Valentine Wakelam

List of Publications by Year
in descending order

143 papers	8,589 citations	41344 49 h-index	48315 88 g-index
145 all docs	145 docs citations	145 times ranked	3433 citing authors

#	Article	IF	Citations
1	Gas phase Elemental abundances in Molecular cloudS (GEMS) V. Methanol in Taurus. Astronomy and Astrophysics, 2022, 657, A10.	5.1	11
2	An Experimental and Theoretical Investigation of the Gas-Phase C(³P) + N₂O Reaction. Low Temperature Rate Constants and Astrochemical Implications. Journal of Physical Chemistry A, 2022, 126, 940-950.	2.5	4
3	Thermal Desorption of Interstellar Ices: A Review on the Controlling Parameters and Their Implications from Snowlines to Chemical Complexity. ACS Earth and Space Chemistry, 2022, 6, 597-630.	2.7	55
4	The ALMA-PILS survey: First tentative detection of 3-hydroxypropenal (HOCHCHCHO) in the interstellar medium and chemical modeling of the C₃H₄O₂ isomers. Astronomy and Astrophysics, 2022, 660, L6.	5.1	11
5	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2022, 662, A52.	5.1	9
6	The SiÂ+ÂSO2 collision and an extended network of neutralâ€“neutral reactions between silicon and sulphur bearing species. Monthly Notices of the Royal Astronomical Society, 2022, 515, 369-377.	4.4	2
7	The ALMA-PILS survey: first detection of the unsaturated 3-carbon molecules Propenal (C₂H₃CHO) and Propylene (C₃H₆) towards IRAS 16293â€“2422 B. Astronomy and Astrophysics, 2021, 645, A53.	5.1	28
8	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2021, 646, A5.	5.1	17
9	Chemical compositions of five Planck cold clumps. Astronomy and Astrophysics, 2021, 647, A172.	5.1	5
10	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2021, 648, A120.	5.1	24
11	Kinetic Study of the Gas-Phase C(³P) + CH₃CN Reaction at Low Temperatures: Rate Constants, H-Atom Product Yields, and Astrochemical Implications. ACS Earth and Space Chemistry, 2021, 5, 824-833.	2.7	7
12	Impact of size-dependent grain temperature on gas-grain chemistry in protoplanetary disks: The case of low-mass star disks. Astronomy and Astrophysics, 2021, 654, A65.	5.1	12
13	Evolutionary view through the starless cores in Taurus. Astronomy and Astrophysics, 2021, 653, A15.	5.1	13
14	Efficiency of non-thermal desorptions in cold-core conditions. Astronomy and Astrophysics, 2021, 652, A63.	5.1	26
15	SiS Formation in the Interstellar Medium through Si+SH Gas-phase Reactions. Astrophysical Journal, 2021, 920, 37.	4.5	10
16	Influence of galactic arm scale dynamics on the molecular composition of the cold and dense ISM III. Elemental depletion and shortcomings of the current physico-chemical models. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2309-2319.	4.4	5
17	A Decade with VAMDC: Results and Ambitions. Atoms, 2020, 8, 76.	1.6	53
18	LEGO â€“ II. A 3â€‰mm molecular line study covering 100â€‰pc of one of the most actively star-forming portions within the Milky Way disc. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1972-2001.	4.4	30

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19	Gas-grain model of carbon fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4663-4679.	4.4	23
20	Gas phase Elemental abundances in Molecular cloudS (GEMS). Astronomy and Astrophysics, 2020, 637, A39.	5.1	44
21	Chemical evolution during the formation of a protoplanetary disk. Astronomy and Astrophysics, 2020, 643, A108.	5.1	10
22	Breakdown curves of CH2(+), CH3(+), and CH4(+) molecules. Astronomy and Astrophysics, 2020, 640, A115.	5.1	1
23	Constraints of the Formation and Abundances of Methyl Carbamate, a Glycine Isomer, in Hot Corinos. Astrophysical Journal, 2020, 899, 65.	4.5	3
24	Sulphur and carbon isotopes towards Galactic centre clouds. Astronomy and Astrophysics, 2020, 642, A222.	5.1	15
25	Abundances of sulphur molecules in the Horsehead nebula. Astronomy and Astrophysics, 2019, 628, A16.	5.1	31
26	Isocyanogen formation in the cold interstellar medium. Astronomy and Astrophysics, 2019, 625, A91.	5.1	29
27	Oxygen fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5777-5789.	4.4	27
28	Influence of galactic arm scale dynamics on the molecular composition of the cold and dense ISM â€“ II. Molecular oxygen abundance. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4198-4202.	4.4	8
29	The ALMA-PILS survey: First detection of nitrous acid (HONO) in the interstellar medium. Astronomy and Astrophysics, 2019, 623, L13.	5.1	37
30	Chemical nitrogen fractionation in dense molecular clouds. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2747-2756.	4.4	29
31	Protoplanetary discs: sensitivity of the chemical composition to various model parameters. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1563-1573.	4.4	13
32	3D modelling of HCO+ and its isotopologues in the low-mass proto-star IRAS16293â˜’2422. Monthly Notices of the Royal Astronomical Society, 2018, 477, 5312-5326.	4.4	6
33	Methyl isocyanate (CH3NCO): an important missing organic in current astrochemical networks. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 473, L59-L63.	3.3	23
34	A new look at sulphur chemistry in hot cores and corinos. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5575-5587.	4.4	41
35	Detection of HOCO+ in the protostar IRAS 16293â˜’2422. Monthly Notices of the Royal Astronomical Society, 2018, 477, 525-530.	4.4	9
36	Statistical study of uncertainties in the diffusion rate of species on interstellar ice and its impact on chemical model predictions. Astronomy and Astrophysics, 2018, 620, A109.	5.1	10

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37	First detection of H₂S in a protoplanetary disk. Astronomy and Astrophysics, 2018, 616, L5.	5.1	42
38	Methyl cyanide (CH3CN) and propyne (CH3CCH) in the low-mass protostar IRAS 16293â€“2422. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5651-5659.	4.4	20
39	Influence of galactic arm scale dynamics on the molecular composition of the cold and dense ISM. Astronomy and Astrophysics, 2018, 611, A96.	5.1	8
40	Sulphur chemistry in the L1544 pre-stellar core. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5514-5532.	4.4	81
41	Semiempirical breakdown curves of C2N(+) and C3N(+) molecules; application to products branching ratios predictions of physical and chemical processes involving these adducts. Molecular Astrophysics, 2018, 12, 25-32.	1.6	4
42	The Difference in Abundance between N-bearing and O-bearing Species in High-mass Star-forming Regions. Astrophysical Journal, Supplement Series, 2018, 237, 3.	7.7	23
43	Nautilus multi-grain model: Importance of cosmic-ray-induced desorption in determining the chemical abundances in the ISM. Astronomy and Astrophysics, 2018, 615, A20.	5.1	21
44	An Expanded Gas-grain Model for Interstellar Glycine. Astrophysical Journal, 2018, 863, 51.	4.5	21
45	Binding energies: New values and impact on the efficiency of chemical desorption. Molecular Astrophysics, 2017, 6, 22-35.	1.6	145
46	A new study of the chemical structure of the Horsehead nebula: the influence of grain-surface chemistry. Astronomy and Astrophysics, 2017, 605, A88.	5.1	24
47	The interstellar chemistry of C3H and C3H2 isomers. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4075-4088.	4.4	58
48	H 2 formation on interstellar dust grains: The viewpoints of theory, experiments, models and observations. Molecular Astrophysics, 2017, 9, 1-36.	1.6	164
49	On the reservoir of sulphur in dark clouds: chemistry and elemental abundance reconciled. Monthly Notices of the Royal Astronomical Society, 2017, 469, 435-447.	4.4	129
50	A study of singly deuterated cyclopropenylidene c-C3HD in the protostar IRAS 16293â€“2422. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3525-3532.	4.4	16
51	First Detection of Interstellar S₂H. Astrophysical Journal Letters, 2017, 851, L49.	8.3	55
52	The Flying Saucer: Tomography of the thermal and density gas structure of an edge-on protoplanetary disk. Astronomy and Astrophysics, 2017, 607, A130.	5.1	47
53	The virtual atomic and molecular data centre (VAMDC) consortium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 074003.	1.5	120
54	Chemistry in disks. Astronomy and Astrophysics, 2016, 592, A124.	5.1	48

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55	Importance of the H₂abundance in protoplanetary disk ices for the molecular layer chemical composition. Astronomy and Astrophysics, 2016, 594, A35.	5.1	17
56	SURVEY OBSERVATIONS OF A POSSIBLE GLYCINE PRECURSOR, METHANIMINE (CH₂NH). Astrophysical Journal, 2016, 825, 79.	4.5	49
57	CHEMICAL AND PHYSICAL CHARACTERIZATION OF COLLAPSING LOW-MASS PRESTELLAR DENSE CORES. Astrophysical Journal, 2016, 822, 12.	4.5	25
58	Methylacetylene (CH3CCH) and propene (C3H6) formation in cold dense clouds: A case of dust grain chemistry. Molecular Astrophysics, 2016, 3-4, 1-9.	1.6	37
59	Temperature dependent product yields for the spin forbidden singlet channel of the C(3P) + C2H2 reaction. Chemical Physics Letters, 2016, 659, 70-75.	2.6	19
60	A NEW REFERENCE CHEMICAL COMPOSITION FOR TMC-1. Astrophysical Journal, Supplement Series, 2016, 225, 25.	7.7	86
61	Gas and grain chemical composition in cold cores as predicted by the Nautilus three-phase model. Monthly Notices of the Royal Astronomical Society, 2016, 459, 3756-3767.	4.4	207
62	The interstellar chemistry of H₂C₃O isomers. Monthly Notices of the Royal Astronomical Society, 2016, 456, 4101-4110.	4.4	63
63	Detection of CH₃SH in protostar IRAS 16293-2422. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1859-1865.	4.4	47
64	THE C(³P) + NH₃REACTION IN INTERSTELLAR CHEMISTRY. II. LOW TEMPERATURE RATE CONSTANTS AND MODELING OF NH, NH₂, AND NH₃ABUNDANCES IN DENSE INTERSTELLAR CLOUDS. Astrophysical Journal, 2015, 812, 107.	4.5	37
65	THE C(³P) + NH₃REACTION IN INTERSTELLAR CHEMISTRY. I. INVESTIGATION OF THE PRODUCT FORMATION CHANNELS. Astrophysical Journal, 2015, 812, 106.	4.5	37
66	Breakdown curves of carbon-based molecules for astrochemistry. Journal of Physics: Conference Series, 2015, 635, 032107.	0.4	0
67	Depletion of chlorine into HCl ice in a protostellar core. Astronomy and Astrophysics, 2015, 574, A107.	5.1	32
68	Modelling complex organic molecules in dense regions: Eleyâ€“Rideal and complex induced reaction. Monthly Notices of the Royal Astronomical Society, 2015, 447, 4004-4017.	4.4	118
69	THE DEUTERIUM FRACTIONATION TIMESCALE IN DENSE CLOUD CORES: A PARAMETER SPACE EXPLORATION. Astrophysical Journal, 2015, 804, 98.	4.5	60
70	A proposed chemical scheme for HCCO formation in cold dense clouds. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 453, L48-L52.	3.3	17
71	THE 2014 KIDA NETWORK FOR INTERSTELLAR CHEMISTRY. Astrophysical Journal, Supplement Series, 2015, 217, 20.	7.7	291
72	Chemistry in disks. Astronomy and Astrophysics, 2015, 574, A137.	5.1	46

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73	Sensitive survey for¹³CO, CN, H₂CO, and SO in the disks of T Tauri and Herbig Ae stars. Astronomy and Astrophysics, 2015, 578, A31.	5.1	16
74	Chemistry in protoplanetary disks: the gas-phase CO/H₂ratio and the carbon reservoir. Astronomy and Astrophysics, 2015, 579, A82.	5.1	61
75	Grain-surface reactions in molecular clouds: the effect of cosmic rays and quantum tunnelling. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3557-3567.	4.4	54
76	Chemical modelling of water deuteration in IRAS16293-2422. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2854-2871.	4.4	31
77	The interstellar gas-phase chemistry of HCN and HNC. Monthly Notices of the Royal Astronomical Society, 2014, 443, 398-410.	4.4	90
78	The fast C(³P) + CH₃OH reaction as an efficient loss process for gas-phase interstellar methanol. RSC Advances, 2014, 4, 26342-26353.	3.6	47
79	CH in absorption in IRAS 16293-2422. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1964-1973.	4.4	24
80	Low temperature rate constants for the N(4S) + CH(X2Îr) reaction. Implications for N2 formation cycles in dense interstellar clouds. Physical Chemistry Chemical Physics, 2013, 15, 13888.	2.8	34
81	Chemistry of Dark Clouds: Databases, Networks, and Models. Chemical Reviews, 2013, 113, 8710-8737.	47.7	202
82	Astrochemistry: Synthesis and Modelling. , 2013, , 115-143.		7
83	REACTIONS FORMING C$_{n=2,10}^{(0,+)}$, C_{n= 2, 4}H^(0, +), AND C₃H$_2^{(0,+)}$ IN THE GAS PHASE: SEMIEMPIRICAL BRANCHING RATIOS. Astrophysical Journal, 2013, 771, 90.	4.5	29
84	WATER IN PROTOPLANETARY DISKS: DEUTERATION AND TURBULENT MIXING. Astrophysical Journal, 2013, 779, 11.	4.5	80
85	SURVIVAL OF INTERSTELLAR MOLECULES TO PRESTELLAR DENSE CORE COLLAPSE AND EARLY PHASES OF DISK FORMATION. Astrophysical Journal, 2013, 775, 44.	4.5	40
86	NEW CONSTRAINTS ON THE SULFUR RESERVOIR IN THE DENSE INTERSTELLAR MEDIUM PROVIDED BYSPITZEROBSERVATIONS OF S I IN SHOCKED GAS. Astrophysical Journal, 2013, 779, 141.	4.5	46
87	The gas-phase chemistry of carbon chains in dark cloud chemical models. Monthly Notices of the Royal Astronomical Society, 2013, 437, 930-945.	4.4	57
88	Carbon Interstellar Chemistry: Theory versus Observations. Proceedings of the International Astronomical Union, 2013, 9, 303-310.	0.0	0
89	Heavy water stratification in a low-mass protostar. Astronomy and Astrophysics, 2013, 553, A75.	5.1	29
90	A KINETIC DATABASE FOR ASTROCHEMISTRY (KIDA). Astrophysical Journal, Supplement Series, 2012, 199, 21.	7.7	436

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91	Kinetic database for astrochemistry. EAS Publications Series, 2012, 58, 287-290.	0.3	3
92	FROM PRESTELLAR TO PROTOSTELLAR CORES. II. TIME DEPENDENCE AND DEUTERIUM FRACTIONATION. Astrophysical Journal, 2012, 760, 40.	4.5	129
93	CHEMISTRY IN DISKS. VII. FIRST DETECTION OF HC₃N IN PROTOPLANETARY DISKS. Astrophysical Journal, 2012, 756, 58.	4.5	61
94	Elemental nitrogen partitioning in dense interstellar clouds. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10233-10238.	7.1	73
95	Polysulphanes on interstellar grains as a possible reservoir of interstellar sulphur. Monthly Notices of the Royal Astronomical Society, 2012, 426, 354-359.	4.4	33
96	CHEMISTRY IN THE FIRST HYDROSTATIC CORE STAGE BY ADOPTING THREE-DIMENSIONAL RADIATION HYDRODYNAMIC SIMULATIONS. Astrophysical Journal, 2012, 758, 86.	4.5	37
97	Chemistry in disks. Astronomy and Astrophysics, 2012, 548, A70.	5.1	64
98	Review of OCS gas-phase reactions in dark cloud chemical models. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1476-1484.	4.4	34
99	Oxygen depletion in dense molecular clouds: a clue to a low O₂abundance?. Astronomy and Astrophysics, 2011, 530, A61.	5.1	121
100	Chemistry in disks. Astronomy and Astrophysics, 2011, 535, A104.	5.1	49
101	Sulfur chemistry: 1D modeling in massive dense cores. Astronomy and Astrophysics, 2011, 529, A112.	5.1	46
102	TIMASSS: the IRASÂ16293-2422 millimeter and submillimeter spectral survey. Astronomy and Astrophysics, 2011, 532, A23.	5.1	133
103	Hydrodynamical-Chemical Models from Prestellar Cores to Protostellar Cores. Proceedings of the International Astronomical Union, 2011, 7, 33-42.	0.0	7
104	Nitrogen hydrides in the cold envelope of IRASÂ16293-2422. Astronomy and Astrophysics, 2010, 521, L52.	5.1	56
105	Detection of interstellar oxidaniumyl: Abundant H₂O⁺towards the star-forming regions DR21, SgrÂB2, and NGC6334. Astronomy and Astrophysics, 2010, 518, L111.	5.1	78
106	The CHESS spectral survey of star forming regions: Peering into the protostellar shock L1157-B1. Astronomy and Astrophysics, 2010, 518, L112.	5.1	97
107	The CHESS spectral survey of star forming regions: Peering into the protostellar shock L1157-B1. Astronomy and Astrophysics, 2010, 518, L113.	5.1	61
108	Herschelspectral surveys of star-forming regions. Astronomy and Astrophysics, 2010, 521, L22.	5.1	99

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109	Ortho-to-para ratio of interstellar heavy water. Astronomy and Astrophysics, 2010, 521, L31.	5.1	40
110	Sensitivity analyses of dense cloud chemical models. Astronomy and Astrophysics, 2010, 517, A21.	5.1	50
111	Herschel/HIFI discovery of interstellar chloronium (H₂Cl⁺). Astronomy and Astrophysics, 2010, 521, L9.	5.1	83
112	The distribution of water in the high-mass star-forming region NGCÂ6334ÂI. Astronomy and Astrophysics, 2010, 521, L28.	5.1	30
113	Statistical universal branching ratios for cosmic ray dissociation, photodissociation, and dissociative recombination of the C, CH and C₃H₂neutral and cationic species. Astronomy and Astrophysics, 2010, 524, A39.	5.1	17
114	Chemistry in disks. Astronomy and Astrophysics, 2010, 522, A42.	5.1	171
115	A NEW NETWORK FOR HIGHER-TEMPERATURE GAS-PHASE CHEMISTRY. I. A PRELIMINARY STUDY OF ACCRETION DISKS IN ACTIVE GALACTIC NUCLEI. Astrophysical Journal, 2010, 721, 1570-1578.	4.5	149
116	Reaction Networks for Interstellar Chemical Modelling: Improvements and Challenges. Space Science Reviews, 2010, 156, 13-72.	8.1	225
117	Virtual atomic and molecular data centre. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 2151-2159.	2.3	164
118	Câ€‰I observations in the CQâ€‰Tauri proto-planetary disk: evidence of a very low gas-to-dust ratio ?. Astronomy and Astrophysics, 2010, 520, A61.	5.1	20
119	CHEMISTRY IN DISKS. III. PHOTOCHEMISTRY AND X-RAY DRIVEN CHEMISTRY PROBED BY THE ETHYNYL RADICAL (CCH) IN DM Tau, LkCa 15, AND MWC 480. Astrophysical Journal, 2010, 714, 1511-1520.	4.5	72
120	Herschel/HIFI observations of spectrally resolved methylidyne signatures toward the high-mass star-forming core NGCâ€‰6334I. Astronomy and Astrophysics, 2010, 521, L43.	5.1	14
121	First detection of ND in the solar-mass protostar IRAS16293-2422. Astronomy and Astrophysics, 2010, 521, L42.	5.1	41
122	The methanol lines and hot core of OMC2-FIR4, an intermediate-mass protostar, withHerschel/HIFI. Astronomy and Astrophysics, 2010, 521, L39.	5.1	16
123	A sensitivity study of the neutral-neutral reactions CÂ+ÂC$_{sf 3}$ and CÂ+ÂC$_{sf 5}$ in cold dense interstellar clouds. Astronomy and Astrophysics, 2009, 495, 513-521.	5.1	33
124	Cold CO in circumstellar disks. Astronomy and Astrophysics, 2009, 493, L49-L52.	5.1	77
125	MOLECULAR CLOUD CHEMISTRY AND THE IMPORTANCE OF DIELECTRONIC RECOMBINATION. Astrophysical Journal, 2009, 694, 286-293.	4.5	15
126	S-bearing molecules in massive dense cores. Astronomy and Astrophysics, 2009, 504, 853-867.	5.1	43

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127	Molecular evolution in star-forming cores: From prestellar cores to protostellar cores. Proceedings of the International Astronomical Union, 2008, 4, 129-136.	0.0	1
128	Polycyclic Aromatic Hydrocarbons in Dense Cloud Chemistry. Astrophysical Journal, 2008, 680, 371-383.	4.5	234
129	Composition of Ices in Lowâ€Mass Extrasolar Planets. Astrophysical Journal, 2008, 681, 1624-1630.	4.5	56
130	Molecular Evolution and Star Formation: From Prestellar Cores to Protostellar Cores. Astrophysical Journal, 2008, 674, 984-996.	4.5	195
131	Chemistry in Protoplanetary Disks: A Sensitivity Analysis. Astrophysical Journal, 2008, 672, 629-641.	4.5	75
132	Non-thermal desorption from interstellar dust grains via exothermic surface reactions. Astronomy and Astrophysics, 2007, 467, 1103-1115.	5.1	378
133	The effect of uncertainties on chemical models of dark clouds. Astronomy and Astrophysics, 2006, 451, 551-562.	5.1	115
134	Chemical sensitivity to the ratio of the cosmic-ray ionization rates of He and H2in dense clouds. Astronomy and Astrophysics, 2006, 459, 813-820.	5.1	25
135	Modeling the ortho-to-para abundance ratio of cyclic C3H2in cold dense cores. Astronomy and Astrophysics, 2006, 449, 631-639.	5.1	26
136	Chemical differentiation along the CepA-East outflows. Monthly Notices of the Royal Astronomical Society, 2005, 361, 244-258.	4.4	42
137	Estimation and reduction of the uncertainties in chemical models: application to hot core chemistry. Astronomy and Astrophysics, 2005, 444, 883-891.	5.1	59
138	HDO abundance in the envelope of the solar-type protostar IRASÂ16293â€“2422. Astronomy and Astrophysics, 2005, 431, 547-554.	5.1	66
139	Sulphur chemistry and molecular shocks: The case of NGCÂ1333-IRASâ€‰2. Astronomy and Astrophysics, 2005, 437, 149-158.	5.1	43
140	Sulphur-bearing species in the star forming region L1689N. Astronomy and Astrophysics, 2004, 413, 609-622.	5.1	74
141	Resetting chemical clocks of hot cores based on S-bearing molecules. Astronomy and Astrophysics, 2004, 422, 159-169.	5.1	141
142	The Hot Core around the Low-Mass Protostar IRAS 16293-2422: Scoundrels Rule!. Astrophysical Journal, 2003, 593, L51-L55.	4.5	423
143	New constraints on the initial parameters of low-mass star formation from chemical modeling. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	1