

Filipe Ferreira da Silva

List of Publications by Year in descending order

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122
papers

1,608
citations

279798

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395702

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docs citations

126
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ ₀ and CoQ ₀ H ₂ . ChemPhysChem, 2022, 23, e202100834.	2.1	2
2	New routes in the formation of positively charged fragments upon electron attachment. European Physical Journal D, 2022, 76, 1.	1.3	3
3	Triphenylboroxine stability under low-energy-electron interactions. Physical Chemistry Chemical Physics, 2022, 24, 10025-10032.	2.8	1
4	Formation of Temporary Negative Ions and Their Subsequent Fragmentation upon Electron Attachment to CoQ ₀ and CoQ ₀ H ₂ . ChemPhysChem, 2022, 23, e202200094.	2.1	0
5	Electron-Transfer-Induced Side-Chain Cleavage in Tryptophan Facilitated through Potassium-Induced Transition-State Stabilization in the Gas Phase. Journal of Physical Chemistry A, 2021, 125, 2324-2333.	2.5	3
6	Electron Driven Reactions in Tetrafluoroethane: Positive and Negative Ion Formation. Journal of the American Society for Mass Spectrometry, 2021, 32, 1459-1468.	2.8	8
7	Excited States of Bromopyrimidines Probed by VUV Photoabsorption Spectroscopy and Theoretical Calculations. International Journal of Molecular Sciences, 2021, 22, 6460.	4.1	1
8	The Role of Low-Energy Electron Interactions in cis-Pt(CO) ₂ Br ₂ Fragmentation. International Journal of Molecular Sciences, 2021, 22, 8984.	4.1	5
9	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
10	Selective bond breaking of halothane induced by electron transfer in potassium collisions. Physical Chemistry Chemical Physics, 2020, 22, 23837-23846.	2.8	3
11	Electron transfer to phenyl boronic acid upon potassium collisions. Journal of Physics: Conference Series, 2020, 1412, 052002.	0.4	0
12	Reaktionen in Tirapazamin induziert durch die Anlagerung von niederenergetischen Elektronen: Dissoziation versus Roaming von OH. Angewandte Chemie, 2020, 132, 17330-17334.	2.0	1
13	Reactions in Tirapazamine Induced by the Attachment of Low-Energy Electrons: Dissociation Versus Roaming of OH. Angewandte Chemie - International Edition, 2020, 59, 17177-17181.	13.8	19
14	Formation of resonances and anionic fragments upon electron attachment to benzaldehyde. Physical Chemistry Chemical Physics, 2020, 22, 8171-8181.	2.8	10
15	Dissociation of the FEBID precursor <i>cis</i> -Pt(CO) ₂ Cl ₂ driven by low-energy electrons. Physical Chemistry Chemical Physics, 2020, 22, 6100-6108.	2.8	10
16	Theoretical and experimental cross sections for electron scattering from halothane. European Physical Journal D, 2019, 73, 1.	1.3	4
17	A dynamical (e,2e) investigation into the ionization of the outermost orbitals of R-carvone. Journal of Chemical Physics, 2019, 151, 124306.	3.0	7
18	Decomposition of protonated ronidazole studied by low-energy and high-energy collision-induced dissociation and density functional theory. Journal of Chemical Physics, 2019, 151, 164306.	3.0	3

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19	Experimental and theoretical analysis for total electron scattering cross sections of benzene. <i>Journal of Chemical Physics</i> , 2019, 151, 084310.	3.0	16
20	Electron-Induced Reactions in α -Bromopyruvic Acid. <i>Chemistry - A European Journal</i> , 2019, 25, 5498-5506.	3.3	8
21	Ion-Pair Formation in Neutral Potassium-Neutral Pyrimidine Collisions: Electron Transfer Experiments. <i>Frontiers in Chemistry</i> , 2019, 7, 264.	3.6	14
22	Electronic structure and VUV photoabsorption measurements of thiophene. <i>Journal of Chemical Physics</i> , 2019, 150, 064303.	3.0	4
23	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
24	Revisiting the photoabsorption spectrum of NH ₃ in the 5.4–10.8 eV energy region. <i>Journal of Chemical Physics</i> , 2019, 151, 184302.	3.0	16
25	The lowest-lying electronic states of isoflurane and sevoflurane in the 5.0–10.8 eV energy range investigated by experimental and theoretical methods. <i>Chemical Physics Letters</i> , 2019, 716, 42-48.	2.6	2
26	Charge Transfer Processes in Key Biological Systems. <i>Bioanalysis</i> , 2019, , 329-348.	0.1	1
27	Electron-impact electronic-state excitation of <i>para</i> -benzoquinone. <i>Journal of Chemical Physics</i> , 2018, 148, 124312.	3.0	11
28	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
29	Experimental and theoretical electron-scattering cross-section data for dichloromethane. <i>Physical Review A</i> , 2018, 97, .	2.5	5
30	Communication: Site-selective bond excision of adenine upon electron transfer. <i>Journal of Chemical Physics</i> , 2018, 148, 021101.	3.0	7
31	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
32	Low-energy electron-induced decomposition of 5-trifluoromethanesulfonyl-uracil: A potential radiosensitizer. <i>Journal of Chemical Physics</i> , 2018, 149, 164307.	3.0	31
33	Probing the Lowest-Lying Electronic States of Acrylic Acid by Experimental and Theoretical Methods. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8191-8197.	2.5	1
34	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
35	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
36	Magnetically confined electron beam system for high resolution electron transmission-beam experiments. <i>Review of Scientific Instruments</i> , 2018, 89, 063105.	1.3	20

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37	Dissociative electron attachment to 3-bromopyruvic acid. Journal of Physics: Conference Series, 2017, 875, 062042.	0.4	0
38	Low energy electron transport in furfural. European Physical Journal D, 2017, 71, 1.	1.3	18
39	Elastic Differential Cross Sections for Electron Scattering with Dichloromethane. Journal of Physics: Conference Series, 2017, 875, 062036.	0.4	0
40	Low-energy electron interactions with chromium hexacarbonyl Cr(CO) ₆ . Journal of Physics: Conference Series, 2017, 875, 062003.	0.4	0
41	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
42	Electron scattering cross section data for tungsten and beryllium atoms from 0.1 to 5000 eV. Plasma Sources Science and Technology, 2017, 26, 085004.	3.1	23
43	Unravelling the dissociation pathways of acetic acid upon electron transfer in potassium collisions: experimental and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 1083-1088.	2.8	5
44	Electron-transfer studies in potassium collisions with tetrachloromethane. Journal of Physics: Conference Series, 2017, 875, 102015.	0.4	0
45	Electron attachment studies with 2,3-dimethoxy-5-methyl-1,4-benzoquinone. Journal of Physics: Conference Series, 2017, 875, 062034.	0.4	0
46	Interactions of low-energy electrons with the FEBID precursor chromium hexacarbonyl (Cr(CO) ₆). Beilstein Journal of Nanotechnology, 2017, 8, 2583-2590.	2.8	5
47	Comprehensive investigation of the electronic excitation of W(CO) ₆ by photoabsorption and theoretical analysis in the energy region from 3.9 to 10.8 eV. Beilstein Journal of Nanotechnology, 2017, 8, 2208-2218.	2.8	5
48	Pt(CO) ₂ Cl ₂ fragmentation upon low energy electron interactions. Journal of Physics: Conference Series, 2017, 875, 062035.	0.4	1
49	Valence and lowest Rydberg electronic states of phenol investigated by synchrotron radiation and theoretical methods. Journal of Chemical Physics, 2016, 145, 034302.	3.0	7
50	Theoretical and experimental study on electron interactions with chlorobenzene: Shape resonances and differential cross sections. Journal of Chemical Physics, 2016, 145, 084311.	3.0	7
51	Measuring electron-impact cross sections of water: elastic scattering and electronic excitation of the \tilde{A}^3B_1 and \tilde{A}^1B_1 states. European Physical Journal D, 2016, 70, 1.	1.3	22
52	Side chain effects in reactions of the potassium-tyrosine charge transfer complex. Chemical Physics Letters, 2016, 662, 19-24.	2.6	11
53	Combined experimental and theoretical study on the differential elastic scattering cross sections for acetone by electron impact energy of 7.0±50 eV. Physical Review A, 2016, 93, .	2.5	5
54	Kinetic-energy release distributions of fragment anions from collisions of potassium atoms with D-Ribose and tetrahydrofuran. European Physical Journal D, 2016, 70, 1.	1.3	3

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55	Valence and Rydberg Excitations of 2,4- and 2,6-Difluorotoluene as Studied by Vacuum Ultraviolet Synchrotron Radiation and <i>ab Initio</i> Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8998-9007.	2.5	2
56	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
57	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
58	Complex internal rearrangement processes triggered by electron transfer to acetic acid. <i>Journal of Physics: Conference Series</i> , 2015, 635, 012002.	0.4	0
59	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
60	Crossed-beam experiment for the scattering of low- and intermediate-energy electrons from BF ₃ : A comparative study with XF ₃ (X = C, N, and CH) molecules. <i>Journal of Chemical Physics</i> , 2015, 143, 024313.	3.0	7
61	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
62	Modeling secondary particle tracks generated by high-energy protons in water. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032092.	0.4	1
63	DEA to bare and water-solvated pyrimidine clusters. <i>Journal of Physics: Conference Series</i> , 2015, 635, 072055.	0.4	0
64	Electron induced fragmentation of sulphur containing biological prototypes: thiaproline and taurine. <i>Journal of Physics: Conference Series</i> , 2015, 635, 072069.	0.4	1
65	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
66	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
67	Dissociative excitation study of iron pentacarbonyl molecule. <i>European Physical Journal D</i> , 2015, 69, 1.	1.3	10
68	Electronic State Spectroscopy of Halothane As Studied by <i>ab Initio</i> Calculations, Vacuum Ultraviolet Synchrotron Radiation, and Electron Scattering Methods. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8503-8511.	2.5	9
69	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
70	CNO ⁺ formation through selective bond cleavage. <i>Journal of Physics: Conference Series</i> , 2014, 488, 102018.	0.4	0
71	Elastic differential cross sections for C ₄ F ₆ 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
72	Anion formation in gas-phase potassium uridine collisions. <i>International Journal of Mass Spectrometry</i> , 2014, 365-366, 243-247.	1.5	7

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73	Electron transfer induced fragmentation of acetic acid. Journal of Physics: Conference Series, 2014, 488, 052020.	0.4	0
74	New Fragmentation Pathways in K ⁺ THF Collisions As Studied by Electron-Transfer Experiments: Negative Ion Formation. Journal of Physical Chemistry A, 2014, 118, 690-696.	2.5	13
75	Electron transfer to aliphatic amino acids in neutral potassium collisions. International Journal of Mass Spectrometry, 2014, 365-366, 238-242.	1.5	6
76	Clustering and condensation effects in the electron scattering cross sections from water molecules. International Journal of Mass Spectrometry, 2014, 365-366, 287-294.	1.5	11
77	Potassium-Uracil/Thymine Ring Cleavage Enhancement As Studied in Electron Transfer Experiments and Theoretical Calculations. Journal of Physical Chemistry A, 2014, 118, 6547-6552.	2.5	17
78	Negative ion chemistry of Deoxyribose and THF upon potassium atom collisions. Journal of Physics: Conference Series, 2014, 488, 012043.	0.4	1
79	The role of side chains in electron transfer induced fragmentation of amino-acids. Journal of Physics: Conference Series, 2014, 488, 052021.	0.4	0
80	Dissociative Electron Attachment to the Nitroamine HMX (Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine). Journal of the American Society for Mass Spectrometry, 2013, 24, 744-752.	2.8	11
81	Modelling low energy electron and positron tracks in biologically relevant media. European Physical Journal D, 2013, 67, 1.	1.3	78
82	Electron attachment to the dipeptide dialanine: influence of methylation on site selective dissociation reactions. Physical Chemistry Chemical Physics, 2013, 15, 3834.	2.8	12
83	N-site de-methylation in pyrimidine bases as studied by low energy electrons and ab initio calculations. Physical Chemistry Chemical Physics, 2013, 15, 11431.	2.8	23
84	Studies of low-lying triplet states in 1,3-C ₄ F ₆ , c-C ₄ F ₆ and 2-C ₄ F ₆ by electron energy-loss spectroscopy and ab initio calculations. Chemical Physics Letters, 2013, 574, 32-36.	2.6	5
85	NCO ⁺ , a Key Fragment Upon Dissociative Electron Attachment and Electron Transfer to Pyrimidine Bases: Site Selectivity for a Slow Decay Process. Journal of the American Society for Mass Spectrometry, 2013, 24, 1787-1797.	2.8	53
86	Dynamic of negative ions in potassium-D-ribose collisions. Journal of Chemical Physics, 2013, 139, 114304.	3.0	15
87	An investigation into electron scattering from pyrazine at intermediate and high energies. Journal of Chemical Physics, 2013, 139, 184310.	3.0	32
88	Selective Bond Cleavage in Potassium Collisions with Pyrimidine Bases of DNA. Physical Review Letters, 2013, 110, 023201.	7.8	43
89	Site- and bond-selective H ⁺ formation in methylated pyrimidine bases driven by potassium-molecule collisions. Journal of Physics: Conference Series, 2012, 388, 012040.	0.4	1
90	Synthesis of polycyclic aromatic hydrocarbons in He nanodroplets. Journal of Physics: Conference Series, 2012, 388, 052053.	0.4	0

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91	Site and bond selective H ⁺ formation in methylated pyrimidine bases driven by potassium molecule collisions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102032.	0.4	0
92	Demethylation enhancement of 3-methyl-uracil and 1-methyl-thymine in atom-molecule collisions. <i>Journal of Physics: Conference Series</i> , 2012, 388, 102031.	0.4	0
93	High resolution photoabsorption spectrum of hexafluoro-1,3-butadiene (1,3-C ₄ F ₆) as studied by vacuum ultraviolet (VUV) synchrotron radiation. <i>Chemical Physics Letters</i> , 2012, 550, 62-66.	2.6	4
94	Electronic Excitation to Singlet States of 1,3-C ₄ F ₆ , c-C ₄ F ₆ and 2-C ₄ F ₆ 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
95	Anionic fragmentation of glycine upon potassium-molecule collisions. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	13
96	Semtex 1A and H negative ion resonances for explosives TM detection. <i>International Journal of Mass Spectrometry</i> , 2012, 309, 39-43.	1.5	4
97	Electron Transfer-Induced Fragmentation in (Bio)Molecules by Atom-Molecule Collisions. <i>Biological and Medical Physics Series</i> , 2012, , 59-70.	0.4	1
98	Electron transfer processes in potassium collisions with 5-fluorouracil and 5-chlorouracil. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21621.	2.8	25
99	Electron transfer-induced fragmentation of thymine and uracil in atom ⁺ molecule collisions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15657.	2.8	34
100	Dissociative electron attachment to gas-phase formamide. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12305.	2.8	28
101	Negative ion formation through dissociative electron attachment to GeH ₄ : Comparative studies with CH ₄ and SiH ₄ . <i>International Journal of Mass Spectrometry</i> , 2011, 306, 51-56.	1.5	15
102	Electron interaction with nitromethane embedded in helium droplets: Attachment and ionization measurements. <i>Journal of Chemical Physics</i> , 2011, 135, 174504.	3.0	11
103	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
104	Formation of the Magic L -Serine Octamer in Helium Nanodroplets. <i>ChemPhysChem</i> , 2010, 11, 90-92.	2.1	17
105	Dissociative electron attachment to pentaerythritol tetranitrate: Significant fragmentation near 0 eV. <i>Journal of Chemical Physics</i> , 2010, 132, 134305.	3.0	9
106	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
107	Electron Attachment to Formamide Clusters in Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1633-1638.	2.5	20
108	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

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109	Experimental Evidence for the Existence of an Electronically Excited State of the Proposed Dihydrogen Radical Cation $\text{He}^+\text{H}^+\text{He}^+$. Chemistry - A European Journal, 2009, 15, 4190-4194.	3.3	9
110	On the Size of Ions Solvated in Helium Clusters. Chemistry - A European Journal, 2009, 15, 7101-7108.	3.3	33
111	Ion-Molecule Reactions in Helium Nanodroplets Doped with C_{60} and Water Clusters. Angewandte Chemie - International Edition, 2009, 48, 8940-8943.	13.8	43
112	Electron impact ionization of CCl_4 and SF_6 embedded in superfluid helium droplets. International Journal of Mass Spectrometry, 2009, 280, 26-31.	1.5	16
113	Electron impact ionization studies with the amino acid valine in the gas phase and (hydrated) in helium droplets. European Physical Journal D, 2009, 51, 73-79.	1.3	39
114	Electron attachment to trinitrotoluene (TNT) embedded in He droplets: complete freezing of dissociation intermediates in an extended range of electron energies. Physical Chemistry Chemical Physics, 2009, 11, 8240.	2.8	30
115	Electron attachment and electron ionization of acetic acid clusters embedded in helium nanodroplets. Physical Chemistry Chemical Physics, 2009, 11, 11631.	2.8	28
116	Argon clusters embedded in helium nanodroplets. Physical Chemistry Chemical Physics, 2009, 11, 9791.	2.8	29
117	Dissociative Electron Attachment to DNA Bases Near Absolute Zero Temperature: Freezing Dissociation Intermediates. ChemPhysChem, 2008, 9, 1387-1389.	2.1	45
118	Dissociative electron attachment to nitromethane. International Journal of Mass Spectrometry, 2008, 271, 15-21.	1.5	29
119	Electron attachment studies to musk ketone and high mass resolution anionic isobaric fragment detection. International Journal of Mass Spectrometry, 2008, 277, 123-129.	1.5	11
120	The VUV electronic spectroscopy of acetone studied by synchrotron radiation. Physical Chemistry Chemical Physics, 2008, 10, 550-560.	2.8	59
121	Formation of even-numbered hydrogen cluster cations in ultracold helium droplets. Journal of Chemical Physics, 2008, 129, 224306.	3.0	28
122	Spectroscopic studies of ketones as a marker for patients with diabetes. Journal of Physics: Conference Series, 2008, 101, 012011.	0.4	7