

Yaron Silberberg

List of Publications by Citations

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124
papers

13,153
citations

49
h-index

114
g-index

148
ext. papers

15,715
ext. citations

8.9
avg, IF

6.64
L-index

#	Paper	IF	Citations
124	Discretizing light behaviour in linear and nonlinear waveguide lattices. <i>Nature</i> , 2003 , 424, 817-23	50.4	1157
123	Discrete solitons in optics. <i>Physics Reports</i> , 2008 , 463, 1-126	27.7	787
122	Anderson localization and nonlinearity in one-dimensional disordered photonic lattices. <i>Physical Review Letters</i> , 2008 , 100, 013906	7.4	622
121	Collapse of optical pulses. <i>Optics Letters</i> , 1990 , 15, 1282-4	3	596
120	Coherent quantum control of two-photon transitions by a femtosecond laser pulse. <i>Nature</i> , 1998 , 396, 239-242	50.4	584
119	Single-pulse coherently controlled nonlinear Raman spectroscopy and microscopy. <i>Nature</i> , 2002 , 418, 512-4	50.4	576
118	Quantum walks of correlated photons. <i>Science</i> , 2010 , 329, 1500-3	33.3	574
117	Compressive ghost imaging. <i>Applied Physics Letters</i> , 2009 , 95, 131110	3.4	544
116	Anderson localization of light. <i>Nature Photonics</i> , 2013 , 7, 197-204	33.9	427
115	Ghost imaging with a single detector. <i>Physical Review A</i> , 2009 , 79,	2.6	410
114	High-NOON states by mixing quantum and classical light. <i>Science</i> , 2010 , 328, 879-81	33.3	363
113	Realization of quantum walks with negligible decoherence in waveguide lattices. <i>Physical Review Letters</i> , 2008 , 100, 170506	7.4	347
112	Focusing and compression of ultrashort pulses through scattering media. <i>Nature Photonics</i> , 2011 , 5, 372-377	33.9	331
111	Looking around corners and through thin turbid layers in real time with scattered incoherent light. <i>Nature Photonics</i> , 2012 , 6, 549-553	33.9	321
110	Scanningless depth-resolved microscopy. <i>Optics Express</i> , 2005 , 13, 1468-76	3.3	315
109	Coherent quantum control of multiphoton transitions by shaped ultrashort optical pulses. <i>Physical Review A</i> , 1999 , 60, 1287-1292	2.6	282
108	Transform-Limited Pulses Are Not Optimal for Resonant Multiphoton Transitions. <i>Physical Review Letters</i> , 2001 , 86, 47-50	7.4	225

107	Laser scanning third-harmonic-generation microscopy in biology. <i>Optics Express</i> , 1999 , 5, 169-75	3.3	224
106	Quantum and classical correlations in waveguide lattices. <i>Physical Review Letters</i> , 2009 , 102, 253904	7.4	193
105	Quantum coherent control for nonlinear spectroscopy and microscopy. <i>Annual Review of Physical Chemistry</i> , 2009 , 60, 277-92	15.7	191
104	Femtosecond phase-and-polarization control for background-free coherent anti-Stokes Raman spectroscopy. <i>Physical Review Letters</i> , 2003 , 90, 213902	7.4	185
103	Observation of topological phase transitions in photonic quasicrystals. <i>Physical Review Letters</i> , 2013 , 110, 076403	7.4	183
102	Two photon absorption and coherent control with broadband down-converted light. <i>Physical Review Letters</i> , 2004 , 93, 023005	7.4	155
101	Nonlinear interactions with an ultrahigh flux of broadband entangled photons. <i>Physical Review Letters</i> , 2005 , 94, 043602	7.4	132
100	Narrow-band coherent anti-stokes Raman signals from broad-band pulses. <i>Physical Review Letters</i> , 2002 , 88, 063004	7.4	130
99	Quantum correlations in two-particle Anderson localization. <i>Physical Review Letters</i> , 2010 , 105, 163905	7.4	128
98	Quantum control of coherent anti-Stokes Raman processes. <i>Physical Review A</i> , 2002 , 65,	2.6	114
97	Improved depth resolution in video-rate line-scanning multiphoton microscopy using temporal focusing. <i>Optics Letters</i> , 2005 , 30, 1686-8	3	108
96	Noninvasive nonlinear focusing and imaging through strongly scattering turbid layers. <i>Optica</i> , 2014 , 1, 170	8.6	106
95	Single-pulse phase-contrast nonlinear Raman spectroscopy. <i>Physical Review Letters</i> , 2002 , 89, 273001	7.4	106
94	Nonlinear coupling of waveguide modes. <i>Applied Physics Letters</i> , 1987 , 50, 801-803	3.4	106
93	Single-pulse coherent anti-Stokes Raman spectroscopy in the fingerprint spectral region. <i>Journal of Chemical Physics</i> , 2003 , 118, 9208-9215	3.9	101
92	Supersensitive polarization microscopy using NOON states of light. <i>Physical Review Letters</i> , 2014 , 112, 103604	7.4	98
91	Geometrical representation of sum frequency generation and adiabatic frequency conversion. <i>Physical Review A</i> , 2008 , 78,	2.6	98
90	Super-resolution enhancement by quantum image scanning microscopy. <i>Nature Photonics</i> , 2019 , 13, 1163-122	3.9	90

89	Topological pumping over a photonic Fibonacci quasicrystal. <i>Physical Review B</i> , 2015 , 91,	3.3	89
88	Coherent transient enhancement of optically induced resonant transitions. <i>Physical Review Letters</i> , 2002 , 88, 123004	7.4	88
87	Robust adiabatic sum frequency conversion. <i>Optics Express</i> , 2009 , 17, 12731-40	3.3	76
86	Depth-resolved structural imaging by third-harmonic generation microscopy. <i>Journal of Structural Biology</i> , 2004 , 147, 3-11	3.4	76
85	Optical discrete solitons in waveguide arrays 2 Dynamic properties. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2637	1.7	76
84	Full control of the spectral polarization of ultrashort pulses. <i>Optics Letters</i> , 2006 , 31, 631-3	3	73
83	Real-time wavefront shaping through scattering media by all-optical feedback. <i>Nature Photonics</i> , 2013 , 7, 919-924	33.9	72
82	Polarization control of multiply scattered light through random media by wavefront shaping. <i>Optics Letters</i> , 2012 , 37, 4663-5	3	68
81	Simple route to strong-field coherent control. <i>Physical Review Letters</i> , 2005 , 94, 083002	7.4	64
80	Quantum walk of two interacting bosons. <i>Physical Review A</i> , 2012 , 86,	2.6	63
79	Quantum control of the angular momentum distribution in multiphoton absorption processes. <i>Physical Review Letters</i> , 2004 , 92, 103003	7.4	63
78	Spatiotemporal coherent control using shaped, temporally focused pulses. <i>Optics Express</i> , 2005 , 13, 9903-8	3.8	60
77	Quantum lithography by coherent control of classical light pulses. <i>Optics Express</i> , 2004 , 12, 6600-5	3.3	55
76	Observation of discrete gap solitons in binary waveguide arrays. <i>Optics Letters</i> , 2004 , 29, 2890-2	3	52
75	Bloch oscillations of path-entangled photons. <i>Physical Review Letters</i> , 2010 , 105, 263604	7.4	48
74	Spectral control of broadband light through random media by wavefront shaping. <i>Optics Letters</i> , 2012 , 37, 3429-31	3	48
73	Discrete X-wave formation in nonlinear waveguide arrays. <i>Physical Review Letters</i> , 2007 , 98, 023901	7.4	47
72	Light Modes of Free Space. <i>Progress in Optics</i> , 2016 , 237-281	3.4	45

71	Tracing the photodissociation probability of H ₂ ⁺ in intense fields using chirped laser pulses. <i>Physical Review A</i> , 2010 , 81,	2.6	43
70	Quantum correlation enhanced super-resolution localization microscopy enabled by a fibre bundle camera. <i>Nature Communications</i> , 2017 , 8, 14786	17.4	42
69	Single-beam spectrally controlled two-dimensional Raman spectroscopy. <i>Nature Photonics</i> , 2015 , 9, 339-343	3.3	41
68	Single-beam coherent Raman spectroscopy and microscopy via spectral notch shaping. <i>Optics Express</i> , 2010 , 18, 22693-701	3.3	41
67	Numerical simulations of light bullets using the full-vector time-dependent nonlinear Maxwell equations. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 3253	1.7	40
66	Phase and amplitude pulse shaping with two-dimensional phase-only spatial light modulators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 2940	1.7	40
65	Depth-resolved multiphoton polarization microscopy by third-harmonic generation. <i>Optics Letters</i> , 2003 , 28, 2315-7	3	40
64	Efficient polarization gating of high-order harmonic generation by polarization-shaped ultrashort pulses. <i>Physical Review A</i> , 2005 , 72,	2.6	38
63	Universal correlations in a nonlinear periodic 1D system. <i>Physical Review Letters</i> , 2009 , 102, 233904	7.4	32
62	Quantum control of photodissociation by manipulation of bond softening. <i>Physical Review A</i> , 2012 , 86,	2.6	28
61	Two photon frequency conversion. <i>Optics Express</i> , 2012 , 20, 3613-9	3.3	26
60	All-optical processing in coherent nonlinear spectroscopy. <i>Physical Review A</i> , 2004 , 70,	2.6	26
59	Single-pulse stimulated Raman scattering spectroscopy. <i>Optics Letters</i> , 2011 , 36, 1248-50	3	25
58	Focusing light by wavefront shaping through disorder and nonlinearity. <i>Optica</i> , 2017 , 4, 1073	8.6	24
57	Single-pulse CARS based multimodal nonlinear optical microscope for bioimaging. <i>Optics Express</i> , 2015 , 23, 13082-98	3.3	23
56	Harmonic generation with temporally focused ultrashort pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 2660	1.7	23
55	Spectral polarization and spectral phase control of time-energy entangled photons. <i>Physical Review A</i> , 2007 , 75,	2.6	22
54	Broadband sum-frequency generation as an efficient two-photon detector for optical tomography. <i>Optics Express</i> , 2007 , 15, 8760-9	3.3	21

53	Generation of a dark nonlinear focus by spatio-temporal coherent control. <i>Optics Communications</i> , 2006 , 264, 482-487	2	21
52	Strong-field spatiotemporal ultrafast coherent control in three-level atoms. <i>Physical Review A</i> , 2010 , 81,	2.6	20
51	Standoff detection via single-beam spectral notch filtered pulses. <i>Applied Physics Letters</i> , 2012 , 100, 051111	3.1	20
50	Mathematics of vectorial Gaussian beams. <i>Advances in Optics and Photonics</i> , 2019 , 11, 828	16.7	20
49	Terahertz coherent anti-Stokes Raman scattering microscopy. <i>Optica</i> , 2019 , 6, 52	8.6	18
48	Ensemble-Averaged Quantum Correlations between Path-Entangled Photons Undergoing Anderson Localization. <i>Physical Review Letters</i> , 2015 , 115, 133602	7.4	16
47	Multiple breakup of high-order spatial solitons. <i>Optics Letters</i> , 2008 , 33, 2830-2	3	16
46	Light with Tunable Non-Markovian Phase Imprint. <i>Physical Review Letters</i> , 2015 , 115, 073901	7.4	14
45	Pythagorean coupling: Complete population transfer in a four-state system. <i>Physical Review A</i> , 2011 , 84,	2.6	14
44	Berezinskii-Kosterlitz-Thouless crossover in a photonic lattice. <i>Physical Review A</i> , 2011 , 83,	2.6	14
43	Two-photon path-entangled states in multimode waveguides. <i>Physical Review Letters</i> , 2012 , 108, 153602	7.4	14
42	Entangled coherent states created by mixing squeezed vacuum and coherent light. <i>Optica</i> , 2019 , 6, 753	8.6	14
41	Impulsive Raman spectroscopy via precision measurement of frequency shift with low energy excitation. <i>Optics Letters</i> , 2018 , 43, 470-473	3	13
40	Spatiotemporal focusing through a thin scattering layer. <i>Optics Express</i> , 2012 , 20, 5189-95	3.3	13
39	Tunable upconverted optical parametric oscillator with intracavity adiabatic sum-frequency generation. <i>Optics Letters</i> , 2010 , 35, 1590-2	3	12
38	Third-harmonic generation with cylindrical Gaussian beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 1964	1.7	12
37	Sparsity-based super-resolution and phase-retrieval in waveguide arrays. <i>Optics Express</i> , 2013 , 21, 24015-24	3.3	11
36	Wavefront shaping for glare reduction. <i>Optica</i> , 2016 , 3, 1104	8.6	11

35	Vibrational spectroscopy via stimulated Raman induced Kerr lensing. <i>APL Photonics</i> , 2018 , 3, 092501	5.2	9
34	Hybrid single-source online Fourier transform coherent anti-Stokes Raman scattering/optical coherence tomography. <i>Optics Letters</i> , 2014 , 39, 5709-12	3	9
33	Spatio-temporal X-wave. <i>Optics Express</i> , 2009 , 17, 18659-68	3.3	9
32	Light focusing through scattering media via linear fluorescence variance maximization, and its application for fluorescence imaging. <i>Optics Express</i> , 2019 , 27, 21778-21786	3.3	9
31	Quantum enhanced phase retrieval. <i>Optica</i> , 2016 , 3, 193	8.6	9
30	Equilibrium temperatures of discrete nonlinear systems. <i>Physical Review B</i> , 2018 , 98,	3.3	9
29	Echo in a single vibrationally excited molecule. <i>Nature Physics</i> , 2020 , 16, 328-333	16.2	7
28	Photon correlations in multimode waveguides. <i>Physical Review A</i> , 2011 , 84,	2.6	7
27	Weakly diverging to tightly focused Gaussian beams: a single set of analytic expressions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016 , 33, 1999-2009	1.8	7
26	Frequency-encoded multiplexed CARS microscopy by rapid pulse shaping. <i>Journal of Modern Optics</i> , 2014 , 61, 872-876	1.1	6
25	Temporal focusing microscopy. <i>Cold Spring Harbor Protocols</i> , 2015 , 2015, 145-51	1.2	6
24	Sub-Rayleigh lithography using high flux loss-resistant entangled states of light. <i>Physical Review Letters</i> , 2012 , 109, 103602	7.4	6
23	Excitation of strongly confined scalar and vector self-trapped beams in one-dimensional arrays of Kerr-nonlinear channel waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 1432	1.7	6
22	Polarization dependent properties of waveguide arrays: band-structure anomaly and high-band localizations. <i>Optics Express</i> , 2005 , 13, 1762-73	3.3	6
21	Broadband photon pair generation at $3\lambda/2$. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	5
20	Second and third harmonic waves excited by focused Gaussian beams. <i>Optics Express</i> , 2015 , 23, 27795-8053	3.3	5
19	Revealing true coupling strengths in two-dimensional spectroscopy with sparsity-based signal recovery. <i>Light: Science and Applications</i> , 2017 , 6, e17115	16.7	5
18	Coherently-enhanced lock-in-free chirped-CARS microscopy by notch filtering. <i>Optics Express</i> , 2017 , 25, 28201	3.3	5

17	Design of a high-power continuous source of broadband down-converted light. <i>Physical Review A</i> , 2006 , 74,	2.6	5
16	Single beam low frequency 2D Raman spectroscopy. <i>Optics Express</i> , 2020 , 28, 3803-3810	3.3	5
15	Effects of linear modes on the evolution of discrete solitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 62	1.7	4
14	Compressive Fourier Transform Spectroscopy 2010 ,		4
13	Free-space nonperpendicular electric-magnetic fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015 , 32, 647-53	1.8	3
12	Mode conversion via wavefront shaping. <i>Optics Express</i> , 2018 , 26, 22208-22217	3.3	3
11	Weakly diverging to tightly focused Gaussian beams: a single set of analytic expressions: continuation-symmetric beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017 , 34, 331-334	1.8	3
10	Observation of rogue events in non-Markovian light. <i>Optica</i> , 2020 , 7, 864	8.6	3
9	SELF-INDUCED WAVEGUIDES: SPATIAL OPTICAL SOLITONS 1992 , 143-157		3
8	Universal correlations after thermalization in periodic nonlinear systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 035401	1.3	3
7	Beam steering via peak power decay in nonlinear waveguide arrays. <i>New Journal of Physics</i> , 2013 , 15, 093038	2.9	2
6	Simplified approach to low-frequency coherent anti-Stokes Raman spectroscopy using a sharp spectral edge filter. <i>Optics Letters</i> , 2019 , 44, 3637-3640	3	2
5	Single-pulse standoff nonlinear Raman spectroscopy using shaped femtosecond pulses. <i>Springer Series in Chemical Physics</i> , 2009 , 985-987	0.3	2
4	Anderson Localization of Light. <i>Series in Optics and Optoelectronics</i> , 2012 , 171-196		1
3	NUMERICAL SIMULATIONS OF LIGHT BULLETS, USING THE FULL VECTOR, TIME DEPENDENT, NONLINEAR MAXWELL EQUATIONS 1995 ,		1
2	Anderson localization and nonlinearity in one dimensional disordered waveguide arrays 2007 , JMB6		
1	Response to [Comment on [Nonlinear coupling of waveguide modes][Appl. Phys. Lett. 51, 1645 (1987)]]. <i>Applied Physics Letters</i> , 1987 , 51, 1645-1645	3-4	