Yuriy Stepanenko

List of Publications by Year in descending order

75 papers	2,043 citations	304743 22 h-index	233421 45 g-index
76 all docs	76 docs citations	76 times ranked	2387 citing authors

#	Article	IF	Citations
1	Understanding Strong Two-Photon Absorption in Ï€-Conjugated Porphyrin Dimers via Double-Resonance Enhancement in a Three-Level Model. Journal of the American Chemical Society, 2004, 126, 15352-15353.	13.7	267
2	Extremely Strong Near-IR Two-Photon Absorption in Conjugated Porphyrin Dimers:Â Quantitative Description with Three-Essential-States Model. Journal of Physical Chemistry B, 2005, 109, 7223-7236.	2.6	258
3	Strong Cooperative Enhancement of Two-Photon Absorption in Double-Strand Conjugated Porphyrin Ladder Arrays. Journal of the American Chemical Society, 2006, 128, 12432-12433.	13.7	194
4	Strong Two-Photon Absorption in New Asymmetrically Substituted Porphyrins:Â Interference between Charge-Transfer and Intermediate-Resonance Pathways. Journal of Physical Chemistry B, 2006, 110, 9802-9814.	2.6	161
5	Simple all-PM-fiber laser mode-locked with a nonlinear loop mirror. Optics Letters, 2015, 40, 3500.	3.3	109
6	High-accuracy reference standards for two-photon absorption in the 680â€“1050 nm wavelength range. Optics Express, 2016, 24, 9053.	3.4	89
7	Phenylene Vinylene Platinum(II) Acetylides with Prodigious Two-Photon Absorption. Journal of the American Chemical Society, 2012, 134, 19346-19349.	13.7	85
8	Ultrafast laser mode-locked using nonlinear polarization evolution in polarization maintaining fibers. Optics Letters, 2017, 42, 575.	3.3	84
9	Symmetry Breaking in Platinum Acetylide Chromophores Studied by Femtosecond Two-Photon Absorption Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 3749-3759.	2.5	71
10	Proton tunnelling in porphycene seeded in a supersonic jet. Chemical Physics Letters, 1998, 296, 549-556.	2.6	65
11	Molecular Dynamics and DFT Studies of Intermolecular Hydrogen Bonds between Bifunctional Heteroazaaromatic Molecules and Hydroxylic Solvents. Journal of Physical Chemistry A, 2000, 104, 9542-9555.	2.5	55
12	Nonlinear polarization evolution of ultrashort pulses in polarization maintaining fibers. Optics Express, 2018, 26, 13590.	3.4	51
13	Near-infrared two-photon absorption in phthalocyanines: Enhancement of lowest gerade-gerade transition by symmetrical electron-accepting substitution. Journal of Chemical Physics, 2006, 124, 224701.	3.0	41
14	Low noise, self-referenced all polarization maintaining Ytterbium fiber laser frequency comb. Optics Express, 2017, 25, 18017.	3.4	41
15	Nonlinear refractive index measurement by SPM-induced phase regression. Optics Express, 2019, 27, 11018.	3.4	40
16	Ultra low-noise coherent supercontinuum amplification and compression below 100 fs in an all-fiber polarization-maintaining thulium fiber amplifier. Optics Express, 2019, 27, 35041.	3.4	34
17	Femtosecond transient fluorescence spectrometer based on parametric amplification. Applied Physics Letters, 2005, 86, 021909.	3.3	31
18	Primary Role of the Chromophore Bond Length Alternation in Reversible Photoconversion of Red Fluorescence Proteins. Scientific Reports, 2012, 2, 688.	3.3	30

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19	Ultrasensitive SERS platform made via femtosecond laser micromachining for biomedical applications. Journal of Materials Research and Technology, 2021, 12, 1496-1507.	5.8	28
20	High-gain multipass noncollinear optical parametric chirped pulse amplifier. Applied Physics Letters, 2005, 86, 211120.	3.3	26
21	Multi-terawatt chirped pulse optical parametric amplifier with a time-shear power amplification stage. Optics Express, 2009, 17, 15264.	3.4	23
22	The dynamics and origin of the unrelaxed fluorescence of free-base tetraphenylporphyrin. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 234, 100-106.	3.9	23
23	Multipass non-collinear optical parametric amplifier for femtosecond pulses. Optics Express, 2006, 14, 779.	3.4	22
24	Spectral compression of femtosecond pulses using chirped volume Bragg gratings. Optics Letters, 2016, 41, 2394.	3.3	22
25	Laser studies of pyridylindoles in supersonic jets. Chemical Physics Letters, 1999, 315, 87-94.	2.6	18
26	Mamyshev Oscillator With a Widely Tunable Repetition Rate. Journal of Lightwave Technology, 2021, 39, 574-581.	4.6	16
27	High gain broadband amplification of ultraviolet pulses in optical parametric chirped pulse amplifier. Optics Express, 2010, 18, 7911.	3.4	13
28	Energy Scaling of an Ultrafast All-PM-Fiber Laser Oscillator. IEEE Access, 2020, 8, 145087-145091.	4.2	13
29	Realâ€Time Observation of Doubleâ€Hopf Bifurcation in an Ultrafast Allâ€PM Fiber Laser. Laser and Photonics Reviews, 2022, 16, .	8.7	13
30	Fluorescence excitation and fluorescence spectra of jet-cooled phenanthridine and 7,8-benzoquinoline. Chemical Physics Letters, 2004, 399, 239-246.	2.6	12
31	Electronic spectroscopy and methyl internal rotation dynamics of 9,10-dimethylanthracene. Journal of Molecular Spectroscopy, 2005, 233, 15-22.	1.2	11
32	Optical and mass selective laser spectroscopy of 9-methylanthracene and 9-cyanoanthracene and their molecular microclusters. Journal of Molecular Structure, 1999, 480-481, 595-599.	3.6	10
33	Raman-induced pulse destabilization and bistability in an all-normal dispersion oscillator. Optics Letters, 2020, 45, 1563.	3.3	9
34	Quantum interference in organic solid. Optics Express, 2005, 13, 6033.	3.4	8
35	Diverse nature of femtosecond laser ablation of poly(L-lactide) and the influence of filamentation on the polymer crystallization behaviour. Scientific Reports, 2019, 9, 3069.	3.3	7
36	Soliton detuning of 685â€‰â€‰THz in the near-infrared in a highly nonlinear suspended core tellurite fiber. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1502.	2.1	7

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37	Studying the Operation of an All-PM Yb-Doped Fiber Laser Oscillator at Negative and Positive Net Cavity Dispersion. IEEE Access, 2022, 10, 45689-45694.	4.2	7
38	Noncollinear and nonlinear pulse propagation. Scientific Reports, 2018, 8, 14350.	3.3	6
39	S0 and S1 spectroscopy of jet cooled 9-cyano-10-methylanthracene: The methyl group as a molecular rotor. Journal of Molecular Spectroscopy, 2005, 233, 98-109.	1.2	5
40	Fluorescence Spectra of 7,8-Benzoquinoline Isolated in the Supersonic Jet Expansion - An Ab Initio Analysis. Acta Physica Polonica A, 2004, 106, 535-545.	0.5	5
41	Femtosecond pulse delivery around 1560â€‰â€‰nm in large-core inhibited-coupling fibers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3030.	2.1	5
42	Acidâ€“base properties of 3,5-dimethyl-1,7-diphenyl derivative of bis-pyrazolopyridine in non-aqueous solutions. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 180, 80-87.	3.9	3
43	Status of the Leopard Laser Project in Nevada Terawatt Facility. Journal of Fusion Energy, 2009, 28, 218-220.	1.2	3
44	Study on parameters of fiber loop mirrors as artificial saturable absorbers. Proceedings of SPIE, 2017, , .	0.8	3
45	On the efficiency of a multiterawatt optical parametric amplifier: numerical model and optimization. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2337.	2.1	2
46	Different mode-locking methods in high energy all-normal dispersion Yb femtosecond all-fiber lasers. , 2015, , .		2
47	Influence of the excitation light intensity on the rate of fluorescence quenching reactions: pulsed experiments. Physical Chemistry Chemical Physics, 2017, 19, 6274-6285.	2.8	2
48	Group Delay measurements of ultrabroadband pulses generated in highly nonlinear fibers. Photonics Letters of Poland, 2016, 8, 107.	0.4	2
49	First events in the coil-to-globule transition of PVME in water: An ultrafast temperature jump â€“ time-resolved elastic light scattering study. Journal of Colloid and Interface Science, 2022, 608, 2018-2024.	9.4	2
50	Quantum interference by femtosecond multi-photon absorption in conjugated dendrimers. , 2005, , .		1
51	Quantum interference between multi photon absorption pathways in organic solid. Journal of Luminescence, 2007, 127, 28-33.	3.1	1
52	Modifiedp-phenylene vinylene platinum (II) acetylides with enhanced two-photon absorption in solid host. Proceedings of SPIE, 2013, , .	0.8	1
53	Simple all-PM-fiber laser system seeded by an all-normal-dispersion oscillator mode-locked with a nonlinear optical loop mirror. , 2016, , .		1
54	Breathing dynamics in an ultrafast all-PM Yb-doped fiber laser. , 2021, , .		1

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55	12 nJ, 250 fs pulses from an all-PM-fiber laser oscillator. , 2021, , .		1
56	Fiber oscillator mode-locked using a novel scheme for Nonlinear Polarization Evolution in Polarization Maintaining fibers. , 2019, , .		1
57	Sub-160-fs pulses dechriped to its Fourier transform limit generated from the all-normal dispersion fiber oscillator. , 2016, , .		1
58	Stable Harmonic Mode Locking in all PM-Fiber Mamyshev Oscillator. , 2020, , .		1
59	<title>Parametric amplification of femtosecond pulses</title>. , 2006, 6599, 84.		0
60	Simple and efficient 2-TW Optical Parametric Chirped Pulse Amplifier. , 2009, , .		0
61	High gain broadband amplification of ultraviolet pulses using optical parametric chirped pulse amplifier. , 2010, , .		0
62	Efficiency optimization of the square pulse pumped terawatt level optical parametric chirped pulse amplifier. , 2011, , .		0
63	Experimental realization of nonlinear polarization evolution mode-locking in polarization maintaining fibers. , 2017, , .		0
64	Non-collinear pulse propagation and exotic phase-matching conditions. , 2017, , .		0
65	Direct Observation of Intracavity Pulse Dynamics in All-Normal Dispersion All-Fiber Oscillator. , 2019, , .		0
66	96 fs All-Fiber Polarization Maintaining Thulium Doped Amplifier Seeded by Coherent Supercontinuum. , 2019, , .		0
67	Understanding of ultrafast breathing-like dynamics in Ytterbium-doped fiber laser. , 2021, , .		0
68	Fluorescence Spectra of Phenanthridine Isolated in the Supersonic Jet Expansion - An Ab Initio Analysis. Acta Physica Polonica A, 2005, 108, 1005-1019.	0.5	0
69	Femtosecond fiber CPA system in a single pass configuration. Photonics Letters of Poland, 2014, 6, .	0.4	0
70	Ultrafast laser mode-locked using Nonlinear Polarization Evolution in Polarization Maintaining fibers. , 2017, , .		0
71	Modelling noncollinear 3D pulse propagation (Conference Presentation). , 2018, , .		0
72	All-fiber polarization maintaining Thulium doped amplifier seeded by coherent polarized supercontinuum. , 2019, , .		0

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73	Femtosecond pulse delivery around 1560 nm in large-core anti-resonant fibers. , 2020, , .		0
74	Tunable repetition rate in all PM-Fiber Mamyshev Oscillator. , 2020, , .		0
75	Low noise, self-referenced all polarization maintaining Ytterbium fiber laser frequency comb: erratum. Optics Express, 2020, 28, 37600.	3.4	0