P R T Coelho

List of Publications by Year
in descending order

84 papers	5,468 citations	201674 27 h-index	79698 73 g-index
86 all docs	86 docs citations	86 times ranked	9848 citing authors

#	Article	IF	Citations
1	Multi-messenger Observations of a Binary Neutron Star Merger[*]. Astrophysical Journal Letters, 2017, 848, L12.	8.3	2,805
2	A library of high resolution synthetic stellar spectra from 300 nm to 1.8 ${\rm \mu}$m with solar and α-enhanced composition. Astronomy and Astrophysics, 2005, 443, 735-746.	5.1	305
3	Evolutionary stellar population synthesis with MILES – II. Scaled-solar and α-enhanced models. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1177-1214.	4.4	244
4	Spectral models for solar-scaled and α-enhanced stellar populations. Monthly Notices of the Royal Astronomical Society, 2007, 382, 498-514.	4.4	141
5	A new library of theoretical stellar spectra with scaled-solar and α-enhanced mixtures. Monthly Notices of the Royal Astronomical Society, 2014, 440, 1027-1043.	4.4	126
6	J-PLUS: The Javalambre Photometric Local Universe Survey. Astronomy and Astrophysics, 2019, 622, A176.	5.1	124
7	Observations of the First Electromagnetic Counterpart to a Gravitational-wave Source by the TOROS Collaboration. Astrophysical Journal Letters, 2017, 848, L29.	8.3	96
8	The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies, and redshifts with 12 optical filters. Monthly Notices of the Royal Astronomical Society, 2019, 489, 241-267.	4.4	92
9	BARS REJUVENATING BULGES? EVIDENCE FROM STELLAR POPULATION ANALYSIS. Astrophysical Journal Letters, 2011, 743, L13.	8.3	80
10	Time Inference with MUSE in Extragalactic Rings (TIMER): properties of the survey and high-level data products. Monthly Notices of the Royal Astronomical Society, 2019, 482, 506-529.	4.4	72
11	High precision differential abundance measurements in globular clusters: chemical inhomogeneities in NGC 6752 ̃…. Monthly Notices of the Royal Astronomical Society, 2013, 434, 3542-3565.	4.4	70
12	A grid of synthetic spectra and indices Fe5270, Fe5335, Mgb and Mg_2 as a function of stellar parameters and [alpha/Fe]. Astronomy and Astrophysics, 2003, 404, 661-668.	5.1	63
13	STELLAR POPULATION MODELS AND INDIVIDUAL ELEMENT ABUNDANCES. II. STELLAR SPECTRA AND INTEGRATED LIGHT MODELS. Astrophysical Journal, 2009, 694, 902-923.	4.5	63
14	Differential stellar population models: how to reliably measure [Fe/H] and [α/Fe] in galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 398, L44-L48.	3.3	61
15	Testing the accuracy of synthetic stellar libraries. Monthly Notices of the Royal Astronomical Society, 2007, 381, 1329-1346.	4.4	55
16	The X-shooter Spectral Library (XSL): Data release 2. Astronomy and Astrophysics, 2020, 634, A133.	5.1	55
17	The miniJPAS survey: A preview of the Universe in 56 colors. Astronomy and Astrophysics, 2021, 653, A31.	5.1	54
18	MUSE tells the story of NGC 4371: The dawning of secular evolution. Astronomy and Astrophysics, 2015, 584, A90.	5.1	48

#	Article	IF	Citations
19	Inside-out formation of nuclear discs and the absence of old central spheroids in barred galaxies of the TIMER survey. Astronomy and Astrophysics, 2020, 643, A65.	5.1	44
20	Abundance patterns in early-type galaxies: is there a "knee" in the [Fe/H] vs. [α/Fe] relation?. Astronomy and Astrophysics, 2015, 582, A46.	5.1	42
21	An analysis of the composite stellar population in M32$^{\sim}$. Monthly Notices of the Royal Astronomical Society, 2009, 396, 624-634.	4.4	38
22	J-PLUS: Identification of low-metallicity stars with artificial neural networks using SPHINX. Astronomy and Astrophysics, 2019, 622, A182.	5.1	38
23	J-PLUS: photometric calibration of large-area multi-filter surveys with stellar and white dwarf loci. Astronomy and Astrophysics, 2019, 631, A119.	5.1	36
24	Ages, Metallicities, and α-Element Enhancement for Galaxies in Hickson Compact Groups. Astronomical Journal, 2005, 130, 55-64.	4.7	35
25	J-PLUS: Analysis of the intracluster light in the Coma cluster. Astronomy and Astrophysics, 2019, 622, A183.	5.1	31
26	One Hundred SMUDGes in S-PLUS: Ultra-diffuse Galaxies Flourish in the Field. Astrophysical Journal, Supplement Series, 2020, 247, 46.	7.7	31
27	Age and metallicity of star clusters in the Small Magellanic Cloud from integrated spectroscopy. Astronomy and Astrophysics, 2010, 520, A85.	5.1	30
28	J-PLUS: Morphological star/galaxy classification by PDF analysis. Astronomy and Astrophysics, 2019, 622, A177.	5.1	28
29	$uvby$ – β photometry of solar twins. Astronomy and Astrophysics, 2010, 522, A98.	5.1	26
30	To use or not to use synthetic stellar spectra in population synthesis models?. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2025-2042.	4.4	26
31	Full spectral fitting of Milky Way and M≈31 globular clusters: ages and metallicities. Astronomy and Astrophysics, 2013, 549, A60.	5.1	25
32	Clocking the formation of today's largest galaxies: wide field integral spectroscopy of brightest cluster galaxies and their surroundings. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2617-2638.	4.4	24
33	The miniJPAS survey. Astronomy and Astrophysics, 2021, 649, A79.	5.1	22
34	Membership of 23 stars towards the bulge globular clusters NGC 6528 and NGC 6553. Astronomy and Astrophysics, 2001, 376, 136-143.	5.1	22
35	Clocking the assembly of double-barred galaxies with the MUSE TIMER project. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5296-5314.	4.4	21
36	J-PLUS: On the identification of new cluster members in the double galaxy cluster A2589 and A2593 using PDFs. Astronomy and Astrophysics, 2019, 622, A178.	5.1	20

#	Article	IF	Citations
37	Central enhancement of the nitrogen-to-oxygen abundance ratio in barred galaxies. Astronomy and Astrophysics, 2015, 584, A88.	5.1	19
38	A Grid of Synthetic Spectra for Hot DA White Dwarfs and Its Application in Stellar Population Synthesis. Astrophysical Journal, Supplement Series, 2017, 231, 1.	7.7	18
39	J-PLUS: A wide-field multi-band study of the M 15 globular cluster. Astronomy and Astrophysics, 2019, 622, A179.	5.1	18
40	Is the cluster environment quenching the Seyfert activity in elliptical and spiral galaxies?. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2115-2125.	4.4	17
41	J-PLUS: Measuring Hα emission line fluxes in the nearby universe. Astronomy and Astrophysics, 2019, 622, A180.	5.1	17
42	J-PLUS: Two-dimensional analysis of the stellar population in NGC 5473 and NGC 5485. Astronomy and Astrophysics, 2019, 622, A181.	5.1	17
43	The X-shooter Spectral Library (XSL): Data Release 3. Astronomy and Astrophysics, 2022, 660, A34.	5.1	17
44	Data Release 2 of S-PLUS: Accurate template-fitting based photometry covering âˆ¼1000â€‰deg2 in 12 optical filters. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4590-4618.	4.4	16
45	Survival of molecular gas in a stellar feedback-driven outflow witnessed with the MUSE TIMER project and ALMA. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3904-3928.	4.4	15
46	Clues on the history of early-type galaxies from SDSS spectra and GALEX photometry. Monthly Notices of the Royal Astronomical Society, 2020, 497, 3251-3263.	4.4	15
47	Spatial field reconstruction with INLA: application to IFU galaxy data. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3880-3891.	4.4	14
48	Self-similarity in the chemical evolution of galaxies and the delay-time distribution of SNe Ia. Astronomy and Astrophysics, 2016, 594, A61.	5.1	13
49	Modelling simple stellar populations in the near-ultraviolet to near-infrared with the X-shooter Spectral Library (XSL). Astronomy and Astrophysics, 2022, 661, A50.	5.1	13
50	Assessing the photometric redshift precision of the S-PLUS survey: the Stripe-82 as a test-case. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3884-3908.	4.4	12
51	CHEMICAL ABUNDANCE ANTICORRELATIONS IN GLOBULAR CLUSTER STARS: THE EFFECT ON CLUSTER INTEGRATED SPECTRA. Astrophysical Journal, 2011, 734, 72.	4.5	11
52	Testing stellar population fitting ingredients with Globular Clusters I: Stellar libraries. Monthly Notices of the Royal Astronomical Society, 2019, 484, 2388-2402.	4.4	11
53	HR-pypopstar: high-wavelength-resolution stellar populations evolutionary synthesis model. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4781-4799.	4.4	10
54	Black Mirror: The impact of rotational broadening on the search for reflected light from 51 Pegasi b with high resolution spectroscopy. Astronomy and Astrophysics, 2022, 659, A121.	5.1	10

#	Article	IF	Citations
55	alicce: Atomic Lines Calibration using the Cross-Entropy Algorithm. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1294-1302.	4.4	9
56	Surface brightness fluctuation spectrum: a new probe of evolved stars in unresolved stellar populations. Monthly Notices of the Royal Astronomical Society, 2018, 480, 629-651.	4.4	8
57	Stellar spectral models compared with empirical data. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1814-1832.	4.4	8
58	How well can we determine ages and chemical abundances from spectral fitting of integrated light spectra?. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2327-2339.	4.4	8
59	Galaxies within galaxies in the TIMER survey: stellar populations of inner bars are scaled replicas of main bars. Astronomy and Astrophysics, 2021, 646, A42.	5.1	8
60	A comparison between X-shooter spectra and PHOENIX models across the HR-diagram. Astronomy and Astrophysics, 2021, 649, A97.	5.1	8
61	UV bright red-sequence galaxies: how do UV upturn systems evolve in redshift and stellar mass?. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2996-3011.	4.4	7
62	Spatially Resolved Analysis of Neutral Winds, Stars, and Ionized Gas Kinematics with MEGARA/GTC: New Insights on the Nearby Galaxy UGC 10205. Astrophysical Journal, 2020, 890, 5.	4.5	6
63	J-PLUS: Impact of bars on quenching timescales in nearby green valley disc galaxies. Astronomy and Astrophysics, 2019, 630, A88.	5.1	5
64	The GALANTE photometric survey of the northern Galactic plane: project description and pipeline. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3138-3154.	4.4	5
65	The kinematics of young and old stellar populations in nuclear rings of MUSE TIMER galaxies. Astronomy and Astrophysics, 2020, 644, A116.	5.1	5
66	The DIVING3D survey â€" Deep Integral Field Spectrograph View of Nuclei of Galaxies â€" I. Definition and sample presentation. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5780-5795.	4.4	5
67	S-PLUS: exploring wide field properties of multiple populations in galactic globular clusters at different metallicities. Monthly Notices of the Royal Astronomical Society, 2022, 515, 4191-4200.	4.4	5
68	Spectral libraries and their uncertainties. , 2009, , .		4
69	High-resolution Spectral Line Indices Useful for the Analysis of Stellar Populations. Astrophysical Journal Letters, 2020, 889, L31.	8.3	4
70	UV upturn versus UV weak galaxies: differences and similarities of their stellar populations unveiled by a de-biased sample. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1870-1883.	4.4	4
71	A new approach to derive [Î±/Fe] for integrated stellar populations. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	2
72	Theories of convection and the spectrum of turbulence in the solar photosphere. Proceedings of the International Astronomical Union, 2006, 2, 58-63.	0.0	2

#	Article	IF	Citations
73	Grids of synthetic stellar spectra. Canadian Journal of Physics, 2017, 95, 840-842.	1.1	2
74	A study on missing lines in the synthetic solar spectrum near the Ca triplet. Astronomy and Astrophysics, 2017, 600, A58.	5.1	2
75	Rejuvenation of bulges by bars: evidence from stellar population analysis. Proceedings of the International Astronomical Union, 2012, 10, 339-339.	0.0	1
76	A Grid of Synthetic Spectra for Subdwarfs: Non-LTE Line-blanketed Atmosphere Models. Astrophysical Journal, Supplement Series, 2021, 256, 41.	7.7	1
77	Spectra of bulge stars with known abundance ratios for population synthesis. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
78	High resolution spectral models for solar scaled and Î±-enhanced compositions. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
79	A High Resolution Î±-enhanced stellar Library for Evolutionary Population Synthesis. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
80	An analysis of the composite stellar population in M32. Proceedings of the International Astronomical Union, 2009, 5, 143-146.	0.0	0
81	Age and metallicity of star clusters in the Small Magellanic Cloud from integrated spectroscopy. Proceedings of the International Astronomical Union, 2009, 5, 329-330.	0.0	0
82	Spectral fitting of SDSS passive galaxies with Î±-enhanced single stellar populations. Proceedings of the International Astronomical Union, 2011, 7, 66-68.	0.0	0
83	The Mixture of Stellar Populations in M 32. EAS Publications Series, 2011, 48, 269-270.	0.3	0
84	Bar effects on ionized gas properties and dust content in galaxy centers. Proceedings of the International Astronomical Union, 2014, 10, 356-356.	0.0	0