

David Novoa

List of Publications by Year in descending order

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54
papers

800
citations

430442

18
h-index

525886

27
g-index

54
all docs

54
docs citations

54
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of anti-crossings with cladding resonances on ultrafast nonlinear dynamics in gas-filled photonic crystal fibers. <i>Photonics Research</i> , 2018, 6, 84.	3.4	67
2	Generation of broadband mid-IR and UV light in gas-filled single-ring hollow-core PCF. <i>Optics Express</i> , 2017, 25, 7637.	1.7	65
3	Seven-octave high-brightness and carrier-envelope-phase-stable light source. <i>Nature Photonics</i> , 2021, 15, 277-280.	15.6	57
4	Mid-infrared dispersive wave generation in gas-filled photonic crystal fibre by transient ionization-driven changes in dispersion. <i>Nature Communications</i> , 2017, 8, 813.	5.8	51
5	Coherent atomic soliton molecules for matter-wave switching. <i>Physical Review A</i> , 2011, 83, .	1.0	38
6	Photoionization-Induced Emission of Tunable Few-Cycle Midinfrared Dispersive Waves in Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2015, 115, 033901.	2.9	35
7	Supersolitons: Solitonic Excitations in Atomic Soliton Chains. <i>Physical Review Letters</i> , 2008, 101, 144101.	2.9	31
8	Selective excitation of higher order modes in hollow-core PCF via prism-coupling. <i>Optics Letters</i> , 2014, 39, 3736.	1.7	29
9	Resolving the mystery of milliwatt-threshold opto-mechanical self-oscillation in dual-nanoweb fiber. <i>APL Photonics</i> , 2016, 1, .	3.0	27
10	UV Soliton Dynamics and Raman-Enhanced Supercontinuum Generation in Photonic Crystal Fiber. <i>ACS Photonics</i> , 2018, 5, 2426-2430.	3.2	25
11	Fermionic Light in Common Optical Media. <i>Physical Review Letters</i> , 2010, 105, 203904.	2.9	24
12	Broadband-tunable LP ₀₁ mode frequency shifting by Raman coherence waves in a H ₂ -filled hollow-core photonic crystal fiber. <i>Optica</i> , 2015, 2, 536.	4.8	24
13	Dramatic Raman Gain Suppression in the Vicinity of the Zero Dispersion Point in a Gas-Filled Hollow-Core Photonic Crystal Fiber. <i>Physical Review Letters</i> , 2015, 115, 243901.	2.9	23
14	Multistability and spontaneous breaking in pulse-shape symmetry in fiber ring cavities. <i>Optics Express</i> , 2014, 22, 3045.	1.7	22
15	Generation of a vacuum ultraviolet to visible Raman frequency comb in H ₂ -filled kagomé photonic crystal fiber. <i>Optics Letters</i> , 2016, 41, 2811.	1.7	22
16	Broadband and tunable time-resolved THz system using argon-filled hollow-core photonic crystal fiber. <i>APL Photonics</i> , 2018, 3, .	3.0	22
17	Pressure, Surface Tension, and Dripping of Self-Trapped Laser Beams. <i>Physical Review Letters</i> , 2009, 103, 023903.	2.9	20
18	Self-induced mode mixing of ultraintense lasers in vacuum. <i>Physical Review A</i> , 2014, 90, .	1.0	18

#	ARTICLE	IF	CITATIONS
19	Sub-40â€‰fs pulses at 1.8â€‰ μ m and MHz repetition rates by chirp-assisted Raman scattering in hydrogen-filled hollow-core fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3550.	0.9	18
20	Fresnel-Reflection-Free Self-Aligning Nanospine Interface between a Step-Index Fiber and a Hollow-Core Photonic-Crystal-Fiber Gas Cell. <i>Physical Review Applied</i> , 2017, 8, .	1.5	16
21	Enhanced Control of Transient Raman Scattering Using Buffered Hydrogen in Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2017, 119, 253903.	2.9	16
22	Thresholdless deep and vacuum ultraviolet Raman frequency conversion in hydrogen-filled photonic crystal fiber. <i>Optica</i> , 2019, 6, 731.	4.8	15
23	Tunable and state-preserving frequency conversion of single photons in hydrogen. <i>Science</i> , 2022, 376, 621-624.	6.0	15
24	Universality of Coherent Raman Gain Suppression in Gas-Filled Broadband-Guiding Photonic Crystal Fibers. <i>Physical Review Applied</i> , 2017, 7, .	1.5	14
25	Efficient self-compression of ultrashort near-UV pulses in air-filled hollow-core photonic crystal fibers. <i>Optics Express</i> , 2021, 29, 13787.	1.7	14
26	Supercontinuum up-conversion via molecular modulation in gas-filled hollow-core PCF. <i>Optics Express</i> , 2014, 22, 20566.	1.7	12
27	The key role of off-axis singularities in free-space vortex transmutation. <i>Applied Physics B: Lasers and Optics</i> , 2014, 116, 779-783.	1.1	9
28	Dominance of backward stimulated Raman scattering in gas-filled hollow-core photonic crystal fibers. <i>Optica</i> , 2018, 5, 570.	4.8	8
29	Polarization-Tailored Raman Frequency Conversion in Chiral Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2019, 122, 143902.	2.9	8
30	Robust excitation and Raman conversion of guided vortices in a chiral gas-filled photonic crystal fiber. <i>Optics Letters</i> , 2020, 45, 1766.	1.7	7
31	Filamentation processes and dynamical excitation of light condensates in optical media with competing nonlinearities. <i>Physical Review A</i> , 2010, 81, .	1.0	6
32	Coherent control of flexural vibrations in dual-nanoweb fibers using phase-modulated two-frequency light. <i>Physical Review A</i> , 2017, 96, .	1.0	6
33	Non-quantum liquefaction of coherent gases. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1490-1495.	1.3	4
34	Ultrasolitons: Multistability and subcritical power threshold from higher-order Kerr terms. <i>Europhysics Letters</i> , 2012, 98, 44003.	0.7	4
35	Measuring Extreme Vacuum Pressure with Ultraintense Lasers. <i>Physical Review Letters</i> , 2012, 109, 253903.	2.9	4
36	Dynamical generation of interwoven soliton trains by nonlinear emission in binary Bose-Einstein condensates. <i>Physical Review A</i> , 2013, 88, .	1.0	4

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37	Specialty Photonic Crystal Fibers and Their Applications. Crystals, 2021, 11, 739.	1.0	4
38	Quantum Vacuum Polarization Searches with High Power Lasers Below the Pair Production Regime. Springer Series in Chemical Physics, 2014, , 137-153.	0.2	4
39	Narrowband Vacuum Ultraviolet Light via Cooperative Raman Scattering in Dual-Pumped Gas-Filled Photonic Crystal Fiber. ACS Photonics, 2020, 7, 1989-1993.	3.2	3
40	Continuous atom laser with Bose-Einstein condensates involving three-body interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 105302.	0.6	2
41	Optimized photonic gauge of extreme high vacuum with Petawatt lasers. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 065601.	0.6	2
42	Modulational instability windows in the nonlinear Schrödinger equation involving higher-order Kerr responses. Physical Review E, 2015, 91, 012904.	0.8	2
43	Coherent Raman Gain Suppression in a Gas-Filled Hollow-Core PCF Pumped in the Deep Ultraviolet. , 2016, , .		1
44	Optical traps and anti-traps for glass nanoplates in hollow waveguides. Optics Express, 2019, 27, 17708.	1.7	1
45	Seven-octave Ultra-bright Pulse Generation. , 2021, , .		1
46	Z-scan measurement of the nonlinear response of new materials by using a high-repetition-rate femtosecond laser. Proceedings of SPIE, 2011, , .	0.8	0
47	Characterization of the thermal refraction in ionic liquids induced by a train of femtosecond laser pulses. Proceedings of SPIE, 2013, , .	0.8	0
48	Coherent intramodal Raman gain suppression at high pump intensities in gas-filled photonic crystal fibres. , 2017, , .		0
49	Quantum-Correlation-Preserving Single-Photon Conversion by Molecular Modulation in Gas-filled Hollow-Core Fibres. , 2021, , .		0
50	Spectrally resolved shot-to-shot nonlinear dynamics of a passive PCF ring cavity. , 2014, , .		0
51	Photoionization-Induced Emission of Mid-IR Dispersive Waves in Gas-Filled Photonic Crystal Fibers. , 2016, , .		0
52	Narrowband VUV Light by Molecular Modulation in Dual- Pumped H2-filled Hollow-Core Photonic Crystal Fiber. , 2020, , .		0
53	340 - 40,000 nm coherent light source. , 2021, , .		0
54	Harnessing Multi-Octave Coherent Light Using Anti-Resonant Fibers. , 2022, , .		0