

Cesare Cecchi-Pestellini

List of Publications by Year in descending order

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101
papers

1,628
citations

304701

22
h-index

377849

34
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101
all docs

101
docs citations

101
times ranked

1418
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme-ultraviolet- and X-Ray-driven Photochemistry of Gaseous Exoplanets. Planetary Science Journal, 2022, 3, 1.	3.6	8
2	The GAPS Programme at TNG. Astronomy and Astrophysics, 2022, 658, A136.	5.1	20
3	X-Ray-induced Diffusion and Mixing in Layered Astrophysical Ices. Astrophysical Journal, 2022, 926, 176.	4.5	5
4	Planet interactions at a young age. Astronomische Nachrichten, 2022, 343, .	1.2	1
5	Organics on the Rocks: A Cosmic Origin for the Seeds of Life. Springer Proceedings in Physics, 2021, , 27-34.	0.2	0
6	Optical tweezers in a dusty universe. European Physical Journal Plus, 2021, 136, 1.	2.6	5
7	Atomistic simulations of the free-energy landscapes of interstellar chemical reactions: the case of methyl isocyanate. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1565-1570.	4.4	6
8	A systematic study of CO ₂ planetary atmospheres and their link to the stellar environment. Monthly Notices of the Royal Astronomical Society, 2020, 496, 5350-5359.	4.4	2
9	Effects of 150-1000 eV Electron Impacts on Pure Carbon Monoxide Ices Using the Interstellar Energetic-Process System (IEPS). Astrophysical Journal, 2020, 889, 57.	4.5	11
10	X-ray processing of a realistic ice mantle can explain the gas abundances in protoplanetary disks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16149-16153.	7.1	16
11	X-ray versus Ultraviolet Irradiation of Astrophysical Ice Analogs Leading to Formation of Complex Organic Molecules. ACS Earth and Space Chemistry, 2019, 3, 2138-2157.	2.7	19
12	Synthesis of Complex Organic Molecules in Soft X-Ray Irradiated Ices. Astrophysical Journal, 2019, 879, 21.	4.5	24
13	Photo-evaporation of close-in gas giants orbiting around G and M stars. Astronomy and Astrophysics, 2019, 624, A101.	5.1	16
14	Åntgen spheres around active stars. Monthly Notices of the Royal Astronomical Society, 2018, 473, 447-456.	4.4	9
15	X-Ray Photo-desorption of H ₂ O:CO:NH ₃ Circumstellar Ice Analogs: Gas-phase Enrichment. Astrophysical Journal, 2018, 868, 73.	4.5	15
16	Dust Motions in Magnetized Turbulence: Source of Chemical Complexity. Astrophysical Journal Letters, 2018, 866, L23.	8.3	17
17	Chemical Evolution of Interstellar Methanol Ice Analogs upon Ultraviolet Irradiation: The Role of the Substrate. Astrophysical Journal, 2018, 858, 35.	4.5	14
18	X-RAY IRRADIATION OF H ₂ O + CO ICE MIXTURES WITH SYNCHROTRON LIGHT. Astrophysical Journal, 2016, 820, 25.	4.5	24

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19	SOFT X-RAY IRRADIATION OF SILICATES: IMPLICATIONS FOR DUST EVOLUTION IN PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2016, 828, 29.	4.5	9
20	MODELING EXTRAGALACTIC EXTINCTION THROUGH GAMMA-RAY BURST AFTERGLOWS. <i>Astrophysical Journal</i> , 2016, 829, 22.	4.5	0
21	CHEMICAL EVOLUTION OF A CO ICE INDUCED BY SOFT X-RAYS. <i>Astrophysical Journal</i> , 2016, 819, 38.	4.5	17
22	MODELING DUST IN THE MAGELLANIC CLOUDS. <i>Astrophysical Journal</i> , 2015, 810, 70.	4.5	2
23	Redshifted diffuse interstellar bands in the Orion OB1 association. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3210-3218.	4.4	7
24	EXTRAGALACTIC INTERSTELLAR EXTINCTION CURVES: INDICATORS OF LOCAL PHYSICAL CONDITIONS. <i>Astrophysical Journal</i> , 2014, 788, 100.	4.5	4
25	Preparing EChO space mission: laboratory simulation of planetary atmospheres. , 2014, , .		0
26	OBSERVATIONAL EVIDENCE OF DUST EVOLUTION IN GALACTIC EXTINCTION CURVES. <i>Astrophysical Journal</i> , 2014, 785, 41.	4.5	9
27	The formation of glycine and other complex organic molecules in exploding ice mantles. <i>Faraday Discussions</i> , 2014, 168, 369-388.	3.2	10
28	MODELING GALACTIC EXTINCTION WITH DUST AND "REAL" POLYCYCLIC AROMATIC HYDROCARBONS. <i>Astrophysical Journal</i> , Supplement Series, 2013, 207, 7.	7.7	28
29	Episodic explosions in interstellar ices. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 264-273.	4.4	35
30	SOFT X-RAY IRRADIATION OF METHANOL ICE: FORMATION OF PRODUCTS AS A FUNCTION OF PHOTON ENERGY. <i>Astrophysical Journal</i> , 2013, 778, 162.	4.5	51
31	A radical route to interstellar propylene formation. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 436, L59-L63.	3.3	19
32	Modeling Galactic Extinction with dust and "real" PAHs. <i>Journal of Physics: Conference Series</i> , 2013, 470, 012009.	0.4	0
33	SOFT X-RAY IRRADIATION OF H ₂ S ICE AND THE PRESENCE OF S ₂ IN COMETS. <i>Astrophysical Journal Letters</i> , 2012, 751, L40.	8.3	33
34	HOT HYDROGEN IN DIFFUSE CLOUDS. <i>Astrophysical Journal</i> , 2012, 755, 119.	4.5	8
35	The nature of interstellar dust as revealed by light scattering. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2310-2320.	2.3	7
36	EXCITATION OF C ₂ IN DIFFUSE INTERSTELLAR CLOUDS. <i>Astrophysical Journal</i> , 2012, 749, 48.	4.5	11

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37	SOFT X-RAY IRRADIATION OF PURE CARBON MONOXIDE INTERSTELLAR ICE ANALOGUES. <i>Astrophysical Journal Letters</i> , 2012, 746, L1.	8.3	23
38	Stratified dust grains in the interstellar medium. III. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1898-1906.	2.3	4
39	THE CHEMICAL AGE OF THE BOK GLOBULE CB238. <i>Astronomical Journal</i> , 2011, 142, 70.	4.7	0
40	Polycyclic Aromatic Hydrocarbons and the Extinction Curve. <i>EAS Publications Series</i> , 2011, 46, 327-340.	0.3	2
41	The young hard active Sun: soft X-ray irradiation of tryptophan in water solutions. <i>International Journal of Astrobiology</i> , 2011, 10, 67-75.	1.6	1
42	FORMATION PUMPING OF MOLECULAR HYDROGEN IN DARK CLOUDS. <i>Astrophysical Journal</i> , 2010, 725, 1111-1123.	4.5	18
43	SOFT X-RAY IRRADIATION OF METHANOL ICE: IMPLICATION FOR H ₂ CO FORMATION IN INTERSTELLAR REGIONS. <i>Astrophysical Journal Letters</i> , 2010, 722, L45-L48.	8.3	18
44	Radiative transfer modelling in protoplanetary disks with the P _N Approximation and Monte Carlo techniques. <i>Mathematical Methods in the Applied Sciences</i> , 2010, 33, 1263-1273.	2.3	0
45	Modelling peculiar extinction curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	5
46	Large prebiotic molecules in space: photophysics of acetic acid and its isomers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1667-1674.	4.4	14
47	A new Bok globule towards Cygnus OB2 No. 12. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1255-1258.	4.4	3
48	CHEMISTRY IN EVAPORATING ICES—UNEXPLORED TERRITORY. <i>Astrophysical Journal</i> , 2010, 725, 1581-1586.	4.5	10
49	ULTRAVIOLET RADIATION INSIDE INTERSTELLAR GRAIN AGGREGATES. III. FLUFFY GRAINS. <i>Astrophysical Journal</i> , 2009, 701, 1426-1435.	4.5	5
50	CHEMISTRY IN DIFFUSE CLOUDS WITH TRANSIENT MICROSTRUCTURE. <i>Astrophysical Journal</i> , 2009, 706, 1429-1432.	4.5	9
51	The relative role of EUV radiation and X-rays in the heating of hydrogen-rich exoplanet atmospheres. <i>Astronomy and Astrophysics</i> , 2009, 496, 863-868.	5.1	46
52	Mass loss from “Hot Jupiters” Implications for CoRoT discoveries, Part II: Long time thermal atmospheric evaporation modeling. <i>Planetary and Space Science</i> , 2008, 56, 1260-1272.	1.7	80
53	The role of the charge state of PAHs in ultraviolet extinction. <i>Astronomy and Astrophysics</i> , 2008, 486, L25-L29.	5.1	54
54	Dehydrogenated polycyclic aromatic hydrocarbons and UV bump. <i>Astronomy and Astrophysics</i> , 2008, 489, 1183-1187.	5.1	44

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55	MARC: A code for the retrieval of atmospheric parameters from millimeter-wave limb measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 105, 476-491.	2.3	33
56	Retrieval of minor constituents in a cloudy atmosphere with remote-sensing millimetre-wave measurements. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 163-170.	2.7	9
57	Detection of CS emission towards Cygnus OB2 No. 12. <i>Astronomy and Astrophysics</i> , 2007, 466, 243-246.	5.1	6
58	Light within small particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2006, 100, 157-164.	2.3	2
59	Stellar X-ray heating of planet atmospheres. <i>Astronomy and Astrophysics</i> , 2006, 458, L13-L16.	5.1	35
60	Ultraviolet Radiation inside Interstellar Grain Aggregates. I. The Density of Radiation. <i>Astrophysical Journal</i> , 2005, 624, 223-231.	4.5	10
61	Aggregation of interstellar dust grains: effects on optical properties and dynamical behaviour. <i>Journal of Physics: Conference Series</i> , 2005, 6, 149-154.	0.4	2
62	Ultraviolet Radiation inside Interstellar Grain Aggregates. II. Field Depolarization. <i>Astrophysical Journal</i> , 2005, 633, 953-966.	4.5	6
63	Retrieving physical conditions from interstellar H ₂ emission lines: a non linear fitting technique. <i>Journal of Physics: Conference Series</i> , 2005, 6, 191-196.	0.4	3
64	On the polarization and depolarization of the electromagnetic waves. <i>Journal of Physics: Conference Series</i> , 2005, 6, 59-72.	0.4	4
65	The diffuse clouds towards Cyg OB2 No. 5 and No. 12. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 73-78.	4.4	10
66	H ₂ excitation in turbulent interstellar clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 364, 1309-1314.	4.4	13
67	Role of clays in protecting adsorbed DNA against X-ray radiation. <i>International Journal of Astrobiology</i> , 2004, 3, 31-35.	1.6	22
68	On the formation and survival of complex prebiotic molecules in interstellar grain aggregates. <i>International Journal of Astrobiology</i> , 2004, 3, 287-293.	1.6	10
69	Optical properties of interstellar grain aggregates. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004, 89, 43-51.	2.3	6
70	Optical Properties of Composite Interstellar Grains: A Morphological Analysis. <i>Astrophysical Journal</i> , 2004, 615, 286-299.	4.5	32
71	The Structure of the Small Dark Cloud CB 107. <i>Astrophysical Journal</i> , 2004, 616, 319-330.	4.5	7
72	Hydrated sulphuric acid in dense molecular clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 341, 657-661.	4.4	23

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73	Radiation pressure cross-sections of fluffy interstellar grains. Monthly Notices of the Royal Astronomical Society, 2003, 341, 1239-1245.	4.4	28
74	The far-ultraviolet signature of the $\tilde{\tau}$ baryons in the Local Group of galaxies. Nature, 2003, 421, 719-721.	27.8	82
75	Rotational and Vibrational Excitation of CO Molecules by Collisions with ^4He Atoms. Astrophysical Journal, 2002, 571, 1015-1020.	4.5	47
76	C^2 absorption-line diagnostics of diffuse interstellar clouds. Monthly Notices of the Royal Astronomical Society, 2002, 331, L31-L34.	4.4	23
77	The discovery of clumpy structure in the diffuse gas towards Cyg OB2 No. 12. Monthly Notices of the Royal Astronomical Society, 2002, 337, 495-498.	4.4	13
78	Porous interstellar grains. Monthly Notices of the Royal Astronomical Society, 2001, 322, 749-756.	4.4	23
79	Dust-induced chemical differentiation in dense regions. Monthly Notices of the Royal Astronomical Society, 2001, 325, 826-834.	4.4	5
80	A kinetic model for dust coagulation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 70, 1-9.	2.3	2
81	Radiative transfer in a stochastic universe. New Astronomy, 2001, 6, 165-172.	1.8	2
82	Radiative transfer in a stochastic universe. New Astronomy, 2001, 6, 151-163.	1.8	9
83	Modelling the CO emission in southern Bok globules. Monthly Notices of the Royal Astronomical Society, 2001, 326, 1255-1260.	4.4	6
84	Beyond Mie Theory: The Transition Matrix Approach in Interstellar Dust Modeling. Astrophysical Journal, 2001, 559, 993-1004.	4.5	37
85	Dust Extinction in a Small Molecular Cloud. Astrophysical Journal, 2001, 558, 717-729.	4.5	16
86	H_2 O^+ H_2 O Collision Rate Coefficients. Astrophysical Journal, Supplement Series, 2000, 128, 597-601.	7.7	23
87	$\text{H}3^+$ in diffuse interstellar gas. Monthly Notices of the Royal Astronomical Society, 2000, 313, L6-L8.	4.4	30
88	Detection of HCO^+ towards Cygnus OB2 No. 12. Monthly Notices of the Royal Astronomical Society, 2000, 317, L6-L10.	4.4	16
89	Mathematical methods for photon transport in random media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 835-851.	2.3	3
90	Radiative transfer in the stochastic interstellar medium. Transport Theory and Statistical Physics, 1999, 28, 199-228.	0.4	4

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91	Evolving interstellar extinction. Monthly Notices of the Royal Astronomical Society, 1998, 296, 414-418.	4.4	17
92	Millimeter-Wave Observations of Molecular Lines toward Bok Globules and Herbig Ae/Be Stars. Astrophysical Journal, 1998, 504, 866-873.	4.5	11
93	The regulatory role of R _v in the photochemistry of dark clouds. Planetary and Space Science, 1995, 43, 1319-1323.	1.7	2
94	Mapping UV radiation in dark clouds. Monthly Notices of the Royal Astronomical Society, 1995, 274, 134-146.	4.4	11
95	R V-dependent Interstellar Photodestruction Rates. Astrophysical Journal, Supplement Series, 1995, 100, 187.	7.7	11
96	Emission of HeH(+) in nebulae. Astrophysical Journal, 1993, 413, 611.	4.5	35
97	Cosmic ray induced photons in dense interstellar clouds. Monthly Notices of the Royal Astronomical Society, 1992, 258, 125-133.	4.4	85
98	A solution to the problem of radiation transfer in inhomogeneous media using the SHM. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 47, 95-102.	2.3	3
99	Chemistry in Space. Il Nuovo Cimento Della Società Italiana Di Fisica C, 1992, 15, 1047-1069.	0.2	0
100	Stratified dust grains in the interstellar medium - I. An accurate computational method for calculating their optical properties. Monthly Notices of the Royal Astronomical Society, 0, 384, 591-598.	4.4	27
101	Stratified dust grains in the interstellar medium - II. Time-dependent interstellar extinction. Monthly Notices of the Royal Astronomical Society, 0, 408, 535-541.	4.4	26