

Sylvain Maclot

List of Publications by Year in descending order

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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	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
2	The virtual atomic and molecular data centre (VAMDC) consortium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074003.	1.5	120
3	Anisotropic photoemission time delays close to a Fano resonance. Nature Communications, 2018, 9, 955.	12.8	116
4	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
5	Multiple ionization and fragmentation of isolated pyrene and coronene molecules in collision with ions. Physical Review A, 2011, 83, .	2.5	66
6	Molecular Growth Inside of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. Journal of Physical Chemistry Letters, 2015, 6, 1536-1542.	4.6	62
7	Formation of Dumbbells C_{118} and C_{119} inside Clusters of Polycyclic Aromatic Hydrocarbon Clusters Induced by Ion Collisions. Journal of Physical Chemistry Letters, 2015, 6, 1536-1542.	7.8	61
8	Fano's Propensity Rule in Angle-Resolved Attosecond Pump-Probe Photoionization. Physical Review Letters, 2019, 123, 133201.	7.8	59
9	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
10	Two-photon double ionization of neon using an intense attosecond pulse train. Physical Review A, 2016, 93, .	2.5	51
11	Coulomb-explosion imaging of concurrent $CHBr$ photodissociation dynamics. Physical Review A, 2017, 96, .	2.5	50
12	Coulomb explosion imaging of CH_3I and CH_2ClI photodissociation dynamics. Journal of Chemical Physics, 2018, 149, 204313.	3.0	46
13	Ion-Induced Fragmentation of Amino Acids: Effect of the Environment. ChemPhysChem, 2011, 12, 930-936.	2.1	44
14	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
15	Time-resolved inner-shell photoelectron spectroscopy: From a bound molecule to an isolated atom. Physical Review A, 2018, 97, .	2.5	40
16	Determination of Energy-Transfer Distributions in Ionizing Ion-Molecule Collisions. Physical Review Letters, 2016, 117, 073201.	7.8	39
17	Ionization and fragmentation of polycyclic aromatic hydrocarbon clusters in collisions with keV ions. Physical Review A, 2011, 84, .	2.5	38
18	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

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19	The role of the environment in the ion induced fragmentation of uracil. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16721-16729.	2.8	35
20	Non-statistical fragmentation of PAHs and fullerenes in collisions with atoms. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 260-265.	1.5	34
21	Roadmap on dynamics of molecules and clusters in the gas phase. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	32
22	Site- and state-selected photofragmentation of 2Br-pyrimidine. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24063-24069.	2.8	31
23	Unusual hydroxyl migration in the fragmentation of $\hat{\text{I}}^2$ -alanine dication in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16767-16778.	2.8	29
24	Low-energy ions interacting with anthracene molecules and clusters. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 279, 140-143.	1.4	23
25	Focusing Properties of High-Order Harmonics. <i>Ultrafast Science</i> , 2021, 2021, .	11.2	23
26	Ions colliding with clusters of fullerenes – Decay pathways and covalent bond formations. <i>Journal of Chemical Physics</i> , 2013, 139, 034309.	3.0	21
27	Micro-Focusing of Broadband High-Order Harmonic Radiation by a Double Toroidal Mirror. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1159.	2.5	21
28	Fragmentation of pure and hydrated clusters of 5Br-uracil by low energy carbon ions: observation of hydrated fragments. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19807-19814.	2.8	20
29	Isomer effects in fragmentation of Polycyclic Aromatic Hydrocarbons. <i>International Journal of Mass Spectrometry</i> , 2015, 392, 58-62.	1.5	19
30	Single-shot extreme-ultraviolet wavefront measurements of high-order harmonics. <i>Optics Express</i> , 2019, 27, 2656.	3.4	19
31	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
32	Ion interaction with biomolecular systems and the effect of the environment. <i>Journal of Physics: Conference Series</i> , 2012, 373, 012005.	0.4	17
33	Stability of the glycine cation in the gas phase after interaction with multiply charged ions. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	16
34	Ions colliding with mixed clusters of C_{60} and coronene: Fragmentation and bond formation. <i>Physical Review A</i> , 2014, 90, .	2.5	15
35	Prompt and delayed fragmentation of bromouracil cations ionized by multiply charged ions. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	14
36	Production of doubly-charged highly reactive species from the long-chain amino acid GABA initiated by Ar^{9+} ionization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19609-19618.	2.8	13

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37	Dissociation dynamics of the diamondoid adamantane upon photoionization by XUV femtosecond pulses. <i>Scientific Reports</i> , 2020, 10, 2884.	3.3	13
38	A Versatile Velocity Map Ion-Electron Covariance Imaging Spectrometer for High-Intensity XUV Experiments. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 998.	2.5	11
39	Unravelling molecular interactions in uracil clusters by XPS measurements assisted by ab initio and tight-binding simulations. <i>Scientific Reports</i> , 2020, 10, 13081.	3.3	10
40	Singleshot polychromatic coherent diffractive imaging with a high-order harmonic source. <i>Optics Express</i> , 2020, 28, 394.	3.4	10
41	Linewidth oscillations in a nanometer-size double-slit interference experiment with single electrons. <i>Physical Review A</i> , 2010, 81, .	2.5	9
42	Fission of charged nano-hydrated ammonia clusters – microscopic insights into the nucleation processes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25749-25762.	2.8	7
43	Water – biomolecule clusters studied by photoemission spectroscopy and multilevel atomistic simulations: hydration or solvation?. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15049-15058.	2.8	7
44	UV-induced dissociation of CH ₂ BrI probed by intense femtosecond XUV pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2022, 55, 014001.	1.5	7
45	Stability of multiply-charged biomolecular clusters formed upon interaction with low-energy highly charged ions. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 181-186.	1.5	6
46	Formative period in the x-ray-induced photodissociation of organic molecules. <i>Physical Review Research</i> , 2021, 3, .	3.6	6
47	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. <i>International Journal of Mass Spectrometry</i> , 2013, 337, 1-11.	1.5	5
48	Ionization and fragmentation of cold clusters of PAH molecules – collisions with keV ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 012051.	0.4	4
49	Ion interactions with pure and mixed water clusters. <i>Journal of Physics: Conference Series</i> , 2013, 438, 012007.	0.4	4
50	Ion-Induced Reactivity in Pyrene Clusters. <i>Journal of Physics: Conference Series</i> , 2015, 583, 012011.	0.4	3
51	Photodissociation dynamics of halogenated aromatic molecules: the case of core-ionized tetrabromothiophene. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21249-21261.	2.8	3
52	Imaging multiphoton ionization dynamics of CH ₃ 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
53	A tandem mass spectrometer for crossed-beam irradiation of mass-selected molecular systems by keV atomic ions. <i>Review of Scientific Instruments</i> , 2018, 89, 043104.	1.3	2
54	Fragmentation Dynamics of Fluorene Explored Using Ultrafast XUV-Vis Pump-Probe Spectroscopy. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	2

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55	Ions colliding with polycyclic aromatic hydrocarbon clusters. <i>Physica Scripta</i> , 2013, T156, 014062.	2.5	1
56	Selectivity in the photofragmentation of halo-pyrimidines. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112041.	0.4	1
57	Non-statistical fragmentation of large molecules in collisions with atoms. <i>Journal of Physics: Conference Series</i> , 2015, 635, 012036.	0.4	1
58	Influence of the environment on the fragmentation of amino acids provoked by low-energy ions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102052.	0.4	0
59	Interaction of multiply charged ions with isolated polycyclic aromatic hydrocarbon molecules. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102049.	0.4	0
60	Interaction of nucleobase clusters with multiply charged ions: Insight into base pairing. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102050.	0.4	0
61	Highly Charged Ion - Induced Water Cluster Fragmentation. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102053.	0.4	0
62	Fragmentation dynamics of complex molecules and their clusters. , 2013, , .		0
63	Fragmentation of amino acids induced by collisions with low-energy highly charged ions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 102019.	0.4	0
64	Bond formation in C^{+59} C_{60} collisions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012028.	0.4	0
65	Towards XUV-pump XUV-probe experiments with attosecond pulses at the Lund Laser Centre. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112079.	0.4	0
66	Effects of the environment on the uracil molecule ionization induced by $^{12}C^{4+}$ ion beam. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032096.	0.4	0
67	Unusual hydrogen and hydroxyl migration in the fragmentation of excited doubly-positively-charged amino acids in the gas phase. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032037.	0.4	0
68	Charge and energy flows in ionised thymidine. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032072.	0.4	0
69	Spatiotemporal Coupling of Attosecond Pulses. , 2019, , .		0
70	Time-resolved dynamics of thiophene dication $^{4+}$ probing parent molecule survival times and multi-step dissociation processes of cyclic molecules by free-electron-laser experiments combined with theoretical simulations. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112007.	0.4	0
71	Ultrafast ionization and fragmentation dynamics of polycyclic aromatic hydro-carbons by XUV radiation. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112008.	0.4	0
72	Deepening into the nucleation and fission processes of nano-hydrated ammonia clusters - a combined theoretical and experimental study. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 202030.	0.4	0

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73	Adamantane dication fragmentation dynamics following ion collisions. Journal of Physics: Conference Series, 2020, 1412, 152059.	0.4	0
74	Photodissociation dynamics of the diamondoid adamantane induced by attosecond XUV pulses. Journal of Physics: Conference Series, 2020, 1412, 152082.	0.4	0