

# Anton Husakou

## List of Publications by Year in descending order

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88  
papers

3,344  
citations

172457

29  
h-index

138484

58  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2223  
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercontinuum Generation of Higher-Order Solitons by Fission in Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2001, 87, 203901.	7.8	669
2	Experimental Evidence for Supercontinuum Generation by Fission of Higher-Order Solitons in Photonic Fibers. <i>Physical Review Letters</i> , 2002, 88, 173901.	7.8	465
3	Tailoring terahertz radiation by controlling tunnel photoionization events in gases. <i>New Journal of Physics</i> , 2011, 13, 123029.	2.9	168
4	Supercontinuum generation, four-wave mixing, and fission of higher-order solitons in photonic-crystal fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 2171.	2.1	165
5	Theory of plasmon-enhanced high-order harmonic generation in the vicinity of metal nanostructures in noble gases. <i>Physical Review A</i> , 2011, 83, .	2.5	139
6	Multi-meter fiber-delivery and pulse self-compression of milli-Joule femtosecond laser and fiber-aided laser-micromachining. <i>Optics Express</i> , 2014, 22, 10735.	3.4	120
7	Spatial distribution of refractive index variations induced in bulk fused silica by single ultrashort and short laser pulses. <i>Journal of Applied Physics</i> , 2007, 101, 043506.	2.5	102
8	Boosting Terahertz Generation in Laser-Field Ionized Gases Using a Sawtooth Wave Shape. <i>Physical Review Letters</i> , 2015, 114, 183901.	7.8	87
9	Supercontinuum generation in photonic crystal fibers made from highly nonlinear glasses. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 227-234.	2.2	80
10	Flipping the sign of refractive index changes in ultrafast and temporally shaped laser-irradiated borosilicate crown optical glass at high repetition rates. <i>Physical Review B</i> , 2008, 77, .	3.2	79
11	Linear and nonlinear optical characteristics of composites containing metal nanoparticles with different sizes and shapes. <i>Optics Express</i> , 2010, 18, 7488.	3.4	76
12	Two-octave supercontinuum generation in a water-filled photonic crystal fiber. <i>Optics Express</i> , 2010, 18, 6230.	3.4	74
13	Steplike Transmission of Light through a Metal-Dielectric Multilayer Structure due to an Intensity-Dependent Sign of the Effective Dielectric Constant. <i>Physical Review Letters</i> , 2007, 99, 127402.	7.8	68
14	Transient response of dielectric materials exposed to ultrafast laser radiation. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 413-422.	2.3	65
15	Polarization gating and circularly-polarized high harmonic generation using plasmonic enhancement in metal nanostructures. <i>Optics Express</i> , 2011, 19, 25346.	3.4	59
16	Supercontinuum generation in liquid-filled photonic crystal fiber with slow nonlinear response. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1763.	2.1	58
17	Carrier-envelope phase stabilization with sub-10 as residual timing jitter. <i>Optics Letters</i> , 2011, 36, 4146.	3.3	57
18	Sub-4 fs laser pulses at high average power and high repetition rate from an all-solid-state setup. <i>Optics Express</i> , 2018, 26, 8941.	3.4	53

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19	Origin of strong-field-induced low-order harmonic generation in amorphous quartz. <i>Nature Physics</i> , 2020, 16, 1035-1039.	16.7	51
20	Characterization of a nonlinear filter for the front-end of a high contrast double-CPA Ti:sapphire laser. <i>Optics Express</i> , 2004, 12, 5088.	3.4	50
21	High-harmonic and single attosecond pulse generation using plasmonic field enhancement in ordered arrays of gold nanoparticles with chirped laser pulses. <i>Optics Express</i> , 2013, 21, 2195.	3.4	50
22	High-power fifth-harmonic generation of femtosecond pulses in the vacuum ultraviolet using a Ti:sapphire laser. <i>Optics Express</i> , 2007, 15, 6389.	3.4	41
23	Guiding properties and dispersion control of kagome lattice hollow-core photonic crystal fibers. <i>Optics Express</i> , 2009, 17, 13050.	3.4	37
24	Supercontinuum generation in aqueous colloids containing silver nanoparticles. <i>Optics Letters</i> , 2009, 34, 2132.	3.3	35
25	Coherence of subsequent supercontinuum pulses generated in tapered fibers in the femtosecond regime. <i>Optics Express</i> , 2007, 15, 2732.	3.4	33
26	Saturable absorption in composites doped with metal nanoparticles. <i>Optics Express</i> , 2010, 18, 21918.	3.4	33
27	High-power soliton-induced supercontinuum generation and tunable sub-10-fs VUV pulses from kagome-lattice HC-PCFs. <i>Optics Express</i> , 2010, 18, 5367.	3.4	32
28	Frequency comb generation by four-wave mixing in a multicore photonic crystal fiber. <i>Applied Physics Letters</i> , 2003, 83, 3867-3869.	3.3	29
29	Frequency-selective self-trapping and supercontinuum generation in arrays of coupled nonlinear waveguides. <i>Optics Express</i> , 2007, 15, 11978.	3.4	29
30	Terahertz and higher-order Brunel harmonics: from tunnel to multiphoton ionization regime in tailored fields. <i>Journal of Modern Optics</i> , 2017, 64, 1078-1087.	1.3	28
31	Low-threshold supercontinuum generation in glasses doped with silver nanoparticles. <i>Optics Express</i> , 2009, 17, 17989.	3.4	27
32	Supercontinuum generation in planar rib waveguides enabled by anomalous dispersion. <i>Optics Express</i> , 2006, 14, 1512.	3.4	20
33	Plasma formation and relaxation dynamics in fused silica driven by femtosecond short-wavelength infrared laser pulses. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	20
34	Superfocusing of light below the diffraction limit by photonic crystals with negative refraction. <i>Optics Express</i> , 2004, 12, 6491.	3.4	18
35	Slow light in dielectric composite materials of metal nanoparticles. <i>Optics Express</i> , 2012, 20, 25790.	3.4	17
36	Quasi-phase-matched high-harmonic generation in composites of metal nanoparticles and a noble gas. <i>Physical Review A</i> , 2014, 90, .	2.5	17

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37	Application of mid-infrared pulses for quasi-phase-matching of high-order harmonics in silver plasma. Optics Express, 2016, 24, 3414.	3.4	17
38	Strong nonlinear optical effects in micro-confined atmospheric air. Photonics Research, 2019, 7, 1134.	7.0	13
39	Supercontinuum generation in a two-dimensional photonic kagome crystal. Applied Physics B: Lasers and Optics, 2005, 81, 209-217.	2.2	12
40	All-optical attoclock for imaging tunnelling wavepackets. Nature Physics, 2022, 18, 417-422.	16.7	12
41	Soliton delivery of few-cycle optical gigawatt pulses in Kagome-lattice hollow-core photonic crystal fibers. Physical Review A, 2010, 82, .	2.5	10
42	High-order harmonic generation employing field enhancement by metallic fractal rough surfaces. Optics Express, 2011, 19, 20910.	3.4	10
43	Femtosecond Field-Driven On-Chip Unidirectional Electronic Currents in Nonadiabatic Tunneling Regime. Laser and Photonics Reviews, 2021, 15, 2000475.	8.7	10
44	High-power, high-coherence supercontinuum generation in dielectric-coated metallic hollow waveguides. Optics Express, 2009, 17, 12481.	3.4	9
45	Theory of plasmonic femtosecond pulse generation by mode-locking of long-range surface plasmon polariton lasers. Optics Express, 2012, 20, 462.	3.4	9
46	Combined action of the bound-electron nonlinearity and the tunnel-ionization current in low-order harmonic generation in noble gases. Optics Express, 2013, 21, 25582.	3.4	9
47	Focusing of Scanning Light Beams below the Diffraction Limit without Near-Field Spatial Control Using a Saturable Absorber and a Negative-Refractive Material. Physical Review Letters, 2006, 96, 013902.	7.8	8
48	Nonlinearity of surface-plasmon polaritons in sub-wavelength metal nanowires. Optics Express, 2016, 24, 6162.	3.4	8
49	Characterization of Laser-Induced Ionization Dynamics in Solid Dielectrics. ACS Photonics, 2022, 9, 233-240.	6.6	8
50	Dispersion control in ultrabroadband dielectric-coated metallic hollow waveguides. Optics Express, 2008, 16, 3834.	3.4	7
51	Soliton-effect pulse compression in the single-cycle regime in broadband dielectric-coated metallic hollow waveguides. Optics Express, 2009, 17, 17636.	3.4	7
52	Subdiffraction focusing of scanning beams by a negative-refraction layer combined with a nonlinear layer. Optics Express, 2006, 14, 11194.	3.4	6
53	2.6 mJ energy and 81 GW peak power femtosecond laser-pulse delivery and spectral broadening in inhibited coupling Kagome fiber. , 2015, , .		6
54	Raman gas self-organizing into deep nano-trap lattice. Nature Communications, 2016, 7, 12779.	12.8	5

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55	On-target diagnosing of few-cycle pulses by high-order-harmonic generation. <i>Physical Review A</i> , 2017, 96, .	2.5	4
56	Generation and compression of femtosecond pulses in the vacuum ultraviolet by chirped-pulse four-wave difference-frequency mixing. , 2006, , .		3
57	Pulse compression and pedestal suppression by self-similar propagation in nonlinear optical loop mirror. <i>Optics Communications</i> , 2020, 474, 126083.	2.1	3
58	Non-instantaneous third-order optical response of gases in low-frequency fields. <i>Optics Express</i> , 2022, 30, 23579.	3.4	3
59	Superfocusing of optical beams below the diffraction limit by media with negative refraction. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3862-3877.	1.8	2
60	Designing laser-induced refractive index changes in "thermal" glasses. , 2008, , .		2
61	Chirped multilayer hollow waveguides with broadband transmission. , 2009, , .		2
62	All-optical delay of images by backward four-wave mixing in metal-nanoparticle composites. <i>Physical Review A</i> , 2013, 87, .	2.5	2
63	Milli-Joule energy-level comb and supercontinuum generation in atmospheric air-filled inhibited coupling Kagome fiber. , 2015, , .		2
64	Symmetry Breaking and Strong Persistent Plasma Currents via Resonant Destabilization of Atoms. <i>Physical Review Letters</i> , 2017, 119, 243202.	7.8	2
65	High Harmonic Generation Assisted by Metal Nanostructures and Nanoparticles. <i>Nano-optics and Nanophotonics</i> , 2015, , 251-268.	0.2	1
66	Propagator operator for pulse propagation in resonant media. <i>Optics Express</i> , 2021, 29, 29128.	3.4	1
67	Supercontinuum generation in highly nonlinear photonic crystal fibers. , 0, , .		0
68	Superfocusing of light beams below the diffraction limit by photonic crystals with negative refraction. , 0, , .		0
69	<title>Dispersion modification and supercontinuum formation in planar rib waveguide structures</title>. , 2006, , .		0
70	Subdiffraction focusing of scanning beams by combined nonlinear and negative-refraction layers. , 2006, , .		0
71	Generation of Supercontinuum in a Waveguide with Slow Nonlinearity Related to Shock Formation. , 2007, , .		0
72	All-optical bistable switching in a metal-dielectric multilayer structure due to intensity-dependent sign of the effective dielectric constant. , 2007, , .		0

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73	All-optical bistable switching in a metal-dielectric multilayer structure due to intensity-dependent sign of the effective dielectric constant. , 2007, , .		0
74	Coherence preservation in supercontinuum generation in hollow waveguides due to contribution from plasma. , 2009, , .		0
75	Supercontinuum generation in aqueous colloids with silver nanoparticles inclusions. , 2009, , .		0
76	Soliton pulse compression in the single-cycle regime in dielectric-coated metallic hollow waveguides. , 2009, , .		0
77	Two-octave supercontinuum generation in a liquid-core photonic crystal fiber. , 2010, , .		0
78	Generation of 5-fs Pulses Tunable from 400 to 120 nm by Kagome-Lattice Hollow-Core PCF. , 2010, , .		0
79	The contribution of reorientational nonlinearity of CS <sub>2</sub> liquid in supercontinuum generation. , 2010, , .		0
80	Polarization gating for high-harmonic generation in the vicinity of metal nanostructures. , 2011, , .		0
81	Spatiotemporal dynamics of Raman coherence in hydrogen-filled hollow core photonic crystal fibers. , 2011, , .		0
82	High harmonic generation assisted by the field enhancement near rough metallic surface. , 2011, , .		0
83	Ultrafast Nonlinear Optical Effects of Metal Nanoparticles Composites. , 0, , .		0
84	Quasi-phase-matched high harmonic generation in corrugated micrometer-scale waveguides. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 137.	2.1	0
85	Unidirectional electronic currents in asymmetric nanojunctions driven by strong optical fields. , 2021, , .		0
86	Supercontinuum Generation and Superfocusing in Microstructure Fibers, Hollow Waveguides and Photonic Crystals. , 2005, , .		0
87	Generation of ultrahigh-power supercontinua and self-compressed single-cycle pulses in metal-dielectric hollow waveguides. , 2008, , .		0
88	Subcycle dynamics of ionization revealed via polarization of lowest harmonics. , 2019, , .		0