

Mikhail Y Ivanov

List of Publications by Year in descending order

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citations

168829

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91
all docs

91
docs citations

91
times ranked

4845
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong chiral response in non-collinear high harmonic generation driven by purely electric-dipole interactions. Optics Express, 2022, 30, 4659.	1.7	11
2	A look under the tunnelling barrier via attosecond-gated interferometry. Nature Photonics, 2022, 16, 304-310.	15.6	14
3	All-optical attoclock for imaging tunnelling wavepackets. Nature Physics, 2022, 18, 417-422.	6.5	12
4	Enantiosensitive steering of free-induction decay. Science Advances, 2022, 8, .	4.7	11
5	Non-instantaneous third-order optical response of gases in low-frequency fields. Optics Express, 2022, 30, 23579.	1.7	3
6	Observation of light-driven band structure via multiband high-harmonic spectroscopy. Nature Photonics, 2022, 16, 428-432.	15.6	30
7	Strong-field physics: general discussion. Faraday Discussions, 2021, 228, 470-487.	1.6	1
8	Concluding remarks: The age of molecular movies. Faraday Discussions, 2021, 228, 622-629.	1.6	5
9	Ultrafast Optical Rotation: Highly Sensitive Enantio-Discrimination with Controlled Few-Cycle Optical Pulses. , 2021, , .		0
10	Ultrafast X-ray science: general discussion. Faraday Discussions, 2021, 228, 597-621.	1.6	0
11	Sub-cycle valleytronics: control of valley polarization using few-cycle linearly polarized pulses. Optica, 2021, 8, 277.	4.8	28
12	Topological protection versus degree of entanglement of two-photon light in photonic topological insulators. Nature Communications, 2021, 12, 1974.	5.8	19
13	Light-induced valleytronics in pristine graphene. Optica, 2021, 8, 422.	4.8	71
14	Femtosecond Field-Driven On-Chip Unidirectional Electronic Currents in Nonadiabatic Tunneling Regime. Laser and Photonics Reviews, 2021, 15, 2000475.	4.4	10
15	Ultrafast Optical Rotation for Extremely Sensitive Enantio-Discrimination. , 2021, , .		0
16	Enantio-sensitive unidirectional light bending. Nature Communications, 2021, 12, 3951.	5.8	28
17	Enantio-sensitive unidirectional light bending. , 2021, , .		0
18	Topological protection of highly entangled non-Gaussian two-photon states. Materials for Quantum Technology, 2021, 1, 035001.	1.2	1

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19	Ultrafast optical rotation in chiral molecules with ultrashort and tightly focused beams. <i>Optica</i> , 2021, 8, 1243.	4.8	22
20	Time-resolved ultrafast spectroscopy: general discussion. <i>Faraday Discussions</i> , 2021, 228, 329-348.	1.6	2
21	Structuring light's chirality to induce enantio-sensitive light bending. , 2021, , .		0
22	Ultrafast Optical Rotation in Chiral Molecules with Ultrashort and Tightly Focused Beams. , 2021, , .		0
23	Lightwave Control of Topological Properties in 2D Materials for Sub-Cycle and Non-Resonant Valley Manipulation. , 2021, , .		0
24	Ultrafast optical rotation in chiral molecules with ultrashort and tightly focused beams. , 2021, , .		0
25	Lightwave control of topological properties in 2D materials for sub-cycle and non-resonant valley manipulation. <i>Nature Photonics</i> , 2020, 14, 728-732.	15.6	61
26	Population transfer to high angular momentum states in infrared-assisted XUV photoionization of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 164003.	0.6	5
27	Origin of strong-field-induced low-order harmonic generation in amorphous quartz. <i>Nature Physics</i> , 2020, 16, 1035-1039.	6.5	51
28	Spatial molecular interferometry via multidimensional high-harmonic spectroscopy. <i>Nature Photonics</i> , 2020, 14, 188-194.	15.6	38
29	Attosecond spectral singularities in solid-state high-harmonic generation. <i>Nature Photonics</i> , 2020, 14, 183-187.	15.6	94
30	Rotational quantum beat lasing without inversion. <i>Optica</i> , 2020, 7, 586.	4.8	50
31	Controlled Optical Waveforms for Extremely Efficient Chiral Discrimination on Ultrafast Time Scales. , 2020, , .		0
32	Structuring Light's Chirality: LR ≠ RL. , 2020, , .		0
33	High harmonic generation in crystals using maximally localized Wannier functions. <i>Physical Review B</i> , 2019, 100, .	1.1	49
34	Synthetic chiral light for efficient control of chiral light-matter interaction. <i>Nature Photonics</i> , 2019, 13, 866-871.	15.6	132
35	Topological strong-field physics on sub-laser-cycle timescale. <i>Nature Photonics</i> , 2019, 13, 849-854.	15.6	132
36	Amplification of intense light fields by nearly free electrons. <i>Nature Physics</i> , 2018, 14, 695-700.	6.5	33

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37	High-harmonic spectroscopy of ultrafast many-body dynamics in strongly correlated systems. Nature Photonics, 2018, 12, 266-270.	15.6	156
38	Ultrafast preparation and detection of ring currents in single atoms. Nature Physics, 2018, 14, 701-704.	6.5	93
39	Electron correlations and pre-collision in the re-collision picture of high harmonic generation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 134006.	0.6	10
40	Reconstruction of the time-dependent electronic wave packet arising from molecular autoionization. Science Advances, 2018, 4, eaat3962.	4.7	14
41	Symmetry Breaking and Strong Persistent Plasma Currents via Resonant Destabilization of Atoms. Physical Review Letters, 2017, 119, 243202.	2.9	2
42	Attosecond control of spin polarization in electron-ion recollision driven by intense tailored fields. , 2017, , .		0
43	Characterization of attosecond pulses of arbitrary polarization. , 2017, , .		0
44	Time-resolved high harmonic spectroscopy of dynamical symmetry breaking in bi-circular laser fields: the role of Rydberg states. Optics Express, 2017, 25, 22880.	1.7	31
45	Attosecond processes and X-ray spectroscopy: general discussion. Faraday Discussions, 2016, 194, 427-462.	1.6	0
46	Comment on "Coherent Extreme Ultraviolet Light Amplification by Strong-Field-Enhanced Forward Scattering". Physical Review Letters, 2016, 117, 109401.	2.9	6
47	Multidimensional high harmonic spectroscopy of polyatomic molecules: detecting sub-cycle laser-driven hole dynamics upon ionization in strong mid-IR laser fields. Faraday Discussions, 2016, 194, 369-405.	1.6	51
48	Role of tunnel ionization in high harmonic generation from substituted benzenes. Faraday Discussions, 2016, 194, 349-368.	1.6	7
49	Electron spin polarization in strong-field ionization of xenon atoms. Nature Photonics, 2016, 10, 526-528.	15.6	103
50	Interference stabilization of autoionizing states in molecular N2 studied by time- and angular-resolved photoelectron spectroscopy. Faraday Discussions, 2016, 194, 509-524.	1.6	8
51	Kinematic origin for near-zero energy structures in mid-IR strong field ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 105601.	0.6	5
52	Sub-laser-cycle control of coupled electron-nuclear dynamics at a conical intersection. New Journal of Physics, 2015, 17, 113023.	1.2	13
53	Interpreting attoclock measurements of tunnelling times. Nature Physics, 2015, 11, 503-508.	6.5	256
54	Spin-orbit Larmor clock for ionization times in one-photon and strong-field regimes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 234002.	0.6	16

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55	CEP-stable tunable THz-emission originating from laser-waveform-controlled sub-cycle plasma-electron bursts. <i>Optics Express</i> , 2015, 23, 15278.	1.7	45
56	50 years of optical tunneling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 200301.	0.6	10
57	What will it take to observe processes in 'real time'?. <i>Nature Photonics</i> , 2014, 8, 162-166.	15.6	220
58	Control and identification of strong field dissociative channels in CO ₂ ⁺ via molecular alignment. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124025.	0.6	4
59	High harmonic spectroscopy of electron localization in the hydrogen molecular ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 204015.	0.6	23
60	Taking control of polarization. <i>Nature Photonics</i> , 2014, 8, 501-503.	15.6	38
61	Opportunities for sub-laser-cycle spectroscopy in condensed phase. <i>Chemical Physics</i> , 2013, 414, 3-9.	0.9	23
62	Fifty years of optical tunnelling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 240401.	0.6	0
63	High-Order Harmonic Generation Spectroscopy of Correlation-Driven Electron Hole Dynamics. <i>Physical Review Letters</i> , 2013, 111, 123002.	2.9	45
64	Coherent control in strongly driven multi-level systems: quantum vs classical features. <i>Molecular Physics</i> , 2012, 110, 1801-1805.	0.8	4
65	Attosecond cascades and time delays in one-electron photoionization. <i>Physical Review A</i> , 2012, 86, .	1.0	25
66	Attosecond dynamic imaging: Basic ideas, results, and hopes. , 2011, , .		0
67	How Accurate Is the Attosecond Streak Camera?. <i>Physical Review Letters</i> , 2011, 107, 213605.	2.9	103
68	Towards a one-femtosecond film. <i>Nature Physics</i> , 2010, 6, 159-160.	6.5	20
69	Correlated few-electron dynamics in intense laser fields. <i>Chemical Physics</i> , 2009, 366, 37-45.	0.9	8
70	Attosecond physics. <i>Reviews of Modern Physics</i> , 2009, 81, 163-234.	16.4	4,682
71	Two-color control of laser induced electron diffraction. <i>Journal of Modern Optics</i> , 2008, 55, 2513-2525.	0.6	4
72	Enhanced phase-matching for generation of soft X-ray harmonics and attosecond pulses in atomic gases. <i>Optics Express</i> , 2007, 15, 15351.	1.7	148

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73	Anatomy of strong field ionization II: to dress or not to dress?. Journal of Modern Optics, 2007, 54, 1019-1038.	0.6	58
74	Coulomb and polarization effects in sub-cycle dynamics of strong-field ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S307-S321.	0.6	93
75	Use of Electron Correlation to Make Attosecond Measurements without Attosecond Pulses. Physical Review Letters, 2005, 94, 213001.	2.9	20
76	Kapitza-Dirac Diffraction without Standing Waves: Diffraction without a Grating?. Physical Review Letters, 2004, 92, 223601.	2.9	26
77	Controlled supercontinuum generation for optimal pulse compression: a time-warp analysis of nonlinear propagation of ultra-broad-band pulses. Applied Physics B: Lasers and Optics, 2003, 77, 329-336.	1.1	9
78	Molecule without Electrons: Binding Bare Nuclei with Strong Laser Fields. Physical Review Letters, 2003, 90, 243001.	2.9	20
79	Generation of Single Dispersion Precompensated 1-fs Pulses by Shaped-Pulse Optimized High-Order Stimulated Raman Scattering. Physical Review Letters, 2002, 88, 103901.	2.9	101
80	Two-color control of localization: From lattices to spin systems. Physical Review A, 1999, 60, R4225-R4228.	1.0	34
81	Optical Centrifuge for Molecules. Physical Review Letters, 1999, 82, 3420-3423.	2.9	240
82	Explosive ionization of molecules in intense laser fields. Physical Review A, 1996, 54, 1541-1550.	1.0	61
83	Routes to Control of Intense-Field Atomic Polarizability. Physical Review Letters, 1995, 74, 2933-2936.	2.9	226
84	Control of high-order harmonic generation in strong laser fields. Physical Review A, 1995, 51, 3991-3998.	1.0	109
85	SFA applied to the one-dimensional two-electron model atom. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 4413-4419.	0.6	5
86	High-harmonic generation and correlated two-electron multiphoton ionization with elliptically polarized light. Physical Review A, 1994, 50, R3585-R3588.	1.0	296