

# Daniel Rolles

## List of Publications by Year in descending order

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154  
papers

9,719  
citations

53794  
45  
h-index

37204  
96  
g-index

155  
all docs

155  
docs citations

155  
times ranked

6788  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | UV-induced dissociation of CH <sub>2</sub> Br probed by intense femtosecond XUV pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 014001.  | 1.5  | 7         |
| 2  | High harmonic generation in mixed XUV and NIR fields at a free-electron laser. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 025502.  | 2.2  | 2         |
| 3  | Sizes of pure and doped helium droplets from single shot x-ray imaging. <i>Journal of Chemical Physics</i> , 2022, 156, 041102.   | 3.0  | 3         |
| 4  | Coulomb explosion imaging of small polyatomic molecules with ultrashort x-ray pulses. <i>Physical Review Research</i> , 2022, 4, .  | 3.6  | 17        |
| 5  | X-ray multiphoton-induced Coulomb explosion images complex single molecules. <i>Nature Physics</i> , 2022, 18, 423-428.   | 16.7 | 48        |
| 6  | A localized view on molecular dissociation via electron-ion partial covariance. <i>Communications Chemistry</i> , 2022, 5, .  | 4.5  | 10        |
| 7  | Few-femtosecond resolved imaging of laser-driven nanoplasma expansion. <i>New Journal of Physics</i> , 2022, 24, 043024.  | 2.9  | 7         |
| 8  | High-resolution electron time-of-flight spectrometers for angle-resolved measurements at the SQS Instrument at the European XFEL. <i>Journal of Synchrotron Radiation</i> , 2022, 29, 755-764.                              | 2.4  | 3         |
| 9  | Fragmentation Dynamics of Fluorene Explored Using Ultrafast XUV-Vis Pump-Probe Spectroscopy. <i>Frontiers in Physics</i> , 2022, 10, .  | 2.1  | 2         |
| 10 | Two-body dissociation of formic acid following double ionization by ultrafast laser pulses. <i>Physical Review A</i> , 2022, 105, .   | 2.5  | 10        |
| 11 | Resonance-enhanced x-ray multiple ionization of a polyatomic molecule. <i>Physical Review A</i> , 2022, 105, .  | 2.5  | 5         |
| 12 | Strong-Field-Induced Coulomb Explosion Imaging of Tribromomethane. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5845-5853.  | 4.6  | 9         |
| 13 | Multi-channel photodissociation and XUV-induced charge transfer dynamics in strong-field-ionized methyl iodide studied with time-resolved recoil-frame covariance imaging. <i>Faraday Discussions</i> , 2021, 228, 571-596. | 3.2  | 18        |
| 14 | Electron-ion coincidence measurements of molecular dynamics with intense X-ray pulses. <i>Scientific Reports</i> , 2021, 11, 505.   | 3.3  | 11        |
| 15 | Strong-field induced fragmentation and isomerization of toluene probed by ultrafast femtosecond electron diffraction and mass spectrometry. <i>Faraday Discussions</i> , 2021, 228, 39-59.                                  | 3.2  | 10        |
| 16 | Pulse Energy and Pulse Duration Effects in the Ionization and Fragmentation of Iodomethane by Ultraintense Hard X Rays. <i>Physical Review Letters</i> , 2021, 127, 093202.   | 7.8  | 6         |
| 17 | Simple model for sequential multiphoton ionization by ultraintense x rays. <i>Physical Review A</i> , 2021, 104, .  | 2.5  | 5         |
| 18 | Time-resolved diffraction: general discussion. <i>Faraday Discussions</i> , 2021, 228, 161-190.   | 3.2  | 2         |

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|----|---|------|-----------|
| 19 | Imaging multiphoton ionization dynamics of CH <sub>3</sub> I at a high repetition rate XUV free-electron laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 014001.          | 1.5  | 3         |
| 20 | Time-resolved relaxation and fragmentation of polycyclic aromatic hydrocarbons investigated in the ultrafast XUV-IR regime. <i>Nature Communications</i> , 2021, 12, 6107.                                      | 12.8 | 18        |
| 21 | Gently stirred not shaken. <i>Nature Physics</i> , 2021, 17, 165-166.   | 16.7 | 0         |
| 22 | Inner-Shell-Ionization-Induced Femtosecond Structural Dynamics of Water Molecules Imaged at an X-Ray Free-Electron Laser. <i>Physical Review X</i> , 2021, 11, .  | 8.9  | 10        |
| 23 | Double Core-Hole Generation in $O_{\text{O}}^{\text{O}}$ Molecules Using an X-Ray Free-Electron Laser: Molecular-Frame Photoelectron Angular Distributions. <i>Physical Review Letters</i> , 2020, 125, 163201. | 8.9  | 10        |
| 24 | Tracking the ultraviolet-induced photochemistry of thiophenone during and after ultrafast ring opening. <i>Nature Chemistry</i> , 2020, 12, 795-800.  | 13.6 | 44        |
| 25 | Differentiating and Quantifying Gas-Phase Conformational Isomers Using Coulomb Explosion Imaging. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10205-10211.   | 4.6  | 17        |
| 26 | The Small Quantum System (SQS) Instrument at European XFEL: Results of commissioning and first experiments. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112005.                                  | 0.4  | 3         |
| 27 | Ultrafast ionization and fragmentation dynamics of polycyclic atomic hydrocarbons by XUV radiation. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112008.  | 0.4  | 0         |
| 28 | X-ray spectroscopy on ultrafast-decaying core-excited atomic ions. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112001.   | 0.4  | 0         |
| 29 | Angle-dependent strong-field ionization and fragmentation of carbon dioxide measured using rotational wave packets. <i>Physical Review A</i> , 2020, 102, .   | 2.5  | 16        |
| 30 | Amplified spontaneous emission in the extreme ultraviolet by expanding xenon clusters. <i>Physical Review A</i> , 2020, 101, .  | 2.5  | 6         |
| 31 | Ultrafast Structural Changes in Chiral Molecules Measured with Free-Electron Lasers. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112009.   | 0.4  | 2         |
| 32 | Intermolecular Coulombic Decay in Endohedral Fullerene at the $d_f$ Resonance. <i>Physical Review Letters</i> , 2020, 124, 113002.  | 7.8  | 18        |
| 33 | Photoionization of the I 4d and valence orbitals of methyl iodide. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 155101.   | 1.5  | 8         |
| 34 | X-ray diffractive imaging of controlled gas-phase molecules: Toward imaging of dynamics in the molecular frame. <i>Journal of Chemical Physics</i> , 2020, 152, 084307.   | 3.0  | 24        |
| 35 | Time-resolved site-selective imaging of predissociation and charge transfer dynamics: the CH <sub>3</sub> I B-band. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 224001.      | 1.5  | 14        |
| 36 | Channel-resolved molecular Auger spectroscopy. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 152075.   | 0.4  | 0         |

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|----|---|------|-----|-----------|
| 37 | Detecting coherent core-hole wave-packet dynamics in N <sub>2</sub> by time- and angle-resolved inner-shell photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2019, 151, .   | 3.0  | 12  |           |
| 38 | The effect of elliptical polarization in MSX $\pm$ calculations of the molecular-frame photoelectron angular distributions of CO C(1s) ionization. <i>European Physical Journal D</i> , 2019, 73, 1.  | 1.3  | 1   |           |
| 39 | <math>\langle i \rangle_{xcalib} </i>: a focal spot calibrator for intense X-ray free-electron laser pulses based on the charge state distributions of light atoms. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1017-1030.                              | 2.4  | 16  |           |
| 40 | Evidence of Extreme Ultraviolet Superfluorescence in Xenon. <i>Physical Review Letters</i> , 2019, 123, 023201.   | 7.8  | 23  |           |
| 41 | Femtosecond-resolved observation of the fragmentation of buckminsterfullerene following X-ray multiphoton ionization. <i>Nature Physics</i> , 2019, 15, 1279-1283.  | 16.7 | 22  |           |
| 42 | Time-resolved imaging of bound and dissociating nuclear wave packets in strong-field ionized iodomethane. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14090-14102.   | 2.8  | 22  |           |
| 43 | A coincidence velocity map imaging spectrometer for ions and high-energy electrons to study inner-shell photoionization of gas-phase molecules. <i>Review of Scientific Instruments</i> , 2019, 90, 055103.   | 1.3  | 14  |           |
| 44 | Strong-field-induced bond rearrangement in triatomic molecules. <i>Physical Review A</i> , 2019, 99, .  | 2.5  | 20  |           |
| 45 | An intense, few-cycle source in the long-wave infrared. <i>Scientific Reports</i> , 2019, 9, 6002.  | 3.3  | 18  |           |
| 46 | Photodissociation of aligned CH <sub>3</sub> I and C <sub>6</sub> H <sub>3</sub> F <sub>2</sub> I molecules probed with time-resolved Coulomb explosion imaging by site-selective extreme ultraviolet ionization. <i>Structural Dynamics</i> , 2018, 5, 014301. | 2.3  | 40  |           |
| 47 | Native Frames: Disentangling Sequential from Concerted Three-Body Fragmentation. <i>Physical Review Letters</i> , 2018, 120, 103001.  | 7.8  | 56  |           |
| 48 | Time-resolved ion imaging at free-electron lasers using TimepixCam. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 336-345.  | 2.4  | 15  |           |
| 49 | The LAMP instrument at the Linac Coherent Light Source free-electron laser. <i>Review of Scientific Instruments</i> , 2018, 89, 035112.   | 1.3  | 24  |           |
| 50 | Highly efficient nanoscale X-ray sources. <i>Nature Photonics</i> , 2018, 12, 62-63.  | 31.4 | 7   |           |
| 51 | Roadmap of ultrafast x-ray atomic and molecular physics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 032003.   | 1.5  | 240 |           |
| 52 | Time-resolved inner-shell photoelectron spectroscopy: From a bound molecule to an isolated atom. <i>Physical Review A</i> , 2018, 97, .   | 2.5  | 40  |           |
| 53 | An Experimental Protocol for Femtosecond NIR/UV - XUV Pump-Probe Experiments with Free-Electron Lasers. <i>Journal of Visualized Experiments</i> , 2018, , .  | 0.3  | 9   |           |
| 54 | H <sub>2</sub> roaming chemistry and the formation of H <sub>3</sub> <sup>+</sup> from organic molecules in strong laser fields. <i>Nature Communications</i> , 2018, 9, 5186.  | 12.8 | 73  |           |

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|----|---|------|-----------|
| 55 | Coulomb explosion imaging of CH <sub>3</sub> I and CH <sub>2</sub> ClI photodissociation dynamics. <i>Journal of Chemical Physics</i> , 2018, 149, 204313.  | 3.0  | 46        |
| 56 | Auger electron angular distributions following excitation or ionization of the I 3d level in methyl iodide. <i>Journal of Chemical Physics</i> , 2018, 149, 094304.                                 | 3.0  | 11        |
| 57 | CAMP@FLASH: an end-station for imaging, electron- and ion-spectroscopy, and pump-probe experiments at the FLASH free-electron laser. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1529-1540. | 2.4  | 37        |
| 58 | Relativistic and resonant effects in the ionization of heavy atoms by ultra-intense hard X-rays. <i>Nature Communications</i> , 2018, 9, 4200.  | 12.8 | 29        |
| 59 | Photoionization of the iodine 3d, 4s, and 4p orbitals in methyl iodide. <i>Journal of Chemical Physics</i> , 2018, 149, 144302.   | 3.0  | 13        |
| 60 | Photophysics of indole upon X-ray absorption. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20205-20216.   | 2.8  | 9         |
| 61 | XUV double-pulses with femtosecond to 650...ps separation from a multilayer-mirror-based split-and-delay unit at FLASH. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1517-1528.              | 2.4  | 6         |
| 62 | Isomer-dependent fragmentation dynamics of inner-shell photoionized difluoroiodobenzene. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13419-13431.  | 2.8  | 19        |
| 63 | Femtosecond response of polyatomic molecules to ultra-intense hard X-rays. <i>Nature</i> , 2017, 546, 129-132.  | 27.8 | 139       |
| 64 | Soft-x-ray-induced ionization and fragmentation dynamics of $\text{ScN}$ investigated using an ion-ion-coincidence momentum-imaging technique. <i>Physical Review A</i> , 2017, 96, .               | 2.5  | 11        |
| 65 | Alignment, orientation, and Coulomb explosion of difluoroiodobenzene studied with the pixel imaging mass spectrometry (PlMS) camera. <i>Journal of Chemical Physics</i> , 2017, 147, 013933.        | 3.0  | 26        |
| 66 | Inner-shell photodetachment from Ni <sup>+</sup> : A giant Feshbach resonance. <i>Physical Review A</i> , 2017, 96, .   | 2.5  | 2         |
| 67 | Jitter-correction for IR/UV-XUV pump-probe experiments at the FLASH free-electron laser. <i>New Journal of Physics</i> , 2017, 19, 043009.  | 2.9  | 34        |
| 68 | Coulomb-explosion imaging of concurrent CH <sub>2</sub> and Br <sub>2</sub> photodissociation dynamics. <i>Physical Review A</i> , 2017, 96, .  | 2.5  | 50        |
| 69 | Mechanisms and time-resolved dynamics for trihydrogen cation (H <sub>3</sub> <sup>+</sup> ) formation from organic molecules in strong laser fields. <i>Scientific Reports</i> , 2017, 7, 4703.     | 3.3  | 62        |
| 70 | High-repetition-rate and high-photon-flux 70 eV high-harmonic source for coincidence ion imaging of gas-phase molecules. <i>Optics Express</i> , 2016, 24, 18133.                                   | 3.4  | 60        |
| 71 | Identification of absolute geometries of cis and trans molecular isomers by Coulomb Explosion Imaging. <i>Scientific Reports</i> , 2016, 6, 38202.  | 3.3  | 32        |
| 72 | Structural dynamics: general discussion. <i>Faraday Discussions</i> , 2016, 194, 583-620.   | 3.2  | 0         |

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|----|---|------|-----------|
| 73 | Attosecond processes and X-ray spectroscopy: general discussion. <i>Faraday Discussions</i> , 2016, 194, 427-462.   | 3.2  | 0         |
| 74 | Hetero-site-specific X-ray pump-probe spectroscopy for femtosecond intramolecular dynamics. <i>Nature Communications</i> , 2016, 7, 11652.                            | 12.8 | 70        |
| 75 | Charge transfer in dissociating iodomethane and fluoromethane molecules ionized by intense femtosecond X-ray pulses. <i>Structural Dynamics</i> , 2016, 3, 043207.    | 2.3  | 59        |
| 76 | Ultrafast x-ray-induced nuclear dynamics in diatomic molecules using femtosecond x-ray-pump-x-ray-probe spectroscopy. <i>Physical Review A</i> , 2016, 94, .          | 2.5  | 24        |
| 77 | Coupled motion of Xe clusters and quantum vortices in He nanodroplets. <i>Physical Review B</i> , 2016, 93, .   | 3.2  | 31        |
| 78 | Femtosecond and nanometre visualization of structural dynamics in superheated nanoparticles. <i>Nature Photonics</i> , 2016, 10, 93-97.                               | 31.4 | 89        |
| 79 | Communication: X-ray coherent diffractive imaging by immersion in nanodroplets. <i>Structural Dynamics</i> , 2015, 2, 051102.   | 2.3  | 38        |
| 80 | Time-resolved study of ICD in Ne dimers using FEL radiation. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 245-256.                      | 1.7  | 14        |
| 81 | Diffraction effects in the Recoil-Frame Photoelectron Angular Distributions of Halomethanes. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112020.        | 0.4  | 1         |
| 82 | Strongly aligned gas-phase molecules at free-electron lasers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 204002.                  | 1.5  | 28        |
| 83 | Auf der Jagd nach Quantentornados. <i>Physik in Unserer Zeit</i> , 2015, 46, 9-10.  | 0.0  | 0         |
| 84 | Time-resolved studies with FELs. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 204, 228-236.  | 1.7  | 18        |
| 85 | Ultrafast isomerization initiated by X-ray core ionization. <i>Nature Communications</i> , 2015, 6, 8199.   | 12.8 | 92        |
| 86 | Toward atomic resolution diffractive imaging of isolated molecules with X-ray free-electron lasers. <i>Faraday Discussions</i> , 2014, 171, 393-418.                  | 3.2  | 29        |
| 87 | Automated identification and classification of single particle serial femtosecond X-ray diffraction data. <i>Optics Express</i> , 2014, 22, 2497.                     | 3.4  | 45        |
| 88 | ALS User Meeting and Workshops. <i>Synchrotron Radiation News</i> , 2014, 27, 5-9.  | 0.8  | 0         |
| 89 | Chemical reaction dynamics I and electron dynamics in molecules: general discussion. <i>Faraday Discussions</i> , 2014, 171, 145-168.                                 | 3.2  | 1         |
| 90 | Imaging molecular structure through femtosecond photoelectron diffraction on aligned and oriented gas-phase molecules. <i>Faraday Discussions</i> , 2014, 171, 57-80. | 3.2  | 55        |

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|-----|--|------|-----------|
| 91  | A superconfiguration approach to multi-electron ionization of Xe under strong x-ray irradiation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 011001.  | 1.5  | 6         |
| 92  | High-throughput imaging of heterogeneous cell organelles with an X-ray laser. <i>Nature Photonics</i> , 2014, 8, 943-949.  | 31.4 | 156       |
| 93  | Shapes and vorticities of superfluid helium nanodroplets. <i>Science</i> , 2014, 345, 906-909.   | 12.6 | 197       |
| 94  | Imaging charge transfer in iodomethane upon x-ray photoabsorption. <i>Science</i> , 2014, 345, 288-291.  | 12.6 | 183       |
| 95  | Probing ultrafast electronic and molecular dynamics with free-electron lasers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124006.  | 1.5  | 34        |
| 96  | X-Ray Diffraction from Isolated and Strongly Aligned Gas-Phase Molecules with a Free-Electron Laser. <i>Physical Review Letters</i> , 2014, 112, .   | 7.8  | 217       |
| 97  | Femtosecond x-ray photoelectron diffraction on gas-phase dibromobenzene molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 124035.  | 1.5  | 46        |
| 98  | Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic CdFeCo. <i>Nature Materials</i> , 2013, 12, 293-298.  | 27.5 | 267       |
| 99  | Resonance-enhanced multiple ionization of krypton at an x-ray free-electron laser. <i>Physical Review A</i> , 2013, 87, .  | 2.5  | 57        |
| 100 | Ultrafast Charge Rearrangement and Nuclear Dynamics upon Inner-Shell Multiple Ionization of Small Polyatomic Molecules. <i>Physical Review Letters</i> , 2013, 110, 053003.  | 7.8  | 98        |
| 101 | Sensing the wavefront of x-ray free-electron lasers using aerosol spheres. <i>Optics Express</i> , 2013, 21, 12385.  | 3.4  | 28        |
| 102 | Toward unsupervised single-shot diffractive imaging of heterogeneous particles using X-ray free-electron lasers. <i>Optics Express</i> , 2013, 21, 28729.  | 3.4  | 20        |
| 103 | Ultrafast dynamics in acetylene clocked in a femtosecond XUV stopwatch. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164027.   | 1.5  | 34        |
| 104 | Inner-shell multiple ionization of polyatomic molecules with an intense x-ray free-electron laser studied by coincident ion momentum imaging. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164031.   | 1.5  | 27        |
| 105 | Mesoscale morphology of airborne core-“shell” nanoparticle clusters: x-ray laser coherent diffraction imaging. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164033.  | 1.5  | 12        |
| 106 | Anomalous signal from S atoms in protein crystallographic data from an X-ray free-electron laser. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 838-842.   | 2.5  | 48        |
| 107 | Femtosecond photoelectron diffraction on laser-aligned molecules: Towards time-resolved imaging of molecular structure. <i>Physical Review A</i> , 2013, 88, .   | 2.5  | 76        |
| 108 | Time-Resolved Measurement of Interatomic Coulombic Decay in<math>\text{mml:math}</math><br><math>\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}</math><br><math>\text{display}=\text{"inline"}</math><math>\text{mml:msub}</math><math>\text{mml:mi}</math><math>\text{Ne}</math><math>\text{mml:mi}</math><math>\text{mml:mn}</math><math>2</math><math>\text{mml:mn}</math><math>></math><math>\text{mml:msub}</math><math>\text{mml:math}</math>. <i>Physical Review Letters</i> , 2013, 111, 093402. | 7.8  | 117       |

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|-----|--|------|-----------|
| 109 | Femtosecond free-electron laser x-ray diffraction data sets for algorithm development. <i>Optics Express</i> , 2012, 20, 4149.   | 3.4  | 56        |
| 110 | Noise-robust coherent diffractive imaging with a single diffraction pattern. <i>Optics Express</i> , 2012, 20, 16650.  | 3.4  | 73        |
| 111 | Time-resolved protein nanocrystallography using an X-ray free-electron laser. <i>Optics Express</i> , 2012, 20, 2706.  | 3.4  | 219       |
| 112 | Femtosecond dark-field imaging with an X-ray free electron laser. <i>Optics Express</i> , 2012, 20, 13501.   | 3.4  | 38        |
| 113 | X-ray optical cross-correlator for gas-phase experiments at the Linac Coherent Light Source free-electron laser. <i>Applied Physics Letters</i> , 2012, 100, .   | 3.3  | 76        |
| 114 | Next Generation Endstation for Concurrent Measurements of Charged Products and Photons in LCLS FEL Experiments. <i>Journal of Physics: Conference Series</i> , 2012, 388, 142025.                          | 0.4  | 2         |
| 115 | Ultra-efficient ionization of heavy atoms by intense X-ray free-electron laser pulses. <i>Nature Photonics</i> , 2012, 6, 858-865.   | 31.4 | 218       |
| 116 | Ultrafast Transitions from Solid to Liquid and Plasma States of Graphite Induced by X-Ray Free-Electron Laser Pulses. <i>Physical Review Letters</i> , 2012, 108, 217402.                                  | 7.8  | 60        |
| 117 | Lipidic phase membrane protein serial femtosecond crystallography. <i>Nature Methods</i> , 2012, 9, 263-265.   | 19.0 | 135       |
| 118 | Fractal morphology, imaging and mass spectrometry of single aerosol particles in flight. <i>Nature</i> , 2012, 486, 513-517.   | 27.8 | 170       |
| 119 | Self-terminating diffraction gates femtosecond X-ray nanocrystallography measurements. <i>Nature Photonics</i> , 2012, 6, 35-40.   | 31.4 | 292       |
| 120 | Nanoplasma Dynamics of Single Large Xenon Clusters Irradiated with Superintense X-Ray Pulses from the Linac Coherent Light Source Free-Electron Laser. <i>Physical Review Letters</i> , 2012, 108, 245005. | 7.8  | 129       |
| 121 | In vivo protein crystallization opens new routes in structural biology. <i>Nature Methods</i> , 2012, 9, 259-262.  | 19.0 | 193       |
| 122 | Unsupervised classification of single-particle X-ray diffraction snapshots by spectral clustering. <i>Optics Express</i> , 2011, 19, 16542.  | 3.4  | 91        |
| 123 | Radiation damage in protein serial femtosecond crystallography using an x-ray free-electron laser. <i>Physical Review B</i> , 2011, 84, 214111.  | 3.2  | 156       |
| 124 | Single mimivirus particles intercepted and imaged with an X-ray laser. <i>Nature</i> , 2011, 470, 78-81.   | 27.8 | 790       |
| 125 | Femtosecond X-ray protein nanocrystallography. <i>Nature</i> , 2011, 470, 73-77.   | 27.8 | 1,771     |
| 126 | Fragmentation dynamics of gas-phase furan following $\text{K}^+$ -shell ionization. <i>Physical Review A</i> , 2010, 82, .   | 2.5  | 10        |



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|-----|--|------|-----------|
| 145 | Velocity map ion imaging applied to studies of molecular fragmentation with synchrotron radiation. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 155-159.   | 1.7  | 22        |
| 146 | Low-Energy Nondipole Effects in Molecular Nitrogen Valence-Shell Photoionization. Physical Review Letters, 2006, 97, 103006.   | 7.8  | 13        |
| 147 | Isotope-induced partial localization of core electrons in the homonuclear molecule N <sub>2</sub> . Nature, 2005, 437, 711-715.  | 27.8 | 157       |
| 148 | An investigation of dissociative resonant photoionization in HCl and DCl using two-dimensional photoelectron spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 1535-1544.                               | 1.5  | 16        |
| 149 | Auger cascades versus direct double Auger: relaxation processes following photoionization of the Kr 3d and Xe 4d, 3d inner shells. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 3885-3903.                       | 1.5  | 53        |
| 150 | Nearest-Neighbor-Atom Core-Hole Transfer in Isolated Molecules. Physical Review Letters, 2004, 92, 223002.   | 7.8  | 12        |
| 151 | Nondipole Effects in the Photoionization of Xe4d5/2and4d3/2: Evidence for Quadrupole Satellites. Physical Review Letters, 2004, 93, 113001.  | 7.8  | 14        |
| 152 | Circular Dichroism in K-Shell Ionization from Fixed-in-Space CO and N <sub>2</sub> Molecules. Physical Review Letters, 2002, 88, 073002.   | 7.8  | 126       |
| 153 | Angular distributions of electrons photoemitted from core levels of oriented diatomic molecules: multiple scattering theory in non-spherical potentials. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, L359-L365. | 1.5  | 14        |
| 154 | K-shell photoionization of CO and N <sub>2</sub> : is there a link between the photoelectron angular distribution and the molecular decay dynamics?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 3669-3678.     | 1.5  | 111       |