dual-molecule spectroscopy: molecular rulers for the study of biological macromolecules. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 1115-1128.	1.9	39
100	Photon-counting H33D detector for biological fluorescence imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 133-136.	0.7	39
101	Nanoblade Delivery and Incorporation of Quantum Dot Conjugates into Tubulin Networks in Live Cells. Nano Letters, 2012, 12, 5669-5672.	4.5	39
102	Wavefunction engineering: From quantum wells to near-infrared type-II colloidal quantum dots synthesized by layer-by-layer colloidal epitaxy. Chemical Physics, 2005, 318, 82-90.	0.9	38
103	Solubilization of Quantum Dots with a Recombinant Peptide fromEscherichia coli. Small, 2007, 3, 793-798.	5.2	38
104	Hybrid photodetector for single-molecule spectroscopy and microscopy. Proceedings of SPIE, 2008, 6862, .	0.8	38
105	Phasor imaging with a widefield photon-counting detector. Journal of Biomedical Optics, 2012, 17, 016008.	1.4	38
106	Single-Quantum Dot Imaging with a Photon Counting Camera. Current Pharmaceutical Biotechnology, 2009, 10, 543-557.	0.9	36
107	Aromatic Aldehyde and Hydrazine Activated Peptide Coated Quantum Dots for Easy Bioconjugation and Live Cell Imaging. Bioconjugate Chemistry, 2011, 22, 1006-1011.	1.8	36
108	Suppression of Quantum Dot Blinking in DTT-Doped Polymer Films. Journal of Physical Chemistry C, 2009, 113, 11541-11545.	1.5	35

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109	High Affinity scFvâ"Hapten Pair as a Tool for Quantum Dot Labeling and Tracking of Single Proteins in Live Cells. Nano Letters, 2008, 8, 4618-4623.	4.5	34
110	Membrane insertion ofâ€"and membrane potential sensing byâ€"semiconductor voltage nanosensors: Feasibility demonstration. Science Advances, 2018, 4, e1601453.	4.7	33
111	Single molecule spectroscopy with automated positioning. Applied Physics Letters, 1997, 70, 782-784.	1.5	32
112	Femtosecond timeâ€resolved freeâ€induction decay of roomâ€temperature excitons in GaAs quantum wells. Applied Physics Letters, 1992, 60, 2666-2668.	1.5	30
113	Stable, Compact, Bright Biofunctional Quantum Dots with Improved Peptide Coating. Journal of Physical Chemistry B, 2012, 116, 11370-11378.	1.2	30
114	Characterizing the Quantum-Confined Stark Effect in Semiconductor Quantum Dots and Nanorods for Single-Molecule Electrophysiology. ACS Photonics, 2018, 5, 4788-4800.	3.2	30
115	Spatial light modulation and filtering effects in photorefractive wave mixing. Applied Physics Letters, 1987, 50, 483-485.	1.5	29
116	Characterizing highly dynamic conformational states: The transcription bubble in RNAP-promoter open complex as an example. Journal of Chemical Physics, 2018, 148, 123315.	1.2	29
117	Design Rules for Membrane-Embedded Voltage-Sensing Nanoparticles. Biophysical Journal, 2017, 112, 703-713.	0.2	28
118	Ultra high-throughput single molecule spectroscopy with a 1024 pixel SPAD. Proceedings of SPIE, 2011, 7905, .	0.8	27
119	Multispot single-molecule FRET: High-throughput analysis of freely diffusing molecules. PLoS ONE, 2017, 12, e0175766.	1.1	27
120	Four-Color Alternating-Laser Excitation Single-Molecule Fluorescence Spectroscopy for Next-Generation Biodetection Assays. Clinical Chemistry, 2012, 58, 707-716.	1.5	26
121	The effect of macromolecular crowding on single-round transcription byEscherichia coliRNA polymerase. Nucleic Acids Research, 2019, 47, 1440-1450.	6.5	26
122	Ruggedness in the folding landscape of protein L. HFSP Journal, 2008, 2, 388-395.	2.5	25
123	A Rugged Energy Landscape Mechanism for Trapping of Transmembrane Receptors during Endocytosisâ€. Biochemistry, 2003, 42, 2916-2925.	1.2	24
124	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. Journal of Chemical Physics, 2009, 131, 174705.	1.2	24
125	Labeling Cytosolic Targets in Live Cells with Blinking Probes. Journal of Physical Chemistry Letters, 2013, 4, 2138-2146.	2.1	24
126	Combining atomic force and fluorescence microscopy for analysis of quantumâ€dot labeled proteinâ€"DNA complexes. Journal of Molecular Recognition, 2009, 22, 397-402.	1.1	23

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127	Nanometer Distance Measurements between Multicolor Quantum Dots. Nano Letters, 2009, 9, 2199-2205.	4.5	23
128	Tunable frequency shift of photorefractive oscillators. Optics Letters, 1986, 11, 165.	1.7	22
129	Line narrowing and self frequency scanning of laser diode arrays coupled to a photorefractive oscillator. IEEE Journal of Quantum Electronics, 1988, 24, 706-708.	1.0	22
130	Rapid Voltage Sensing with Single Nanorods via the Quantum Confined Stark Effect. ACS Photonics, 2018, 5, 2860-2867.	3.2	22
131	Periodic acceptor excitation spectroscopy of single molecules. European Biophysics Journal, 2007, 36, 669-674.	1.2	21
132	Sequential activation of human signal recognition particle by the ribosome and signal sequence drives efficient protein targeting. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5487-E5496.	3.3	21
133	Measuring diffusion with polarization-modulation dual-focus fluorescence correlation spectroscopy. Optics Express, 2008, 16, 14609.	1.7	20
134	Multi-parameter photon-by-photon hidden Markov modeling. Nature Communications, 2022, 13, 1000.	5.8	18
135	Analysis of coupled photorefractive wave mixing junctions. Optics Letters, 1989, 14, 186.	1.7	17
136	Monte Carlo Diffusion-Enhanced Photon Inference: Distance Distributions and Conformational Dynamics in Single-Molecule FRET. Journal of Physical Chemistry B, 2018, 122, 11598-11615.	1.2	17
137	Notice of Violation of IEEE Publication Principles: Peptide coated quantum dots for biological applications. IEEE Transactions on Nanobioscience, 2006, 5, 231-238.	2.2	16
138	Different types of pausing modes during transcription initiation. Transcription, 2017, 8, 242-253.	1.7	16
139	Solvable optimized fourâ€wave mixing configuration with cubic photorefractive crystals. Applied Physics Letters, 1988, 53, 257-259.	1.5	15
140	Photorefractive saturable absorptive and dispersive optical bistability. Optics Communications, 1989, 70, 515-521.	1.0	15
141	A space- and time-resolved single photon counting detector for fluorescence microscopy and spectroscopy. , 2006, 6092, .		15
142	Phasor-based single-molecule fluorescence lifetime imaging using a wide-field photon-counting detector. , 2009, 7185, .		15
143	Cusp-artifacts in high order superresolution optical fluctuation imaging. Biomedical Optics Express, 2020, 11, 554.	1.5	15
144	In vitro and in vivo NIR fluorescence lifetime imaging with a time-gated SPAD camera. Optica, 2022, 9, 532.	4.8	15

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145	Design consideration in an ultrafast scanning tunneling microscope. Review of Scientific Instruments, 1995, 66, 4130-4134.	0.6	14
146	Single-Photon, Time-Gated, Phasor-Based Fluorescence Lifetime Imaging through Highly Scattering Medium. ACS Photonics, 2020, 7, 68-79.	3.2	14
147	Receptor compaction and GTPase rearrangement drive SRP-mediated cotranslational protein translocation into the ER. Science Advances, 2021, 7, .	4.7	14
148	Photorefractive oscillation with intracavity image and multimode fiber. Applied Physics Letters, 1986, 48, 1567-1569.	1.5	13
149	High Speed Multichannel Charge Sensitive Data Acquisition System With Self-Triggered Event Timing. IEEE Transactions on Nuclear Science, 2009, 56, 1148-1152.	1.2	13
150	Studying transcription initiation by RNA polymerase with diffusionâ€based singleâ€molecule fluorescence. Protein Science, 2017, 26, 1278-1290.	3.1	13
151	Spatiotemporal manipulation of retinoic acid activity in zebrafish hindbrain development via photo-isomerization. Development (Cambridge), 2012, 139, 3355-3362.	1.2	12
152	48-spot single-molecule FRET setup with periodic acceptor excitation. Journal of Chemical Physics, 2018, 148, 123304.	1.2	12
153	Improved Surface Functionalization and Characterization of Membrane-Targeted Semiconductor Voltage Nanosensors. Journal of Physical Chemistry Letters, 2019, 10, 3906-3913.	2.1	12
154	Cobalt(III) Protoporphyrin Activates the DGCR8 Protein and Can Compensate microRNA Processing Deficiency. Chemistry and Biology, 2015, 22, 793-802.	6.2	11
155	Development of Lipid-Coated Semiconductor Nanosensors for Recording of Membrane Potential in Neurons. ACS Photonics, 2020, 7, 1141-1152.	3.2	11
156	Fluorescence lifetime microscopy with a time- and space-resolved single-photon counting detector. , 2006, 6372, .		9
157	Statistical parametrization of cell cytoskeleton reveals lung cancer cytoskeletal phenotype with partial EMT signature. Communications Biology, 2022, 5, 407.	2.0	8
158	Carrier transport effects and dynamics in multiple quantum well optical amplifiers. Optical and Quantum Electronics, 1994, 26, S731-S756.	1.5	7
159	Interfacing the Cell with â€œBiomimetic Membrane Proteinsâ€. Small, 2019, 15, e1903006.	5.2	7
160	Ultrafast dynamics of the optical mode of a 1.5 Î¼m multiple quantum well optical amplifier. Applied Physics Letters, 1994, 64, 2861-2863.	1.5	5
161	Peptide-coated semiconductor nanocrystals for biomedical applications. , 2005, 5704, .		5
162	Development of an ultrafast single photon counting imager for single molecule imaging. , 2006, 6092, 168.		5

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163	In vivo assembly and single-molecule characterization of the transcription machinery from Shewanella oneidensis MR-1. Protein Expression and Purification, 2009, 65, 66-76.	0.6	5
164	A Bis(phosphine)-Modified Peptide Ligand for Stable and Luminescent Quantum Dots in Aqueous Media. Synthesis, 2013, 45, 2426-2430.	1.2	5
165	Tracking Single Proteins in Live Cells Using Single-Chain Antibody Fragment-Fluorescent Quantum Dot Affinity Pair. Methods in Enzymology, 2010, 475, 61-79.	0.4	4
166	Electrically controlling and optically observing the membrane potential of supported lipid bilayers. Biophysical Journal, 2022, 121, 2624-2637.	0.2	3
167	Subunit cooperation in the Get1/2 receptor promotes tail-anchored membrane protein insertion. Journal of Cell Biology, 2021, 220, .	2.3	2
168	Optical probing of local membrane potential with fluorescent polystyrene beads. Biophysical Reports, 2021, 1, 100030.	0.7	2
169	Membrane potential sensing: Material design and method development for single particle optical electrophysiology. Journal of Chemical Physics, 2022, 156, 084201.	1.2	2
170	Super-resolution Imaging of Plasmonic Near-Fields: Overcoming Emitter Mislocalizations. Journal of Physical Chemistry Letters, 2022, 13, 4520-4529.	2.1	2
171	Near-infrared peptide-coated quantum dots for small animal imaging. , 2006, 6096, 29.		1
172	Single molecule quantum-confined Stark effect measurements of semiconductor nanoparticles at room temperature. , 2013, , .		1
173	PySOFI: an open source Python package for SOFI. Biophysical Reports, 2022, 2, 100052.	0.7	1
174	Enhancing the photoluminescence of peptide-coated nanocrystals. , 2005, , .		0
175	Single molecule protein folding kinetics in a co-axial microfluidic mixer. , 2008, , .		0
176	Weak Electromagnetic Fields Accelerate Fusion of Myoblasts. International Journal of Molecular Sciences, 2021, 22, 4407.	1.8	0
177	Ratiometric widefield imaging with spectrally balanced detection. Biomedical Optics Express, 2019, 10, 5385.	1.5	0