Vahid Sandoghdar

List of Publications by Year in Descending Order

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	High-resolution vibronic spectroscopy of a single molecule embedded in a crystal.. *Journal of Chemical Physics*, **2022**, 156, 104301	3.9	
197	Optimized analysis for sensitive detection and analysis of single proteins via interferometric scattering microscopy. *Journal Physics D: Applied Physics*, **2022**, 55, 054002	3	1
196	PiSCAT: A Python Package for Interferometric Scattering Microscopy. *Journal of Open Source Software*, **2022**, 7, 4024	5.2	0
195	Precision size and refractive index analysis of weakly scattering nanoparticles in polydispersions.. *Nature Methods*, **2022**, 19, 586-593	21.6	3
194	Polarization-Encoded Colocalization Microscopy at Cryogenic Temperatures. *ACS Photonics*, **2021**, 8, 194-201	6.3	3
193	Precision single-particle localization using radial variance transform. *Optics Express*, **2021**, 29, 11070-11083	3.5	3
192	Nanoscopic Charge Fluctuations in a Gallium Phosphide Waveguide Measured by Single Molecules. *Physical Review Letters*, **2021**, 126, 133602	7.4	3
191	Single organic molecules for photonic quantum technologies. *Nature Materials*, **2021**, 20, 1615-1628	27	17
190	On Quantum Efficiency Measurements and Plasmonic Antennas. *ACS Photonics*, **2021**, 8, 1508-1521	6.3	5
189	Engineering Long-Lived Vibrational States for an Organic Molecule. *Physical Review Letters*, **2021**, 127, 123603	7.4	1
188	Single-Molecule Vacuum Rabi Splitting: Four-Wave Mixing and Optical Switching at the Single-Photon Level. *Physical Review Letters*, **2021**, 127, 133603	7.4	10
187	Differential Diffusional Properties in Loose and Tight Docking Prior to Membrane Fusion. *Biophysical Journal*, **2020**, 119, 2431-2439	2.9	1
186	Nano-Optics in 2020 □ 20. *Nano Letters*, **2020**, 20, 4721-4723	11.5	11
185	Ensemble-Induced Strong Light-Matter Coupling of a Single Quantum Emitter. *Physical Review Letters*, **2020**, 124, 113602	7.4	21
184	Roadmap on quantum light spectroscopy. *Journal of Physics B: Atomic, Molecular and Optical Physics* , **2020**, 53, 072002	1.3	47
183	Molecule-photon interactions in phononic environments. *Physical Review Research*, **2020**, 2,	3.9	9
182	Kerker effect, superscattering, and scattering dark states in atomic antennas. *Physical Review Research*, **2020**, 2,	3.9	2

181	Point spread function in interferometric scattering microscopy (iSCAT). Part I: aberrations in defocusing and axial localization. *Optics Express*, **2020**, 28, 25969-25988	3.3	15
180	High-Precision Protein-Tracking With Interferometric Scattering Microscopy. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 590158	5.7	3
179	Quantum Metamaterials with Magnetic Response at Optical Frequencies. *Physical Review Letters*, **2020**, 125, 063601	7.4	10
178	Sub-nanometre resolution in single-molecule photoluminescence imaging. *Nature Photonics*, **2020**, 14, 693-699	33.9	69
177	Ultrahigh-Speed Imaging of Rotational Diffusion on a Lipid Bilayer. *Nano Letters*, **2020**, 20, 7213-7219	11.5	9
176	Partial Cloaking of a Gold Particle by a Single Molecule. *Physical Review Letters*, **2020**, 125, 103603	7.4	7
175	Nanostructured Alkali-Metal Vapor Cells. *Physical Review Applied*, **2020**, 14,	4.3	11
174	Coherent coupling of single molecules to on-chip ring resonators. *New Journal of Physics*, **2019**, 21, 062002	2.9	14
173	Coherent nonlinear optics of quantum emitters in nanophotonic waveguides. *Nanophotonics*, **2019**, 8, 1641-1657	6.3	22
172	Electrically Driven Single-Photon Superradiance from Molecular Chains in a Plasmonic Nanocavity. *Physical Review Letters*, **2019**, 122, 233901	7.4	32
171	Nanoprinting organic molecules at the quantum level. *Nature Communications*, **2019**, 10, 1880	17.4	24
170	Interferometric scattering microscopy reveals microsecond nanoscopic protein motion on a live cell membrane. *Nature Photonics*, **2019**, 13, 480-487	33.9	74
169	Interferometric Scattering Microscopy: Seeing Single Nanoparticles and Molecules via Rayleigh Scattering. *Nano Letters*, **2019**, 19, 4827-4835	11.5	77
168	Interferometric Scattering (iSCAT) Microscopy and Related Techniques **2019**, 25-65		11
167	Turning a molecule into a coherent two-level quantum system. *Nature Physics*, **2019**, 15, 483-489	16.2	77
166	Interferenz von Licht macht einzelne unmarkierte Proteine sichtbar. *BioSpektrum*, **2019**, 25, 732-736	0.1	1
165	High-Speed Microscopy of Diffusion in Pore-Spanning Lipid Membranes. *Nano Letters*, **2018**, 18, 5262-5271	11.5	13
164	Visualizing Single-Cell Secretion Dynamics with Single-Protein Sensitivity. *Nano Letters*, **2018**, 18, 513-519	11.5	30

163	Manipulation of Quenching in Nanoantenna-Emitter Systems Enabled by External Detuned Cavities: A Path to Enhance Strong-Coupling. *ACS Photonics*, **2018**, 5, 456-461	6.3	44
162	Label-Free Imaging of Single Proteins Secreted from Living Cells via iSCAT Microscopy. *Journal of Visualized Experiments*, **2018**,	1.6	9
161	Cryogenic optical localization provides 3D protein structure data with Angstrom resolution. *Nature Methods*, **2017**, 14, 141-144	21.6	56
160	Strong plasmonic enhancement of biexciton emission: controlled coupling of a single quantum dot to a gold nanocone antenna. *Scientific Reports*, **2017**, 7, 42307	4.9	41
159	Experimental demonstration of a predictable single photon source with variable photon flux. *Metrologia*, **2017**, 54, 218-223	2.1	12
158	A single molecule as a high-fidelity photon gun for producing intensity-squeezed light. *Nature Photonics*, **2017**, 11, 58-62	33.9	58
157	A Single-Emitter Gain Medium for Bright Coherent Radiation from a Plasmonic Nanoresonator. *ACS Photonics*, **2017**, 4, 2738-2744	6.3	15
156	Coherent Coupling of a Single Molecule to a Scanning Fabry-Perot Microcavity. *Physical Review X*, **2017**, 7,	9.1	39
155	Levitated Plasmonic Nanoantennas in an Aqueous Environment. *ACS Nano*, **2017**, 11, 7674-7678	16.7	8
154	Chip-Based All-Optical Control of Single Molecules Coherently Coupled to a Nanoguide. *Nano Letters*, **2017**, 17, 4941-4945	11.5	29
153	Production of Isolated Giant Unilamellar Vesicles under High Salt Concentrations. *Frontiers in Physiology*, **2017**, 8, 63	4.6	77
152	Small slot waveguide rings for on-chip quantum optical circuits. *Optics Express*, **2017**, 25, 5397-5414	3.3	6
151	Experimental realization of an absolute single-photon source based on a single nitrogen vacancy center in a nanodiamond. *Optica*, **2017**, 4, 71	8.6	30
150	Polaritonic normal-mode splitting and light localization in a one-dimensional nanoguide. *Physical Review A*, **2016**, 94,	2.6	24
149	Visualization and ligand-induced modulation of dopamine receptor dimerization at the single molecule level. *Scientific Reports*, **2016**, 6, 33233	4.9	66
148	Spectroscopy and microscopy of single molecules in nanoscopic channels: spectral behavior vs. confinement depth. *Physical Chemistry Chemical Physics*, **2016**, 18, 19588-94	3.6	13
147	Compartmentalization and Transport in Synthetic Vesicles. *Frontiers in Bioengineering and Biotechnology*, **2016**, 4, 19	5.8	46
146	Visualization of lipids and proteins at high spatial and temporal resolution via interferometric scattering (iSCAT) microscopy. *Journal Physics D: Applied Physics*, **2016**, 49, 274002	3	38

145	High-Speed Single Particle Tracking on Model Lipid Membranes. *Biophysical Journal*, **2016**, 110, 649a	2.9	2
144	Few-photon coherent nonlinear optics with a single molecule. *Nature Photonics*, **2016**, 10, 450-453	33.9	49
143	Light microscopy: an ongoing contemporary revolution. *Contemporary Physics*, **2015**, 56, 123-143	3.3	64
142	When excitons and plasmons meet: Emerging function through synthesis and assembly. *MRS Bulletin*, **2015**, 40, 768-776	3.2	13
141	Enhancing the radiative emission rate of single molecules by a plasmonic nanoantenna weakly coupled with a dielectric substrate. *Optics Express*, **2015**, 23, 32986-92	3.3	4
140	Sensing Nanoparticles with a Cantilever-Based Scannable Optical Cavity of Low Finesse and Sub-λ^3 Volume. *Physical Review Applied*, **2015**, 4,	4.3	30
139	Interrogation and fabrication of nm scale hot alkali vapour cells. *Journal of Physics: Conference Series*, **2015**, 635, 122006	0.3	12
138	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. *Faraday Discussions*, **2015**, 184, 275-303	3.6	13
137	Plasmonics, Tracking and Manipulating, and Living Cells: general discussion. *Faraday Discussions*, **2015**, 184, 451-73	3.6	9
136	Spectroscopic detection of single Pr3+ ions on the 3H4–1D2 transition. *New Journal of Physics*, **2015**, 17, 083018	2.9	22
135	Fabrication and characterization of plasmonic nanocone antennas for strong spontaneous emission enhancement. *Nanotechnology*, **2015**, 26, 404001	3.4	17
134	Cryogenic colocalization microscopy for nanometer-distance measurements. *ChemPhysChem*, **2014**, 15, 763-70	3.2	33
133	Scanning-aperture trapping and manipulation of single charged nanoparticles. *Nature Communications*, **2014**, 5, 3380	17.4	25
132	Label-free characterization of biomembranes: from structure to dynamics. *Chemical Society Reviews* , **2014**, 43, 887-900	58.5	63
131	Coherent interaction of light and single molecules in a dielectric nanoguide. *Physical Review Letters*, **2014**, 113, 213601	7.4	61
130	Spectroscopic detection and state preparation of a single praseodymium ion in a crystal. *Nature Communications*, **2014**, 5, 3627	17.4	83
129	Direct optical sensing of single unlabelled proteins and super-resolution imaging of their binding sites. *Nature Communications*, **2014**, 5, 4495	17.4	161
128	Tracking single particles on supported lipid membranes: multimobility diffusion and nanoscopic confinement. *Journal of Physical Chemistry B*, **2014**, 118, 1545-54	3.4	75

127	Experimental realization of an optical antenna designed for collecting 99% of photons from a quantum emitter. *Optica*, **2014**, 1, 203	8.6	42
126	Conformational distribution of surface-adsorbed fibronectin molecules explored by single molecule localization microscopy. *Biomaterials Science*, **2014**, 2, 883-892	7.4	12
125	Coherent interaction of light with a metallic structure coupled to a single quantum emitter: from superabsorption to cloaking. *Physical Review Letters*, **2013**, 110, 153605	7.4	63
124	Receptor concentration and diffusivity control multivalent binding of Sv40 to membrane bilayers. *PLoS Computational Biology*, **2013**, 9, e1003310	5	36
123	Cryogenic localization of single molecules with angstrom precision **2013**,		17
122	Measuring three-dimensional interaction potentials using optical interference. *Optics Express*, **2013**, 21, 9377-89	3.3	18
121	Direct printing of nanostructures by electrostatic autofocussing of ink nanodroplets. *Nature Communications*, **2012**, 3, 890	17.4	241
120	Single-photon spectroscopy of a single molecule. *Physical Review Letters*, **2012**, 108, 093601	7.4	76
119	Coherent spectroscopy in strongly confined optical fields. *Physica B: Condensed Matter*, **2012**, 407, 4086-4092	2.8	2
118	Einzelphotonen-Kommunikation zwischen einzelnen Molekülen. *Physik in Unserer Zeit*, **2012**, 43, 166-167	0.1	
117	Metallodielectric hybrid antennas for ultrastrong enhancement of spontaneous emission. *Physical Review Letters*, **2012**, 108, 233001	7.4	90
116	Spontaneous emission enhancement of a single molecule by a double-sphere nanoantenna across an interface. *Optics Express*, **2012**, 20, 23331-8	3.3	22
115	99% efficiency in collecting photons from a single emitter. *Optics Letters*, **2011**, 36, 3545-7	3	60
114	Single-molecule imaging by optical absorption. *Nature Photonics*, **2011**, 5, 95-98	33.9	151
113	A planar dielectric antenna for directional single-photon emission and near-unity collection efficiency. *Nature Photonics*, **2011**, 5, 166-169	33.9	232
112	Controlling the phase of a light beam with a single molecule. *Physical Review Letters*, **2011**, 107, 063001	7.4	52
111	Geometry-induced electrostatic trapping of nanometric objects in a fluid. *Nature*, **2010**, 467, 692-5	50.4	175
110	A scanning microcavity for in situ control of single-molecule emission. *Applied Physics Letters*, **2010**, 97, 021107	3.4	45

109	Coherent nonlinear single-molecule microscopy. *Physical Review A*, **2010**, 82,	2.6	21
108	Fluorescence Enhancement with the Optical (Bi-) Conical Antenna *Journal of Physical Chemistry C*, **2010**, 114, 7372-7377	3.8	50
107	Spontaneous emission of a nanoscopic emitter in a strongly scattering disordered medium. *Optics Express*, **2010**, 18, 6360-5	3.3	35
106	Near-infrared single-photons from aligned molecules in ultrathin crystalline films at room temperature. *Optics Express*, **2010**, 18, 6577-82	3.3	49
105	Nanofocusing radially-polarized beams for high-throughput funneling of optical energy to the near field. *Optics Express*, **2010**, 18, 10878-87	3.3	30
104	Efficient coupling of single photons to single plasmons. *Optics Express*, **2010**, 18, 13829-35	3.3	14
103	Quantum interference of tunably indistinguishable photons from remote organic molecules. *Physical Review Letters*, **2010**, 104, 123605	7.4	101
102	Single-Molecule Sensitivity in Optical Absorption at Room Temperature. *Journal of Physical Chemistry Letters*, **2010**, 1, 3323-3327	6.4	119
101	Nanophotonics with Microsphere Resonators **2010**, 51-528		1
100	Metal nanoparticles in strongly confined beams: transmission, reflection and absorption. *Journal of the European Optical Society-Rapid Publications*, **2009**, 4,	2.5	15
99	Gold, Copper, Silver and Aluminum Nanoantennas to Enhance Spontaneous Emission. *Journal of Computational and Theoretical Nanoscience*, **2009**, 6, 2024-2030	0.3	29
98	Molecules as sources for indistinguishable single photons. *Journal of Modern Optics*, **2009**, 56, 161-166	1.1	10
97	A single-molecule optical transistor. *Nature*, **2009**, 460, 76-80	50.4	254
96	High-speed nanoscopic tracking of the position and orientation of a single virus. *Nature Methods*, **2009**, 6, 923-7	21.6	252
95	Lifetime-limited zero-phonon spectra of single molecules in methyl methacrylate. *Chemical Physics Letters*, **2009**, 472, 44-47	2.5	6
94	Coherent state preparation and observation of Rabi oscillations in a single molecule. *Physical Review A*, **2009**, 79,	2.6	42
93	Circular grating resonators as small mode-volume microcavities for switching. *Optics Express*, **2009**, 17, 5953-64	3.3	7
92	Imaging a single quantum dot when it is dark. *Nano Letters*, **2009**, 9, 926-9	11.5	78

91	Highly efficient interfacing of guided plasmons and photons in nanowires. *Nano Letters*, **2009**, 9, 3756-61	11.5	94
90	Resolution and enhancement in nanoantenna-based fluorescence microscopy. *Nano Letters*, **2009**, 9, 4007-11	11.5	56
89	Spheroidal nanoparticles as nanoantennas for fluorescence enhancement. *International Journal of Nanotechnology*, **2009**, 6, 902	1.5	10
88	Control and imaging of single-molecule spectral dynamics using a nano-electrode. *Molecular Physics* , **2009**, 107, 1975-1979	1.7	6
87	Spectral dynamics and spatial localization of single molecules in a polymer. *Molecular Physics*, **2009**, 107, 1897-1909	1.7	5
86	Efficient coupling of photons to a single molecule and the observation of its resonance fluorescence. *Nature Physics*, **2008**, 4, 60-66	16.2	214
85	Modification of single molecule fluorescence close to a nanostructure: radiation pattern, spontaneous emission and quenching. *Molecular Physics*, **2008**, 106, 893-908	1.7	93
84	Coupling of plasmonic nanoparticles to their environments in the context of van der Waals□Casimir interactions. *Physical Review B*, **2008**, 77,	3.3	8
83	Plasmon spectra of nanospheres under a tightly focused beam. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, 651	1.7	48
82	Exploring the limits of single emitter detection in fluorescence and extinction. *Optics Express*, **2008**, 16, 17358-65	3.3	12
81	Perfect reflection of light by an oscillating dipole. *Physical Review Letters*, **2008**, 101, 180404	7.4	139
80	Gold nanorods and nanospheroids for enhancing spontaneous emission. *New Journal of Physics*, **2008**, 10, 105015	2.9	102
79	Linear and Non-linear Optical Experiments Based on Macroporous Silicon Photonic Crystals **2008**, 157-181		1
78	Label-free optical detection and tracking of single virions bound to their receptors in supported membrane bilayers. *Nano Letters*, **2007**, 7, 2263-6	11.5	58
77	Linear and non-linear optical experiments based on macroporous silicon photonic crystals. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 3708-3726	1.6	16
76	Nano-Optomechanical Characterization and Manipulation of Photonic Crystals. *IEEE Journal of Selected Topics in Quantum Electronics*, **2007**, 13, 253-261	3.8	13
75	Nanoparticle-induced fluorescence lifetime modification as nanoscopic ruler: demonstration at the single molecule level. *Nano Letters*, **2007**, 7, 685-9	11.5	134
74	Strong extinction of a laser beam by a single molecule. *Physical Review Letters*, **2007**, 98, 033601	7.4	91

73	Controlled coupling of counterpropagating whispering-gallery modes by a single Rayleigh scatterer: a classical problem in a quantum optical light. *Physical Review Letters*, **2007**, 99, 173603	7.4	201
72	Finite-Difference Time-Domain Modeling of Decay Rates in the Near Field of Metal Nanostructures. *Journal of Computational and Theoretical Nanoscience*, **2007**, 4, 635-643	0.3	53
71	Interferometric detection and tracking of nanoparticles. *Handai Nanophotonics*, **2007**, 143-159		3
70	Engineering gold nano-antennae to enhance the emission of quantum emitters **2007**,		4
69	Scanning near-field optical coherent spectroscopy of single molecules at 1.4 K. *Optics Letters*, **2007**, 32, 1420-2	3	17
68	Design of plasmonic nanoantennae for enhancing spontaneous emission. *Optics Letters*, **2007**, 32, 1623-5	3	217
67	Realization of two Fourier-limited solid-state single-photon sources. *Optics Express*, **2007**, 15, 15842-7	3.3	30
66	Near-field imaging and frequency tuning of a high-Q photonic crystal membrane microcavity. *Optics Express*, **2007**, 15, 17214-20	3.3	32
65	Tailoring the transmission of liquid-core waveguides for wavelength filtering on a chip **2007**,		2
64	Oxygen-dependent photochemistry of fluorescent dyes studied at the single molecule level. *Molecular Physics*, **2006**, 104, 409-414	1.7	57
63	Controlled photon transfer between two individual nanoemitters via shared high-Q modes of a microsphere resonator. *Nano Letters*, **2006**, 6, 1151-4	11.5	57
62	Measurement of the complex dielectric constant of a single gold nanoparticle. *Optics Letters*, **2006**, 31, 2474-6	3	81
61	Spontaneous emission rates of dipoles in photonic crystal membranes. *Journal of the Optical Society of America B: Optical Physics*, **2006**, 23, 1196	1.7	50
60	Interferometric optical detection and tracking of very small gold nanoparticles at a water-glass interface. *Optics Express*, **2006**, 14, 405-14	3.3	146
59	Optical Detection of Very Small Nonfluorescent Nanoparticles. *Chimia*, **2006**, 60, 761-764	1.3	6
58	Enhancement of single-molecule fluorescence using a gold nanoparticle as an optical nanoantenna. *Physical Review Letters*, **2006**, 97, 017402	7.4	1201
57	Modification of single molecule fluorescence by a scanning probe. *Applied Physics B: Lasers and Optics*, **2006**, 84, 211-217	1.9	18
56	Optical microscopy via spectral modifications of a nanoantenna. *Physical Review Letters*, **2005**, 95, 200801	7.4	116

55	Controlling the resonance of a photonic crystal microcavity by a near-field probe. *Physical Review Letters*, **2005**, 95, 153904	7.4	103
54	Spontaneous emission in the near field of two-dimensional photonic crystals. *Optics Letters*, **2005**, 30, 3210-2	3	33
53	Near-field optics and control of photonic crystals. *Photonics and Nanostructures - Fundamentals and Applications*, **2005**, 3, 63-74	2.6	15
52	Optimization of prism coupling to high-Q modes in a microsphere resonator using a near-field probe. *Optics Communications*, **2005**, 250, 428-433	2	25
51	Near-field optical microscopy of light propagation through photonic crystal waveguide tapers **2005** ,		1
50	A standing-wave meter to measure dispersion and loss of photonic-crystal waveguides. *Applied Physics Letters*, **2005**, 87, 261110	3.4	7
49	Measuring the quantum efficiency of the optical emission of single radiating dipoles using a scanning mirror. *Physical Review Letters*, **2005**, 95, 063003	7.4	108
48	Confocal microscopy and spectroscopy of nanocrystals on a high-Qmicrosphere resonator. *Journal of Optics B: Quantum and Semiclassical Optics*, **2004**, 6, 154-158		16
47	Highly directional emission from photonic crystal waveguides of subwavelength width. *Physical Review Letters*, **2004**, 92, 113903	7.4	189
46	Aligned terrylene molecules in a spin-coated ultrathin crystalline film of p-terphenyl. *Chemical Physics Letters*, **2004**, 387, 490-495	2.5	67
45	Subwavelength emitters in the near-infrared based on mercury telluride nanocrystals. *Applied Physics Letters*, **2004**, 84, 4732-4734	3.4	29
44	Tomographic Plasmon Spectroscopy of a Single Gold Nanoparticle. *Nano Letters*, **2004**, 4, 2309-2314	11.5	97
43	Detection and spectroscopy of gold nanoparticles using supercontinuum white light confocal microscopy. *Physical Review Letters*, **2004**, 93, 037401	7.4	367
42	Near-field visualization of light confinement in a photonic crystal microresonator. *Optics Letters*, **2004**, 29, 174-6	3	57
41	Nanoparticles and microspheres: tools to study the interaction of quantum emitters via shared optical modes **2004**, 5333, 174		
40	Spontaneous emission in nanoscopic dielectric particles. *Optics Letters*, **2003**, 28, 1736-8	3	27
39	Spontaneous emission of europium ions embedded in dielectric nanospheres. *Physical Review Letters*, **2002**, 89, 257403	7.4	114
38	Nanometer resolution and coherent optical dipole coupling of two individual molecules. *Science*, **2002**, 298, 385-9	33.3	268

37	Influence of a sharp fiber tip on high-Q modes of a microsphere resonator. *Optics Letters*, **2002**, 27, 80-2	3	22
36	Beating the diffraction limit. *Physics World*, **2001**, 14, 29-34	0.5	6
35	Towards controlled coupling between a high-Q whispering-gallery mode and a single nanoparticle. *Applied Physics B: Lasers and Optics*, **2001**, 73, 825-828	1.9	23
34	Apertureless near-field optical microscopy via local second-harmonic generation. *Journal of Microscopy*, **2001**, 202, 94-9	1.9	36
33	A single gold particle as a probe for apertureless scanning near-field optical microscopy. *Journal of Microscopy*, **2001**, 202, 72-6	1.9	225
32	Diamond colour centres as a nanoscopic light source for scanning near-field optical microscopy. *Journal of Microscopy*, **2001**, 202, 2-6	1.9	104
31	Mapping and manipulating whispering gallery modes of a microsphere resonator with a near-field probe. *Journal of Microscopy*, **2001**, 202, 117-21	1.9	23
30	Results and Thoughts on Optical Microscopy Using a Single-molecule Probe. *Single Molecules*, **2001**, 2, 277-281		5
29	A model system for two-dimensional and three-dimensional photonic crystals: macroporous silicon. *Journal of Optics*, **2001**, 3, S121-S132		51
28	Direct spectroscopy of a deep two-dimensional photonic crystal microresonator. *Physical Review B*, **2001**, 64,	3.3	29
27	Apertureless scanning near-field second-harmonic microscopy. *Optics Communications*, **2000**, 178, 245-249	2	57
26	Transmission of a microcavity structure in a two-dimensional photonic crystal based on macroporous silicon. *Materials Science in Semiconductor Processing*, **2000**, 3, 487-491	4.3	22
25	Optical microscopy using a single-molecule light source. *Nature*, **2000**, 405, 325-8	50.4	231
24	Multifunctional AFM/SNOM cantilever probes: Fabrication and measurements. *Microelectronic Engineering*, **2000**, 53, 183-186	2.5	11
23	High-contrast topography-free sample for near-field optical microscopy. *Applied Physics Letters*, **2000**, 76, 1206-1208	3.4	15
22	Second-harmonic generation from individual surface defects under local excitation. *Physical Review B*, **2000**, 61, 4545-4548	3.3	61
21	Prospects of apertureless SNOM with active probes. *Journal of Optics*, **1999**, 1, 523-530		19
20	A novel fabrication method for fluorescence-based apertureless scanning near-field optical microscope probes. *Journal of Microscopy*, **1999**, 194, 340-3	1.9	3

19	A single molecule as a probe of optical intensity distribution. *Optics Letters*, **1999**, 24, 581-3	3	22
18	Single-molecule spectroscopy near structured dielectrics. *Optics Communications*, **1998**, 158, 250-262	2	51
17	Reflection scanning near-field optical microscopy with uncoated fiber tips: How good is the resolution really?. *Journal of Applied Physics*, **1997**, 81, 2499-2503	2.5	73
16	Lithography using nano-lens arrays made of light. *Journal of Modern Optics*, **1997**, 44, 1883-1898	1.1	13
15	Mlcrolasers based on silica microspheres. *Annales Des Telecommunications/Annals of Telecommunications*, **1997**, 52, 557	2	9
14	Characterizing whispering-gallery modes in microspheres by direct observation of the optical standing-wave pattern in the near field. *Optics Letters*, **1996**, 21, 698-700	3	47
13	Very low threshold whispering-gallery-mode microsphere laser. *Physical Review A*, **1996**, 54, R1777-R1780	2.6	331
12	Spectroscopy of atoms confined to the single node of a standing wave in a parallel-plate cavity. *Physical Review A*, **1996**, 53, 1919-1922	2.6	27
11	Eroded monomode optical fiber for whispering-gallery mode excitation in fused-silica microspheres. *Optics Letters*, **1995**, 20, 813-5	3	90
10	Mapping whispering-gallery modes in microspheres with a near-field probe. *Optics Letters*, **1995**, 20, 1515-7	3	91
9	Splitting of high-Q Mie modes induced by light backscattering in silica microspheres. *Optics Letters*, **1995**, 20, 1835-7	3	217
8	Quantized atom-field force at the surface of a microsphere. *Optics Letters*, **1994**, 19, 1651-3	3	56
7	Measurement of the Casimir-Polder force. *Physical Review Letters*, **1993**, 70, 560-563	7.4	310
6	Direct measurement of the van der Waals interaction between an atom and its images in a micron-sized cavity. *Physical Review Letters*, **1992**, 68, 3432-3435	7.4	159
5	External-cavity frequency-stabilization of visible and infrared semiconductor lasers for high resolution spectroscopy. *Optics Communications*, **1991**, 85, 355-359	2	60
4	Cavity QED level shifts of simple atoms. *Physical Review A*, **1991**, 43, 398-403	2.6	84
3	Deciphering a hexameric protein complex with Angstrom optical resolution		1
2	Precision size and refractive index analysis of weakly scattering nanoparticles in polydispersions		1

1 Pushing Optical Microscopy to the Limit: From Single-Molecule Fluorescence Microscopy to Label-Free Detection and Tracking of Biological Nano-Objects113