

Christine Joblin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7928673/publications.pdf>

Version: 2024-02-01

217
papers

9,209
citations

34076

52
h-index

49868

87
g-index

219
all docs

219
docs citations

219
times ranked

5002
citing authors

#	ARTICLE	IF	CITATIONS
1	Clouds, filaments, and protostars: The <i>Herschel</i> Hi-GAL Milky Way. <i>Astronomy and Astrophysics</i> , 2010, 518, L100.	2.1	573
2	Hi-GAL: The Herschel Infrared Galactic Plane Survey. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 314-325.	1.0	440
3	C ₆₀ IN REFLECTION NEBULAE. <i>Astrophysical Journal Letters</i> , 2010, 722, L54-L57.	3.0	295
4	Spectroscopy of polycyclic aromatic hydrocarbons and very small grains in photodissociation regions. <i>Astronomy and Astrophysics</i> , 2005, 429, 193-204.	2.1	201
5	Contribution of polycyclic aromatic hydrocarbon molecules to the interstellar extinction curve. <i>Astrophysical Journal</i> , 1992, 393, L79.	1.6	189
6	Stacked Clusters of Polycyclic Aromatic Hydrocarbon Molecules. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2487-2497.	1.1	168
7	Analysis of the emission of very small dust particles from Spitzer spectro-imagery data using blind signal separation methods. <i>Astronomy and Astrophysics</i> , 2007, 469, 575-586.	2.1	168
8	On-line database of the spectral properties of polycyclic aromatic hydrocarbons. <i>Chemical Physics</i> , 2007, 332, 353-359.	0.9	164
9	Virtual atomic and molecular data centre. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 2151-2159.	1.1	164
10	Interstellar OH ⁺ , H ₂ O ⁺ and H ₃ O ⁺ along the sight-line to G10.6±0.4. <i>Astronomy and Astrophysics</i> , 2010, 518, L110.	2.1	155
11	Dust temperature tracing the ISRF intensity in the Galaxy. <i>Astronomy and Astrophysics</i> , 2010, 518, L88.	2.1	151
12	<i>Herschel</i> /HIFI observations of interstellar OH ⁺ and H ₂ O ⁺ towards W49N: a probe of diffuse clouds with a small molecular fraction. <i>Astronomy and Astrophysics</i> , 2010, 521, L10.	2.1	143
13	Spatial Variation of the 3.29 and 3.40 Micron Emission Bands within Reflection Nebulae and the Photochemical Evolution of Methylated Polycyclic Aromatic Hydrocarbons. <i>Astrophysical Journal</i> , 1996, 458, 610.	1.6	137
14	<i>Herschel</i> -SPIRE observations of the Polaris flare: Structure of the diffuse interstellar medium at the sub-parsec scale. <i>Astronomy and Astrophysics</i> , 2010, 518, L104.	2.1	136
15	Formation and destruction of polycyclic aromatic hydrocarbon clusters in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2006, 460, 519-531.	2.1	127
16	Evolution of polycyclic aromatic hydrocarbons in photodissociation regions. <i>Astronomy and Astrophysics</i> , 2013, 552, A15.	2.1	127
17	The virtual atomic and molecular data centre (VAMDC) consortium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 074003.	0.6	120
18	Top-down formation of fullerenes in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2015, 577, A133.	2.1	114

#	ARTICLE	IF	CITATIONS
19	Electronic absorption spectra of PAHs up to vacuum UV. <i>Astronomy and Astrophysics</i> , 2004, 426, 105-117.	2.1	112
20	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): The present and future of spectral surveys with <i>Herschel</i> /HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L20.	2.1	110
21	The profiles of the aromatic infrared bands explained with molecular carriers. <i>Astronomy and Astrophysics</i> , 2002, 388, 639-651.	2.1	108
22	Fast Radiative Cooling of Anthracene Observed in a Compact Electrostatic Storage Ring. <i>Physical Review Letters</i> , 2013, 110, 063003.	2.9	101
23	Time-dependent density functional study of the electronic spectra of oligoacenes in the charge states $\hat{n}^1, 0, +1$, and $+2$. <i>Chemical Physics</i> , 2007, 340, 43-58.	0.9	100
24	Evaporating very small grains as tracers of the UV radiation field in photo-dissociation regions. <i>Astronomy and Astrophysics</i> , 2012, 542, A69.	2.1	100
25	Interstellar C_{60}^{+} . <i>Astronomy and Astrophysics</i> , 2013, 550, L4.	2.1	100
26	The chemistry and spatial distribution of small hydrocarbons in UV-irradiated molecular clouds: the Orion Bar PDR. <i>Astronomy and Astrophysics</i> , 2015, 575, A82.	2.1	95
27	Compression and ablation of the photo-irradiated molecular cloud the Orion Bar. <i>Nature</i> , 2016, 537, 207-209.	13.7	94
28	Variations of the 8.6 and 11.3 μ m Emission Bands within NGC 1333: Evidence for Polycyclic Aromatic Hydrocarbon Cations. <i>Astrophysical Journal</i> , 1996, 460, .	1.6	93
29	Detection of hydrogen fluoride absorption in diffuse molecular clouds with <i>Herschel</i> /HIFI: an ubiquitous tracer of molecular gas. <i>Astronomy and Astrophysics</i> , 2010, 521, L12.	2.1	92
30	Strong absorption by interstellar hydrogen fluoride: <i>Herschel</i> /HIFI observations of the sight-line to G10.6 μ 0.4 (W31C). <i>Astronomy and Astrophysics</i> , 2010, 518, L108.	2.1	90
31	<i>Herschel</i> /HIFI discovery of interstellar chloronium (H_2Cl^+). <i>Astronomy and Astrophysics</i> , 2010, 521, L9.	2.1	83
32	Circumstellar disks around Herbig Be stars. <i>Astronomy and Astrophysics</i> , 2009, 497, 117-136.	2.1	82
33	Electronic absorption spectroscopy of matrix-isolated polycyclic aromatic hydrocarbon cations. II. The phenanthrene cation ($C_{14}H_{10}^+$) and its 1-methyl derivative. <i>Journal of Chemical Physics</i> , 1994, 101, 10252-10262.	1.2	78
34	Interstellar CH absorption in the diffuse interstellar medium along the sight-lines to G10.6 μ 0.4 (W31C), W49N, and W51. <i>Astronomy and Astrophysics</i> , 2010, 521, L16.	2.1	77
35	The chemistry of ions in the Orion Bar I. CH^+ , SH^+ , and CF^+ . <i>Astronomy and Astrophysics</i> , 2013, 550, A96.	2.1	75
36	On the Dissociation of the Naphthalene Radical Cation: New iPEPICO and Tandem Mass Spectrometry Results. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10999-11007.	1.1	69

#	ARTICLE	IF	CITATIONS
37	Nitrogen hydrides in interstellar gas. <i>Astronomy and Astrophysics</i> , 2010, 521, L45.	2.1	68
38	Detection of diffuse interstellar bands in the infrared. <i>Nature</i> , 1990, 346, 729-731.	13.7	63
39	Theoretical evaluation of PAH dication properties. <i>Astronomy and Astrophysics</i> , 2007, 462, 627-635.	2.1	61
40	VUV PHOTO-PROCESSING OF PAH CATIONS: QUANTITATIVE STUDY ON THE IONIZATION VERSUS FRAGMENTATION PROCESSES. <i>Astrophysical Journal</i> , 2016, 822, 113.	1.6	61
41	UNVEILING THE DUST NUCLEATION ZONE OF IRC+10216 WITH ALMA. <i>Astrophysical Journal Letters</i> , 2013, 778, L25.	3.0	60
42	Photodissociation of Pyrene Cations: Structure and Energetics from $C_{16}H_{10}^{+}$ to C_{14}^{+} and Almost Everything in Between. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7824-7831.	1.1	60
43	Growth of carbon chains in IRC+10216 mapped with ALMA. <i>Astronomy and Astrophysics</i> , 2017, 601, A4.	2.1	60
44	SPIRE spectroscopy of the prototypical Orion Bar photodissociation region. <i>Astronomy and Astrophysics</i> , 2010, 518, L116.	2.1	59
45	Excitation of H_2 in photodissociation regions as seen by <i>Spitzer</i> . <i>Astronomy and Astrophysics</i> , 2011, 527, A122.	2.1	58
46	High-resolution infrared absorption spectroscopy of thermally excited naphthalene. Measurements and calculations of anharmonic parameters and vibrational interactions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3443.	1.3	57
47	<i>Herschel</i> /HIFI measurements of the ortho/para ratio in water towards Sagittarius B2(M) and W31C. <i>Astronomy and Astrophysics</i> , 2010, 521, L26.	2.1	57
48	Structure of photodissociation fronts in star-forming regions revealed by <i>Herschel</i> observations of high-J CO emission lines. <i>Astronomy and Astrophysics</i> , 2018, 615, A129.	2.1	56
49	Absorption and emission spectroscopy of perylene (C ₂₀ H ₁₂) isolated in Ne, Ar, and N ₂ matrices. <i>Journal of Chemical Physics</i> , 1999, 110, 7287-7297.	1.2	54
50	The role of the charge state of PAHs in ultraviolet extinction. <i>Astronomy and Astrophysics</i> , 2008, 486, L25-L29.	2.1	54
51	OH emission from warm and dense gas in the Orion Bar PDR. <i>Astronomy and Astrophysics</i> , 2011, 530, L16.	2.1	54
52	A general model for the identification of specific PAHs in the far-IR. <i>Astronomy and Astrophysics</i> , 2006, 460, 93-104.	2.1	53
53	A Decade with VAMDC: Results and Ambitions. <i>Atoms</i> , 2020, 8, 76.	0.7	53
54	Mixed aliphatic and aromatic composition of evaporating very small grains in NGC 7023 revealed by the 3.4/3.3 μ m ratio. <i>Astronomy and Astrophysics</i> , 2015, 577, A16.	2.1	53

#	ARTICLE	IF	CITATIONS
55	Electron correlation-driven non-adiabatic relaxation in molecules excited by an ultrashort extreme ultraviolet pulse. <i>Nature Communications</i> , 2019, 10, 337.	5.8	52
56	The physical properties of the dust in the RCW 120 region as seen by <i>Herschel</i> . <i>Astronomy and Astrophysics</i> , 2010, 518, L99.	2.1	51
57	Unimolecular reaction energies for polycyclic aromatic hydrocarbon ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7195-7205.	1.3	51
58	Aromatic emission from the ionised mane of the Horsehead nebula. <i>Astronomy and Astrophysics</i> , 2007, 471, 205-212.	2.1	49
59	CH^+ and $^{13}\text{CH}^+$ absorption lines in the direction of massive star-forming regions. <i>Astronomy and Astrophysics</i> , 2010, 521, L15.	2.1	49
60	LABORATORY PHOTO-CHEMISTRY OF PAHs: IONIZATION VERSUS FRAGMENTATION. <i>Astrophysical Journal Letters</i> , 2015, 804, L7.	3.0	49
61	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Detection of hydrogen fluoride in absorption towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 518, L109.	2.1	48
62	Prevalence of non-aromatic carbonaceous molecules in the inner regions of circumstellar envelopes. <i>Nature Astronomy</i> , 2020, 4, 97-105.	4.2	48
63	Detection of buckminsterfullerene emission in the diffuse interstellar medium. <i>Astronomy and Astrophysics</i> , 2017, 605, L1.	2.1	47
64	Calculations of the far-infrared emission of $\text{C}_{24}\text{H}_{12}$ under interstellar conditions. <i>Molecular Physics</i> , 2002, 100, 3595-3600.	0.8	44
65	Dehydrogenated polycyclic aromatic hydrocarbons and UV bump. <i>Astronomy and Astrophysics</i> , 2008, 489, 1183-1187.	2.1	44
66	Neutral and ionized PAHs: contribution to the interstellar extinction. <i>Planetary and Space Science</i> , 1995, 43, 1165-1173.	0.9	43
67	Evolution of interstellar dust with <i>Herschel</i> . First results in the photodissociation regions of NGC 7023. <i>Astronomy and Astrophysics</i> , 2010, 518, L96.	2.1	43
68	Diagnostics for specific PAHs in the far-IR: searching neutral naphthalene and anthracene in the Red Rectangle. <i>Astronomy and Astrophysics</i> , 2006, 456, 161-169.	2.1	42
69	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Methanol as a probe of physical conditions in Orion KL. <i>Astronomy and Astrophysics</i> , 2011, 527, A95.	2.1	42
70	Threshold photoelectron study of naphthalene, anthracene, pyrene, 1,2-dihydronaphthalene, and 9,10-dihydroanthracene. <i>Journal of Chemical Physics</i> , 2011, 134, 244312.	1.2	42
71	Spatial variation of the cooling lines in the Orion Bar from <i>Herschel</i> /PACS. <i>Astronomy and Astrophysics</i> , 2012, 538, A37.	2.1	42
72	MID-INFRARED POLYCYCLIC AROMATIC HYDROCARBON AND H_2 EMISSION AS A PROBE OF PHYSICAL CONDITIONS IN EXTREME PHOTODISSOCIATION REGIONS. <i>Astrophysical Journal</i> , 2009, 706, L160-L163.	1.6	40

#	ARTICLE	IF	CITATIONS
73	Visible photodissociation spectroscopy of PAH cations and derivatives in the PIRENEA experiment. <i>Chemical Physics</i> , 2010, 371, 16-23.	0.9	40
74	Detection of OH ⁺ and H ₂ O ⁺ towards Orion ÅKL. <i>Astronomy and Astrophysics</i> , 2010, 521, L47.	2.1	40
75	Size Effect in the Ionization Energy of PAH Clusters. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3697-3702.	2.1	40
76	Search for corannulene (C ₂₀ H ₁₀) in the Red Rectangle. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 1053-1060.	1.6	39
77	Thermochemistry and Infrared Spectroscopy of Neutral and Cationic Iron ⁺ Polycyclic Aromatic Hydrocarbon Complexes of Astrophysical Interest: A Fundamental Density Functional Theory Studies. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9745-9755.	1.1	38
78	Infrared Spectroscopy of [XFeC ₂₄ H ₁₂] ⁺ (X =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 552 Td (C⁺ Phase: Experimental and Computational Studies of Astrophysical Interest. <i>Journal of Physical Chemistry A</i> , 2008, 112, 8551-8560.	1.1	37
79	Hydrogen dissociation of naphthalene cations: a theoretical study. <i>Astronomy and Astrophysics</i> , 2005, 444, 629-634.	2.1	36
80	Molecular Dynamics Simulations of Anharmonic Infrared Spectra of [SiPAH] ⁺ Complexes. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5846-5854.	1.1	36
81	Spectral line survey of the ultracompact HII region Monoceros R2. <i>Astronomy and Astrophysics</i> , 2012, 543, A27.	2.1	36
82	The ESO Diffuse Interstellar Bands Large Exploration Survey (EDIBLES). <i>Astronomy and Astrophysics</i> , 2017, 606, A76.	2.1	36
83	Vibrations and Thermodynamics of Clusters of Polycyclic Aromatic Hydrocarbon Molecules: The Role of Internal Modes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2999-3009.	1.1	35
84	First detection of the methylidyne cation (CH ⁺) fundamental rotational line with the <i>Herschel</i> /SPIRE FTS. <i>Astronomy and Astrophysics</i> , 2010, 518, L117.	2.1	35
85	<i>Herschel</i> observations of ortho- and para-oxidaniumyl (H ₂ O ⁺) in spiral arm clouds toward Sagittarius ÅB2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L11.	2.1	35
86	Probing the role of polycyclic aromatic hydrocarbons in the photoelectric heating within photodissociation regions. <i>Astronomy and Astrophysics</i> , 2013, 553, A2.	2.1	35
87	Carriers of the mid-IR emission bands in PNe reanalysed. <i>Astronomy and Astrophysics</i> , 2008, 490, 189-196.	2.1	35
88	Chemistry of C ₃ and carbon chain molecules in DR21(OH). <i>Astronomy and Astrophysics</i> , 2012, 546, A75.	2.1	33
89	Estimated IR and phosphorescence emission fluxes for specific polycyclic aromatic hydrocarbons in the Red Rectangle. <i>Astronomy and Astrophysics</i> , 2006, 446, 537-549.	2.1	32
90	Extended Red Emission and the evolution of carbonaceous nanograins in NGC 7023. <i>Astronomy and Astrophysics</i> , 2008, 479, L41-L44.	2.1	32

#	ARTICLE	IF	CITATIONS
91	Detection of the overtone of the 3.3 micron emission feature in IRAS 21282+5050. <i>Astrophysical Journal</i> , 1994, 434, L15.	1.6	32
92	Photoinduced fluorescence from the perylene cation isolated in Ne and Ar matrices. <i>Journal of Chemical Physics</i> , 1995, 102, 9743-9745.	1.2	30
93	Excitation and abundance of C ₃ in star forming cores. <i>Astronomy and Astrophysics</i> , 2010, 521, L13.	2.1	30
94	Gas morphology and energetics at the surface of PDRs: New insights with <i>Herschel</i> observations of NGC 7023. <i>Astronomy and Astrophysics</i> , 2010, 521, L25.	2.1	30
95	The Chemistry of Cosmic Dust Analogs from C, C ₂ , and C ₂ H ₂ in C-rich Circumstellar Envelopes. <i>Astrophysical Journal</i> , 2020, 895, 97.	1.6	30
96	Signature of [SiPAH] ⁺ π -complexes in the interstellar medium. <i>Astronomy and Astrophysics</i> , 2009, 494, 969-976.	2.1	29
97	Photodissociation of [Fe(C ₂₄ H ₁₂) _n] ⁺ Complexes in the PIRENEA Setup: Iron-Polycyclic Aromatic Hydrocarbon Clusters as Candidates for Very Small Interstellar Grains. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4878-4888.	1.1	29
98	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): Observations of H ₂ O and its isotopologues towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L27.	2.1	29
99	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): The Terahertz spectrum of Orion KL seen at high spectral resolution. <i>Astronomy and Astrophysics</i> , 2010, 521, L21.	2.1	29
100	Identification of PAH Isomeric Structure in Cosmic Dust Analogs: The AROMA Setup. <i>Astrophysical Journal</i> , 2017, 843, 34.	1.6	29
101	Spatial distribution of small hydrocarbons in the neighborhood of the ultra compact HII region Monoceros R2. <i>Astronomy and Astrophysics</i> , 2013, 554, A87.	2.1	29
102	Non-negative matrix factorization pansharpener of hyperspectral data: An application to mid-infrared astronomy. , 2010, , .		28
103	<i>Herschel</i> observations of EXtra-Ordinary Sources (HEXOS): detecting spiral arm clouds by CH absorption lines. <i>Astronomy and Astrophysics</i> , 2010, 521, L14.	2.1	27
104	THE COMPUTED INFRARED SPECTRA OF A VARIETY OF [FePAH] ⁺ COMPLEXES: MID- AND FAR-INFRARED FEATURES. <i>Astrophysical Journal</i> , 2010, 712, 69-77.	1.6	27
105	Photoionization of cold gas phase coronene and its clusters: Autoionization resonances in monomer, dimer, and trimer and electronic structure of monomer cation. <i>Journal of Chemical Physics</i> , 2014, 141, 164325.	1.2	27
106	<i>Herschel</i> /HIFI spectral line survey of the Orion Bar. <i>Astronomy and Astrophysics</i> , 2017, 599, A22.	2.1	27
107	Precisely controlled fabrication, manipulation and in-situ analysis of Cu based nanoparticles. <i>Scientific Reports</i> , 2018, 8, 7250.	1.6	27
108	What can we learn about protoplanetary disks from analysis of mid-infrared carbonaceous dust emission?. <i>Astronomy and Astrophysics</i> , 2009, 495, 827-835.	2.1	26

#	ARTICLE	IF	CITATIONS
109	PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars. Publications of the Astronomical Society of the Pacific, 2022, 134, 054301.	1.0	26
110	Cationic Methyleneâ€“Pyrene Isomers and Isomerization Pathways: Finite Temperature Theoretical Studies. Journal of Physical Chemistry A, 2015, 119, 12845-12854.	1.1	25
111	Fast radiative cooling of anthracene: Dependence on internal energy. Physical Review A, 2015, 92, .	1.0	25
112	Anharmonic vibrational spectroscopy of polycyclic aromatic hydrocarbons (PAHs). Journal of Chemical Physics, 2018, 149, 144102.	1.2	25
113	Astrochemical relevance of VUV ionization of large PAH cations. Astronomy and Astrophysics, 2020, 641, A98.	2.1	25
114	Simulation of interstellar aromatic hydrocarbons using ion cyclotron resonance. Preliminary results. Rapid Communications in Mass Spectrometry, 1997, 11, 1619-1623.	0.7	24
115	VAMDCâ€“The Virtual Atomic and Molecular Data Centreâ€“A New Way to Disseminate Atomic and Molecular Dataâ€“VAMDC Level 1 Release. AIP Conference Proceedings, 2011, , .	0.3	24
116	Dissociation of the Anthracene Radical Cation: A Comparative Look at iPEPICO and Collision-Induced Dissociation Mass Spectrometry Results. Journal of Physical Chemistry A, 2014, 118, 9870-9878.	1.1	24
117	<i>Herschel</i>/HIFI observations of CO, H₂O and NH₃ inÂMonocerosÂR2. Astronomy and Astrophysics, 2012, 544, A110.	2.1	23
118	Reversal of infall in SgrB2(M) revealed by<i>Herschel</i>/HIFI observations of HCN lines at THz frequencies. Astronomy and Astrophysics, 2010, 521, L46.	2.1	23
119	The impact and recovery of asteroid 2018 LA. Meteoritics and Planetary Science, 2021, 56, 844-893.	0.7	21
120	Physical properties of the Sh2-104 Hàregion as seen by<i>Herschel</i>. Astronomy and Astrophysics, 2010, 518, L80.	2.1	20
121	Physical structure of the photodissociation regions in NGC 7023. Astronomy and Astrophysics, 2014, 569, A109.	2.1	20
122	Direct Evidence of the Benzylum and Tropylium Cations as the Two Longâ€“Lived Isomers of C₇H₇⁺. ChemPhysChem, 2018, 19, 3182-3185.	1.0	20
123	Absolute evaporation rates of non-rotating neutral polycyclic aromatic hydrocarbon clusters. Astronomy and Astrophysics, 2014, 567, A45.	2.1	19
124	Dynamics of Hydrogen and Methyl Radical Loss from Ionized Dihydro-Polycyclic Aromatic Hydrocarbons: A Tandem Mass Spectrometry and Imaging Photoelectronâ€“Photoion Coincidence (iPEPICO) Study of Dihydronaphthalene and Dihydrophenanthrene. Journal of Physical Chemistry A, 2014, 118, 1807-1816.	1.1	19
125	Thermal evaporation of pyrene clusters. Journal of Chemical Physics, 2019, 151, 194303.	1.2	18
126	HIFI observations of warm gas in DR21: Shock versus radiative heating. Astronomy and Astrophysics, 2010, 518, L79.	2.1	17

#	ARTICLE	IF	CITATIONS
127	Kinematics of the ionized-to-neutral interfaces in Monoceros R2. <i>Astronomy and Astrophysics</i> , 2014, 561, A69.	2.1	17
128	Polycyclic aromatic hydrocarbons and molecular hydrogen in oxygen-rich planetary nebulae: the case of NGC 6720. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 456, L89-L93.	1.2	17
129	Spatial distribution of far-infrared rotationally excited CH ⁺ and OH emission lines in the Orion Bar photodissociation region. <i>Astronomy and Astrophysics</i> , 2017, 599, A20.	2.1	17
130	Identification of the fragment of the 1-methylpyrene cation by mid-IR spectroscopy. <i>Chemical Physics Letters</i> , 2018, 698, 206-210.	1.2	17
131	Investigating the importance of edge-structure in the loss of H/H ₂ of PAH cations: The case of dibenzopyrene isomers. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 189-197.	0.7	17
132	Molecular content of nascent soot: Family characterization using two-step laser desorption laser ionization mass spectrometry. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1241-1248.	2.4	16
133	A piece of interstellar medium in the laboratory: the PIRENEA experiment. <i>EAS Publications Series</i> , 2002, 4, 73-73.	0.3	15
134	Interstellar polycyclic aromatic hydrocarbons: from space to the laboratory. <i>EAS Publications Series</i> , 2009, 35, 133-152.	0.3	15
135	<i>Herschel</i> -SPIRE spectroscopy of the DR21 molecular cloud core. <i>Astronomy and Astrophysics</i> , 2010, 518, L114.	2.1	15
136	The origin of the [C II] emission in the S140 photon-dominated regions. New insights from HIFI. <i>Astronomy and Astrophysics</i> , 2010, 521, L24.	2.1	15
137	Multi-scale investigation in the frequency domain of Ar/HMDSO dusty plasma with pulsed injection of HMDSO. <i>Plasma Sources Science and Technology</i> , 2019, 28, 055019.	1.3	15
138	<i>Herschel</i> -SPIRE spectroscopy of G29.96-0.02: Fitting the full SED. <i>Astronomy and Astrophysics</i> , 2010, 518, L82.	2.1	15
139	PAHs as the carriers of the 3.3 and 3.4 μ m emission bands. <i>Planetary and Space Science</i> , 1995, 43, 1189-1194.	0.9	14
140	Polycyclic aromatic hydrocarbon lifetime in cometary environments. <i>Planetary and Space Science</i> , 1997, 45, 1539-1542.	0.9	14
141	New results on the massive star-forming region S106 by BEAR spectro-imagery. <i>Astronomy and Astrophysics</i> , 2005, 436, 569-584.	2.1	14
142	Cooling of isolated anthracene cations probed with photons of different wavelengths in the Mini-Ring. <i>Journal of Chemical Physics</i> , 2017, 146, 044301.	1.2	14
143	Detecting the building blocks of aromatics. <i>Science</i> , 2018, 359, 156-157.	6.0	14
144	<i>Herschel</i> observations in the ultracompact H II region Mon R2. <i>Astronomy and Astrophysics</i> , 2010, 521, L23.	2.1	13

#	ARTICLE	IF	CITATIONS
145	<i>Herschel</i> survey and modelling of externally-illuminated photoevaporating protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2017, 604, A69.	2.1	13
146	D1(2B2g)â†D0(2Au) fluorescence from the matrix-isolated perylene cation following laser excitation into the D5(2B3g) and D2(2B3g) electronic states. <i>Journal of Chemical Physics</i> , 2002, 116, 5725-5730.	1.2	12
147	<i>Herschel</i> observations of deuterated water towards SgrÂ2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L38.	2.1	12
148	Using radio astronomical receivers for molecular spectroscopic characterization in astrochemical laboratory simulations: A proof of concept. <i>Astronomy and Astrophysics</i> , 2018, 609, A15.	2.1	12
149	Photo-processing of astro-PAHs. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 062002.	0.3	12
150	Anharmonic infrared spectra of thermally excited pyrene (C16H10): A combined view of DFT-based GVPT2 with AnharmonicCaOs, and approximate DFT molecular dynamics with demonNano. <i>Journal of Molecular Spectroscopy</i> , 2021, 378, 111466.	0.4	12
151	Learning mid-IR emission spectra of polycyclic aromatic hydrocarbon populations from observations. <i>Astronomy and Astrophysics</i> , 2019, 632, A84.	2.1	11
152	Threshold collision induced dissociation of pyrene cluster cations. <i>Journal of Chemical Physics</i> , 2020, 153, 054311.	1.2	11
153	Which carriers for the unidentified IR emission bands? Observations and laboratory simulations. <i>Faraday Discussions</i> , 1998, 109, 349-360.	1.6	10
154	Singular value decomposition: A tool to separate elementary contributions in ISOCAM spectral maps. <i>Astronomy and Astrophysics</i> , 2001, 373, L5-L8.	2.1	10
155	Search for far-IR PAH bands with <i>Herschel</i> : modelling and observational approaches. <i>EAS Publications Series</i> , 2011, 46, 123-130.	0.3	10
156	The WADI key project: New insights to photon-dominated regions from <i>Herschel</i> observations. <i>EAS Publications Series</i> , 2011, 52, 181-186.	0.3	9
157	Confirmation of C60in the Reflection Nebula NGC 7023. <i>EAS Publications Series</i> , 2011, 46, 209-214.	0.3	9
158	Timeâ€resolved analysis of the precursor fragmentation kinetics in an hybrid PVD/PECVD dusty plasma with pulsed injection of HMDSO. <i>Plasma Processes and Polymers</i> , 2019, 16, 1900044.	1.6	9
159	Infrared spectroscopy of the benzylium-like (and tropylium-like) isomers formed in the â€H dissociative ionization of methylated PAHs. <i>Journal of Molecular Spectroscopy</i> , 2022, 385, 111620.	0.4	9
160	Experimental Approach to the Study of Anharmonicity in the Infrared Spectrum of Pyrene from 14 to 723 K. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4139-4148.	1.1	8
161	Photodissociation of aliphatic PAH derivatives under relevant astrophysical conditions. <i>Astronomy and Astrophysics</i> , 2021, 652, A42.	2.1	8
162	The Cool Interstellar Medium. <i>Space Science Reviews</i> , 2005, 119, 247-271.	3.7	7

#	ARTICLE	IF	CITATIONS
163	Detection of Cosmic Fullerenes in the Almahata Sitta Meteorite: Are They an Interstellar Heritage?. <i>Astrophysical Journal</i> , 2022, 931, 91.	1.6	7
164	Probing the Connection between PAHs and Hydrogen (H, H ₂) in the Laboratory and in the Interstellar Medium. , 2000, , 107-114.		5
165	Water Attachment onto Size-Selected Cationic Pyrene Clusters. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3696-3707.	1.1	5
166	The molecular hydrogen explorer H2EX. <i>Experimental Astronomy</i> , 2009, 23, 277-302.	1.6	4
167	A Novel Approach to the Detection and Characterization of PAH Cations and PAH-Photoproducts. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 286-290.	0.0	4
168	The cooling of naphthalene cations studied within an electrostatic storage ring. <i>Journal of Physics: Conference Series</i> , 2015, 583, 012038.	0.3	4
169	An optical spectrum of a large isolated gas-phase PAH cation: C ₇₈ H ⁺ <small>xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mrow /><mml:mrow><mml:mn>26</mml:mn></mml:mrow><mml:mo>+</mml:mo></mml:msubsup></mml:math>.</small> <i>Molecular Astrophysics</i> , 2016, 2, 12-17.	1.7	4
170	Circumstellar chemistry of Si-C bearing molecules in the C-rich AGB star IRC+10216. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 535-537.	0.0	4
171	Present situation in the identification of polycyclic aromatic hydrocarbons. <i>Advances in Space Research</i> , 1993, 13, 473-481.	1.2	3
172	Near-Infrared Spectroscopy of Interstellar Dust. <i>EAS Publications Series</i> , 2011, 46, 399-405.	0.3	3
173	Time evolution of internal energy distribution of Anthracene studied in an electrostatic storage ring, the Mini-Ring. <i>Journal of Physics: Conference Series</i> , 2014, 488, 012039.	0.3	3
174	Very Large Telescope observations of Gomez's Hamburger: Insights into a young protoplanet candidate. <i>Astronomy and Astrophysics</i> , 2015, 578, L8.	2.1	3
175	Experimental and theoretical study of photo-dissociation spectroscopy of pyrene dimer radical cations stored in a compact electrostatic ion storage ring. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6017-6028.	1.3	3
176	Modelling the physical and chemical evolution of PAHs and PAH-related species in astrophysical environments. <i>EAS Publications Series</i> , 2011, 46, 447-452.	0.3	2
177	Polycyclic Aromatic Hydrocarbons and the Extinction Curve. <i>EAS Publications Series</i> , 2011, 46, 327-340.	0.3	2
178	[FePAH] ⁺ complexes and [Fe _x PAH _y] ⁺ clusters in the interstellar medium: stability and spectroscopy. <i>EAS Publications Series</i> , 2011, 46, 441-446.	0.3	2
179	The ALMA view of UV-irradiated cloud edges: unexpected structures and processes. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 210-217.	0.0	2
180	Characterization of large carbonaceous molecules in cosmic dust analogues and meteorites. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 103-106.	0.0	2

#	ARTICLE	IF	CITATIONS
181	Impact of Metals on (Star)Dust Chemistry: A Laboratory Astrophysics Approach. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	2
182	Absorption Spectroscopy of Neutral and Ionized PAHs. Implications for the Diffuse Interstellar Bands. <i>Astrophysics and Space Science Library</i> , 1995, , 207-217.	1.0	2
183	Top-down formation of fullerenes in the interstellar medium (Corrigendum). <i>Astronomy and Astrophysics</i> , 2016, 588, C1.	2.1	2
184	Wide field, integral field spectroscopy at Dome A with an infrared Imaging FTS. <i>EAS Publications Series</i> , 2005, 14, 187-192.	0.3	2
185	Polycyclic Aromatic Hydrocarbons with SPICA. , 2009, , .		2
186	Visible Luminescence from PAH Cations and the Diffuse Bands in Emission. <i>Astrophysics and Space Science Library</i> , 1995, , 157-163.	1.0	2
187	PAHs in the Interstellar Carbon Cycle: The Experimental View of PIRENEA. <i>Springer Proceedings in Physics</i> , 1997, , 517-520.	0.1	1
188	Star Formation near Photodissociation Regions: Detection of a Peculiar Protostar near Cederblad 201. <i>Astrophysical Journal</i> , 2008, 680, 466-473.	1.6	1
189	Source separation algorithms for the analysis of hyper-spectral observations of very small interstellar dust particles. , 2009, , .		1
190	The shape of Mid-IR PAH bands in the Universe. <i>EAS Publications Series</i> , 2011, 46, 49-54.	0.3	1
191	Unidentified Infrared Emission Features. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 699-700.	0.0	1
192	Detection of the Buckminsterfullerene Cation (C ₆₀ ⁺) in Space. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 203-207.	0.0	1
193	Dissociation rate, fluorescence and Infrared radiative cooling rates of Naphthalene studied in electrostatic storage Miniring. <i>Journal of Physics: Conference Series</i> , 2015, 635, 032051.	0.3	1
194	The chemistry and spatial distribution of small hydrocarbons in UV-irradiated molecular clouds: the Orion Bar PDR(Corrigendum). <i>Astronomy and Astrophysics</i> , 2015, 579, C1.	2.1	1
195	Using cold plasma to investigate the mechanisms involved in cosmic dust formation: Role of the C/O ratio and metals. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 297-300.	0.0	1
196	INVESTIGATION OF PAHs IN GALACTIC PLANETARY NEBULAE WITH THE AKARI/IRC AND THE SPITZER/IRS. <i>Publications of the Korean Astronomical Society</i> , 2012, 27, 259-260.	0.1	1
197	The Cool Interstellar Medium. , 2005, , 247-271.		1
198	Blind Signal Separation Methods for the Identification of Interstellar Carbonaceous Nanoparticles. , 2007, , 681-688.		1

#	ARTICLE	IF	CITATIONS
199	IR spectroscopy of laboratory-simulated interstellar PAHs role of temperature on the band positions. AIP Conference Proceedings, 1994, , .	0.3	0
200	Testing the attribution of selected DIBs to dehydrogenated coronene cations. Proceedings of the International Astronomical Union, 2008, 4, 67-68.	0.0	0
201	Dehydrogenated coronene cations and interstellar extinction. Proceedings of the International Astronomical Union, 2008, 4, 75-76.	0.0	0
202	PAH anions as carriers of the mid-IR emission bands in planetary nebulae. Proceedings of the International Astronomical Union, 2008, 4, 207-212.	0.0	0
203	PAH-related Very Small Grains in photodissociation regions: implications from molecular simulations. EAS Publications Series, 2011, 46, 223-234.	0.3	0
204	PDR properties and spatial structures probed by Herschel and Spitzer spectroscopy. EAS Publications Series, 2011, 52, 293-294.	0.3	0
205	Near-Infrared Spectroscopy of the Diffuse Galactic Emission. Proceedings of the International Astronomical Union, 2012, 10, 703-704.	0.0	0
206	An overview of the PAHTAT toolbox. Proceedings of the International Astronomical Union, 2013, 9, 208-210.	0.0	0
207	Time Evolution of the internal energy distribution of molecules studied in an electrostatic storage ring, the Mini-Ring. Journal of Physics: Conference Series, 2014, 488, 102011.	0.3	0
208	PAH radiative cooling and fragmentation kinematics studied within an electrostatic ring. Journal of Physics: Conference Series, 2015, 583, 012042.	0.3	0
209	Circumstellar disks around Herbig Be stars (Corrigendum). Astronomy and Astrophysics, 2015, 577, C2.	2.1	0
210	PAH and H ₂ emission in the Ring Nebula. Journal of Physics: Conference Series, 2016, 728, 032011.	0.3	0
211	Experimental study of nanoparticle formation dynamics in HMDSO-Ar asymmetric capacitively-coupled radiofrequency plasma with application to deposition of nanocomposite layers. , 2016, , .		0
212	Stability of dimer and trimer of Naphthalene studied in electrostatic storage Mini-Ring.. Journal of Physics: Conference Series, 2017, 875, 102007.	0.3	0
213	Photoprocessing of large PAH cations. Proceedings of the International Astronomical Union, 2019, 15, 388-389.	0.0	0
214	Radiative cooling dynamics of anthracene cations stored in DESIREE studied via the time evolution of 2-photon-absorption induced dissociation rate. Journal of Physics: Conference Series, 2020, 1412, 232013.	0.3	0
215	Prospectives of Herschel PDR observations. EAS Publications Series, 2008, 31, 193-194.	0.3	0
216	CO and PAH ⁺ /PAH ⁰ /VSG maps in external galaxies. EAS Publications Series, 2008, 31, 169-171.	0.3	0

#	ARTICLE	IF	CITATIONS
217	Small Carbon Chains and Rings in Photo-Dominated Regions. Springer Proceedings in Physics, 1997, , 521-524.	0.1	0