

Yaron Silberberg

List of Publications by Year in descending order

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147
papers

16,933
citations

28274

55
h-index

15732

125
g-index

148
all docs

148
docs citations

148
times ranked

9109
citing authors

#	ARTICLE	IF	CITATIONS
1	Echo in a single vibrationally excited molecule. Nature Physics, 2020, 16, 328-333.	16.7	15
2	Single beam low frequency 2D Raman spectroscopy. Optics Express, 2020, 28, 3803.	3.4	6
3	Observation of rogue events in non-Markovian light. Optica, 2020, 7, 864.	9.3	5
4	Super-resolution enhancement by quantum image scanning microscopy. Nature Photonics, 2019, 13, 116-122.	31.4	157
5	Demonstration of complementarity between path information and interference with thermal light. Physical Review A, 2019, 99, .	2.5	2
6	Mathematics of vectorial Gaussian beams. Advances in Optics and Photonics, 2019, 11, 828.	25.5	36
7	Light focusing through scattering media via linear fluorescence variance maximization, and its application for fluorescence imaging. Optics Express, 2019, 27, 21778.	3.4	25
8	Simplified approach to low-frequency coherent anti-Stokes Raman spectroscopy using a sharp spectral edge filter. Optics Letters, 2019, 44, 3637.	3.3	3
9	Terahertz coherent anti-Stokes Raman scattering microscopy. Optica, 2019, 6, 52.	9.3	24
10	Entangled coherent states created by mixing squeezed vacuum and coherent light. Optica, 2019, 6, 753.	9.3	24
11	Quantum image scanning microscopy: concept and considerations towards applicability. , 2019, , .		0
12	Universal correlations after thermalization in periodic nonlinear systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 035401.	1.5	3
13	Equilibrium temperatures of discrete nonlinear systems. Physical Review B, 2018, 98, .	3.2	10
14	Vibrational spectroscopy via stimulated Raman induced Kerr lensing. APL Photonics, 2018, 3, .	5.7	12
15	Impulsive Raman spectroscopy via precision measurement of frequency shift with low energy excitation. Optics Letters, 2018, 43, 470.	3.3	16
16	Mode conversion via wavefront shaping. Optics Express, 2018, 26, 22208.	3.4	5
17	Quantum correlation enhanced super-resolution localization microscopy enabled by a fibre bundle camera. Nature Communications, 2017, 8, 14786.	12.8	62
18	Effect of second-order coupling on photon-pair statistics in waveguide structures. Physical Review A, 2017, 96, .	2.5	1

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19	Revealing true coupling strengths in two-dimensional spectroscopy with sparsity-based signal recovery. <i>Light: Science and Applications</i> , 2017, 6, e17115-e17115.	16.6	5
20	Coherently-enhanced lock-in-free chirped-CARS microscopy by notch filtering. <i>Optics Express</i> , 2017, 25, 28201.	3.4	5
21	Focusing light by wavefront shaping through disorder and nonlinearity. <i>Optica</i> , 2017, 4, 1073.	9.3	37
22	Weakly diverging to tightly focused Gaussian beams: a single set of analytic expressions: continuation of symmetric beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 331.	1.5	3
23	Quantum enhanced phase retrieval. <i>Optica</i> , 2016, 3, 193.	9.3	11
24	Wavefront shaping for glare reduction. <i>Optica</i> , 2016, 3, 1104.	9.3	18
25	Light Modes of Free Space. <i>Progress in Optics</i> , 2016, , 237-281.	0.6	62
26	Broadband photon pair generation at $3\pi/2$. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	5
27	Spooky spectroscopy. <i>Nature Photonics</i> , 2016, 10, 77-79.	31.4	10
28	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.	1.5	10
29	Range of Imaging and Focusing through Scattering Media. , 2016, , .		0
30	Second and third harmonic waves excited by focused Gaussian beams. <i>Optics Express</i> , 2015, 23, 27795.	3.4	7
31	Single-Pulse Two-dimensional Raman Spectroscopy. , 2015, , .		0
32	Light with Tunable Non-Markovian Phase Imprint. <i>Physical Review Letters</i> , 2015, 115, 073901.	7.8	16
33	Ensemble-Averaged Quantum Correlations between Path-Entangled Photons Undergoing Anderson Localization. <i>Physical Review Letters</i> , 2015, 115, 133602.	7.8	24
34	Temporal Focusing Microscopy. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.top085928.	0.3	8
35	Single-beam spectrally controlled two-dimensional Raman spectroscopy. <i>Nature Photonics</i> , 2015, 9, 339-343.	31.4	44
36	Free-space nonperpendicular electric and magnetic fields. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 647.	1.5	3

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37	Single-pulse CARS based multimodal nonlinear optical microscope for bioimaging. Optics Express, 2015, 23, 13082.	3.4	27
38	Topological pumping over a photonic Fibonacci quasicrystal. Physical Review B, 2015, 91, .	3.2	151
39	Hybrid single-source online Fourier transform coherent anti-Stokes Raman scattering/optical coherence tomography. Optics Letters, 2014, 39, 5709.	3.3	14
40	Noninvasive nonlinear focusing and imaging through strongly scattering turbid layers. Optica, 2014, 1, 170.	9.3	143
41	Supersensitive Polarization Microscopy Using NOON States of Light. Physical Review Letters, 2014, 112, 103604.	7.8	157
42	Frequency-encoded multiplexed CARS microscopy by rapid pulse shaping. Journal of Modern Optics, 2014, 61, 872-876.	1.3	7
43	Combs for molecules. Nature, 2013, 502, 307-308.	27.8	4
44	Real-time wavefront shaping through scattering media by all-optical feedback. Nature Photonics, 2013, 7, 919-924.	31.4	108
45	Observation of Topological Phase Transitions in Photonic Quasicrystals. Physical Review Letters, 2013, 110, 076403.	7.8	266
46	Anderson localization of light. Nature Photonics, 2013, 7, 197-204.	31.4	589
47	Beam steering via peak power decay in nonlinear waveguide arrays. New Journal of Physics, 2013, 15, 093038.	2.9	2
48	Sparsity-based super-resolution and phase-retrieval in waveguide arrays. Optics Express, 2013, 21, 24015.	3.4	14
49	Polarization control of multiply scattered light through random media by wavefront shaping. Optics Letters, 2012, 37, 4663.	3.3	80
50	Spectral control of broadband light through random media by wavefront shaping. Optics Letters, 2012, 37, 3429.	3.3	56
51	Two photon frequency conversion. Optics Express, 2012, 20, 3613.	3.4	29
52	Spatiotemporal focusing through a thin scattering layer. Optics Express, 2012, 20, 5189.	3.4	16
53	Standoff detection via single-beam spectral notch filtered pulses. Applied Physics Letters, 2012, 100, 051111.	3.3	25
54	Quantum control of photodissociation by manipulation of bond softening. Physical Review A, 2012, 86, .	2.5	32

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55	Quantum walk of two interacting bosons. <i>Physical Review A</i> , 2012, 86, .	2.5	84
56	Two-Photon Path-Entangled States in Multimode Waveguides. <i>Physical Review Letters</i> , 2012, 108, 153602.	7.8	19
57	Sub-Rayleigh Lithography Using High Flux Loss-Resistant Entangled States of Light. <i>Physical Review Letters</i> , 2012, 109, 103602.	7.8	7
58	Looking around corners and through thin turbid layers in real time with scattered incoherent light. <i>Nature Photonics</i> , 2012, 6, 549-553.	31.4	462
59	Anderson Localization of Light. <i>Series in Optics and Optoelectronics</i> , 2012, , 171-196.	0.0	1
60	Pythagorean coupling: Complete population transfer in a four-state system. <i>Physical Review A</i> , 2011, 84, .	2.5	17
61	Single-pulse stimulated Raman scattering spectroscopy. <i>Optics Letters</i> , 2011, 36, 1248.	3.3	30
62	Controlled Spatiotemporal Focusing Through Turbid Media. , 2011, , .		0
63	Focusing and compression of ultrashort pulses through scattering media. <i>Nature Photonics</i> , 2011, 5, 372-377.	31.4	429
64	Berezinskii-Kosterlitz-Thouless crossover in a photonic lattice. <i>Physical Review A</i> , 2011, 83, .	2.5	16
65	Photon correlations in multimode waveguides. <i>Physical Review A</i> , 2011, 84, .	2.5	8
66	Experimental Observation of Topological States and Adiabatic Pumping in 1D Photonic Quasicrystals. , 2011, , .		0
67	Quantum Correlations in Two-Particle Anderson Localization. <i>Physical Review Letters</i> , 2010, 105, 163905.	7.8	153
68	High-NOON States by Mixing Quantum and Classical Light. <i>Science</i> , 2010, 328, 879-881.	12.6	474
69	Strong-field spatiotemporal ultrafast coherent control in three-level atoms. <i>Physical Review A</i> , 2010, 81, .	2.5	22
70	Tracing the photodissociation probability of H_2 in intense fields using chirped laser pulses. <i>Physical Review A</i> , 2010, 81, .	2.5	7
71	Bloch Oscillations of Path-Entangled Photons. <i>Physical Review Letters</i> , 2010, 105, 263604.	7.8	58
72	Quantum Inspired Imaging with Compressive Sensing. , 2010, , .		0

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73	Quantum Walks of Correlated Photons. Science, 2010, 329, 1500-1503.	12.6	749
74	Single-beam coherent Raman spectroscopy and microscopy via spectral notch shaping. Optics Express, 2010, 18, 22693.	3.4	44
75	Tunable upconverted optical parametric oscillator with intracavity adiabatic sum-frequency generation. Optics Letters, 2010, 35, 1590.	3.3	14
76	Compressive Fourier Transform Spectroscopy. , 2010, , .		6
77	Universal Correlations in a Nonlinear Periodic 1D System. Physical Review Letters, 2009, 102, 233904.	7.8	34
78	Compressive ghost imaging. Applied Physics Letters, 2009, 95, .	3.3	757
79	Quantum and Classical Correlations in Waveguide Lattices. Physical Review Letters, 2009, 102, 253904.	7.8	261
80	Robust adiabatic sum frequency conversion. Optics Express, 2009, 17, 12731.	3.4	99
81	Spatio-temporal X-wave. Optics Express, 2009, 17, 18659.	3.4	10
82	Quantum Coherent Control for Nonlinear Spectroscopy and Microscopy. Annual Review of Physical Chemistry, 2009, 60, 277-292.	10.8	228
83	Ghost imaging with a single detector. Physical Review A, 2009, 79, .	2.5	591
84	Discrete solitons in optics. Physics Reports, 2008, 463, 1-126.	25.6	990
85	Multiple breakup of high-order spatial solitons. Optics Letters, 2008, 33, 2830.	3.3	17
86	Anderson Localization and Nonlinearity in One-Dimensional Disordered Photonic Lattices. Physical Review Letters, 2008, 100, 013906.	7.8	774
87	Realization of Quantum Walks with Negligible Decoherence in Waveguide Lattices. Physical Review Letters, 2008, 100, 170506.	7.8	423
88	Geometrical representation of sum frequency generation and adiabatic frequency conversion. Physical Review A, 2008, 78, .	2.5	139
89	Anderson localization and nonlinearity in one dimensional disordered waveguide arrays. , 2007, , JMB6.		0
90	Spectral polarization and spectral phase control of time-energy entangled photons. Physical Review A, 2007, 75, .	2.5	29

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91	Temporally focused pulses and coherent control for nonlinear microscopy. , 2007, , .		0
92	Phase and amplitude pulse shaping with two-dimensional phase-only spatial light modulators. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2940.	2.1	62
93	Broadband sum-frequency generation as an efficient two-photon detector for optical tomography. Optics Express, 2007, 15, 8760.	3.4	21
94	Discrete X-Wave Formation in Nonlinear Waveguide Arrays. Physical Review Letters, 2007, 98, 023901.	7.8	57
95	Anderson localization, wave diffusion and the effect of nonlinearity in randomized photonic lattices. , 2007, , .		0
96	Nonlinear tuning of the superprism effect near photonic band edges. , 2006, , .		0
97	Design of a high-power continuous source of broadband down-converted light. Physical Review A, 2006, 74, .	2.5	11
98	Excitation of discrete X-waves in nonlinear waveguide arrays. , 2006, , .		0
99	Full control of the spectral polarization of ultrashort pulses. Optics Letters, 2006, 31, 631.	3.3	91
100	Effects of linear modes on the evolution of discrete solitons. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 62.	2.1	4
101	Generation of a dark nonlinear focus by spatio-temporal coherent control. Optics Communications, 2006, 264, 482-487.	2.1	24
102	Discrete nonlinear X-waves in waveguide arrays. , 2006, , .		0
103	All-optical tuning of the superprism effect near band edges of nonlinear waveguide arrays. , 2006, , .		0
104	Observation of discrete nonlinear X-waves. , 2006, , .		0
105	Nonlinear Temporal Focusing Microscopy. , 2006, , .		0
106	Simple Route to Strong-Field Coherent Control. Physical Review Letters, 2005, 94, 083002.	7.8	70
107	Nonlinear Interactions with an Ultrahigh Flux of Broadband Entangled Photons. Physical Review Letters, 2005, 94, 043602.	7.8	186
108	Efficient polarization gating of high-order harmonic generation by polarization-shaped ultrashort pulses. Physical Review A, 2005, 72, .	2.5	43

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109	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.	2.1	6
110	Harmonic generation with temporally focused ultrashort pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 2660.	2.1	34
111	Scanningless depth-resolved microscopy. <i>Optics Express</i> , 2005, 13, 1468.	3.4	440
112	Polarization dependent properties of waveguide arrays: band-structure anomaly and high-band localizations. <i>Optics Express</i> , 2005, 13, 1762.	3.4	8
113	Spatiotemporal coherent control using shaped, temporally focused pulses. <i>Optics Express</i> , 2005, 13, 9903.	3.4	78
114	Improved depth resolution in video-rate line-scanning multiphoton microscopy using temporal focusing. <i>Optics Letters</i> , 2005, 30, 1686.	3.3	150
115	Ground-state selection and modal cooling in a nonlinear waveguide. , 2005, , .		0
116	Enhanced nonlinear beam steering near band-edges of waveguide arrays. , 2005, , .		0
117	Quantum Control of the Angular Momentum Distribution in Multiphoton Absorption Processes. <i>Physical Review Letters</i> , 2004, 92, 103003.	7.8	69
118	All-optical processing in coherent nonlinear spectroscopy. <i>Physical Review A</i> , 2004, 70, .	2.5	28
119	Quantum control with a twist. <i>Nature</i> , 2004, 430, 624-625.	27.8	31
120	Two Photon Absorption and Coherent Control with Broadband Down-Converted Light. <i>Physical Review Letters</i> , 2004, 93, 023005.	7.8	201
121	Third-harmonic generation with cylindrical Gaussian beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1964.	2.1	16
122	Quantum lithography by coherent control of classical light pulses. <i>Optics Express</i> , 2004, 12, 6600.	3.4	60
123	Observation of discrete gap solitons in binary waveguide arrays. <i>Optics Letters</i> , 2004, 29, 2890.	3.3	59
124	Depth-resolved structural imaging by third-harmonic generation microscopy. <i>Journal of Structural Biology</i> , 2004, 147, 3-11.	2.8	96
125	Observation of discrete gap solitons in binary waveguide arrays. , 2004, , .		0
126	Discretizing light behaviour in linear and nonlinear waveguide lattices. <i>Nature</i> , 2003, 424, 817-823.	27.8	1,500

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127	Femtosecond Phase-and-Polarization Control for Background-Free Coherent Anti-Stokes Raman Spectroscopy. <i>Physical Review Letters</i> , 2003, 90, 213902.	7.8	217
128	Depth-resolved multiphoton polarization microscopy by third-harmonic generation. <i>Optics Letters</i> , 2003, 28, 2315.	3.3	49
129	Single-pulse coherent anti-Stokes Raman spectroscopy in the fingerprint spectral region. <i>Journal of Chemical Physics</i> , 2003, 118, 9208-9215.	3.0	119
130	Narrow-Band Coherent Anti-Stokes Raman Signals from Broad-Band Pulses. <i>Physical Review Letters</i> , 2002, 88, 063004.	7.8	144
131	Quantum control of coherent anti-Stokes Raman processes. <i>Physical Review A</i> , 2002, 65, .	2.5	123
132	Optical discrete solitons in waveguide arrays 2 Dynamic properties. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 2637.	2.1	102
133	Single-Pulse Phase-Contrast Nonlinear Raman Spectroscopy. <i>Physical Review Letters</i> , 2002, 89, 273001.	7.8	129
134	Single-pulse coherently controlled nonlinear Raman spectroscopy and microscopy. <i>Nature</i> , 2002, 418, 512-514.	27.8	686
135	Coherent Transient Enhancement of Optically Induced Resonant Transitions. <i>Physical Review Letters</i> , 2002, 88, 123004.	7.8	96
136	Physics at the attosecond frontier. <i>Nature</i> , 2001, 414, 494-495.	27.8	35
137	Transform-Limited Pulses Are Not Optimal for Resonant Multiphoton Transitions. <i>Physical Review Letters</i> , 2001, 86, 47-50.	7.8	254
138	Coherent quantum control of multiphoton transitions by shaped ultrashort optical pulses. <i>Physical Review A</i> , 1999, 60, 1287-1292.	2.5	319
139	Laser scanning third-harmonic-generation microscopy in biology. <i>Optics Express</i> , 1999, 5, 169.	3.4	304
140	Kerr Spatio-Temporal Focusing in a Planar Glass Waveguide. , 1999, , .		0
141	Coherent quantum control of two-photon transitions by a femtosecond laser pulse. <i>Nature</i> , 1998, 396, 239-242.	27.8	696
142	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.	2.1	49
143	NUMERICAL SIMULATIONS OF LIGHT BULLETS, USING THE FULL VECTOR, TIME DEPENDENT, NONLINEAR MAXWELL EQUATIONS. , 1995, , .		2
144	SELF-INDUCED WAVEGUIDES: SPATIAL OPTICAL SOLITONS. , 1992, , 143-157.		3

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145	Collapse of optical pulses. Optics Letters, 1990, 15, 1282.	3.3	752
146	Response to "Comment on "Nonlinear coupling of waveguide modes" [Appl. Phys. Lett. 51, 1645 (1987)]. Applied Physics Letters, 1987, 51, 1645-1645.	3.3	0
147	Nonlinear coupling of waveguide modes. Applied Physics Letters, 1987, 50, 801-803.	3.3	121