

# Sylvain Maclot

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

1,646  
citations

279798

23  
h-index

289244

40  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1702  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | UV-induced dissociation of CH <sub>2</sub> BrI probed by intense femtosecond XUV pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 014001.  | 1.5  | 7         |
| 2  | Fragmentation Dynamics of Fluorene Explored Using Ultrafast XUV-Vis Pump-Probe Spectroscopy. Frontiers in Physics, 2022, 10, .   | 2.1  | 2         |
| 3  | Photodissociation dynamics of halogenated aromatic molecules: the case of core-ionized tetrabromothiophene. Physical Chemistry Chemical Physics, 2021, 23, 21249-21261.  | 2.8  | 3         |
| 4  | Formative period in the x-ray-induced photodissociation of organic molecules. Physical Review Research, 2021, 3, .   | 3.6  | 6         |
| 5  | Roadmap on dynamics of molecules and clusters in the gas phase. European Physical Journal D, 2021, 75, 1.  | 1.3  | 32        |
| 6  | Focusing Properties of High-Order Harmonics. Ultrafast Science, 2021, 2021, .  | 11.2 | 23        |
| 7  | Waterâ€“biomolecule clusters studied by photoemission spectroscopy and multilevel atomistic simulations: hydration or solvation?. Physical Chemistry Chemical Physics, 2021, 23, 15049-15058.  | 2.8  | 7         |
| 8  | Imaging multiphoton ionization dynamics of CH <sub>3</sub> I at a high repetition rate XUV free-electron laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 014001.   | 1.5  | 3         |
| 9  | Time-resolved relaxation and fragmentation of polycyclic aromatic hydrocarbons investigated in the ultrafast XUV-IR regime. Nature Communications, 2021, 12, 6107.   | 12.8 | 18        |
| 10 | Time-resolved dynamics of thiophene dication â€“ probing parent molecule survival times and multi-step dissociation processes of cyclic molecules by free-electron-laser experiments combined with theoretical simulations. Journal of Physics: Conference Series, 2020, 1412, 112007. | 0.4  | 0         |
| 11 | Unravelling molecular interactions in uracil clusters by XPS measurements assisted by ab initio and tight-binding simulations. Scientific Reports, 2020, 10, 13081.  | 3.3  | 10        |
| 12 | Ultrafast ionization and fragmentation dynamics of polycyclic aromatic hydro-carbons by XUV radiation. Journal of Physics: Conference Series, 2020, 1412, 112008.  | 0.4  | 0         |
| 13 | Deepening into the nucleation and fission processes of nano-hydrated ammonia clusters - a combined theoretical and experimental study. Journal of Physics: Conference Series, 2020, 1412, 202030.  | 0.4  | 0         |
| 14 | Adamantane dication fragmentation dynamics following ion collisions. Journal of Physics: Conference Series, 2020, 1412, 152059.  | 0.4  | 0         |
| 15 | Photodissociation dynamics of the diamondoid adamantane induced by attosecond XUV pulses. Journal of Physics: Conference Series, 2020, 1412, 152082.   | 0.4  | 0         |
| 16 | Dissociation dynamics of the diamondoid adamantane upon photoionization by XUV femtosecond pulses. Scientific Reports, 2020, 10, 2884.   | 3.3  | 13        |
| 17 | Singleshot polychromatic coherent diffractive imaging with a high-order harmonic source. Optics Express, 2020, 28, 394.  | 3.4  | 10        |
| 18 | Fanoâ€™s Propensity Rule in Angle-Resolved Attosecond Pump-Probe Photoionization. Physical Review Letters, 2019, 123, 133201.  | 7.8  | 59        |

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|----|--|------|-----------|
| 19 | Spatiotemporal coupling of attosecond pulses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4779-4787.   | 7.1  | 58        |
| 20 | Spatiotemporal Coupling of Attosecond Pulses. , 2019, , .  |      | 0         |
| 21 | Fission of charged nano-hydrated ammonia clusters â€“ microscopic insights into the nucleation processes. Physical Chemistry Chemical Physics, 2019, 21, 25749-25762.                          | 2.8  | 7         |
| 22 | Single-shot extreme-ultraviolet wavefront measurements of high-order harmonics. Optics Express, 2019, 27, 2656.  | 3.4  | 19        |
| 23 | Anisotropic photoemission time delays close to a Fano resonance. Nature Communications, 2018, 9, 955.  | 12.8 | 116       |
| 24 | A tandem mass spectrometer for crossed-beam irradiation of mass-selected molecular systems by keV atomic ions. Review of Scientific Instruments, 2018, 89, 043104.                             | 1.3  | 2         |
| 25 | Time-resolved inner-shell photoelectron spectroscopy: From a bound molecule to an isolated atom. Physical Review A, 2018, 97, .  | 2.5  | 40        |
| 26 | Coulomb explosion imaging of CH <sub>3</sub> I and CH <sub>2</sub> ClI photodissociation dynamics. Journal of Chemical Physics, 2018, 149, 204313.   | 3.0  | 46        |
| 27 | A Versatile Velocity Map Ion-Electron Covariance Imaging Spectrometer for High-Intensity XUV Experiments. Applied Sciences (Switzerland), 2018, 8, 998.  | 2.5  | 11        |
| 28 | The ELI-ALPS facility: the next generation of attosecond sources. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 132002.   | 1.5  | 128       |
| 29 | Fragmentation of pure and hydrated clusters of 5Br-uracil by low energy carbon ions: observation of hydrated fragments. Physical Chemistry Chemical Physics, 2017, 19, 19807-19814.            | 2.8  | 20        |
| 30 | Production of doubly-charged highly reactive species from the long-chain amino acid GABA initiated by Ar <sup>9+</sup> ionization. Physical Chemistry Chemical Physics, 2017, 19, 19609-19618. | 2.8  | 13        |
| 31 | Coulomb-explosion imaging of concurrent $\text{CH}_2\text{BrI}$ photodissociation dynamics. Physical Review A, 2017, 96, .   | 2.5  | 50        |
| 32 | Micro-Focusing of Broadband High-Order Harmonic Radiation by a Double Toroidal Mirror. Applied Sciences (Switzerland), 2017, 7, 1159.  | 2.5  | 21        |
| 33 | The virtual atomic and molecular data centre (VAMDC) consortium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074003.  | 1.5  | 120       |
| 34 | Determination of Energy-Transfer Distributions in Ionizing Ion-Molecule Collisions. Physical Review Letters, 2016, 117, 073201.  | 7.8  | 39        |
| 35 | Two-photon double ionization of neon using an intense attosecond pulse train. Physical Review A, 2016, 93, .   | 2.5  | 51        |
| 36 | The role of the environment in the ion induced fragmentation of uracil. Physical Chemistry Chemical Physics, 2016, 18, 16721-16729.  | 2.8  | 35        |

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|----|---|-----|-----------|
| 37 | Towards XUV-pump XUV-probe experiments with attosecond pulses at the Lund Laser Centre. Journal of Physics: Conference Series, 2015, 635, 112079.   | 0.4 | 0         |
| 38 | Ion-Induced Reactivity in Pyrene Clusters. Journal of Physics: Conference Series, 2015, 583, 012011.  | 0.4 | 3         |
| 39 | Selectivity in the photofragmentation of halo-pyrimidines. Journal of Physics: Conference Series, 2015, 635, 112041.  | 0.4 | 1         |
| 40 | Non-statistical fragmentation of large molecules in collisions with atoms. Journal of Physics: Conference Series, 2015, 635, 012036.  | 0.4 | 1         |
| 41 | Effects of the environment on the uracil molecule ionization induced by $^{12}\text{C}^{4+}$ ion beam. Journal of Physics: Conference Series, 2015, 635, 032096.  | 0.4 | 0         |
| 42 | Unusual hydrogen and hydroxyl migration in the fragmentation of excited doubly-positively-charged amino acids in the gas phase. Journal of Physics: Conference Series, 2015, 635, 032037.                       | 0.4 | 0         |
| 43 | Charge and energy flows in ionised thymidine. Journal of Physics: Conference Series, 2015, 635, 032072.   | 0.4 | 0         |
| 44 | Unusual hydroxyl migration in the fragmentation of $\hat{\text{I}}^2$ -alanine dication in the gas phase. Physical Chemistry Chemical Physics, 2015, 17, 16767-16778.   | 2.8 | 29        |
| 45 | Isomer effects in fragmentation of Polycyclic Aromatic Hydrocarbons. International Journal of Mass Spectrometry, 2015, 392, 58-62.  | 1.5 | 19        |
| 46 | Molecular Growth Inside of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. Journal of Physical Chemistry Letters, 2015, 6, 1536-1542.   | 4.6 | 62        |
| 47 | Site- and state-selected photofragmentation of 2Br-pyrimidine. Physical Chemistry Chemical Physics, 2015, 17, 24063-24069.  | 2.8 | 31        |
| 48 | Absolute fragmentation cross sections in atom-molecule collisions: Scaling laws for non-statistical fragmentation of polycyclic aromatic hydrocarbon molecules. Journal of Chemical Physics, 2014, 140, 224306. | 3.0 | 35        |
| 49 | Ions colliding with mixed clusters of $\text{C}_{60}$ and coronene: Fragmentation and bond formation. Physical Review A, 2014, 90, .  | 2.5 | 15        |
| 50 | Stability of the glycine cation in the gas phase after interaction with multiply charged ions. European Physical Journal D, 2014, 68, 1.  | 1.3 | 16        |
| 51 | Prompt and delayed fragmentation of bromouracil cations ionized by multiply charged ions. European Physical Journal D, 2014, 68, 1.   | 1.3 | 14        |
| 52 | Non-statistical fragmentation of PAHs and fullerenes in collisions with atoms. International Journal of Mass Spectrometry, 2014, 365-366, 260-265.  | 1.5 | 34        |
| 53 | Stability of multiply-charged biomolecular clusters formed upon interaction with low-energy highly charged ions. International Journal of Mass Spectrometry, 2014, 365-366, 181-186.                            | 1.5 | 6         |
| 54 | Fragmentation of amino acids induced by collisions with low-energy highly charged ions. Journal of Physics: Conference Series, 2014, 488, 102019.   | 0.4 | 0         |

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|----|---|-----|-----------|
| 55 | Bond formation in C <sup>+59</sup> C <sub>60</sub> collisions. Journal of Physics: Conference Series, 2014, 488, 012028.  | 0.4 | 0         |
| 56 | Ion interactions with pure and mixed water clusters. Journal of Physics: Conference Series, 2013, 438, 012007.  | 0.4 | 4         |
| 57 | Dynamics of Glycine Dications in the Gas Phase: Ultrafast Intramolecular Hydrogen Migration versus Coulomb Repulsion. Journal of Physical Chemistry Letters, 2013, 4, 3903-3909.  | 4.6 | 74        |
| 58 | Ions colliding with polycyclic aromatic hydrocarbon clusters. Physica Scripta, 2013, T156, 014062.  | 2.5 | 1         |
| 59 | Nanosolvation by acetonitrile and 18-crown-6 ether induce strongly different effects on the electron-capture induced dissociation of aromatic tripeptide cations in the gas phase. International Journal of Mass Spectrometry, 2013, 337, 1-11. | 1.5 | 5         |
| 60 | Fragmentation dynamics of complex molecules and their clusters. , 2013, , .   |     | 0         |
| 61 | Ions colliding with clusters of fullerenes: Decay pathways and covalent bond formations. Journal of Chemical Physics, 2013, 139, 034309.  | 3.0 | 21        |
| 62 | Formations of Dumbbell $C_{118}$ and $C_{119}$ inside Clusters of $C_{118}$ and $C_{119}$ . Journal of Chemical Physics, 2013, 139, 034309.   | 7.8 | 61        |
| 63 | Ion interaction with biomolecular systems and the effect of the environment. Journal of Physics: Conference Series, 2012, 373, 012005.  | 0.4 | 17        |
| 64 | Influence of the environment on the fragmentation of amino acids provoked by low-energy ions. Journal of Physics: Conference Series, 2012, 388, 102052.   | 0.4 | 0         |
| 65 | Ionization and fragmentation of cold clusters of PAH molecules: collisions with keV ions. Journal of Physics: Conference Series, 2012, 388, 012051.   | 0.4 | 4         |
| 66 | Interaction of multiply charged ions with isolated polycyclic aromatic hydrocarbon molecules. Journal of Physics: Conference Series, 2012, 388, 102049.   | 0.4 | 0         |
| 67 | Interaction of nucleobase clusters with multiply charged ions: Insight into base pairing. Journal of Physics: Conference Series, 2012, 388, 102050.   | 0.4 | 0         |
| 68 | Highly Charged Ion - Induced Water Cluster Fragmentation. Journal of Physics: Conference Series, 2012, 388, 102053.   | 0.4 | 0         |
| 69 | A Multicoincidence Study of Fragmentation Dynamics in Collision of $^{13}C$ Aminobutyric Acid with Low-Energy Ions. Chemistry - A European Journal, 2012, 18, 9321-9332.  | 3.3 | 44        |
| 70 | Low-energy ions interacting with anthracene molecules and clusters. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 140-143.  | 1.4 | 23        |
| 71 | Ion-Induced Fragmentation of Amino Acids: Effect of the Environment. ChemPhysChem, 2011, 12, 930-936.   | 2.1 | 44        |
| 72 | Ionization and fragmentation of polycyclic aromatic hydrocarbon clusters in collisions with keV ions. Physical Review A, 2011, 84, .  | 2.5 | 38        |

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|----|--|-----|-----------|
| 73 | Multiple ionization and fragmentation of isolated pyrene and coronene molecules in collision with ions. Physical Review A, 2011, 83, . | 2.5 | 66        |
| 74 | Linewidth oscillations in a nanometer-size double-slit interference experiment with single electrons. Physical Review A, 2010, 81, .   | 2.5 | 9         |