

Vahid Sandoghdar

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198
papers

11,977
citations

59
h-index

104
g-index

276
ext. papers

13,796
ext. citations

7.6
avg, IF

6.45
L-index

#	Paper	IF	Citations
198	Enhancement of single-molecule fluorescence using a gold nanoparticle as an optical nanoantenna. <i>Physical Review Letters</i> , 2006 , 97, 017402	7.4	1201
197	Detection and spectroscopy of gold nanoparticles using supercontinuum white light confocal microscopy. <i>Physical Review Letters</i> , 2004 , 93, 037401	7.4	367
196	Very low threshold whispering-gallery-mode microsphere laser. <i>Physical Review A</i> , 1996 , 54, R1777-R1780	6	331
195	Measurement of the Casimir-Polder force. <i>Physical Review Letters</i> , 1993 , 70, 560-563	7.4	310
194	Nanometer resolution and coherent optical dipole coupling of two individual molecules. <i>Science</i> , 2002 , 298, 385-9	33.3	268
193	A single-molecule optical transistor. <i>Nature</i> , 2009 , 460, 76-80	50.4	254
192	High-speed nanoscopic tracking of the position and orientation of a single virus. <i>Nature Methods</i> , 2009 , 6, 923-7	21.6	252
191	Direct printing of nanostructures by electrostatic autofocussing of ink nanodroplets. <i>Nature Communications</i> , 2012 , 3, 890	17.4	241
190	A planar dielectric antenna for directional single-photon emission and near-unity collection efficiency. <i>Nature Photonics</i> , 2011 , 5, 166-169	33.9	232
189	Optical microscopy using a single-molecule light source. <i>Nature</i> , 2000 , 405, 325-8	50.4	231
188	A single gold particle as a probe for apertureless scanning near-field optical microscopy. <i>Journal of Microscopy</i> , 2001 , 202, 72-6	1.9	225
187	Design of plasmonic nanoantennae for enhancing spontaneous emission. <i>Optics Letters</i> , 2007 , 32, 1623-5	5	217
186	Splitting of high-Q Mie modes induced by light backscattering in silica microspheres. <i>Optics Letters</i> , 1995 , 20, 1835-7	3	217
185	Efficient coupling of photons to a single molecule and the observation of its resonance fluorescence. <i>Nature Physics</i> , 2008 , 4, 60-66	16.2	214
184	Controlled coupling of counterpropagating whispering-gallery modes by a single Rayleigh scatterer: a classical problem in a quantum optical light. <i>Physical Review Letters</i> , 2007 , 99, 173603	7.4	201
183	Highly directional emission from photonic crystal waveguides of subwavelength width. <i>Physical Review Letters</i> , 2004 , 92, 113903	7.4	189
182	Geometry-induced electrostatic trapping of nanometric objects in a fluid. <i>Nature</i> , 2010 , 467, 692-5	50.4	175

181	Direct optical sensing of single unlabelled proteins and super-resolution imaging of their binding sites. <i>Nature Communications</i> , 2014 , 5, 4495	17.4	161
180	Direct measurement of the van der Waals interaction between an atom and its images in a micron-sized cavity. <i>Physical Review Letters</i> , 1992 , 68, 3432-3435	7.4	159
179	Single-molecule imaging by optical absorption. <i>Nature Photonics</i> , 2011 , 5, 95-98	33.9	151
178	Interferometric optical detection and tracking of very small gold nanoparticles at a water-glass interface. <i>Optics Express</i> , 2006 , 14, 405-14	3.3	146
177	Perfect reflection of light by an oscillating dipole. <i>Physical Review Letters</i> , 2008 , 101, 180404	7.4	139
176	Nanoparticle-induced fluorescence lifetime modification as nanoscopic ruler: demonstration at the single molecule level. <i>Nano Letters</i> , 2007 , 7, 685-9	11.5	134
175	Single-Molecule Sensitivity in Optical Absorption at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3323-3327	6.4	119
174	Optical microscopy via spectral modifications of a nanoantenna. <i>Physical Review Letters</i> , 2005 , 95, 200801.4	7.4	116
173	Spontaneous emission of europium ions embedded in dielectric nanospheres. <i>Physical Review Letters</i> , 2002 , 89, 257403	7.4	114
172	Measuring the quantum efficiency of the optical emission of single radiating dipoles using a scanning mirror. <i>Physical Review Letters</i> , 2005 , 95, 063003	7.4	108
171	Diamond colour centres as a nanoscopic light source for scanning near-field optical microscopy. <i>Journal of Microscopy</i> , 2001 , 202, 2-6	1.9	104
170	Controlling the resonance of a photonic crystal microcavity by a near-field probe. <i>Physical Review Letters</i> , 2005 , 95, 153904	7.4	103
169	Gold nanorods and nanospheroids for enhancing spontaneous emission. <i>New Journal of Physics</i> , 2008 , 10, 105015	2.9	102
168	Quantum interference of tunably indistinguishable photons from remote organic molecules. <i>Physical Review Letters</i> , 2010 , 104, 123605	7.4	101
167	Tomographic Plasmon Spectroscopy of a Single Gold Nanoparticle. <i>Nano Letters</i> , 2004 , 4, 2309-2314	11.5	97
166	Highly efficient interfacing of guided plasmons and photons in nanowires. <i>Nano Letters</i> , 2009 , 9, 3756-61	11.5	94
165	Modification of single molecule fluorescence close to a nanostructure: radiation pattern, spontaneous emission and quenching. <i>Molecular Physics</i> , 2008 , 106, 893-908	1.7	93
164	Strong extinction of a laser beam by a single molecule. <i>Physical Review Letters</i> , 2007 , 98, 033601	7.4	91

163	Mapping whispering-gallery modes in microspheres with a near-field probe. <i>Optics Letters</i> , 1995 , 20, 1515-7	3	91
162	Metallo-dielectric hybrid antennas for ultrastrong enhancement of spontaneous emission. <i>Physical Review Letters</i> , 2012 , 108, 233001	7.4	90
161	Eroded monomode optical fiber for whispering-gallery mode excitation in fused-silica microspheres. <i>Optics Letters</i> , 1995 , 20, 813-5	3	90
160	Cavity QED level shifts of simple atoms. <i>Physical Review A</i> , 1991 , 43, 398-403	2.6	84
159	Spectroscopic detection and state preparation of a single praseodymium ion in a crystal. <i>Nature Communications</i> , 2014 , 5, 3627	17.4	83
158	Measurement of the complex dielectric constant of a single gold nanoparticle. <i>Optics Letters</i> , 2006 , 31, 2474-6	3	81
157	Imaging a single quantum dot when it is dark. <i>Nano Letters</i> , 2009 , 9, 926-9	11.5	78
156	Interferometric Scattering Microscopy: Seeing Single Nanoparticles and Molecules via Rayleigh Scattering. <i>Nano Letters</i> , 2019 , 19, 4827-4835	11.5	77
155	Production of Isolated Giant Unilamellar Vesicles under High Salt Concentrations. <i>Frontiers in Physiology</i> , 2017 , 8, 63	4.6	77
154	Turning a molecule into a coherent two-level quantum system. <i>Nature Physics</i> , 2019 , 15, 483-489	16.2	77
153	Single-photon spectroscopy of a single molecule. <i>Physical Review Letters</i> , 2012 , 108, 093601	7.4	76
152	Tracking single particles on supported lipid membranes: multimobility diffusion and nanoscopic confinement. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1545-54	3.4	75
151	Interferometric scattering microscopy reveals microsecond nanoscopic protein motion on a live cell membrane. <i>Nature Photonics</i> , 2019 , 13, 480-487	33.9	74
150	Reflection scanning near-field optical microscopy with uncoated fiber tips: How good is the resolution really?. <i>Journal of Applied Physics</i> , 1997 , 81, 2499-2503	2.5	73
149	Sub-nanometre resolution in single-molecule photoluminescence imaging. <i>Nature Photonics</i> , 2020 , 14, 693-699	33.9	69
148	Aligned terrylene molecules in a spin-coated ultrathin crystalline film of p-terphenyl. <i>Chemical Physics Letters</i> , 2004 , 387, 490-495	2.5	67
147	Visualization and ligand-induced modulation of dopamine receptor dimerization at the single molecule level. <i>Scientific Reports</i> , 2016 , 6, 33233	4.9	66
146	Light microscopy: an ongoing contemporary revolution. <i>Contemporary Physics</i> , 2015 , 56, 123-143	3.3	64

145	Label-free characterization of biomembranes: from structure to dynamics. <i>Chemical Society Reviews</i> , 2014 , 43, 887-900	58.5	63
144	Coherent interaction of light with a metallic structure coupled to a single quantum emitter: from superabsorption to cloaking. <i>Physical Review Letters</i> , 2013 , 110, 153605	7.4	63
143	Coherent interaction of light and single molecules in a dielectric nanoguide. <i>Physical Review Letters</i> , 2014 , 113, 213601	7.4	61
142	Second-harmonic generation from individual surface defects under local excitation. <i>Physical Review B</i> , 2000 , 61, 4545-4548	3.3	61
141	99% efficiency in collecting photons from a single emitter. <i>Optics Letters</i> , 2011 , 36, 3545-7	3	60
140	External-cavity frequency-stabilization of visible and infrared semiconductor lasers for high resolution spectroscopy. <i>Optics Communications</i> , 1991 , 85, 355-359	2	60
139	A single molecule as a high-fidelity photon gun for producing intensity-squeezed light. <i>Nature Photonics</i> , 2017 , 11, 58-62	33.9	58
138	Label-free optical detection and tracking of single virions bound to their receptors in supported membrane bilayers. <i>Nano Letters</i> , 2007 , 7, 2263-6	11.5	58
137	Oxygen-dependent photochemistry of fluorescent dyes studied at the single molecule level. <i>Molecular Physics</i> , 2006 , 104, 409-414	1.7	57
136	Controlled photon transfer between two individual nanoemitters via shared high-Q modes of a microsphere resonator. <i>Nano Letters</i> , 2006 , 6, 1151-4	11.5	57
135	Near-field visualization of light confinement in a photonic crystal microresonator. <i>Optics Letters</i> , 2004 , 29, 174-6	3	57
134	Apertureless scanning near-field second-harmonic microscopy. <i>Optics Communications</i> , 2000 , 178, 245-249		57
133	Cryogenic optical localization provides 3D protein structure data with Angstrom resolution. <i>Nature Methods</i> , 2017 , 14, 141-144	21.6	56
132	Resolution and enhancement in nanoantenna-based fluorescence microscopy. <i>Nano Letters</i> , 2009 , 9, 4007-11	11.5	56
131	Quantized atom-field force at the surface of a microsphere. <i>Optics Letters</i> , 1994 , 19, 1651-3	3	56
130	Finite-Difference Time-Domain Modeling of Decay Rates in the Near Field of Metal Nanostructures. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007 , 4, 635-643	0.3	53
129	Controlling the phase of a light beam with a single molecule. <i>Physical Review Letters</i> , 2011 , 107, 063001	7.4	52
128	Single-molecule spectroscopy near structured dielectrics. <i>Optics Communications</i> , 1998 , 158, 250-262	2	51

127	A model system for two-dimensional and three-dimensional photonic crystals: macroporous silicon. <i>Journal of Optics</i> , 2001 , 3, S121-S132		51
126	Fluorescence Enhancement with the Optical (Bi-) Conical Antenna <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7372-7377	3.8	50
125	Spontaneous emission rates of dipoles in photonic crystal membranes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1196	1.7	50
124	Near-infrared single-photons from aligned molecules in ultrathin crystalline films at room temperature. <i>Optics Express</i> , 2010 , 18, 6577-82	3.3	49
123	Few-photon coherent nonlinear optics with a single molecule. <i>Nature Photonics</i> , 2016 , 10, 450-453	33.9	49
122	Plasmon spectra of nanospheres under a tightly focused beam. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 651	1.7	48
121	Roadmap on quantum light spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 072002	1.3	47
120	Characterizing whispering-gallery modes in microspheres by direct observation of the optical standing-wave pattern in the near field. <i>Optics Letters</i> , 1996 , 21, 698-700	3	47
119	Compartmentalization and Transport in Synthetic Vesicles. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 19	5.8	46
118	A scanning microcavity for in situ control of single-molecule emission. <i>Applied Physics Letters</i> , 2010 , 97, 021107	3.4	45
117	Manipulation of Quenching in Nanoantenna-Emitter Systems Enabled by External Detuned Cavities: A Path to Enhance Strong-Coupling. <i>ACS Photonics</i> , 2018 , 5, 456-461	6.3	44
116	Experimental realization of an optical antenna designed for collecting 99% of photons from a quantum emitter. <i>Optica</i> , 2014 , 1, 203	8.6	42
115	Coherent state preparation and observation of Rabi oscillations in a single molecule. <i>Physical Review A</i> , 2009 , 79,	2.6	42
114	Strong plasmonic enhancement of biexciton emission: controlled coupling of a single quantum dot to a gold nanocone antenna. <i>Scientific Reports</i> , 2017 , 7, 42307	4.9	41
113	Coherent Coupling of a Single Molecule to a Scanning Fabry-Perot Microcavity. <i>Physical Review X</i> , 2017 , 7,	9.1	39
112	Visualization of lipids and proteins at high spatial and temporal resolution via interferometric scattering (iSCAT) microscopy. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 274002	3	38
111	Receptor concentration and diffusivity control multivalent binding of Sv40 to membrane bilayers. <i>PLoS Computational Biology</i> , 2013 , 9, e1003310	5	36
110	Apertureless near-field optical microscopy via local second-harmonic generation. <i>Journal of Microscopy</i> , 2001 , 202, 94-9	1.9	36

109	Spontaneous emission of a nanoscopic emitter in a strongly scattering disordered medium. <i>Optics Express</i> , 2010 , 18, 6360-5	3.3	35
108	Cryogenic colocalization microscopy for nanometer-distance measurements. <i>ChemPhysChem</i> , 2014 , 15, 763-70	3.2	33
107	Spontaneous emission in the near field of two-dimensional photonic crystals. <i>Optics Letters</i> , 2005 , 30, 3210-2	3	33
106	Electrically Driven Single-Photon Superradiance from Molecular Chains in a Plasmonic Nanocavity. <i>Physical Review Letters</i> , 2019 , 122, 233901	7.4	32
105	Near-field imaging and frequency tuning of a high-Q photonic crystal membrane microcavity. <i>Optics Express</i> , 2007 , 15, 17214-20	3.3	32
104	Experimental realization of an absolute single-photon source based on a single nitrogen vacancy center in a nanodiamond. <i>Optica</i> , 2017 , 4, 71	8.6	30
103	Sensing Nanoparticles with a Cantilever-Based Scannable Optical Cavity of Low Finesse and Sub-B Volume. <i>Physical Review Applied</i> , 2015 , 4,	4.3	30
102	Nanofocusing radially-polarized beams for high-throughput funneling of optical energy to the near field. <i>Optics Express</i> , 2010 , 18, 10878-87	3.3	30
101	Realization of two Fourier-limited solid-state single-photon sources. <i>Optics Express</i> , 2007 , 15, 15842-7	3.3	30
100	Visualizing Single-Cell Secretion Dynamics with Single-Protein Sensitivity. <i>Nano Letters</i> , 2018 , 18, 513-519	11.5	30
99	Chip-Based All-Optical Control of Single Molecules Coherently Coupled to a Nanoguide. <i>Nano Letters</i> , 2017 , 17, 4941-4945	11.5	29
98	Gold, Copper, Silver and Aluminum Nanoantennas to Enhance Spontaneous Emission. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 2024-2030	0.3	29
97	Subwavelength emitters in the near-infrared based on mercury telluride nanocrystals. <i>Applied Physics Letters</i> , 2004 , 84, 4732-4734	3.4	29
96	Direct spectroscopy of a deep two-dimensional photonic crystal microresonator. <i>Physical Review B</i> , 2001 , 64,	3.3	29
95	Spontaneous emission in nanoscopic dielectric particles. <i>Optics Letters</i> , 2003 , 28, 1736-8	3	27
94	Spectroscopy of atoms confined to the single node of a standing wave in a parallel-plate cavity. <i>Physical Review A</i> , 1996 , 53, 1919-1922	2.6	27
93	Scanning-aperture trapping and manipulation of single charged nanoparticles. <i>Nature Communications</i> , 2014 , 5, 3380	17.4	25
92	Optimization of prism coupling to high-Q modes in a microsphere resonator using a near-field probe. <i>Optics Communications</i> , 2005 , 250, 428-433	2	25

91	Nanoprinting organic molecules at the quantum level. <i>Nature Communications</i> , 2019 , 10, 1880	17.4	24
90	Polaritonic normal-mode splitting and light localization in a one-dimensional nanoguide. <i>Physical Review A</i> , 2016 , 94,	2.6	24
89	Towards controlled coupling between a high-Q whispering-gallery mode and a single nanoparticle. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 73, 825-828	1.9	23
88	Mapping and manipulating whispering gallery modes of a microsphere resonator with a near-field probe. <i>Journal of Microscopy</i> , 2001 , 202, 117-21	1.9	23
87	Coherent nonlinear optics of quantum emitters in nanophotonic waveguides. <i>Nanophotonics</i> , 2019 , 8, 1641-1657	6.3	22
86	Spectroscopic detection of single Pr ³⁺ ions on the 3H ₄ →D ₂ transition. <i>New Journal of Physics</i> , 2015 , 17, 083018	2.9	22
85	Spontaneous emission enhancement of a single molecule by a double-sphere nanoantenna across an interface. <i>Optics Express</i> , 2012 , 20, 23331-8	3.3	22
84	Influence of a sharp fiber tip on high-Q modes of a microsphere resonator. <i>Optics Letters</i> , 2002 , 27, 80-23		22
83	Transmission of a microcavity structure in a two-dimensional photonic crystal based on macroporous silicon. <i>Materials Science in Semiconductor Processing</i> , 2000 , 3, 487-491	4.3	22
82	A single molecule as a probe of optical intensity distribution. <i>Optics Letters</i> , 1999 , 24, 581-3	3	22
81	Ensemble-Induced Strong Light-Matter Coupling of a Single Quantum Emitter. <i>Physical Review Letters</i> , 2020 , 124, 113602	7.4	21
80	Coherent nonlinear single-molecule microscopy. <i>Physical Review A</i> , 2010 , 82,	2.6	21
79	Prospects of apertureless SNOM with active probes. <i>Journal of Optics</i> , 1999 , 1, 523-530		19
78	Measuring three-dimensional interaction potentials using optical interference. <i>Optics Express</i> , 2013 , 21, 9377-89	3.3	18
77	Modification of single molecule fluorescence by a scanning probe. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 84, 211-217	1.9	18
76	Fabrication and characterization of plasmonic nanocone antennas for strong spontaneous emission enhancement. <i>Nanotechnology</i> , 2015 , 26, 404001	3.4	17
75	Cryogenic localization of single molecules with angstrom precision 2013 ,		17
74	Scanning near-field optical coherent spectroscopy of single molecules at 1.4 K. <i>Optics Letters</i> , 2007 , 32, 1420-2	3	17

73	Single organic molecules for photonic quantum technologies. <i>Nature Materials</i> , 2021 , 20, 1615-1628	27	17
72	Linear and non-linear optical experiments based on macroporous silicon photonic crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 3708-3726	1.6	16
71	Confocal microscopy and spectroscopy of nanocrystals on a high-Q-microsphere resonator. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004 , 6, 154-158		16
70	A Single-Emitter Gain Medium for Bright Coherent Radiation from a Plasmonic Nanoresonator. <i>ACS Photonics</i> , 2017 , 4, 2738-2744	6.3	15
69	Metal nanoparticles in strongly confined beams: transmission, reflection and absorption. <i>Journal of the European Optical Society-Rapid Publications</i> , 2009 , 4,	2.5	15
68	Near-field optics and control of photonic crystals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2005 , 3, 63-74	2.6	15
67	High-contrast topography-free sample for near-field optical microscopy. <i>Applied Physics Letters</i> , 2000 , 76, 1206-1208	3.4	15
66	Point spread function in interferometric scattering microscopy (iSCAT). Part I: aberrations in defocusing and axial localization. <i>Optics Express</i> , 2020 , 28, 25969-25988	3.3	15
65	Coherent coupling of single molecules to on-chip ring resonators. <i>New Journal of Physics</i> , 2019 , 21, 062002	2.2	14
64	Efficient coupling of single photons to single plasmons. <i>Optics Express</i> , 2010 , 18, 13829-35	3.3	14
63	Spectroscopy and microscopy of single molecules in nanoscopic channels: spectral behavior vs. confinement depth. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19588-94	3.6	13
62	High-Speed Microscopy of Diffusion in Pore-Spanning Lipid Membranes. <i>Nano Letters</i> , 2018 , 18, 5262-5271	1.5	13
61	When excitons and plasmons meet: Emerging function through synthesis and assembly. <i>MRS Bulletin</i> , 2015 , 40, 768-776	3.2	13
60	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. <i>Faraday Discussions</i> , 2015 , 184, 275-303	3.6	13
59	Lithography using nano-lens arrays made of light. <i>Journal of Modern Optics</i> , 1997 , 44, 1883-1898	1.1	13
58	Nano-Optomechanical Characterization and Manipulation of Photonic Crystals. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007 , 13, 253-261	3.8	13
57	Experimental demonstration of a predictable single photon source with variable photon flux. <i>Metrologia</i> , 2017 , 54, 218-223	2.1	12
56	Interrogation and fabrication of nm scale hot alkali vapour cells. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 122006	0.3	12

55	Conformational distribution of surface-adsorbed fibronectin molecules explored by single molecule localization microscopy. <i>Biomaterials Science</i> , 2014 , 2, 883-892	7.4	12
54	Exploring the limits of single emitter detection in fluorescence and extinction. <i>Optics Express</i> , 2008 , 16, 17358-65	3.3	12
53	Nano-Optics in 2020 \square 20. <i>Nano Letters</i> , 2020 , 20, 4721-4723	11.5	11
52	Multifunctional AFM/SNOM cantilever probes: Fabrication and measurements. <i>Microelectronic Engineering</i> , 2000 , 53, 183-186	2.5	11
51	Interferometric Scattering (iSCAT) Microscopy and Related Techniques 2019 , 25-65		11
50	Nanostructured Alkali-Metal Vapor Cells. <i>Physical Review Applied</i> , 2020 , 14,	4.3	11
49	Molecules as sources for indistinguishable single photons. <i>Journal of Modern Optics</i> , 2009 , 56, 161-166	1.1	10
48	Spheroidal nanoparticles as nanoantennas for fluorescence enhancement. <i>International Journal of Nanotechnology</i> , 2009 , 6, 902	1.5	10
47	Quantum Metamaterials with Magnetic Response at Optical Frequencies. <i>Physical Review Letters</i> , 2020 , 125, 063601	7.4	10
46	Single-Molecule Vacuum Rabi Splitting: Four-Wave Mixing and Optical Switching at the Single-Photon Level. <i>Physical Review Letters</i> , 2021 , 127, 133603	7.4	10
45	Plasmonics, Tracking and Manipulating, and Living Cells: general discussion. <i>Faraday Discussions</i> , 2015 , 184, 451-73	3.6	9
44	Microlasers based on silica microspheres. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 1997 , 52, 557	2	9
43	Molecule-photon interactions in phononic environments. <i>Physical Review Research</i> , 2020 , 2,	3.9	9
42	Ultrahigh-Speed Imaging of Rotational Diffusion on a Lipid Bilayer. <i>Nano Letters</i> , 2020 , 20, 7213-7219	11.5	9
41	Label-Free Imaging of Single Proteins Secreted from Living Cells via iSCAT Microscopy. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	9
40	Levitated Plasmonic Nanoantennas in an Aqueous Environment. <i>ACS Nano</i> , 2017 , 11, 7674-7678	16.7	8
39	Coupling of plasmonic nanoparticles to their environments in the context of van der Waals-Casimir interactions. <i>Physical Review B</i> , 2008 , 77,	3.3	8
38	Circular grating resonators as small mode-volume microcavities for switching. <i>Optics Express</i> , 2009 , 17, 5953-64	3.3	7

37	A Standing-wave meter to measure dispersion and loss of photonic-crystal waveguides. <i>Applied Physics Letters</i> , 2005 , 87, 2611-10	3.4	7
36	Partial Cloaking of a Gold Particle by a Single Molecule. <i>Physical Review Letters</i> , 2020 , 125, 103603	7.4	7
35	Small slot waveguide rings for on-chip quantum optical circuits. <i>Optics Express</i> , 2017 , 25, 5397-5414	3.3	6
34	Lifetime-limited zero-phonon spectra of single molecules in methyl methacrylate. <i>Chemical Physics Letters</i> , 2009 , 472, 44-47	2.5	6
33	Control and imaging of single-molecule spectral dynamics using a nano-electrode. <i>Molecular Physics</i> , 2009 , 107, 1975-1979	1.7	6
32	Optical Detection of Very Small Nonfluorescent Nanoparticles. <i>Chimia</i> , 2006 , 60, 761-764	1.3	6
31	Beating the diffraction limit. <i>Physics World</i> , 2001 , 14, 29-34	0.5	6
30	Spectral dynamics and spatial localization of single molecules in a polymer. <i>Molecular Physics</i> , 2009 , 107, 1897-1909	1.7	5
29	Results and Thoughts on Optical Microscopy Using a Single-molecule Probe. <i>Single Molecules</i> , 2001 , 2, 277-281		5
28	On Quantum Efficiency Measurements and Plasmonic Antennas. <i>ACS Photonics</i> , 2021 , 8, 1508-1521	6.3	5
27	Enhancing the radiative emission rate of single molecules by a plasmonic nanoantenna weakly coupled with a dielectric substrate. <i>Optics Express</i> , 2015 , 23, 32986-92	3.3	4
26	Engineering gold nano-antennae to enhance the emission of quantum emitters 2007 ,		4
25	Interferometric detection and tracking of nanoparticles. <i>Handai Nanophotonics</i> , 2007 , 143-159		3
24	A novel fabrication method for fluorescence-based apertureless scanning near-field optical microscope probes. <i>Journal of Microscopy</i> , 1999 , 194, 340-3	1.9	3
23	Polarization-Encoded Colocalization Microscopy at Cryogenic Temperatures. <i>ACS Photonics</i> , 2021 , 8, 194-201	6.3	3
22	High-Precision Protein-Tracking With Interferometric Scattering Microscopy. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 590158	5.7	3
21	Precision single-particle localization using radial variance transform. <i>Optics Express</i> , 2021 , 29, 11070-11083	9.3	3
20	Nanosopic Charge Fluctuations in a Gallium Phosphide Waveguide Measured by Single Molecules. <i>Physical Review Letters</i> , 2021 , 126, 133602	7.4	3

19	Precision size and refractive index analysis of weakly scattering nanoparticles in polydispersions.. <i>Nature Methods</i> , 2022 , 19, 586-593	21.6	3
18	Coherent spectroscopy in strongly confined optical fields. <i>Physica B: Condensed Matter</i> , 2012 , 407, 4086-4092	4.92	2
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