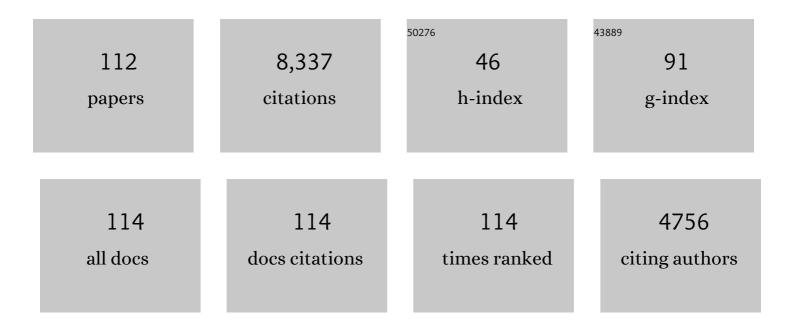
List of Publications by Year in descending order

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CADY FEDLAND

#	Article	IF	CITATIONS
1	Dense Molecular Clouds in the Crab Supernova Remnant. Astrophysical Journal, 2022, 925, 59.	4.5	3
2	The Paschen Jump as a Diagnostic of the Diffuse Nebular Continuum Emission in Active Galactic Nuclei*. Astrophysical Journal, 2022, 927, 60.	4.5	5
3	A Practical Guide to the Partition Function of Atoms and Ions. Publications of the Astronomical Society of the Pacific, 2022, 134, 073001.	3.1	2
4	Improved Fe ii Emission-line Models for AGNs Using New Atomic Data Sets. Astrophysical Journal, 2021, 907, 12.	4.5	21
5	Role of Polycyclic Aromatic Hydrocarbons on the Cosmic-Ray Ionization Rate in the Galaxy. Astrophysical Journal, 2021, 908, 138.	4.5	5
6	Deciphering the 3D Orion Nebula. III. Structure on the NE Boundary of the Orion-S Embedded Molecular Cloud. Astrophysical Journal, 2021, 908, 162.	4.5	1
7	Deciphering the 3D Orion Nebula. II. A Low Ionization Region of Multiple Velocity Components Southwest of Î, <sup>1</sup> OriÂCÂConfounds Interpretation of Low Velocity Resolution Studies of Temperature, Density, and Abundance. Astrophysical Journal, 2021, 907, 119.	4.5	4
8	Deciphering the 3D Orion Nebula-IV: The HH 269 Flow Emerges from the Orion-S Embedded Molecular Cloud. Astrophysical Journal, 2021, 909, 97.	4.5	0
9	X-Ray Spectroscopy in the Microcalorimeter Era. III. Line Formation under Case A, Case B, Case C, and Case D in H- and He-like Iron for a Photoionized Cloud. Astrophysical Journal, 2021, 912, 26.	4.5	10
10	Cloudy in the Microcalorimeter Era: Improved Energies for Si and S Kα Fluorescence Lines. Research Notes of the AAS, 2021, 5, 149.	0.7	1
11	Space Telescope and Optical Reverberation Mapping Project. XIII. An Atlas of UV and X-Ray Spectroscopic Signatures of the Disk Wind in NGC 5548. Astrophysical Journal, 2021, 906, 14.	4.5	5
12	Evidence of a Tidal-disruption Event in GSN 069 from the Abnormal Carbon and Nitrogen Abundance Ratio. Astrophysical Journal Letters, 2021, 920, L25.	8.3	21
13	Hypermassive black holes have faint broad and narrow emission lines. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2992-3010.	4.4	1
14	Newly Improved Ionization Corrections for the Neutral Interstellar Medium: Enabling Accurate Abundance Determinations in Star-forming Galaxies throughout the Universe <sup>*</sup> . Astrophysical Journal, 2020, 892, 19.	4.5	7
15	Space Telescope and Optical Reverberation Mapping Project. XI. Disk-wind Characteristics and Contributions to the Very Broad Emission Lines of NGC 5548. Astrophysical Journal, 2020, 898, 141.	4.5	13
16	X-Ray Spectroscopy in the Microcalorimeter Era. I. Effects of Fe xxiv Resonant Auger Destruction on Fe xxv KαÂSpectra. Astrophysical Journal, 2020, 901, 68.	4.5	11
17	X-Ray Spectroscopy in the Microcalorimeter Era. II. A New Diagnostic on Column Density from the Case A to B Transition in H- and He-like Iron. Astrophysical Journal, 2020, 901, 69.	4.5	9
18	Cosmic Ray Dissociation of Molecular Hydrogen and Dense Cloud Chemistry. Research Notes of the AAS, 2020, 4, 78.	0.7	10

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19	Cloudy in the Microcalorimeter Era: Improved Energies for Kα Transitions. Research Notes of the AAS, 2020, 4, 184.	0.7	4
20	Space Telescope and Optical Reverberation Mapping Project. X. Understanding the Absorption-line Holiday in NGC 5548. Astrophysical Journal, 2019, 877, 119.	4.5	35
21	Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum. Astrophysical Journal, 2019, 881, 153.	4.5	34
22	The Structure of the Orion Nebula in the Direction of Î, <sup>1</sup> Ori C. Astrophysical Journal, 2019, 881, 130.	4.5	18
23	A Wind-based Unification Model for NGC 5548: Spectral Holidays, Nondisk Emission, and Implications for Changing-look Quasars. Astrophysical Journal Letters, 2019, 882, L30.	8.3	33
24	Intermediate-line Emission in AGNs: The Effect of Prescription of the Gas Density. Astrophysical Journal, 2018, 856, 78.	4.5	17
25	Ro-vibrational analysis of SiO in UV-irradiated environments. Molecular Astrophysics, 2018, 13, 6-21.	1.6	2
26	Suppression of Dielectronic Recombination Due to Finite Density Effects. II. Analytical Refinement and Application to Density-dependent Ionization Balances and AGN Broad-line Emission. Astrophysical Journal, Supplement Series, 2018, 237, 41.	7.7	15
27	Emission Line Ratios of FE III as Astrophysical Plasma Diagnostics. Astrophysical Journal, 2017, 841, 3.	4.5	13
28	Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548. Astrophysical Journal, 2017, 837, 131.	4.5	93
29	Swift Monitoring of NGC 4151: Evidence for a Second X-Ray/UV Reprocessing. Astrophysical Journal, 2017, 840, 41.	4.5	98
30	Atomic Data Revisions for Transitions Relevant to Observations of Interstellar, Circumgalactic, and Intergalactic Matter. Astrophysical Journal, Supplement Series, 2017, 230, 8.	7.7	29
31	Which Stars Are Ionizing the Orion Nebula?. Astrophysical Journal, 2017, 837, 151.	4.5	32
32	The Carbon and Nitrogen Abundance Ratio in the Broad Line Region of Tidal Disruption Events. Astrophysical Journal, 2017, 846, 150.	4.5	23
33	The Validity of 21 cm Spin Temperature as a Kinetic Temperature Indicator in Atomic and Molecular Gas. Astrophysical Journal, 2017, 843, 149.	4.5	8
34	THE INTERMEDIATE-LINE REGION IN ACTIVE GALACTIC NUCLEI. Astrophysical Journal, 2016, 831, 68.	4.5	31
35	EVIDENCE FOR FLUORESCENT Fe ii EMISSION FROM EXTENDED LOW IONIZATION OUTFLOWS IN OBSCURED QUASARS. Astrophysical Journal, 2016, 824, 106.	4.5	8
36	SPACE TELESCOPE AND OPTICAL REVERBERATION MAPPING PROJECT. IV. ANOMALOUS BEHAVIOR OF THE BROAD ULTRAVIOLET EMISSION LINES IN NGC 5548. Astrophysical Journal, 2016, 824, 11.	4.5	63

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37	ULTRAVIOLET EMISSION LINES OF Si ii IN QUASARS—INVESTIGATING THE "Si ii DISASTER― Astrophysical Journal, 2016, 825, 28.	4.5	7
38	EVIDENCE FOR PHOTOIONIZATION-DRIVEN BROAD ABSORPTION LINE VARIABILITY. Astrophysical Journal, 2015, 814, 150.	4.5	53
39	STOUT: CLOUDY'S ATOMIC AND MOLECULAR DATABASE. Astrophysical Journal, 2015, 807, 118.	4.5	28
40	ATOMIC DATA AND SPECTRAL MODEL FOR Fe II. Astrophysical Journal, 2015, 808, 174.	4.5	36
41	<i>HERSCHEL</i> DUST EMISSION AS A PROBE OF STARLESS CORES MASS: MCLD 123.5+24.9 OF THE POLARIS FLARE. Astrophysical Journal, 2015, 809, 17.	4.5	7
42	Accurate determination of the free–free Gaunt factor – I. Non-relativistic Gaunt factors. Monthly Notices of the Royal Astronomical Society, 2014, 444, 420-428.	4.4	65
43	A transition mass for black holes to show broad emission lines. Monthly Notices of the Royal Astronomical Society, 2014, 437, 740-747.	4.4	10
44	LONG-TERM SPECTRAL EVOLUTION OF TIDAL DISRUPTION CANDIDATES SELECTED BY STRONG CORONAL LINES. Astrophysical Journal, 2013, 774, 46.	4.5	45
45	Dielectric recombination and stability of warm gas in AGN. , 2012, , .		0
46	ION-BY-ION COOLING EFFICIENCIES. Astrophysical Journal, Supplement Series, 2012, 199, 20.	7.7	81
47	The influence of soft spectral components on the structure and stability of warm absorbers in active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2012, 422, 637-651.	4.4	24
48	The energy source of the filaments around the giant galaxy NGCâ $\in$ f 1275. Monthly Notices of the Royal Astronomical Society, 2011, 417, 172-177.	4.4	96
49	STRUCTURE AND FEEDBACK IN 30 DORADUS. II. STRUCTURE AND CHEMICAL ABUNDANCES. Astrophysical Journal, 2011, 738, 34.	4.5	99
50	DIVISION VI: INTERSTELLAR MATTER. Proceedings of the International Astronomical Union, 2010, 6, 213-214.	0.0	0
51	HIGH-EXCITATION EMISSION LINES NEAR ETA CARINAE, AND ITS LIKELY COMPANION STAR. Astrophysical Journal, 2010, 710, 729-742.	4.5	81
52	IMPLICATIONS OF INFALLING Fe II-EMITTING CLOUDS IN ACTIVE GALACTIC NUCLEI: ANISOTROPIC PROPERTIES. Astrophysical Journal, 2009, 707, L82-L86.	4.5	71
53	ORION'S BAR: PHYSICAL CONDITIONS ACROSS THE DEFINITIVE H <sup>+</sup> /H <sup>0</sup> /H <sub>2</sub> INTERFACE. Astrophysical Journal, 2009, 693, 285-302.	4.5	71
54	Collisional heating as the origin of filament emission in galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2009, 392, 1475-1502.	4.4	138

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55	Properties of warm absorbers in active galaxies: a systematic stability curve analysis. Monthly Notices of the Royal Astronomical Society, 2009, 393, 83-98.	4.4	42
56	Electron-impact excitation of O ii fine-structure levels. Monthly Notices of the Royal Astronomical Society, 2009, 397, 903-912.	4.4	87
57	New Results on Quasar Outflows. Proceedings of the International Astronomical Union, 2009, 5, 399-399.	0.0	0
58	Dielectronic recombination and stability of warm gas in active galactic nuclei. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 384, L24-L28.	3.3	20
59	Magnetic fields and the location of the PDR. EAS Publications Series, 2008, 31, 53-56.	0.3	2
60	Expanding cloudy with third-party databases. EAS Publications Series, 2008, 31, 199-200.	0.3	0
61	HeiEmission in the Orion Nebula and Implications for Primordial Helium Abundance. Astrophysical Journal, 2007, 657, 327-337.	4.5	58
62	A Magnetically Supported Photodissociation Region in M17. Astrophysical Journal, 2007, 658, 1119-1135.	4.5	95
63	Molecular Hydrogen in Starâ€forming Regions: Implementation of its Microphysics in CLOUDY. Astrophysical Journal, 2005, 624, 794-807.	4.5	111
64	Theoretical He i Emissivities in the Case B Approximation. Astrophysical Journal, 2005, 622, L73-L75.	4.5	66
65	Division VI: Interstellar Matter. Proceedings of the International Astronomical Union, 2005, 1, 267-271.	0.0	0
66	The VLT-UVES survey for molecular hydrogen in high-redshift damped Lyman α systems: physical conditions in the neutral gas. Monthly Notices of the Royal Astronomical Society, 2005, 362, 549-568.	4.4	153
67	The H ii Region/PDR Connection: Self onsistent Calculations of Physical Conditions in Starâ€forming Regions. Astrophysical Journal, Supplement Series, 2005, 161, 65-95.	7.7	108
68	Grain size distributions and photoelectric heating in ionized media. Monthly Notices of the Royal Astronomical Society, 2004, 350, 1330-1341.	4.4	91
69	Revisiting the torus: spectral predictions from the IR to the X-ray. Nuclear Physics, Section B, Proceedings Supplements, 2004, 132, 145-148.	0.4	0
70	The Origin of FeiiEmission in Active Galactic Nuclei. Astrophysical Journal, 2004, 615, 610-624.	4.5	119
71	The Effects of Lowâ€Temperature Dielectronic Recombination on the Relative Populations of the Fe Mâ€Shell States. Astrophysical Journal, 2004, 604, 556-561.	4.5	43
72	Physical Conditions in Orion's Veil. Astrophysical Journal, 2004, 609, 247-260.	4.5	44

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73	Observational Consequences of Fine tructure Line Optical Depths on Infrared Spectral Diagnostics. Publications of the Astronomical Society of the Pacific, 2003, 115, 188-192.	3.1	1
74	Quantitative Spectroscopy of Photoionized Clouds. Annual Review of Astronomy and Astrophysics, 2003, 41, 517-554.	24.3	150
75	The Mass of Quasar Broad Emission Line Regions. Astrophysical Journal, 2003, 582, 590-595.	4.5	46
76	Chemical Abundances in Broad Emission Line Regions: The "Nitrogenâ€loud―Quasi‣tellar Object Q0353â^'383. Astrophysical Journal, 2003, 583, 649-658.	4.5	52
77	Metallicities and Abundance Ratios from Quasar Broad Emission Lines. Astrophysical Journal, 2002, 564, 592-603.	4.5	146
78	Dissipative Heating and Quasar Emission Lines. Astrophysical Journal, 2002, 568, 581-591.	4.5	11
79	Physical Conditions in the Orion HiiRegion. Publications of the Astronomical Society of the Pacific, 2001, 113, 41-48.	3.1	52
80	Spectroscopic Challenges of Photoionized Plasmas. Publications of the Astronomical Society of the Pacific, 2001, 113, 1024-1024.	3.1	20
81	Fractal Quasar Clouds. Astrophysical Journal, 2001, 549, 118-132.	4.5	20
82	Observational Constraints on the Internal Velocity Field of Quasar Emissionâ€Line Clouds. Astrophysical Journal, 2000, 542, 644-654.	4.5	33
83	Numerical Simulations of Fe ii Emission Spectra. Astrophysical Journal, Supplement Series, 1999, 120, 101-112.	7.7	124
84	Elemental Abundances in Quasistellar Objects: Star Formation and Galactic Nuclear Evolution at High Redshifts. Annual Review of Astronomy and Astrophysics, 1999, 37, 487-531.	24.3	331
85	The PG X-Ray QSO Sample: Links between the Ultraviolet–X-Ray Continuum and Emission Lines. Astrophysical Journal, 1999, 515, L53-L56.	4.5	86
86	CLOUDY 90: Numerical Simulation of Plasmas and Their Spectra. Publications of the Astronomical Society of the Pacific, 1998, 110, 761-778.	3.1	1,979
87	Quasars as Cosmological Probes: The Ionizing Continuum, Gas Metallicity, and theWî»â€LRelation. Astrophysical Journal, 1998, 507, 24-30.	4.5	71
88	The Ultravioletâ€Optical Albedo of Broad Emission Line Clouds. Astrophysical Journal, 1998, 495, 672-679.	4.5	16
89	An Atlas of Computed Equivalent Widths of Quasar Broad Emission Lines. Astrophysical Journal, Supplement Series, 1997, 108, 401-415.	7.7	187
90	Do the Broad Emission Line Clouds See the Same Continuum That We See?. Astrophysical Journal, 1997, 487, 555-559.	4.5	64

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91	Physical Conditions of the Coronal Line Region in Seyfert Galaxies. Astrophysical Journal, Supplement Series, 1997, 110, 287-297.	7.7	68
92	Atomic Data for Permitted Resonance Lines of Atoms and lons from H to Si, and S, Ar, Ca, and Fe. Atomic Data and Nuclear Data Tables, 1996, 64, 1-180.	2.4	291
93	The Chemical Enrichment of Gas in Broad Absorption Line QSOs: Rapid Star Formation in the Early History of Galaxies. Astrophysical Journal, 1996, 461, 641.	4.5	29
94	Very High Density Clumps and Outflowing Winds in QSO Broad-Line Regions. Astrophysical Journal, 1996, 461, 664.	4.5	72
95	Rate Coefficients for Charge Transfer between Hydrogen and the First 30 Elements. Astrophysical Journal, Supplement Series, 1996, 106, 205.	7.7	143
96	Locally Optimally Emitting Clouds and the Origin of Quasar Emission Lines. Astrophysical Journal, 1995, 455, .	4.5	261
97	Optically thin broad-line clouds in active galactic nuclei. Astrophysical Journal, 1995, 441, 507.	4.5	74
98	Hubble Space Telescope Sample of Radio-loud Quasars: Ultraviolet Spectra of the First 31 Quasars. Astrophysical Journal, 1995, 447, 139.	4.5	169
99	The Hubble Space Telescope Sample of Radio-loud Quasars: The LY alpha /H beta Ratio. Astrophysical Journal, 1995, 448, 27.	4.5	59
100	Temperature Fluctuations in Photoionized Nebulae. Astrophysical Journal, 1995, 450, 691.	4.5	42
101	The Chemical Evolution of QSOs. , 1994, , 227-230.		0
102	High Metallicities in QSOs. , 1994, , 220-226.		0
103	The physical conditions within dense cold clouds in cooling flows. Monthly Notices of the Royal Astronomical Society, 1994, 266, 399-411.	4.4	52
104	The narrow-line region of high-luminosity active galactic nuclei. Astrophysical Journal, 1993, 410, 534.	4.5	45
105	The Chemical Evolution of QSOs and the Implications for Cosmology and Galaxy Formation. Astrophysical Journal, 1993, 418, 11.	4.5	293
106	Anisotropic line emission and the geometry of the broad-line region in active galactic nuclei. Astrophysical Journal, 1992, 387, 95.	4.5	200
107	A multiwavelength study of Nova QU Vulpeculae 1984. Astrophysical Journal, 1992, 398, 651.	4.5	50
108	The age and chemical evolution of high-redshift QSOs. Astrophysical Journal, 1992, 391, L53.	4.5	109

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109	Physical conditions in the Orion Nebula and an assessment of its helium abundance. Astrophysical Journal, 1991, 374, 580.	4.5	282
110	Spectra of Symbiotic Stars. International Astronomical Union Colloquium, 1983, 72, 35-40.	0.1	0
111	Discovery of atomic and molecular mid-infrared emission lines in off-nuclear regions of NGC 1275 and NGC 4696 with the Spitzer Space Telescope. Monthly Notices of the Royal Astronomical Society, 0, 382, 1246-1260.	4.4	68
112	Self-consistent grain depletions and abundances I: The Orion Nebula as a test case. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2