

Kyung Taec Kim

List of Publications by Year in descending order

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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 | Creating High-Harmonic Beams with Controlled Orbital Angular Momentum. <i>Physical Review Letters</i> , 2014, 113, 153901. | 7.8 | 244 |
| 2 | Petahertz optical oscilloscope. <i>Nature Photonics</i> , 2013, 7, 958-962. | 31.4 | 163 |
| 3 | Photonic streaking of attosecond pulse trains. <i>Nature Photonics</i> , 2013, 7, 651-656. | 31.4 | 126 |
| 4 | Single-sub-50-attosecond pulse generation from chirp-compensated harmonic radiation using material dispersion. <i>Physical Review A</i> , 2004, 69, . | 2.5 | 114 |
| 5 | Manipulation of quantum paths for space-time characterization of attosecond pulses. <i>Nature Physics</i> , 2013, 9, 159-163. | 16.7 | 94 |
| 6 | Direct sampling of a light wave in air. <i>Optica</i> , 2018, 5, 402. | 9.3 | 77 |
| 7 | Attosecond pulses measured from the attosecond lighthouse. <i>Nature Photonics</i> , 2016, 10, 171-175. | 31.4 | 56 |
| 8 | Manipulating quantum paths for novel attosecond measurement methods. <i>Nature Photonics</i> , 2014, 8, 187-194. | 31.4 | 54 |
| 9 | Applications of ultrafast wavefront rotation in highly nonlinear optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124004. | 1.5 | 53 |
| 10 | Self-Compression of Attosecond High-Order Harmonic Pulses. <i>Physical Review Letters</i> , 2007, 99, 223904. | 7.8 | 47 |
| 11 | Macroscopic generation of attosecond-pulse trains in strongly ionized media. <i>Physical Review A</i> , 2009, 79, . | 2.5 | 43 |
| 12 | Coherent extreme-ultraviolet emission generated through frustrated tunnelling ionization. <i>Nature Photonics</i> , 2018, 12, 620-624. | 31.4 | 42 |
| 13 | Resolving Multiple Molecular Orbitals Using Two-Dimensional High-Harmonic Spectroscopy. <i>Physical Review Letters</i> , 2015, 114, 153901. | 7.8 | 39 |
| 14 | Temporal characterization of femtosecond laser pulses using tunneling ionization in the UV, visible, and mid-IR ranges. <i>Scientific Reports</i> , 2019, 9, 16067. | 3.3 | 33 |
| 15 | Relativistic Nondipole Effects in Strong-Field Atomic Ionization at Moderate Intensities. <i>Physical Review Letters</i> , 2019, 123, 093201. | 7.8 | 30 |
| 16 | Nondipole effects in strong-field ionization. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 29 |
| 17 | Attosecond chirp compensation over broadband high-order harmonics to generate near transform-limited 63-fs pulses. <i>New Journal of Physics</i> , 2010, 12, 063008. | 2.9 | 28 |
| 18 | Exit point in the strong field ionization process. <i>Scientific Reports</i> , 2017, 7, 39919. | 3.3 | 23 |

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|----|--|-----|-----------|
| 19 | Complete temporal reconstruction of attosecond high-harmonic pulse trains. <i>New Journal of Physics</i> , 2010, 12, 083019. | 2.9 | 22 |
| 20 | Generation of a single-cycle pulse using a two-stage compressor and its temporal characterization using a tunnelling ionization method. <i>Scientific Reports</i> , 2019, 9, 1613. | 3.3 | 22 |
| 21 | Amplitude and Phase Reconstruction of Electron Wave Packets for Probing Ultrafast Photoionization Dynamics. <i>Physical Review Letters</i> , 2012, 108, 093001. | 7.8 | 19 |
| 22 | High harmonic cutoff energy scaling and laser intensity measurement with a 1.8 μm laser source. <i>Journal of Modern Optics</i> , 2013, 60, 1458-1465. | 1.3 | 18 |
| 23 | Attosecond-chirp compensation with material dispersion to produce near transform-limited attosecond pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 074015. | 1.5 | 17 |
| 24 | Instantaneous ionization rate as a functional derivative. <i>Communications Physics</i> , 2018, 1, . | 5.3 | 16 |
| 25 | Controlling attosecond angular streaking with second harmonic radiation. <i>Optics Letters</i> , 2015, 40, 1768. | 3.3 | 11 |
| 26 | Relativistic approach to the tunneling-time problem. <i>Physical Review A</i> , 2015, 92, . | 2.5 | 10 |
| 27 | Dynamic wavefront rotation in the attosecond lighthouse. <i>Optica</i> , 2017, 4, 48. | 9.3 | 9 |
| 28 | Strong-field-approximation model for coherent extreme-ultraviolet emission generated through frustrated tunneling ionization. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 9 |
| 29 | Attosecond streaking using a rescattered electron in an intense laser field. <i>Scientific Reports</i> , 2020, 10, 22075. | 3.3 | 8 |
| 30 | Reconstruction algorithm for tunneling ionization with a perturbation for the time-domain observation of an electric-field. <i>Scientific Reports</i> , 2021, 11, 13014. | 3.3 | 7 |
| 31 | Photoionization in the presence of circularly polarized fundamental and odd-order harmonic fields. <i>Physical Review A</i> , 2017, 95, . | 2.5 | 6 |
| 32 | Full characterization of an attosecond pulse generated using an infrared driver. <i>Scientific Reports</i> , 2016, 6, 26771. | 3.3 | 5 |
| 33 | Compression of harmonic pulses by using material dispersion. <i>Applied Physics B: Lasers and Optics</i> , 2004, 79, 563-567. | 2.2 | 4 |
| 34 | Time correlation inside a laser pulse. <i>Physical Review A</i> , 2020, 101, . | 2.5 | 4 |
| 35 | Strong-field approximation and its modifications as evolution equations. <i>Physical Review A</i> , 2019, 99, . | 2.5 | 3 |
| 36 | Atomic ionization driven by the quantized electromagnetic field in a Fock state. <i>Physical Review A</i> , 2020, 102, . | 2.5 | 3 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | Simple man model in the Heisenberg picture. Communications Physics, 2020, 3, . | 5.3 | 3 |
| 39 | Effect of the finite speed of light in ionization of extended molecular systems. Scientific Reports, 2021, 11, 21457. | 3.3 | 3 |
| 40 | Analysis of correlations in strong field ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 055001. | 1.5 | 3 |
| 41 | X-ray laser research and applications at c-FAST. Proceedings of SPIE, 2009, , . | 0.8 | 2 |
| 42 | Endpoint contribution to the instantaneous ionization rate for tunneling ionization. Physical Review A, 2015, 91, . | 2.5 | 2 |
| 43 | Isolation of attosecond pulses from the attosecond lighthouse. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014006. | 1.5 | 2 |
| 44 | 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 |
| 45 | Quantum chaos in strong field ionization of hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 225002. | 1.5 | 2 |
| 46 | Entropy-based view of the strong field ionization process. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 085601. | 1.5 | 2 |
| 47 | 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 |
| 48 | Creating high-harmonic beams with controlled orbital angular momentum. , 2014, , . | | 1 |
| 49 | Quantum path analysis for arbitrary optical-waveform measurements. Physical Review A, 2016, 93, . | 2.5 | 1 |
| 50 | Low-energy structures in strong-field ionization. Physical Review A, 2016, 93, . | 2.5 | 1 |
| 51 | Ultrashort light pulses shake atoms. Nature, 2016, 530, 41-42. | 27.8 | 1 |
| 52 | Distribution of absorbed photons in the tunneling ionization process. Scientific Reports, 2021, 11, 3956. | 3.3 | 1 |
| 53 | Two-pulse interference and correlation in an attoclock. Physical Review A, 2021, 104, . | 2.5 | 1 |
| 54 | An All-optical Characterization of the Attosecond Pulse in Space and Time. , 2012, , . | | 1 |

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|----|---|-----|-----------|
| 55 | Coherent Control of Extreme Ultraviolet Emission Generated through Frustrated Tunneling Ionization. <i>New Journal of Physics</i> , 0, , . | 2.9 | 1 |
| 56 | Analysis of high-order harmonics in the time-frequency domain for attosecond pulse generation. , 0, , . | | 0 |
| 57 | Excitation and exploration of autoionization state in O^{2+} using XUV-harmonic pump and IR-laser probe. , 2006, , . | | 0 |
| 58 | Analysis of the vibrational structures from the autoionization in O_2 using harmonics. , 2007, , . | | 0 |
| 59 | Complete Temporal Reconstruction of Attosecond Harmonic Pulses. , 2007, , . | | 0 |
| 60 | Compression of Attosecond Harmonic Pulses in the Harmonic Generation Medium Itself. , 2007, , . | | 0 |
| 61 | Complete Temporal Characterization of Attosecond High Harmonic Pulses using the FROG Technique. , 2007, , . | | 0 |
| 62 | Research on the seeding of high-energy harmonic pulse into an x-ray lasing medium. , 2009, , . | | 0 |
| 63 | Comparison of RABITT and FROG measurements in the temporal reconstruction of attosecond pulse trains. , 2011, , . | | 0 |
| 64 | Generation and measurement of high harmonics with orbital angular momentum. , 2012, , . | | 0 |
| 65 | Transform-Limited Attosecond Pulse Generation Through Atto-Chirp Compensation by Material Dispersion. <i>Springer Series in Chemical Physics</i> , 2013, , 71-88. | 0.2 | 0 |
| 66 | Measurement and control of optical waveforms. , 2015, , . | | 0 |
| 67 | Generation and characterization of a single-cycle laser pulse. , 2017, , . | | 0 |
| 68 | Investigations on Ultrafast Atomic and Molecular Dynamics with Harmonic Sources. <i>Springer Proceedings in Physics</i> , 2018, , 71-78. | 0.2 | 0 |
| 69 | Terahertz Wave Generation Using Single or Few-cycle Laser Pulses in a Gaseous Medium. , 2019, , . | | 0 |
| 70 | Ultrafast dynamics of autoionization in O_2 probed by laser- field-assisted XUV photoionization. , 2006, , . | | 0 |
| 71 | ATTOSECOND HIGH HARMONIC PULSES: GENERATION AND TEMPORAL CHARACTERIZATION. , 2010, , . | | 0 |
| 72 | Generation of Ultrashort Attosecond High-Harmonic Pulses from Chirp-compensated Ne Harmonics. <i>Springer Proceedings in Physics</i> , 2011, , 197-202. | 0.2 | 0 |

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|----|---|-----|-----------|
| 73 | The Attosecond Lighthouse in Gas: Spatial Gating Technique for Isolated Attosecond Pulses generation. , 2012, , . | | 0 |
| 74 | Characterization of Attosecond Pulses in Space and Time. , 2012, , . | | 0 |
| 75 | All Optical Measurement of Arbitrary Optical Waveforms. , 2013, , . | | 0 |
| 76 | Probing Multiple Molecular Orbitals in an Orthogonally Polarized Two-Color Laser Field. Springer Series in Chemical Physics, 2017, , 67-84. | 0.2 | 0 |