

SIMONE BIANCHI

Curriculum vitae

Personal details

Date of birth: October 4, 1969 **Address:** INAF/Osservatorio Astrofisico di Arcetri, Largo Enrico Fermi 5, 50125 Firenze, Italia.
Place of birth: Firenze (Italy)
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Career & Education

- 1/2023** Associate Researcher at the Osservatorio Astrofisico di Arcetri of the Istituto Nazionale di Astrofisica (INAF).
- 12/2001** Researcher at INAF/Osservatorio Astrofisico di Arcetri; formerly (till 2008) the Istituto di Radioastronomia - Section of Firenze (IRA-Fi) of INAF; formerly (till 2005), IRA-Fi of the Italian National Research Council (CNR); formerly (till 2001), Centro per l'Astronomia Infrarossa e lo Studio del Mezzo Interstellare (CAISMI) of CNR.
- 9/2000** Postdoctoral position in the Research Training Network of the European Commission: *The Physics of the Intergalactic Medium*. European Southern Observatory & Max-Planck-Institut für Astrophysik, Garching bei München, Germany. Held till 3/2002.
- 11/1999** Postdoctoral position in the *ISO post-operation phase* project. Max-Planck-Institut für Astronomie, Heidelberg, Germany. Held till 6/2000.
- 11/1999** *PhD in Astronomy*, Cardiff University, UK;
thesis: Modelling the far-infrared emission from spiral galaxies;
supervisor: Dr J. I. Davies; **examiners:** Dr A. Whitworth; Dr R. Ivison.
- 3/1995** *Laurea in Fisica* (Degree in Physics), Università degli Studi di Firenze, Italy;
thesis: Estinzione e polarizzazione nelle galassie a spirale (Extinction and polarisation in spiral galaxies);
supervisor: Dr C. Giovanardi; **grade:** full mark (110/110 *cum laude*).

Service

SOC & LOC member at the Conference *Illuminating the Dusty Universe: A Tribute to the Work of Bruce Draine*, 10–11/2023, Arcetri, Italy.

SOC member at the workshop *The Passage of Light within Spiral Galaxies* 5/2014, Lorentz center, Leiden, The Netherlands;

SOC & LOC member at the conference *HI Survival through Cosmic Times*, 6/2007, Abbazia di Spineto, Italy.

SOC & LOC member at the *European Science Foundation Exploratory Workshop on: Tracing Dust in Spiral Galaxies: radiative transfer studies in the dawn of a new generation of observing facilities* , 5/2007, Ghent, Belgium;

LOC member at the Meeting of the European RTN network *The Physics of the Intergalactic Medium*, 9/2002, Castello di Gargonza, Italy;

Referee for scientific journals (MNRAS, A&A, ApJ, PASJ);

Member of the Arcetri Colloquia Organizing Team (2012-2015)

Coordinator of the extragalactic research group in Arcetri (2016-2019)

Partecipation to the outreach activities of the Arcetri Observatory.

Curator of the collection of historical instruments of the Arcetri Observatory.

Supervised Students & Postdocs

Francesco Pinna. *Distruzione dei grani di polvere negli ejecta delle supernovae*. Laurea Thesis. University of Firenze. Completed July 2006.

External examiner for the PhD examinations of

- Andrew Shurer, SISSA/International School for advanced studies, Trieste, Italy, 10/2009.
- Gert De Geyter, Universiteit Gent, Belgium, 3/2015.
- Dries Van De Putte, Universiteit Gent, Belgium, 12/2020.

Scientific supervisor for the Postdoc positions of

- Maria Luce Bruscoli (2007-2008)
- Laura Magrini (2010-2011)
- Ciro Pappalardo (2010-2012)
- Viviana Casasola (2015-2018)
- Marco Bocchio (2015)
- Francesco Salvestrini (2021-2023)
- Evangelos-Dimitrios Paspaliaris (2023-)

Grants

INAF mainstream project: Gas-DustPedia: A definitive view of the ISM in the Local Universe. 2019. 27 kEuros.

Opening the ALMA window on the cosmic evolution of gas, stars and supermassive black holes . PRIN MIUR 2017, funds administered at Arcetri: 27 kEuros

FP7 Space collaborative project “A Definitive Study of Dust in the Local Universe (DustPedia)” - CoI. 2014. 235 kEuros (total: 2.1 MEuros).

Supporto all’analisi dati per l’astrofisica delle alte energie e la cosmologia delle strutture formate (Accordo ASI/INAF I/009/10/0): HeViCS: the Herschel Virgo Cluster Survey . 2010. 72 kEuros.

European Science Foundation Exploratory Workshop on: Tracing Dust in Spiral Galaxies: radiative transfer studies in the dawn of a new generation of observing facilities . 2007. 14 kEuros.

List of Publications

Refereed publications:

1. Bianchi S., Ferrara A., Giovanardi C., *Monte Carlo Simulation of dusty spiral galaxies: Extinction and polarization properties*, 1996, Astrophysical Journal, 465, 127.
2. Ferrara A., Bianchi S., Dettmar R.-J., Giovanardi C., *The effect of Light scattering by Dust in Galactic Halos on Emission Line Ratios*, 1996, Astrophysical Journal, 467, L69.
3. Cimatti A., Bianchi S., Ferrara A., Giovanardi C., *On the dust extinction in high-z galaxies and the case of extremely red objects*, 1997, Mon. Not. R. Astron. Soc., 290, L43.
4. Alton P. B., Trehwella M., Davies J. I., Evans R., Bianchi S., Gear W., Thronson, H., Valentijn E., Witt A., *Resolved 200- μ m images of nearby galaxies – evidence for an extended distribution of cold dust*, 1998, Astronomy and Astrophysics, 335, 807.
5. Bianchi S., Alton P. B., Davies J. I., Trehwella M., *SCUBA imaging of NGC 7331 dust ring*, 1998, Mon. Not. R. Astron. Soc., 298, L49.
6. Alton P. B., Bianchi S., Rand R. J., Xilouris E. M., Davies J. I., Trehwella M., *Deep submillimeter images of NGC 891 – cold dust at larger galactic radii*, 1998, Astrophysical Journal, 507, L125.
7. Davies J. I., Alton P., Bianchi S., Trehwella M., *The expulsion and retention of dust grains by galactic discs*, 1998, Mon. Not. R. Astron. Soc., 300, 1006.
8. Alton P., Davies J. I., Bianchi S., *Dust outflows from starburst galaxies*, 1999, Astronomy and Astrophysics, 343, 51.
9. Bianchi S., Alton P. B., Davies J. I., *Dust Emissivity in the Far-Infrared*, 1999, Astronomy and Astrophysics, 344, L1.
10. Davies J. I., Alton P., Trehwella M., Evans R., Bianchi S., *200- μ m ISO observations of NGC 6946 – evidence for an extended distribution of cold dust*, 1999, Mon. Not. R. Astron. Soc., 304, 495.
11. Ferrara A., Bianchi S., Cimatti A., Giovanardi C., *An atlas of Monte Carlo models of dust extinction in galaxies for cosmological applications*, 1999, Astrophysical Journal Supplement, 123, 437.
12. Bianchi S., Davies J. I., Alton P. B., Gerin M., Casoli F., *SCUBA observations of NGC 6946*, 2000, Astronomy and Astrophysics, 353, L13.
13. Bianchi S., Ferrara A., Davies J. I., Alton P., *Effects of Clumping on the Observed Properties of Dusty Galaxies*, 2000, Mon. Not. R. Astron. Soc., 311, 601.
14. Alton P. B., Xilouris E. M., Bianchi S., Davies J., Kylafis N., *Dust properties of external galaxies: NGC 891 revisited*, 2000, Astronomy and Astrophysics, 356, 795.
15. Bianchi S., Davies J. I., Alton P. B., *Monte Carlo predictions of Far-Infrared emission from spiral galaxies*, 2000, Astronomy and Astrophysics, 359, 65.
16. Alton P. B., Rand R. J., Xilouris E. M., Bevan S., Ferguson A., Davies J. I., Bianchi S., *Dust outflows from quiescent spiral disks*, 2000, Astronomy and Astrophysics Supplement Series, 145, 83.
17. Kambas A., Davies J. I., Smith R. M., Bianchi S., Haynes J., *The low surface brightness extent of the Fornax Cluster*, 2000, Astronomical Journal, 120, 1316.

18. Trewhella M., Davies J. I., Alton P. B., Bianchi S., Madore B. F., *ISO Long Wavelength Spectrograph Observations of Cold Dust in Galaxies*, 2000, *Astrophysical Journal*, 543, 153.
19. Alton P. B., Lequeux J., Bianchi S., Churches D., Davies J. I., Combes F., *Deep submillimeter images of NGC 7331; dust at the periphery of spiral galaxies*, 2001, *Astronomy and Astrophysics*, 366, 451.
20. Bianchi S., Cristiani S., Kim T.-S., *The contribution of galaxies to the UV ionising background and the evolution of the Lyman forest*, 2001, *Astronomy and Astrophysics*, 376, 1.
21. Alton P. B., Bianchi S., Davies J. I., *Cold dust in nearby galaxies: implications for observing the high-redshift universe*, 2001, *Astrophysics and Space Science*, 276, 949.
22. Vanzella E., Cristiani E., Saracco P., Arnouts S., Bianchi S., D'Odorico S., Fontana A., Giallongo E., Grazian A., *Multicolor observations of the Hubble Deep Field South*, 2001, *Astronomical Journal*, 122, 2190.
23. Ciardi B., Bianchi S., Ferrara A., *Lyman Continuum Escape from Inhomogeneous ISM*, 2002, *Mon. Not. R. Astron. Soc.*, 331, 463.
24. Misiriotis A., Bianchi S., *The influence of clumping on surface brightness fits of edge-on spiral galaxies*, 2002, *Astronomy and Astrophysics*, 384, 866.
25. Haas M., Klaas U., Bianchi S., *The relation of PAH strength with cold dust in galaxies*, 2002, *Astronomy and Astrophysics*, 385, L23.
26. Alton, P. B., Bianchi S., Richer J., Pierce-Price D., Combes F., *Mapping the submillimeter spiral wave in NGC 6946*, 2002, *Astronomy and Astrophysics*, 388, 446.
27. Bianchi S., Gonçalves J., Albrecht M., Caselli P., Chini R., Galli D., Walmsley M., *Dust emissivity in the Submm/Mm: SCUBA and SIMBA observations of Barnard 68*, 2003, *Astronomy and Astrophysics*, 399, L43.
28. Miniati F., Ferrara A., White S. D. M., Bianchi S., *Ultraviolet Background Radiation from Cosmic Structure Formation*, 2004, *Mon. Not. R. Astron. Soc.*, 348, 964.
29. Maiolino R., Schneider R., Oliva E., Bianchi S., Ferrara A., Mannucci F., Pedani M., Roca Sogorb M., *A supernova origin for dust in a high-redshift quasar*, 2004, *Nature*, 431, 533.
30. Bianchi S., Ferrara A., *Intergalactic medium metal enrichment through dust sputtering*, 2005, *Mon. Not. R. Astron. Soc.*, 358, 379.
31. Hunt L., Bianchi S., Maiolino R., *The optical-to-radio spectral energy distributions of low-metallicity blue compact dwarf galaxies*, 2005, *Astronomy and Astrophysics*, 434, 849.
32. D'Odorico V., Viel M., Saitta F., Cristiani S., Bianchi S., Boyle B., Lopez S., Maza J., Outram P., *Tomography of the intergalactic medium with Ly- α forests in close QSO pairs*, 2006, *Mon. Not. R. Astron. Soc.*, 372, 1333.
33. Bianchi S., Schneider R., *Dust formation and survival in supernova ejecta*, 2007, *Mon. Not. R. Astron. Soc.*, 378, 973.
34. Bianchi S., *The dust distribution in edge-on galaxies. Radiative transfer fits of V and K'-band images*, 2007, *Astronomy and Astrophysics*, 471, 765.
35. Bianchi S., *Dust Extinction and Emission in a Clumpy Galactic Disk. An Application of the Radiative Transfer Code TRADING*, 2008, *Astronomy and Astrophysics*, 490, 461.
36. Valiante R., Schneider R., Bianchi S., Andersen A., *Stellar sources of dust in the high-redshift Universe*, 2009, *Mon. Not. R. Astron. Soc.*, 397, 1661.

37. Davies J., Baes M., Bendo G. J., Bianchi S., + other 26 authors, *The Herschel Virgo Cluster Survey: I. Luminosity functions*, 2010, Astronomy and Astrophysics, 518, L48.
38. Cortese L., Davies J., Pohlen M., Baes M., Bendo G. J., Bianchi S., + other 24 authors, *The Herschel Virgo Cluster Survey: II. Truncated dust disks in HI-deficient spirals*, 2010, Astronomy and Astrophysics, 518, L49.
39. Clemens M. S., Jones A. P., Bressan A., Baes M., Bendo G. J., Bianchi S., + other 25 authors, *The Herschel Virgo Cluster Survey: III. A constraint on dust grain lifetime in early-type galaxies*, 2010, Astronomy and Astrophysics, 518, L50.
40. Smith M. W. L., Vlahakis C., Baes M., Bendo G. J., Bianchi S., + other 25 authors, *The Herschel Virgo Cluster Survey: IV. Resolved dust analysis of spiral galaxies*, 2010, Astronomy and Astrophysics, 518, L51.
41. Grossi M., Hunt L. K., Madden S., Vlahakis C., Bomans D. J., Baes M., Bendo G. J., Bianchi S., + other 22 authors, *The Herschel Virgo Cluster Survey: V. Star-forming dwarf galaxies - dust in metal-poor environments*, 2010, Astronomy and Astrophysics, 518, L52.
42. Baes M., Clemens M., Xilouris E. M., Fritz J., Cotton W. D., Davies J. I., Bendo G. J., Bianchi S., + other 24 authors, *The Herschel Virgo Cluster Survey: VI. The far-infrared view of M87*, 2010, Astronomy and Astrophysics, 518, L53.
43. De Looze I., Baes M., Zibetti S., Fritz J., Cortese L., Davies J. I., Verstappen J., Bendo G. J., Bianchi S., + other 21 authors, *The Herschel Virgo Cluster Survey: VII. Dust in cluster dwarf elliptical galaxies*, 2010, Astronomy and Astrophysics, 518, L54.
44. Boselli A., Ciesla L., Buat V., Cortese L., Auld R., Baes M., Bendo G. J., Bianchi S., + other 73 authors, *FIR colours and SEDs of nearby galaxies observed with Herschel*, 2010, Astronomy and Astrophysics, 518, L61.
45. Gallerani S., Maiolino R., Juarez Y., Nagao T., Marconi A., Bianchi S., Schneider R., Manucci F., Oliva T., Willott C. J., Jiang L., Fan X., *The extinction law at high redshift and its implications*, 2010, Astronomy and Astrophysics, 523, A85.
46. Bianchi S., Xilouris M. *The extent of dust in NGC891 from Herschel/SPIRE images*, 2011, Astronomy and Astrophysics, 531, L11.
47. Valiante R., Schneider R., Salvadori S., Bianchi S. *The origin of dust in high redshift QSOs: the case of SDSS J1148+5251*, 2011, Mon. Not. R. Astron. Soc., 416, 1916.
48. Magrini L., Bianchi S., + other 21 authors, *The Herschel Virgo Cluster Survey. IX. Dust-to-gas mass ratio and metallicity gradients in four Virgo spiral galaxies*, 2011, Astronomy and Astrophysics, 535, A13.
49. Schneider R., Omukai K., Bianchi S., Valiante R., *The first low-mass stars: critical metallicity or dust-to-gas ratio?*, 2011, Mon. Not. R. Astron. Soc., 419, 1566.
50. Davies J. I., Bianchi S., + other 21 authors, *The Herschel Virgo Cluster Survey. VIII. The Bright Galaxy Sample*, 2012, Mon. Not. R. Astron. Soc., 419, 3505.
51. Cortese L., Ciesla L., Boselli A., Bianchi S. + other 22 authors, *The dust scaling relations of the Herschel Reference Survey*, 2012, Astronomy and Astrophysics, 540, A52.
52. Boselli A., + 12 authors, Bianchi S. + other 10 authors, *FIR colours of nearby late-type galaxies in the Herschel Reference Survey*, 2012, Astronomy and Astrophysics, 540, A54.

53. Smith M. W. L., + 7 authors, [Bianchi S.](#) + other 18 authors, *The Herschel Reference Survey: Dust in early-type galaxies and across the Hubble sequence*, 2012, Astrophysical Journal, 748, 123.
54. Holwerda B. W., [Bianchi S.](#), Böker T., Radburn-Smith D., de Jong R. S., Baes M., van der Kruit P. C., Xilouris M., Gordon K. D., Dalcanton J. J., *Herschel/SPIRE observations of the dusty disk of NGC 4244*, Astronomy and Astrophysics, 541, L5.
55. Ciesla L., Boselli A., Smith M. W. L., Bendo G. J., Cortese L., Eales S., [Bianchi S.](#), + other 19 authors, *Submillimetre photometry of 323 nearby galaxies from the Herschel Reference Survey*, 2012, Astronomy and Astrophysics, 541, A161. Errata, 2013, Astronomy and Astrophysics, 550, C1.
56. Corbelli E., [Bianchi S.](#), + other 17 authors, *The Herschel Virgo Cluster Survey. X. The relationship between cold dust and molecular gas content in Virgo spirals*, 2012, Astronomy and Astrophysics, 542, A32.
57. Schneider R., Omukai K., Limongi M., Ferrara A., Salvaterra R., Chieffi A., [Bianchi S.](#), *The formation of the extremely primitive star SDSS J102915+172927 relies on dust*, 2012, Mon. Not. R. Astron. Soc., 423, L60.
58. Pappalardo C., [Bianchi S.](#), + other 20 authors, *The Herschel Virgo Cluster Survey. XI. Environmental effects on molecular gas and dust in spiral disks* 2012, Astronomy and Astrophysics, 545, A75.
59. Valiante R., Schneider R., Maiolino R., Salvadori S., [Bianchi S.](#) *Quasar feedback in the early Universe: the case of SDSS J1148+5251*, 2012, Mon. Not. R. Astron. Soc., 427, L60.
60. Eales S., Matthew M. W. L., Auld R., Baes M., Bendo G. J., [Bianchi S.](#) + other 20 authors, *Can Dust Emission be Used to Estimate the Mass of the Interstellar Medium in Galaxies—A Pilot Project with the Herschel Reference Survey*, 2012, Astrophysical Journal, 761, 168.
61. Hunt L., Magrini L., Galli D., Schneider R., [Bianchi S.](#), Maiolino R., Romano D., Tosi M., Valiante R., *Scaling relations of metallicity, stellar mass, and star formation rate in metal-poor starbursts: I. A fundamental plane*, 2012, Mon. Not. R. Astron. Soc., 427, 906.
62. Magrini L., Hunt L., Galli D., Schneider R., [Bianchi S.](#), Maiolino R., Romano D., Tosi M., Valiante R., *Scaling relations of metallicity, stellar mass, and star formation rate in metal-poor starbursts: II. Theoretical models*, 2012, Mon. Not. R. Astron. Soc., 427, 1075.
63. Davies J. I., [Bianchi S.](#) + other 19 authors *The Herschel Fornax Cluster. I. The bright galaxy sample*, 2013, Mon. Not. R. Astron. Soc., 428, 834.
64. Auld R., [Bianchi S.](#) + other 25 authors *The Herschel Virgo Cluster. XII. FIR properties of optically-selected Virgo Cluster galaxies*, 2013, Mon. Not. R. Astron. Soc., 428, 1880.
65. Di Serego Alighieri S., [Bianchi S.](#) + other 17 authors *The Herschel Virgo Cluster. XIII. Dust in early-type galaxies*, 2013, Astronomy and Astrophysics, 552, A8.
66. [Bianchi S.](#), *Vindicating single-T modified blackbody fits to Herschel SEDs (Research Note)*, 2013, Astronomy and Astrophysics, 552, A89.
67. Bocchio M., Jones A. P., Verstraete L., Xilouris E. M., Micelotta E. R., [Bianchi S.](#), *Dust heating: Photon absorption versus electron collisions*, 2013, Astronomy and Astrophysics, 556, A6.
68. Verstappen J., Fritz J., Baes M., Smith M. W. L., Allaert F., [Bianchi S.](#) + other 8 authors, *HERschel Observations of Edge-on Spirals (HEROES). I: Far-infrared morphology and dust mass determination*, 2013, Astronomy and Astrophysics, 556, A54.

69. De Looze I., + 6 authors, [Bianchi S.](#) + other 14 authors, *The Herschel Virgo Cluster Survey - XIV. Transition-type dwarf galaxies in the Virgo cluster*, 2013, Mon. Not. R. Astron. Soc., 436, 1057.
70. Michałowski M. J., + 7 authors, [Bianchi S.](#) + other 24 authors, *Spatially-resolved dust properties of the GRB 980425 host galaxy*, 2014, Astronomy and Astrophysics, 562, A70.
71. Baes M., Herranz D. , [Bianchi S.](#) + other 21 authors, *The Herschel Virgo Cluster Survey. XV. Planck submillimetre sources in the Virgo Cluster*, 2014, 562, A106.
72. Davies J. I., [Bianchi S.](#) + other 13 authors, *The Herschel Virgo Cluster Survey XVI: a cluster inventory*, 2014, Mon. Not. R. Astron. Soc., 438, 1922.
73. Hughes T. M., + 8 authors, [Bianchi S.](#) + other 11 authors, *A resolved analysis of cold dust and gas in the nearby edge-on spiral NGC 891*, 2014, Astronomy and Astrophysics, 565, A4.
74. Hunt L. K., + 6 authors, [Bianchi S.](#) + other 12 authors, *New light on gamma-ray burst host galaxies with Herschel*, 2014, Astronomy and Astrophysics, 565, A112.
75. Ciesla, L., + 10 authors, [Bianchi S.](#) + other 11 authors, *Dust spectral energy distributions of nearby galaxies: an insight from the Herschel Reference Survey*, 2014, Astronomy and Astrophysics, 565, A128.
76. Cortese L., Fritz J., [Bianchi S.](#) + other 26 authors, *PACS photometry of the Herschel Reference Survey - far-infrared/submillimetre colours as tracers of dust properties in nearby galaxies*, 2014, Mon. Not. R. Astron. Soc., 440, 942.
77. Fuller C., +4 authors, [Bianchi S.](#) + other 10 authors, *The Herschel Fornax Cluster Survey II: FIR properties of optically selected Fornax cluster galaxies*, 2014, Mon. Not. R. Astron. Soc., 440, 1571.
78. Pappalardo C., Bendo G. , [Bianchi S.](#) + other 19 authors, *The Herschel Virgo Cluster Survey XVII: SPIRE point-source catalogs and number counts*, 2015, Astronomy and Astrophysics, 573, A129.
79. Grossi M., + other 6 authors, [Bianchi S.](#) + other 17 authors, *The Herschel Virgo Cluster Survey XVIII: Star-forming dwarf galaxies in a cluster environment*, 2015, Astronomy and Astrophysics, 574, A126.
80. Bendo G. J., Baes M., [Bianchi S.](#) + other 15 authors, *The identification of dust heating mechanisms in nearby galaxies using Herschel 160/250 and 250/350 μm surface brightness ratios*, 2015, Mon. Not. R. Astron. Soc., 448, 135.
81. Hunt L., Draine B. T., [Bianchi S.](#) + other 20 authors, *Cool dust heating and temperature mixing in nearby star-forming galaxies*, 2015, Astronomy and Astrophysics, 576, A33.
82. Boissier S., Boselli A., Voyer E., [Bianchi S.](#) + other 8 authors, *The GALEX Ultraviolet Virgo Cluster Survey (GUViCS). V. Ultraviolet diffuse emission and cirrus properties in the Virgo cluster direction*, 2015, Astronomy and Astrophysics, 579, A29.
83. Schneider R., [Bianchi S.](#), Valiante R., Risaliti G., Salvadori S., *The origin of the far-infrared continuum of $z\sim 6$ quasars. A radiative transfer model for SDSS J1148+5251*, 2015, Astronomy and Astrophysics, 579, A60.
84. Viaene S., + other 6 authors, [Bianchi S.](#) + other 9 authors, *NGC 4370: a case study for testing our ability to infer dust distribution and mass in nearby galaxies*, 2015, Astronomy and Astrophysics, 579, A103.

85. Camps P., Misselt K., Bianchi S. + other 9 authors, *Benchmarking the calculation of stochastic heating and emissivity of dust grains in the context of radiative transfer simulations*, 2015, Astronomy and Astrophysics, 580, A87.
86. Allaert F., +other 5 authors, Bianchi S. + other 5 authors, *HERschel Observations of Edge-on Spirals (HEROES). II. Tilted-ring modelling of the atomic gas disks*, 2015, Astronomy and Astrophysics, 582, A18.
87. Marassi S., Schneider R., Limongi M., Chieffi A., Bocchio M., Bianchi S., *The metal and dust yields of the first massive stars*, 2015, Mon. Not. R. Astron. Soc., 454, 4250.
88. Bocchio M., Bianchi S., Hunt L. K., Schneider R., *Halo dust detection around NGC 891*, 2016, Astronomy and Astrophysics, 586, A8.
89. Bocchio M., Marassi S., Schneider R., Bianchi S., Limongi M., Chieffi A., *Dust grains from the heart of supernovae*, 2016, Astronomy and Astrophysics, 587, A157.
90. Pappalardo C., + other 7 authors, Bianchi S. + other 6 authors, *The Herschel Virgo Cluster Survey. XIX. Physical properties of low luminosity FIR sources at $z < 0.5$* , 2016, Astronomy and Astrophysics, 589, A11.
91. Baes M., Gordon K., Lunntila T., Bianchi S., Camps P., Juvela M., Kuiper R., *Composite biasing in Monte Carlo radiative transfer*, 2016, Astronomy and Astrophysics, 590, A55.
92. Bocchio M., Bianchi S., Abergel A., *Deep Herschel PACS point spread functions*, 2016, Astronomy and Astrophysics, 591, A117.
93. Mosenkov A., Allaert F., Baes M., Bianchi S., + other 10 authors, *HERschel Observations of Edge-on Spirals (HEROES). III. Dust energy balance study of IC 2531*, 2016, Astronomy and Astrophysics, 592, A71.
94. Smith M. W. L., Eales, S. A., De Looze I., Baes M., Bendo G. J., Bianchi S., + other 18 authors, *Far-reaching Dust Distribution in Galaxy Disks*, 2016, Mon. Not. R. Astron. Soc., 462, 331-344.
95. Bianchi S., + other 24 authors, *The Herschel Virgo Cluster Survey. XX. Dust and gas in the foreground Galactic cirrus*, 2017, Astronomy and Astrophysics, 597, A130.
96. Davies J. I., Baes M., Bianchi S., + other 20 authors, *DustPedia: A Definitive Study of Cosmic Dust in the Local Universe*, 2017, Publication of the Astronomical Society of the Pacific, 129:044102.
97. Gordon K., Baes M., Bianchi S., + other 8 authors, *TRUST I. A 3-D externally illuminated slab benchmark for dust radiative transfer*, 2017, Astronomy and Astrophysics, 603, A114.
98. Duras F., Bongiorno A., Piconcelli E., Bianchi S., + other 11 authors, *The WISSH quasars project II. Giant star nurseries in hyper-luminous quasars*, 2017, Astronomy and Astrophysics, 604, A67.
99. Casasola V., Cassarà L. P., Bianchi S., + other 18 authors, *Radial distribution of dust, stars, gas, and star-formation rate in DustPedia face-on galaxies*, 2017, Astronomy and Astrophysics, 605, A18.
100. Spinoglio L. + 4 authors, Bianchi S., + other 62 authors, *Galaxy Evolution Studies with the SPace IR Telescope for Cosmology and Astrophysics (SPICA): The Power of IR Spectroscopy*, 2017, Publications of the Astronomical Society of Australia, 34, e057.
101. Clark C. J. R., Verstocken S., Bianchi S., + other 16 authors, *DustPedia: Multiwavelength photometry and imagery of 875 nearby galaxies in 42 ultraviolet-microwave bands*, 2018, Astronomy and Astrophysics, 609, A37.

102. Mosenkov A., Allaert F., Baes M., [Bianchi S.](#), + other 14 authors, *HERschel Observations of Edge-on Spirals (HEROES). IV. Dust energy balance problem*, 2018, Astronomy and Astrophysics, 616, A120.
103. Casasola V. + 6 authors, [Bianchi S.](#), + other 1 author, *Spectroscopic characterization of the protocluster of galaxies around 7C 1756+6520 at $z \sim 1.4$* , 2018, Astronomy and Astrophysics, 618, A128.
104. [Bianchi S.](#), + other 18 authors, *Fraction of bolometric luminosity absorbed by dust in DustPedia galaxies*, 2018, Astronomy and Astrophysics, 620, A112.
105. Egami E. + 6 authors, [Bianchi S.](#), + other 31 authors, *Probing the high-redshift universe with SPICA: Toward the epoch of reionisation and beyond*, 2018, Publications of the Astronomical Society of Australia, 35, e048.
106. Hunt L. + 4 authors, [Bianchi S.](#), + other 23 authors, *Comprehensive comparison of models for spectral energy distributions from $0.1 \mu\text{m}$ to 1mm of nearby star-forming galaxies*, 2019, Astronomy and Astrophysics, 621, A51.
107. Mosenkov A. V., Baes M., [Bianchi S.](#), + other 19 authors, *Dust emission profiles of DustPedia galaxies*, 2019, Astronomy and Astrophysics, 622, A132.
108. De Vis P. + 5 authors, [Bianchi S.](#), + other 13 authors, *A systematic metallicity study of DustPedia galaxies reveals evolution in the dust-to-metal ratios*, 2019, Astronomy and Astrophysics, 623, A5.
109. Nersesian A., Xilouris E. M., [Bianchi S.](#), + other 19 authors, *Old and young stellar populations in DustPedia galaxies and their role in dust heating*, 2019, Astronomy and Astrophysics, 624, A80.
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