

Kyung Taec Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5252523/publications.pdf>

Version: 2024-02-01

76
papers

1,522
citations

361413

20
h-index

315739

38
g-index

76
all docs

76
docs citations

76
times ranked

1365
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of correlations in strong field ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 055001.	1.5	3
2	Distribution of absorbed photons in the tunneling ionization process. Scientific Reports, 2021, 11, 3956.	3.3	1
3	Reconstruction algorithm for tunneling ionization with a perturbation for the time-domain observation of an electric-field. Scientific Reports, 2021, 11, 13014.	3.3	7
4	Classical backpropagation for probing the backward rescattering time of a tunnel-ionized electron in an intense laser field. Physical Review A, 2021, 104, .	2.5	2
5	Two-pulse interference and correlation in an attoclock. Physical Review A, 2021, 104, .	2.5	1
6	Effect of the finite speed of light in ionization of extended molecular systems. Scientific Reports, 2021, 11, 21457.	3.3	3
7	Atomic ionization driven by the quantized electromagnetic field in a Fock state. Physical Review A, 2020, 102, .	2.5	3
8	Ionization yield measurement using metal electrodes with a static electric field in ambient air. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 174003.	1.5	3
9	Simple man model in the Heisenberg picture. Communications Physics, 2020, 3, .	5.3	3
10	Time correlation inside a laser pulse. Physical Review A, 2020, 101, .	2.5	4
11	Attosecond streaking using a rescattered electron in an intense laser field. Scientific Reports, 2020, 10, 22075.	3.3	8
12	Quantum chaos in strong field ionization of hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 225002.	1.5	2
13	Relativistic Nondipole Effects in Strong-Field Atomic Ionization at Moderate Intensities. Physical Review Letters, 2019, 123, 093201.	7.8	30
14	Generation of a single-cycle pulse using a two-stage compressor and its temporal characterization using a tunnelling ionization method. Scientific Reports, 2019, 9, 1613.	3.3	22
15	Temporal characterization of femtosecond laser pulses using tunneling ionization in the UV, visible, and mid-IR ranges. Scientific Reports, 2019, 9, 16067.	3.3	33
16	Terahertz Wave Generation Using Single or Few-cycle Laser Pulses in a Gaseous Medium. , 2019, , .		0
17	Entropy-based view of the strong field ionization process. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 085601.	1.5	2
18	Strong-field approximation and its modifications as evolution equations. Physical Review A, 2019, 99, .	2.5	3

#	ARTICLE	IF	CITATIONS
19	Investigations on Ultrafast Atomic and Molecular Dynamics with Harmonic Sources. Springer Proceedings in Physics, 2018, , 71-78.	0.2	0
20	Instantaneous ionization rate as a functional derivative. Communications Physics, 2018, 1, .	5.3	16
21	Strong-field-approximation model for coherent extreme-ultraviolet emission generated through frustrated tunneling ionization. Physical Review A, 2018, 98, .	2.5	9
22	Coherent extreme-ultraviolet emission generated through frustrated tunnelling ionization. Nature Photonics, 2018, 12, 620-624.	31.4	42
23	Direct sampling of a light wave in air. Optica, 2018, 5, 402.	9.3	77
24	Exit point in the strong field ionization process. Scientific Reports, 2017, 7, 39919.	3.3	23
25	Isolation of attosecond pulses from the attosecond lighthouse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014006.	1.5	2
26	Phase retrieval approach for an accurate reconstruction of an arbitrary optical waveform in the petahertz optical oscilloscope. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 024002.	1.5	2
27	Photoionization in the presence of circularly polarized fundamental and odd-order harmonic fields. Physical Review A, 2017, 95, .	2.5	6
28	Dynamic wavefront rotation in the attosecond lighthouse. Optica, 2017, 4, 48.	9.3	9
29	Generation and characterization of a single-cycle laser pulse. , 2017, , .		0
30	Probing Multiple Molecular Orbitals in an Orthogonally Polarized Two-Color Laser Field. Springer Series in Chemical Physics, 2017, , 67-84.	0.2	0
31	Nondipole effects in strong-field ionization. Physical Review A, 2016, 94, .	2.5	29
32	Quantum path analysis for arbitrary optical-waveform measurements. Physical Review A, 2016, 93, .	2.5	1
33	Low-energy structures in strong-field ionization. Physical Review A, 2016, 93, .	2.5	1
34	Full characterization of an attosecond pulse generated using an infrared driver. Scientific Reports, 2016, 6, 26771.	3.3	5
35	Attosecond pulses measured from the attosecond lighthouse. Nature Photonics, 2016, 10, 171-175.	31.4	56
36	Ultrashort light pulses shake atoms. Nature, 2016, 530, 41-42.	27.8	1

#	ARTICLE	IF	CITATIONS
37	Measurement and control of optical waveforms. , 2015, , .		0
38	Relativistic approach to the tunneling-time problem. Physical Review A, 2015, 92, .	2.5	10
39	Endpoint contribution to the instantaneous ionization rate for tunneling ionization. Physical Review A, 2015, 91, .	2.5	2
40	Resolving Multiple Molecular Orbitals Using Two-Dimensional High-Harmonic Spectroscopy. Physical Review Letters, 2015, 114, 153901.	7.8	39
41	Controlling attosecond angular streaking with second harmonic radiation. Optics Letters, 2015, 40, 1768.	3.3	11
42	Creating high-harmonic beams with controlled orbital angular momentum. , 2014, , .		1
43	Manipulating quantum paths for novel attosecond measurement methods. Nature Photonics, 2014, 8, 187-194.	31.4	54
44	Creating High-Harmonic Beams with Controlled Orbital Angular Momentum. Physical Review Letters, 2014, 113, 153901.	7.8	244
45	Applications of ultrafast wavefront rotation in highly nonlinear optics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124004.	1.5	53
46	Photonic streaking of attosecond pulse trains. Nature Photonics, 2013, 7, 651-656.	31.4	126
47	Petahertz optical oscilloscope. Nature Photonics, 2013, 7, 958-962.	31.4	163
48	High harmonic cutoff energy scaling and laser intensity measurement with a 1.8 μm laser source. Journal of Modern Optics, 2013, 60, 1458-1465.	1.3	18
49	Manipulation of quantum paths for space-time characterization of attosecond pulses. Nature Physics, 2013, 9, 159-163.	16.7	94
50	Transform-Limited Attosecond Pulse Generation Through Atto-Chirp Compensation by Material Dispersion. Springer Series in Chemical Physics, 2013, , 71-88.	0.2	0
51	All Optical Measurement of Arbitrary Optical Waveforms. , 2013, , .		0
52	Attosecond-chirp compensation with material dispersion to produce near transform-limited attosecond pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 074015.	1.5	17
53	Generation and measurement of high harmonics with orbital angular momentum. , 2012, , .		0
54	Amplitude and Phase Reconstruction of Electron Wave Packets for Probing Ultrafast Photoionization Dynamics. Physical Review Letters, 2012, 108, 093001.	7.8	19

#	ARTICLE	IF	CITATIONS
55	An All-optical Characterization of the Attosecond Pulse in Space and Time. , 2012, , .		1
56	The Attosecond Lighthouse in Gas: Spatial Gating Technique for Isolated Attosecond Pulses generation. , 2012, , .		0
57	Characterization of Attosecond Pulses in Space and Time. , 2012, , .		0
58	Comparison of RABITT and FROG measurements in the temporal reconstruction of attosecond pulse trains. , 2011, , .		0
59	Generation of Ultrashort Attosecond High-Harmonic Pulses from Chirp-compensated Ne Harmonics. Springer Proceedings in Physics, 2011, , 197-202.	0.2	0
60	Complete temporal reconstruction of attosecond high-harmonic pulse trains. New Journal of Physics, 2010, 12, 083019.	2.9	22
61	Attosecond chirp compensation over broadband high-order harmonics to generate near transform-limited 63â€%as pulses. New Journal of Physics, 2010, 12, 063008.	2.9	28
62	ATTOSECOND HIGH HARMONIC PULSES: GENERATION AND TEMPORAL CHARACTERIZATION. , 2010, , .		0
63	Macroscopic generation of attosecond-pulse trains in strongly ionized media. Physical Review A, 2009, 79, .	2.5	43
64	X-ray laser research and applications at c-FAST. Proceedings of SPIE, 2009, , .	0.8	2
65	Research on the seeding of high-energy harmonic pulse into an x-ray lasing medium. , 2009, , .		0
66	Analysis of the vibrational structures from the autoionization in O2 using harmonics. , 2007, , .		0
67	Complete Temporal Reconstruction of Attosecond Harmonic Pulses. , 2007, , .		0
68	Compression of Attosecond Harmonic Pulses in the Harmonic Generation Medium Itself. , 2007, , .		0
69	Complete Temporal Characterization of Attosecond High Harmonic Pulses using the FROG Technique. , 2007, , .		0
70	Self-Compression of Attosecond High-Order Harmonic Pulses. Physical Review Letters, 2007, 99, 223904.	7.8	47
71	Excitation and exploration of autoionization state in O<inf>2</inf> using XUV-harmonic pump and IR-laser probe. , 2006, , .		0
72	Ultrafast dynamics of autoionization in O2 probed by laser- field-assisted XUV photoionization. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
73	Single sub-50 attosecond pulse generation from chirp-compensated harmonic radiation using material dispersion. <i>Physical Review A</i> , 2004, 69, .	2.5	114
74	Compression of harmonic pulses by using material dispersion. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 563-567.	2.2	4
75	Analysis of high-order harmonies in the time-frequency domain for attosecond pulse generation. , 0, , .		0
76	Coherent Control of Extreme Ultraviolet Emission Generated through Frustrated Tunneling Ionization. <i>New Journal of Physics</i> , 0, , .	2.9	1