Amelie Saintonge

List of Publications by Year
in descending order

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121 papers	12,062 citations	30047 54 h-index	25770 108 g-index
121 all docs	121 docs citations	121 times ranked	4998 citing authors

#	Article	IF	Citations
1	PHIBSS: MOLECULAR GAS CONTENT AND SCALING RELATIONS INzâ^¼ 1-3 MASSIVE, MAIN-SEQUENCE STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 768, 74.	1.6	752
2	The Arecibo Legacy Fast ALFA Survey. I. Science Goals, Survey Design, and Strategy. Astronomical Journal, 2005, 130, 2598-2612.	1.9	636
3	GALAXY STRUCTURE AND MODE OF STAR FORMATION IN THE SFR-MASS PLANE FROMzâ^¼ 2.5 TOzâ^¼ 0.1. Astrophysical Journal, 2011, 742, 96.	1.6	590
4	THE ARECIBO LEGACY FAST ALFA SURVEY: THE Î±.40 H I SOURCE CATALOG, ITS CHARACTERISTICS AND THEIR IMPACT ON THE DERIVATION OF THE H I MASS FUNCTION. Astronomical Journal, 2011, 142, 170.	1.9	544
5	COMBINED CO AND DUST SCALING RELATIONS OF DEPLETION TIME AND MOLECULAR GAS FRACTIONS WITH COSMIC TIME, SPECIFIC STAR-FORMATION RATE, AND STELLAR MASS. Astrophysical Journal, 2015, 800, 20.	1.6	482
6	PHIBSS: Unified Scaling Relations of Gas Depletion Time and Molecular Gas Fractions*. Astrophysical Journal, 2018, 853, 179.	1.6	467
7	COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - I. Relations between H2, Hâ€ƒi, stellar content and structural properties. Monthly Notices of the Royal Astronomical Society, 2011, 415, 32-60.	1.6	418
8	PACS Evolutionary Probe (PEP) â€“ AHerschelkey program. Astronomy and Astrophysics, 2011, 532, A90.	2.1	407
9	xCOLD GASS: The Complete IRAM 30 m Legacy Survey of Molecular Gas for Galaxy Evolution Studies. Astrophysical Journal, Supplement Series, 2017, 233, 22.	3.0	350
10	COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - II. The non-universality of the molecular gas depletion time-scale. Monthly Notices of the Royal Astronomical Society, 2011, 415, 61-76.	1.6	313
11	SMOOTH(ER) STELLAR MASS MAPS IN CANDELS: CONSTRAINTS ON THE LONGEVITY OF CLUMPS IN HIGH-REDSHIFT STAR-FORMING GALAXIES. Astrophysical Journal, 2012, 753, 114.	1.6	271
12	xGASS: total cold gas scaling relations and molecular-to-atomic gas ratios of galaxies in the local Universe. Monthly Notices of the Royal Astronomical Society, 2018, 476, 875-895.	1.6	261
13	AHerschelview of the far-infrared properties of submillimetre galaxies. Astronomy and Astrophysics, 2012, 539, A155.	2.1	232
14	THE METALLICITY DEPENDENCE OF THE CO â†' H₂CONVERSION FACTOR INzâ©¾ 1 STAR-FORMING GALAXIES. Astrophysical Journal, 2012, 746, 69.	1.6	232
15	The firstHerschelview of the mass-SFR link in high-zgalaxies. Astronomy and Astrophysics, 2010, 518, L25.	2.1	222
16	THE IMPACT OF INTERACTIONS, BARS, BULGES, AND ACTIVE GALACTIC NUCLEI ON STAR FORMATION EFFICIENCY IN LOCAL MASSIVE GALAXIES. Astrophysical Journal, 2012, 758, 73.	1.6	215
17	VALIDATION OF THE EQUILIBRIUM MODEL FOR GALAXY EVOLUTION TOzâ^¼ 3 THROUGH MOLECULAR GAS AND DUST OBSERVATIONS OF LENSED STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 778, 2.	1.6	205
18	The evolution of the dust temperatures of galaxies in the SFRâ€“M_{â^—}plane up tozÂ–Â2. Astronomy and Astrophysics, 2014, 561, A86.	2.1	194

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19	The far-infrared/radio correlation as probed byHerschel. Astronomy and Astrophysics, 2010, 518, L31.	2.1	190
20	REVERSAL OF FORTUNE: CONFIRMATION OF AN INCREASING STAR FORMATIONâ€"DENSITY RELATION IN A CLUSTER AT z = 1.62. Astrophysical Journal Letters, 2010, 719, L126-L129.	3.0	187
21	Molecular and atomic gas along and across the main sequence of star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1749-1756.	1.6	184
22	Herschelunveils a puzzling uniformity of distant dusty galaxies. Astronomy and Astrophysics, 2010, 518, L29.	2.1	182
23	Star formation in AGN hosts in GOODS-N. Astronomy and Astrophysics, 2010, 518, L26.	2.1	149
24	Evolution of dust temperature of galaxies through cosmic time as seen by Herschelâ˜…. Monthly Notices of the Royal Astronomical Society, 2010, 409, 75-82.	1.6	145
25	Cold gas properties of theHerschelReference Survey. Astronomy and Astrophysics, 2014, 564, A66.	2.1	142
26	Cold gas properties of theHerschelReference Survey. Astronomy and Astrophysics, 2014, 564, A67.	2.1	138
27	The Arecibo Legacy Fast ALFA Survey. III. HiSource Catalog of the Northern Virgo Cluster Region. Astronomical Journal, 2007, 133, 2569-2583.	1.9	131
28	Dust temperature and CO Âât'Â H₂conversion factor variations in the SFR-M_{â^—}plane. Astronomy and Astrophysics, 2012, 548, A22.	2.1	123
29	Dissecting the cosmic infra-red background withHerschel/PEP. Astronomy and Astrophysics, 2010, 518, L30.	2.1	106
30	The Arecibo Legacy Fast ALFA Survey. IV. Strategies for Signal Identification and Survey Catalog Reliability. Astronomical Journal, 2007, 133, 2087-2096.	1.9	101
31	The star-formation rates of 1.5 < z < 2.5 massive galaxies. Astronomy and Astrophysics, 2010, 518, L24.	2.1	99
32	NUCLEAR ACTIVITY IS MORE PREVALENT IN STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 771, 63.	1.6	96
33	THEGALEXARECIBO SDSS SURVEY. V. THE RELATION BETWEEN THE H I CONTENT OF GALAXIES AND METAL ENRICHMENT AT THEIR OUTSKIRTS. Astrophysical Journal, 2012, 745, 66.	1.6	93
34	CONNECTION BETWEEN THE CIRCUMGALACTIC MEDIUM AND THE INTERSTELLAR MEDIUM OF GALAXIES: RESULTS FROM THE COS-GASS SURVEY. Astrophysical Journal, 2015, 813, 46.	1.6	90
35	THE SURVEY OF H I IN EXTREMELY LOW-MASS DWARFS (SHIELD). Astrophysical Journal Letters, 2011, 739, L22.	3.0	88
36	How to quench a galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 465, 547-558.	1.6	86

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37	THE IMPACT OF EVOLVING INFRARED SPECTRAL ENERGY DISTRIBUTIONS OF GALAXIES ON STAR FORMATION RATE ESTIMATES. Astrophysical Journal, 2012, 745, 182.	1.6	85
38	Spitzer /MIPS 24 Î¼m Observations of Galaxy Clusters: An Increasing Fraction of Obscured Star-forming Members from z = 0.02 to z = 0.83. Astrophysical Journal, 2008, 685, L113-L116.	1.6	81
39	Deriving a multivariate Î±CO conversion function using the [CII]/CO(1-0) ratio and its application to molecular gas scaling relations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	79
40	PHIBSS: MOLECULAR GAS, EXTINCTION, STAR FORMATION, AND KINEMATICS IN THEz= 1.5 STAR-FORMING GALAXY EGS13011166. Astrophysical Journal, 2013, 773, 68.	1.6	78
41	PHIBSS2: survey design and z = 0.5 â€“ 0.8 results. Astronomy and Astrophysics, 2019, 622, A105.	2.1	77
42	The Arecibo Legacy Fast ALFA Survey. II. Results of Precursor Observations. Astronomical Journal, 2005, 130, 2613-2624.	1.9	76
43	Far-infrared properties of submillimeter and optically faint radio galaxies. Astronomy and Astrophysics, 2010, 518, L28.	2.1	75
44	The dust content of high-zsubmillimeter galaxies revealed byHerschel. Astronomy and Astrophysics, 2010, 518, L154.	2.1	74
45	Quantifying the role of bars in the build-up of central mass concentrations in disc galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 423, 3486-3501.	1.6	72
46	Galaxy cold gas contents in modern cosmological hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2020, 497, 146-166.	1.6	71
47	The Cold Interstellar Medium of Galaxies in the Local Universe. Annual Review of Astronomy and Astrophysics, 2022, 60, 319-361.	8.1	67
48	PEP: FirstHerschelprobe of dusty galaxy evolution up to z ~ 3. Astronomy and Astrophysics, 2010, 518, L27.	2.1	65
49	THE ARECIBO LEGACY FAST ALFA SURVEY. IX. THE LEO REGION H I CATALOG, GROUP MEMBERSHIP, AND THE H I MASS FUNCTION FOR THE LEO I GROUP. Astronomical Journal, 2009, 138, 338-361.	1.9	63
50	THE ARECIBO LEGACY FAST ALFA SURVEY. VI. SECOND HI SOURCE CATALOG OF THE VIRGO CLUSTER REGION. Astronomical Journal, 2008, 136, 713-724.	1.9	61
51	The evolution of the star formation activity per halo mass up to redshift Â~1.6 as seen byHerschel. Astronomy and Astrophysics, 2012, 537, A58.	2.1	60
52	THE PROPERTIES OF THE CIRCUMGALACTIC MEDIUM IN RED AND BLUE GALAXIES: RESULTS FROM THE COS-GASS+COS-HALOS SURVEYS. Astrophysical Journal, 2016, 833, 259.	1.6	60
53	CAUGHT IN THE ACT: THE ASSEMBLY OF MASSIVE CLUSTER GALAXIES ATz= 1.62. Astrophysical Journal, 2013, 773, 154.	1.6	58
54	Deep CO(1â€“0) Observations of zÂ=Â1.62 Cluster Galaxies with Substantial Molecular Gas Reservoirs and Normal Star Formation Efficiencies. Astrophysical Journal, 2017, 849, 27.	1.6	58

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55	LLAMA: normal star formation efficiencies of molecular gas in the centres of luminous Seyfert galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 473, 5658-5679.	1.6	57
56	Molecular and Ionized Gas Phases of an AGN-driven Outflow in a Typical Massive Galaxy at zÂâ‰ˆÂ2. Astrophysical Journal, 2019, 871, 37.	1.6	56
57	The GALEX Arecibo SDSS Survey - IV. Baryonic mass-velocity-size relations of massive galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1959-1976.	1.6	54
58	ZFIRE: GALAXY CLUSTER KINEMATICS, HÎ±STAR FORMATION RATES, AND GAS PHASE METALLICITIES OF XMM-LSS J02182-05102 AT ${z}_{mathrm{cl}}=1.6233$. Astrophysical Journal, 2015, 811, 28.	1.6	54
59	A SPECTROSCOPICALLY CONFIRMED EXCESS OF 24 Î¼m SOURCES IN A SUPER GALAXY GROUP ATz= 0.37: ENHANCED DUSTY STAR FORMATION RELATIVE TO THE CLUSTER AND FIELD ENVIRONMENT. Astrophysical Journal, 2009, 705, 809-820.	1.6	53
60	BAT AGN Spectroscopic Survey. XX. Molecular Gas in Nearby Hard-X-Ray-selected AGN Galaxies. Astrophysical Journal, Supplement Series, 2021, 252, 29.	3.0	52
61	The Effect of Galaxy Interactions on Molecular Gas Properties. Astrophysical Journal, 2018, 868, 132.	1.6	51
62	Galaxy pairs in the SDSS â€“ XIII. The connection between enhanced star formation and molecular gas properties in galaxy mergers. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2591-2604.	1.6	49
63	EDGE: The Origin of Scatter in Ultra-faint Dwarf Stellar Masses and Surface Brightnesses. Astrophysical Journal Letters, 2019, 886, L3.	3.0	47
64	xGASS: Gas-rich central galaxies in small groups and their connections to cosmic web gas feeding. Monthly Notices of the Royal Astronomical Society, 0, , stx046.	1.6	46
65	The effect of environment on star forming galaxies at redshift. Astronomy and Astrophysics, 2011, 532, A145.	2.1	45
66	THE FAR-INFRARED, UV, AND MOLECULAR GAS RELATION IN GALAXIES UP TOz= 2.5. Astrophysical Journal, 2013, 762, 125.	1.6	44
67	THE ARECIBO LEGACY FAST ALFA SURVEY. V. THE H I SOURCE CATALOG OF THE ANTI-VIRGO REGION AT Î´ = +27Â°. Astronomical Journal, 2008, 135, 588-604.	1.9	43
68	Star formation in the cluster CLG0218.3-0510 at zÂ=Â1.62 and its large-scale environment: the infrared perspective. Monthly Notices of the Royal Astronomical Society, 2014, 438, 2565-2577.	1.6	42
69	HIGH-RESOLUTION IMAGING OF PHIBSSzâˆ¼ 2 MAIN-SEQUENCE GALAXIES IN COJ= 1 â†’ 0. Astrophysical Journal, 2015, 809, 175.	1.6	42
70	Optically Unseen H <scp>i</scp> Detections toward the Virgo Cluster Detected in the Arecibo Legacy Fast ALFA Survey. Astrophysical Journal, 2007, 665, L15-L18.	1.6	40
71	COLD GASS, an IRAM legacy survey of molecular gas in massive galaxies - III. Comparison with semi-analytic models of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2012, 422, 997-1006.	1.6	39
72	A FIRST GLIMPSE INTO THE FAR-IR PROPERTIES OF HIGH- z UV-SELECTED GALAXIES: HERSCHEL /PACS OBSERVATIONS OF z âˆ¼ 3 LBGS. Astrophysical Journal Letters, 2010, 720, L185-L189.	3.0	36

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73	HIghMass-HIGH H I MASS, H I-RICH GALAXIES ATzâˆ¼ 0 SAMPLE DEFINITION, OPTICAL AND HÎ± IMAGING, AND STAR FORMATION PROPERTIES. Astrophysical Journal, 2014, 793, 40.	1.6	36
74	Hâ€‰I clouds in the proximity of M 33. Astronomy and Astrophysics, 2008, 487, 161-175.	2.1	36
75	xGASS: cold gas content and quenching in galaxies below the star-forming main sequence. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1982-1995.	1.6	34
76	DISTANCE DETERMINATIONS TO SHIELD GALAXIES FROMHUBBLE SPACE TELESCOPEIMAGING. Astrophysical Journal, 2014, 785, 3.	1.6	33
77	xGASS: H i Fueling of Star Formation in Disk-dominated Galaxies. Astrophysical Journal, 2020, 890, 63.	1.6	32
78	The prevalence and properties of cold gas inflows and outflows around galaxies in the local Universe. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	31
79	JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies â€“ I. Survey overview and first results. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3497-3519.	1.6	30
80	The CO(3â€“2)/CO(1â€“0) Luminosity Line Ratio in Nearby Star-forming Galaxies and Active Galactic Nuclei from xCOLD GASS, BASS, and SLUGS. Astrophysical Journal, 2020, 889, 103.	1.6	29
81	Outflows in star-forming galaxies: Stacking analyses of resolved winds and the relation to their hostsâ€™ properties. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3081-3097.	1.6	29
82	SHIELD: COMPARING GAS AND STAR FORMATION IN LOW-MASS GALAXIES. Astrophysical Journal, 2016, 832, 85.	1.6	28
83	JINGLE â€“ IV. Dust, Hâ€‰i gas, and metal scaling laws in the local Universe. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3668-3687.	1.6	28
84	Molecular gas mass functions of normal star-forming galaxies sincezÂ~ÂÂ3. Astronomy and Astrophysics, 2013, 555, L8.	2.1	27
85	Radiative transfer meets Bayesian statistics: where does a galaxy's [Câ€‰ii] emission come from?. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3315-3330.	1.6	27
86	THE GAS PHASE MASS METALLICITY RELATION FOR DWARF GALAXIES: DEPENDENCE ON STAR FORMATION RATE AND HI GAS MASS. Astrophysical Journal, 2015, 812, 98.	1.6	25
87	SUPER. Astronomy and Astrophysics, 2021, 646, A96.	2.1	25
88	DISK GALAXY SCALING RELATIONS IN THE SFI++: INTRINSIC SCATTER AND APPLICATIONS. Astrophysical Journal, 2011, 726, 77.	1.6	24
89	SHIELD: NEUTRAL GAS KINEMATICS AND DYNAMICS. Astrophysical Journal, 2016, 832, 89.	1.6	24
90	Cross-calibration of CO- versus dust-based gas masses and assessment of the dynamical mass budget in Herschel-SDSS Stripe82 galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1442-1458.	1.6	23

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91	The Tullyâ€“Fisher relation of COLD GASS Galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3494-3515.	1.6	21
92	UGC8802: A MASSIVE DISK GALAXY IN FORMATION. Astrophysical Journal, 2010, 720, 1126-1135.	1.6	19
93	Herscheldeep far-infrared counts through AbellÂ2218 cluster-lens. Astronomy and Astrophysics, 2010, 518, L17.	2.1	19
94	HIghMassâ€”HIGH H I MASS, H I-RICH GALAXIES ATzâˆ¼ 0 HIGH-RESOLUTION VLA IMAGING OF UGC 9037 AND UGC 12506. Astronomical Journal, 2014, 148, 69.	1.9	19
95	Sensitivity of dark matter haloes to their accretion histories. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1906-1915.	1.6	19
96	THE ARECIBO LEGACY FAST ALFA SURVEY. VIII. H I SOURCE CATALOG OF THE ANTI-VIRGO REGION AT Î´ = +25Â°. Astrophysical Journal, Supplement Series, 2009, 183, 214-224.	3.0	18
97	The cosmic abundance of cold gas in the local Universe. Monthly Notices of the Royal Astronomical Society, 2020, 501, 411-418.	1.6	18
98	HerschelFIR counterparts of selected LyÎ±emitters atz~ 2.2. Astronomy and Astrophysics, 2010, 519, L4.	2.1	16
99	UNVEILING FAR-INFRARED COUNTERPARTS OF BRIGHT SUBMILLIMETER GALAXIES USING PACS IMAGING. Astrophysical Journal Letters, 2010, 720, L144-L148.	3.0	15
100	JINGLE V: Dust properties of nearby galaxies derived from hierarchical Bayesian SED fitting. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	15
101	JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies: II. SCUBA-2 850â€‰Î¼m data reduction and dust flux density catalogues. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4166-4185.	1.6	14
102	EDGE: What shapes the relationship between Hâ€‰<scp>i</scp> and stellar observables in faint dwarf galaxies?. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5672-5681.	1.6	14
103	The Bluedisk survey: molecular gas distribution and scaling relations in the context of galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1724-1739.	1.6	11
104	Geometrical tests of cosmological models. Astronomy and Astrophysics, 2008, 478, 57-69.	2.1	10
105	HIGHMASSâ€”HIGH H iÂMASS, H i-RICH GALAXIES AT ZÂâˆ¼Â0: COMBINED H iÂAND H₂ OBSERVATIONS. Astronomical Journal, 2016, 152, 225.	1.9	10
106	Estimating the Molecular Gas Mass of Low-redshift Galaxies from a Combination of Mid-infrared Luminosity and Optical Properties. Astrophysical Journal, 2019, 887, 172.	1.6	10
107	ALMA observations of CS in NGC 1068: chemistry and excitation. Monthly Notices of the Royal Astronomical Society, 2020, 496, 5308-5329.	1.6	9
108	SPATIAL CORRELATION BETWEEN DUST AND HÎ± EMISSION IN DWARF IRREGULAR GALAXIES*. Astrophysical Journal, 2016, 825, 34.	1.6	6

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109	xCOLD GASS and xGASS: Radial metallicity gradients and global properties on the star-forming main sequence. Astronomy and Astrophysics, 2021, 649, A39.	2.1	6
110	Centrally concentrated molecular gas driving galactic-scale ionized gas outflows in star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3802-3820.	1.6	6
111	Study of the characteristics of silicon MESA radiation detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 460, 146-158.	0.7	5
112	Geometrical tests of cosmological models. Astronomy and Astrophysics, 2008, 478, 43-55.	2.1	5
113	A CENSUS OF MID-INFRARED-SELECTED ACTIVE GALACTIC NUCLEI IN MASSIVE GALAXY CLUSTERS AT 0 â‰²zâ‰² 1.3. Astrophysical Journal, 2011, 738, 65.	1.6	5
114	The HASHTAG Project: The First Submillimeter Images of the Andromeda Galaxy from the Ground. Astrophysical Journal, Supplement Series, 2021, 257, 52.	3.0	5
115	Catalog of Galaxy Morphology in Four Rich Clusters: Luminosity Evolution of Disk Galaxies at 0.33 < z < 0.83. Astrophysical Journal, Supplement Series, 2005, 157, 228-250.	3.0	4
116	Geometrical tests of cosmological models. Astronomy and Astrophysics, 2008, 478, 71-81.	2.1	4
117	DETECTION OF OUTFLOWING AND EXTRAPLANAR GAS IN DISKS IN AN ASSEMBLING GALAXY CLUSTER AT z = 0.37. Astrophysical Journal Letters, 2011, 742, L34.	3.0	3
118	The effect of environment on star forming galaxies at redshift 1 First insight from PACS (Corrigendum). Astronomy and Astrophysics, 2011, 534, C2.	2.1	2
119	THE HOMOGENEOUS PROPERTIES OF HÎ±-SELECTED GALAXIES AT (0.05 <<i>z</i>< 0.15). Astronomical Journal, 2010, 140, 561-576.	1.9	1
120	Galaxy Morphology in the Rich Cluster Abell 2390. Astronomical Journal, 2002, 123, 1826-1837.	1.9	1
121	The Importance of AGN in an Assembling Galaxy Cluster. , 2009, , .		0