

Olga Kocharovskaya

List of Publications by Year in descending order

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279701

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docs citations

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847
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Amplification of Attosecond Pulses in a Hydrogen-like Plasma-Based X-ray Laser Modulated by an Infrared Field at the Second Harmonic of Fundamental Frequency. Photonics, 2022, 9, 51.	0.9	2
2	Amplification of elliptically polarized sub-femtosecond pulses in neon-like X-ray laser modulated by an IR field. Scientific Reports, 2022, 12, 6204.	1.6	6
3	Acoustically induced transparency for synchrotron hard x-ray photons. Scientific Reports, 2021, 11, 7930.	1.6	6
4	Temporal and spectral control of the X-ray pulses in a resonant medium with a modulated transition frequency. , 2021, , .		0
5	Observation of Acoustically Induced Transparency for γ -Ray Photons. Physical Review Letters, 2020, 124, 163602.	2.9	12
6	Sub-fs pulse formation in a seeded hydrogenlike plasma-based x-ray laser dressed by an infrared field: Analytical theory and numerical optimization. Physical Review Research, 2020, 2, .	1.3	9
7	Attosecond-pulse formation in the water-window range by an optically dressed hydrogen-like plasma-based γ -ray laser. Physical Review A, 2020, 102, 013501.	1.0	6
8	Nuclear Quantum Memory and Time Sequencing of a Single γ Photon. Physical Review Letters, 2019, 123, 250504.	2.9	18
9	Attosecond Pulse Amplification in a Plasma-Based X-Ray Laser Dressed by an Infrared Laser Field. Physical Review Letters, 2019, 123, 243903.	2.9	19
10	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. Journal of Modern Optics, 2018, 65, 1261-1308.	0.6	6
11	Amplification of a train of attosecond pulses in active medium of a plasma-based x-ray laser dressed by an optical laser field. , 2018, , .		0
12	Ultimate capabilities for compression of the waveform of a recoilless γ -ray photon into a pulse sequence in an optically deep vibrating resonant absorber. Physical Review A, 2018, 98, .	1.0	9
13	Ultimate capabilities for few-cycle pulse formation via resonant interaction of XUV radiation with IR-field-dressed atoms. Physical Review A, 2017, 95, .	1.0	6
14	Formation and amplification of subfemtosecond x-ray pulses in a plasma medium of hydrogenlike ions with a modulated resonant transition. Physical Review A, 2017, 96, .	1.0	15
15	Quantum optics with X-rays. Nature Photonics, 2017, 11, 685-686.	15.6	12
16	Coherent forward scattering of γ -ray and XUV radiation in the medium with the modulated quasi-resonant transition. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 205602.	0.6	5
17	Formation of ultrashort pulses from quasimonochromatic XUV radiation via infrared-field-controlled forward scattering. Physical Review A, 2016, 94, .	1.0	4
18	Application of the low-finesse γ -ray frequency comb for high-resolution spectroscopy. Physical Review A, 2016, 94, .	1.0	7

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19	The Dawn of Quantum Biophotonics. , 2016, , 147-176.		3
20	Transformation of a single-photon field into bunches of pulses. Physical Review A, 2015, 92, .	1.0	27
21	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{\Gamma}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -ray-pulse formation in a vibrating recoilless resonant absorber. Physical Review A, 2015, 92, .	1.0	10
22	Conversion of recoilless $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{\Gamma}^3 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ radiation into a periodic sequence of short intense pulses in a set of several sequentially placed resonant absorbers. Physical Review A, 2015, 92, .	1.0	7
23	Attosecond pulse formation via switching of resonant interaction by tunnel ionization. Physical Review A, 2015, 91, .	1.0	8
24	All-optical quantum storage based on spatial chirp of the control field. Physical Review A, 2014, 90, .	1.0	15
25	Coherent control of the waveforms of recoilless $\hat{\Gamma}^3$ -ray photons. Nature, 2014, 508, 80-83.	13.7	107
26	Multimode cavity-assisted quantum storage via continuous phase-matching control. Physical Review A, 2013, 88, .	1.0	24
27	Quantum storage based on control-field angular scanning. Physical Review A, 2013, 87, .	1.0	21
28	Formation of a Single Attosecond Pulse via Interaction of Resonant Radiation with a Strongly Perturbed Atomic Transition. Physical Review Letters, 2013, 110, 213903.	2.9	27
29	Formation of ultrashort pulses via quantum interference between Stark-split atomic transitions in a hydrogenlike medium. Physical Review A, 2013, 88, .	1.0	21
30	Quantum storage via refractive-index control. Physical Review A, 2011, 83, .	1.0	21
31	Optical fluorescence at the combinational frequency in coherently driven three-level systems. Journal of Modern Optics, 2011, 58, 2036-2042.	0.6	0
32	Refractive index control for optical quantum storage. Journal of Modern Optics, 2011, 58, 1971-1976.	0.6	5
33	Coherent control of one-photon and two-photon optical fluorescence channels in three-level ladder system. Journal of Modern Optics, 2009, 56, 1941-1948.	0.6	1
34	Resonant enhancement of refractive index in transition element doped crystals via coherent control of excited state absorption. Journal of Modern Optics, 2009, 56, 1933-1940.	0.6	7
35	Decaying-dressed-state analysis of a coherently driven three-level $\hat{\Gamma}$ system. Journal of Modern Optics, 2008, 55, 3159-3171.	0.6	58
36	Suppression of $\hat{\Gamma}^3$ -photon absorption via quantum interference. Journal of Modern Optics, 2007, 54, 2595-2605.	0.6	6

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37	Acoustically Induced Transparency in Optically Dense Resonance Medium. Physical Review Letters, 2006, 96, 093602.	2.9	36
38	Experimental observation of vibrations produced by pulsed laser beam in MgO:57Fe. Hyperfine Interactions, 2006, 167, 917-921.	0.2	3
39	Electromagnetically induced transparency in a two-level system via atomic vibration. , 2006, , .		0
40	Generation of coherent terahertz pulses in ruby at room temperature. Physical Review A, 2006, 74, .	1.0	15
41	Experimental observation of vibrations produced by pulsed laser beam in MgO:57Fe. , 2006, , 917-921.		0
42	Electromagnetically induced transparency in rubidium vapor prepared by a comb of short optical pulses. Physical Review A, 2005, 71, .	1.0	54
43	Mössbauer spectra narrowing by the "magic-angle" technique. Journal of Modern Optics, 2005, 52, 2401-2410.	0.6	1
44	Effects of optical radiation on the Mössbauer spectrum of $^{151}\text{Eu}^{3+}$: CaF_2 . Journal of Modern Optics, 2005, 52, 877-884.	0.6	3
45	Mössbauer spectra narrowing by spinning magnetic field. Journal of Modern Optics, 2004, 51, 2615-2625.	0.6	3
46	Experimental observation of laser-induced modification of Mössbauer spectra. Journal of Modern Optics, 2004, 51, 2579-2587.	0.6	5
47	Compression of γ -ray photons into ultrashort pulses. Physical Review A, 2003, 68, .	1.0	7
48	Spectral width of electromagnetically induced transparency in hot atomic gases. , 2003, , 603-604.		0
49	Stop and go control of light in hot atomic gases. Journal of Modern Optics, 2002, 49, 2637-2643.	0.6	4
50	Atomic interference phenomena in solids with a long-lived spin coherence. Physical Review A, 2002, 66, .	1.0	74
51	Laser-Mössbauer Spectroscopy as a New Tool for Nuclear Transitions. Hyperfine Interactions, 2002, 143, 121-131.	0.2	5
52	Narrowing of electromagnetically induced transparency resonance in a Doppler-broadened medium. Physical Review A, 2002, 66, .	1.0	168
53	Slow, Ultraslow, Stored, and Frozen Light. Advances in Atomic, Molecular and Optical Physics, 2001, , 191-242.	2.3	179
54	Modification of Mössbauer Spectra under the Action of Electromagnetic Fields. Hyperfine Interactions, 2001, 135, 233-255.	0.2	7

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55	Stopping Light via Hot Atoms. Physical Review Letters, 2001, 86, 628-631.	2.9	276
56	Inversionless lasing with self-generated driving field. Physical Review A, 2001, 64, .	1.0	26
57	Lasing without inversion via decay-induced coherence. Physical Review A, 2001, 65, .	1.0	48
58	Laser control of Mossbauer spectra as a way to gamma-ray lasing. Optics Communications, 2000, 179, 537-547.	1.0	17
59	Dynamical manifestations of two mechanisms of lasing without inversion. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 580-587.	1.4	2
60	Field-dependent relaxation effects in a three-level system driven by a strong coherent field. Physical Review A, 1999, 60, 3091-3110.	1.0	28
61	Coherent Optical Control of MÃ¶ssbauer Spectra. Physical Review Letters, 1999, 82, 3593-3596.	2.9	80
62	Effective two-level Maxwell-Bloch formalism and coherent pulse propagation in a driven three-level medium. Physical Review A, 1999, 59, 3986-3997.	1.0	5
63	Inversionless amplification in the three-level atoms with and without a hidden inversion in reservoir. Physical Review A, 1998, 58, 649-654.	1.0	24
64	Atomic Coherence via Modified Spontaneous Relaxation of Driven Three-Level Atoms. Physical Review Letters, 1995, 74, 2451-2454.	2.9	53
65	Inversionless amplification in a multilevel system. Physical Review A, 1993, 47, 5003-5008.	1.0	25
66	Inversionless amplification in a three-level medium. Physical Review A, 1992, 45, 1997-2005.	1.0	113
67	Inversionless amplification of a monochromatic field by a three-level medium. Physical Review A, 1992, 46, 2700-2706.	1.0	34
68	Frequency up-conversion in a three-level medium without inversion. Optics Communications, 1991, 84, 179-183.	1.0	31
69	Lasing without inversion: The double $\hat{\rho}$ scheme. Optics Communications, 1990, 77, 215-220.	1.0	74
70	Amplification without inversion: The double $\hat{\rho}$ scheme. Physical Review A, 1990, 42, 523-535.	1.0	291