

# Filipe Ferreira da Silva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3440325/publications.pdf>

Version: 2024-02-01

122  
papers

1,608  
citations

279798

23  
h-index

395702

33  
g-index

126  
all docs

126  
docs citations

126  
times ranked

1211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling low energy electron and positron tracks in biologically relevant media. <i>European Physical Journal D</i> , 2013, 67, 1.	1.3	78
2	The VUV electronic spectroscopy of acetone studied by synchrotron radiation. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 550-560.	2.8	59
3	NCO <sup>+</sup> , a Key Fragment Upon Dissociative Electron Attachment and Electron Transfer to Pyrimidine Bases: Site Selectivity for a Slow Decay Process. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1787-1797.	2.8	53
4	The Effect of Solvation on Electron Attachment to Pure and Hydrated Pyrimidine Clusters. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9124-9126.	13.8	51
5	Dissociative Electron Attachment to DNA Bases Near Absolute Zero Temperature: Freezing Dissociation Intermediates. <i>ChemPhysChem</i> , 2008, 9, 1387-1389.	2.1	45
6	The electronic states of pyrimidine studied by VUV photoabsorption and electron energy-loss spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6717.	2.8	45
7	Ion-Molecule Reactions in Helium Nanodroplets Doped with C <sub>60</sub> and Water Clusters. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8940-8943.	13.8	43
8	Selective Bond Cleavage in Potassium Collisions with Pyrimidine Bases of DNA. <i>Physical Review Letters</i> , 2013, 110, 023201.	7.8	43
9	Electron impact ionization studies with the amino acid valine in the gas phase and (hydrated) in helium droplets. <i>European Physical Journal D</i> , 2009, 51, 73-79.	1.3	39
10	Electron transfer-induced fragmentation of thymine and uracil in atom-molecule collisions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15657.	2.8	34
11	On the Size of Ions Solvated in Helium Clusters. <i>Chemistry - A European Journal</i> , 2009, 15, 7101-7108.	3.3	33
12	An investigation into electron scattering from pyrazine at intermediate and high energies. <i>Journal of Chemical Physics</i> , 2013, 139, 184310.	3.0	32
13	Low-energy electron-induced decomposition of 5-trifluoromethanesulfonyl-uracil: A potential radiosensitizer. <i>Journal of Chemical Physics</i> , 2018, 149, 164307.	3.0	31
14	Electron attachment to trinitrotoluene (TNT) embedded in He droplets: complete freezing of dissociation intermediates in an extended range of electron energies. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8240.	2.8	30
15	Essential oil of <i>Lippia alba</i> and its main constituent citral block the excitability of rat sciatic nerves. <i>Brazilian Journal of Medical and Biological Research</i> , 2015, 48, 697-702.	1.5	30
16	Dissociative electron attachment to nitromethane. <i>International Journal of Mass Spectrometry</i> , 2008, 271, 15-21.	1.5	29
17	Argon clusters embedded in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9791.	2.8	29
18	Electron attachment to amino acid clusters in helium nanodroplets: Glycine, alanine, and serine. <i>Journal of Chemical Physics</i> , 2010, 132, 214306.	3.0	29

#	ARTICLE	IF	CITATIONS
19	Formation of even-numbered hydrogen cluster cations in ultracold helium droplets. <i>Journal of Chemical Physics</i> , 2008, 129, 224306.	3.0	28
20	Electron attachment and electron ionization of acetic acid clusters embedded in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11631.	2.8	28
21	Dissociative electron attachment to gas-phase formamide. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12305.	2.8	28
22	Total electron scattering cross sections from <i>para</i> -benzoquinone in the energy range 1–200 eV. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22368-22378.	2.8	27
23	Electron transfer processes in potassium collisions with 5-fluorouracil and 5-chlorouracil. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21621.	2.8	25
24	N-site de-methylation in pyrimidine bases as studied by low energy electrons and ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11431.	2.8	23
25	Electron scattering cross section data for tungsten and beryllium atoms from 0.1 to 5000 eV. <i>Plasma Sources Science and Technology</i> , 2017, 26, 085004.	3.1	23
26	Measuring electron-impact cross sections of water: elastic scattering and electronic excitation of the $\tilde{A}^1B_1$ and $\tilde{A}^1B_1$ states. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	22
27	Electronic excitation of carbonyl sulphide (COS) by high-resolution vacuum ultraviolet photoabsorption and electron-impact spectroscopy in the energy region from 4 to 11 eV. <i>Journal of Chemical Physics</i> , 2015, 142, 064303.	3.0	21
28	Electron Attachment to Formamide Clusters in Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1633-1638.	2.5	20
29	Magnetically confined electron beam system for high resolution electron transmission-beam experiments. <i>Review of Scientific Instruments</i> , 2018, 89, 063105.	1.3	20
30	Electronic excitation of furfural as probed by high-resolution vacuum ultraviolet spectroscopy, electron energy loss spectroscopy, and <i>ab initio</i> calculations. <i>Journal of Chemical Physics</i> , 2015, 143, 144308.	3.0	19
31	Reactions in Tirapazamine Induced by the Attachment of Low-Energy Electrons: Dissociation Versus Roaming of OH. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17177-17181.	13.8	19
32	Low energy electron transport in furfural. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	18
33	Formation of the Magic $\langle \text{scp} \rangle_L$ Serine Octamer in Helium Nanodroplets. <i>ChemPhysChem</i> , 2010, 11, 90-92.	2.1	17
34	Potassium-Uracil/Thymine Ring Cleavage Enhancement As Studied in Electron Transfer Experiments and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6547-6552.	2.5	17
35	Electron impact ionization of CCl <sub>4</sub> and SF <sub>6</sub> embedded in superfluid helium droplets. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 26-31.	1.5	16
36	Total electron scattering cross section from pyridine molecules in the energy range 10–1000 eV. <i>Chemical Physics Letters</i> , 2018, 699, 182-187.	2.6	16

#	ARTICLE	IF	CITATIONS
37	Experimental and theoretical analysis for total electron scattering cross sections of benzene. <i>Journal of Chemical Physics</i> , 2019, 151, 084310.	3.0	16
38	Revisiting the photoabsorption spectrum of NH <sub>3</sub> in the 5.4–10.8 eV energy region. <i>Journal of Chemical Physics</i> , 2019, 151, 184302.	3.0	16
39	Probing royal demolition explosive (1,3,5-trinitro-1,3,5-triazocyclohexane) by low-energy electrons: Strong dissociative electron attachment near 0 eV. <i>Journal of Chemical Physics</i> , 2009, 131, 144304.	3.0	15
40	Negative ion formation through dissociative electron attachment to GeH <sub>4</sub> : Comparative studies with CH <sub>4</sub> and SiH <sub>4</sub> . <i>International Journal of Mass Spectrometry</i> , 2011, 306, 51-56.	1.5	15
41	Dynamic of negative ions in potassium-D-ribose collisions. <i>Journal of Chemical Physics</i> , 2013, 139, 114304.	3.0	15
42	Ion-Pair Formation in Neutral Potassium-Neutral Pyrimidine Collisions: Electron Transfer Experiments. <i>Frontiers in Chemistry</i> , 2019, 7, 264.	3.6	14
43	Anionic fragmentation of glycine upon potassium-molecule collisions. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	13
44	New Fragmentation Pathways in K <sup>+</sup> -THF Collisions As Studied by Electron-Transfer Experiments: Negative Ion Formation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 690-696.	2.5	13
45	Toluene Valence and Rydberg Excitations as Studied by <i>ab initio</i> Calculations and Vacuum Ultraviolet (VUV) Synchrotron Radiation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9059-9069.	2.5	13
46	Electron attachment to the dipeptide dialanine: influence of methylation on site selective dissociation reactions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3834.	2.8	12
47	Electron attachment studies to musk ketone and high mass resolution anionic isobaric fragment detection. <i>International Journal of Mass Spectrometry</i> , 2008, 277, 123-129.	1.5	11
48	Electron interaction with nitromethane embedded in helium droplets: Attachment and ionization measurements. <i>Journal of Chemical Physics</i> , 2011, 135, 174504.	3.0	11
49	Dissociative Electron Attachment to the Nitroamine HMX (Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine). <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 744-752.	2.8	11
50	Clustering and condensation effects in the electron scattering cross sections from water molecules. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 287-294.	1.5	11
51	Side chain effects in reactions of the potassium-tyrosine charge transfer complex. <i>Chemical Physics Letters</i> , 2016, 662, 19-24.	2.6	11
52	Electron-impact electronic-state excitation of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2018, 148, 124312.	3.0	11
53	Dissociative excitation study of iron pentacarbonyl molecule. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	10
54	Total electron scattering cross section from sevoflurane by 1–300 eV energy electron impact. <i>Chemical Physics Letters</i> , 2018, 706, 533-537.	2.6	10

#	ARTICLE	IF	CITATIONS
55	Formation of resonances and anionic fragments upon electron attachment to benzaldehyde. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8171-8181.	2.8	10
56	Dissociation of the FEBID precursor <i>cis</i> -Pt(CO) <sub>2</sub> Cl <sub>2</sub> driven by low-energy electrons. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6100-6108.	2.8	10
57	Experimental Evidence for the Existence of an Electronically Excited State of the Proposed Dihydrogen Radical Cation He <sup>+</sup> He <sup>+</sup> . <i>Chemistry - A European Journal</i> , 2009, 15, 4190-4194.	3.3	9
58	Dissociative electron attachment to pentaerythritol tetranitrate: Significant fragmentation near 0 eV. <i>Journal of Chemical Physics</i> , 2010, 132, 134305.	3.0	9
59	Electronic Excitation to Singlet States of 1,3-C <sub>4</sub> F <sub>6</sub> , c-C <sub>4</sub> F <sub>6</sub> and 2-C <sub>4</sub> F <sub>6</sub> by Electron Impact - Electron Energy-Loss Spectroscopy and ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10529-10538.	2.5	9
60	Elastic differential cross sections for C <sub>4</sub> F <sub>6</sub> isomers in the 1.5–200 eV energy electron impact: Similarities with six fluorine containing molecules and evidence of F-atom like scattering. <i>Journal of Chemical Physics</i> , 2014, 141, 124302.	3.0	9
61	Electronic State Spectroscopy of Halothane As Studied by ab Initio Calculations, Vacuum Ultraviolet Synchrotron Radiation, and Electron Scattering Methods. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8503-8511.	2.5	9
62	Electron transfer driven decomposition of adenine and selected analogs as probed by experimental and theoretical methods. <i>Journal of Chemical Physics</i> , 2018, 148, 134301.	3.0	9
63	Electron-Induced Reactions in Bromopyruvic Acid. <i>Chemistry - A European Journal</i> , 2019, 25, 5498-5506.	3.3	8
64	Electron Driven Reactions in Tetrafluoroethane: Positive and Negative Ion Formation. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1459-1468.	2.8	8
65	Spectroscopic studies of ketones as a marker for patients with diabetes. <i>Journal of Physics: Conference Series</i> , 2008, 101, 012011.	0.4	7
66	Anion formation in gas-phase potassium-uridine collisions. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 243-247.	1.5	7
67	Crossed-beam experiment for the scattering of low- and intermediate-energy electrons from BF <sub>3</sub> : A comparative study with XF <sub>3</sub> (X = C, N, and CH) molecules. <i>Journal of Chemical Physics</i> , 2015, 143, 024313.	3.0	7
68	Valence and lowest Rydberg electronic states of phenol investigated by synchrotron radiation and theoretical methods. <i>Journal of Chemical Physics</i> , 2016, 145, 034302.	3.0	7
69	Theoretical and experimental study on electron interactions with chlorobenzene: Shape resonances and differential cross sections. <i>Journal of Chemical Physics</i> , 2016, 145, 084311.	3.0	7
70	Communication: Site-selective bond excision of adenine upon electron transfer. <i>Journal of Chemical Physics</i> , 2018, 148, 021101.	3.0	7
71	A dynamical (e,2e) investigation into the ionization of the outermost orbitals of R-carvone. <i>Journal of Chemical Physics</i> , 2019, 151, 124306.	3.0	7
72	Electron transfer to aliphatic amino acids in neutral potassium collisions. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 238-242.	1.5	6

#	ARTICLE	IF	CITATIONS
73	Electron interactions with the focused electron beam induced processing (FEBID) precursor tungsten hexachloride. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1139-1144.	1.5	6
74	The Role of Electron Transfer in the Fragmentation of Phenyl and Cyclohexyl Boronic Acids. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5578.	4.1	6
75	Studies of low-lying triplet states in 1,3-C <sub>4</sub> F <sub>6</sub> , c-C <sub>4</sub> F <sub>6</sub> and 2-C <sub>4</sub> F <sub>6</sub> by electron energy-loss spectroscopy and ab initio calculations. <i>Chemical Physics Letters</i> , 2013, 574, 32-36.	2.6	5
76	Novel experimental setup for time-of-flight mass spectrometry ion detection in collisions of anionic species with neutral gas-phase molecular targets. <i>EPJ Techniques and Instrumentation</i> , 2015, 2, 13.	1.3	5
77	Combined experimental and theoretical study on the differential elastic scattering cross sections for acetone by electron impact energy of 7.0–50 eV. <i>Physical Review A</i> , 2016, 93, .	2.5	5
78	Unravelling the dissociation pathways of acetic acid upon electron transfer in potassium collisions: experimental and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1083-1088.	2.8	5
79	Interactions of low-energy electrons with the FEBID precursor chromium hexacarbonyl (Cr(CO) <sub>6</sub> ). <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2583-2590.	2.8	5
80	Comprehensive investigation of the electronic excitation of W(CO) <sub>6</sub> by photoabsorption and theoretical analysis in the energy region from 3.9 to 10.8 eV. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2208-2218.	2.8	5
81	Experimental and theoretical electron-scattering cross-section data for dichloromethane. <i>Physical Review A</i> , 2018, 97, .	2.5	5
82	The Role of Low-Energy Electron Interactions in cis-Pt(CO) <sub>2</sub> Br <sub>2</sub> Fragmentation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8984.	4.1	5
83	High resolution photoabsorption spectrum of hexafluoro-1,3-butadiene (1,3-C <sub>4</sub> F <sub>6</sub> ) as studied by vacuum ultraviolet (VUV) synchrotron radiation. <i>Chemical Physics Letters</i> , 2012, 550, 62-66.	2.6	4
84	Semtex 1A and H negative ion resonances for explosives™ detection. <i>International Journal of Mass Spectrometry</i> , 2012, 309, 39-43.	1.5	4
85	Theoretical and experimental cross sections for electron scattering from halothane. <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	4
86	Electronic structure and VUV photoabsorption measurements of thiophene. <i>Journal of Chemical Physics</i> , 2019, 150, 064303.	3.0	4
87	Kinetic-energy release distributions of fragment anions from collisions of potassium atoms with D-Ribose and tetrahydrofuran. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	3
88	Decomposition of protonated ronidazole studied by low-energy and high-energy collision-induced dissociation and density functional theory. <i>Journal of Chemical Physics</i> , 2019, 151, 164306.	3.0	3
89	Selective bond breaking of halothane induced by electron transfer in potassium collisions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23837-23846.	2.8	3
90	Electron-Transfer-Induced Side-Chain Cleavage in Tryptophan Facilitated through Potassium-Induced Transition-State Stabilization in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2021, 125, 2324-2333.	2.5	3

#	ARTICLE	IF	CITATIONS
91	New routes in the formation of positively charged fragments upon electron attachment. European Physical Journal D, 2022, 76, 1.	1.3	3
92	Valence and Rydberg Excitations of 2,4- and 2,6-Difluorotoluene as Studied by Vacuum Ultraviolet Synchrotron Radiation and ab Initio Calculations. Journal of Physical Chemistry A, 2016, 120, 8998-9007.	2.5	2
93	The lowest-lying electronic states of isoflurane and sevoflurane in the 5.0â€“10.8â€“eV energy range investigated by experimental and theoretical methods. Chemical Physics Letters, 2019, 716, 42-48.	2.6	2
94	Perfluoro effect on the electronic excited states of <i>para</i> -benzoquinone revealed by experiment and theory. Physical Chemistry Chemical Physics, 2021, 23, 2141-2153.	2.8	2
95	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ <sub>0</sub> and CoQ <sub>0</sub> H <sub>2</sub> . ChemPhysChem, 2022, 23, e202100834.	2.1	2
96	Site- and bond-selective H <sup>+</sup> formation in methylated pyrimidine bases driven by potassium-molecule collisions. Journal of Physics: Conference Series, 2012, 388, 012040.	0.4	1
97	Negative ion chemistry of Deoxyribose and THF upon potassium atom collisions. Journal of Physics: Conference Series, 2014, 488, 012043.	0.4	1
98	Modeling secondary particle tracks generated by high-energy protons in water. Journal of Physics: Conference Series, 2015, 635, 032092.	0.4	1
99	Electron induced fragmentation of sulphur containing biological prototypes: thiaproline and taurine. Journal of Physics: Conference Series, 2015, 635, 072069.	0.4	1
100	Pt(CO) <sub>2</sub> Cl <sub>2</sub> fragmentation upon low energy electron interactions. Journal of Physics: Conference Series, 2017, 875, 062035.	0.4	1
101	Probing the Lowest-Lying Electronic States of Acrylic Acid by Experimental and Theoretical Methods. Journal of Physical Chemistry A, 2018, 122, 8191-8197.	2.5	1
102	Reaktionen in Tirapazamin induziert durch die Anlagerung von niederenergetischen Elektronen: Dissoziation versus Roaming von OH. Angewandte Chemie, 2020, 132, 17330-17334.	2.0	1
103	Excited States of Bromopyrimidines Probed by VUV Photoabsorption Spectroscopy and Theoretical Calculations. International Journal of Molecular Sciences, 2021, 22, 6460.	4.1	1
104	Charge Transfer Processes in Key Biological Systems. Bioanalysis, 2019, , 329-348.	0.1	1
105	Electron Transfer-Induced Fragmentation in (Bio)Molecules by Atom-Molecule Collisions. Biological and Medical Physics Series, 2012, , 59-70.	0.4	1
106	Triphenylboroxine stability under low-energy-electron interactions. Physical Chemistry Chemical Physics, 2022, 24, 10025-10032.	2.8	1
107	Synthesis of polycyclic aromatic hydrocarbons in He nanodroplets. Journal of Physics: Conference Series, 2012, 388, 052053.	0.4	0
108	Site and bond selective H <sup>+</sup> formation in methylated pyrimidine bases driven by potassium molecule collisions. Journal of Physics: Conference Series, 2012, 388, 102032.	0.4	0

#	ARTICLE	IF	CITATIONS
109	Demethylation enhancement of 3-methyl-uracil and 1-methyl-thymine in atom-molecule collisions. Journal of Physics: Conference Series, 2012, 388, 102031.	0.4	0
110	CNO <sup>+</sup> formation through selective bond cleavage. Journal of Physics: Conference Series, 2014, 488, 102018.	0.4	0
111	Electron transfer induced fragmentation of acetic acid. Journal of Physics: Conference Series, 2014, 488, 052020.	0.4	0
112	The role of side chains in electron transfer induced fragmentation of amino-acids. Journal of Physics: Conference Series, 2014, 488, 052021.	0.4	0
113	Complex internal rearrangement processes triggered by electron transfer to acetic acid. Journal of Physics: Conference Series, 2015, 635, 012002.	0.4	0
114	DEA to bare and water-solvated pyrimidine clusters. Journal of Physics: Conference Series, 2015, 635, 072055.	0.4	0
115	Dissociative electron attachment to 3-bromopyruvic acid. Journal of Physics: Conference Series, 2017, 875, 062042.	0.4	0
116	Elastic Differential Cross Sections for Electron Scattering with Dichloromethane. Journal of Physics: Conference Series, 2017, 875, 062036.	0.4	0
117	Low-energy electron interactions with chromium hexacarbonyl Cr(CO) <sub>6</sub> . Journal of Physics: Conference Series, 2017, 875, 062003.	0.4	0
118	Electron transfer processes in potassium collision with nitroimidazoles: the role of methylation at N1 site. Journal of Physics: Conference Series, 2017, 875, 052035.	0.4	0
119	Electron-transfer studies in potassium collisions with tetrachloromethane. Journal of Physics: Conference Series, 2017, 875, 102015.	0.4	0
120	Electron attachment studies with 2,3-dimethoxy-5-methyl-1,4-benzoquinone. Journal of Physics: Conference Series, 2017, 875, 062034.	0.4	0
121	Electron transfer to phenyl boronic acid upon potassium collisions. Journal of Physics: Conference Series, 2020, 1412, 052002.	0.4	0
122	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ <sub>0</sub> and CoQ <sub>0</sub> H <sub>2</sub> . ChemPhysChem, 2022, 23, e202200094.	2.1	0