

Curriculum Vitæ

Oliver Fabio Piattella

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PERSONAL DETAILS

Address: Department of Science and High Technology, Università degli Studi dell'Insubria, Via Valleggio 11, 22100 Como, Italy

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Date of Birth: 17 September 1981

Place of Birth: Zürich, Switzerland

Nationality: Italian

Family Status: Married, father of Giulio

RESEARCH INTERESTS

- Cosmology, gravitation, and astrophysics
- Dark matter and large-scale structure
- Dark energy and modified gravity

ACADEMIC POSITIONS

- Jan 2025–Present: Associate Professor, Università degli Studi dell'Insubria, Como, Italy
- Jan 2022–Dec 2024: Assistant Professor, Università degli Studi dell'Insubria, Como, Italy
- Feb 2020–Dec 2021: Associate Professor (*Professor Associado*), Federal University of Espírito Santo, Vitória, Brazil
- Mar 2013–Dec 2021: CNPq Level 2 Researcher
- Sep 2018–Feb 2020: CAPES–Humboldt Fellow, Institute for Theoretical Physics, Heidelberg University, Germany
- Feb 2012–Feb 2020: Assistant Professor (*Professor Adjunto*), Federal University of Espírito Santo, Brazil
- Feb 2011–Feb 2012: Visiting Professor, Federal University of Espírito Santo, Brazil
- Feb 2010–Feb 2011: Postdoctoral Fellow, Federal University of Espírito Santo, Brazil

- Spring-Summer 2009: Visiting Researcher, Institute of Cosmology and Gravitation, Portsmouth, UK
- Jan 2007-Jan 2010: PhD in Physics, Università degli Studi dell'Insubria, Italy

MEMBERSHIPS, GRANTS, AND FELLOWSHIPS

- Member of the Italian Society of General Relativity and Gravitational Physics (SIGRAV)
- Member of the Italian Physical Society (SIF)
- Member of the Cosmoverse COST ACTION CA21136
- Italian National Scientific Qualification (ASN), Full Professor (02/A2)
- Italian National Scientific Qualification (ASN), Associate Professor (02/A2)
- CAPES–Humboldt Fellowship, awarded in 2018
- FAPES Research Grant (Brazil), 2016–2019
- CNPq Research Productivity Grant (Brazil), 2016–2019
- UFES International Cooperation Grant, 2014–2016
- CNPq Research Productivity Grant, 2013–2016
- CNPq Postdoctoral Fellowship, 2010–2011
- PhD Fellowship, Università degli Studi dell'Insubria, 2006–2009

SELECTED TALKS AND LECTURES

- May 2025, *Varying equation of state of matter*, Bilkent Applied Mathematics Seminars (online)
- May 2025, *Varying equation of state of matter*, Cosmoverse meeting, Naples (Italy)
- June 2024, *Course in Cosmology*, Estate Quantistica, Scalea (Italy)
- March 2024, *Gamma, zeta, and prime numbers*, talk on the occasion of Pi-day, Como (Italy)
- September 2022, *VI JPB School*, Pedra Azul, Brazil. Title: *Enhanced recombination and the Hubble tension*
- April 2022, *Does the cosmological constant stay hidden?*, Plenary invited talk at *COSMOSUR VI*, Córdoba (Argentina)
- July 2019, *Lectures on the cosmological constant*, two invited lectures at the Institute of Theoretical Physics of Heidelberg University.
- July 2018, *Introduction to Gravitational Waves*, a series of 3 lectures delivered at the *Inverno Astrofísico 2018*
- June 2018, *Estate Quantistica*, Scalea, Italy. Title: *Stability of neutron stars in R^2 gravity*

- July 2017, *Introduction to Cosmology*, series of 3 lectures delivered at the *Fourth Afro-Franco-Brazilian Meeting on Mathematics and Physics*, Porto Novo, Benin
- April 2017, *Introduction to Cosmology*, series of 3 lectures delivered at the *First school on physical sciences Brazil-Cape Verde*, Praia, Cape Verde
- July 2016, *Xth International Conference on the interconnection between particle physics and cosmology*, São Paulo, Brazil. Title: *Lensing in the McVittie metric*
- September 2015, ICG theory group seminar, Portsmouth, UK. Title: *Lensing in the McVittie metric*
- February 2015, *Verão Quântico*, João Pessoa, Brazil. Title: *Velocity dispersion effect on the evolution of small fluctuations of dark matter*
- May 2013, Nice Observatory, France. Title: *Velocity dispersion effects in the linear growth of cosmic structures*
- May 2013, Institute of Astrophysics, Paris, France. Title: *Velocity dispersion effects in the linear growth of cosmic structures*
- October 2010, Brazilian Center for Research in Physics (CBPF), Rio de Janeiro, Brazil. Title: *Causal Bulk Viscous Cosmology*
- July 2009, Institute of Astronomy (IoA), Cambridge, UK. Title: *A new class of adiabatic Unified Dark Matter models*
- February 2009, Institute of Cosmology and Gravitation (ICG), UK. Title: *The Chaplygin gas as a unified model of dark energy and dark matter*

TEACHING EXPERIENCE

- Extensive teaching experience at the undergraduate and graduate levels since 2010.
- Regularly taught core undergraduate physics courses, including Classical Mechanics, Electrodynamics, Quantum Mechanics, and Nuclear Physics.
- Graduate courses: Cosmology and General Relativity (since 2014).
- Typical teaching load: two 60-hour courses per semester.

STUDENT SUPERVISION

- Completed supervision of 8 BSc students, 7 MSc students, and 5 PhD students.
- Currently supervising 2 PhD students.
- Co-founder of the PPGCosmo PhD program (2016), focused on international co-supervision.

SELECTED ORGANIZED EVENTS

The web-pages of the following events can be found on <http://www.cosmo-ufes.org/events.html> and <https://www.oliverfpiattella.eu>.

- June 2026: Estate Quantistica 2026
- June 2025: Como Lake School 2025, *Dark Matter, Dark Energy, and the Cosmological Tensions*, Como, Italy.
- June 2024: Estate Quantistica 2024, Scalea, Italy.
- June 2023: Como Lake School 2023, *Brave New Worlds II Understanding the planets of other stars*, Como, Italy
- October 2021: *Fifth José Plínio Baptista School in Gravitation and Cosmology*, Pedra Azul, Domingos Martins, Brazil.
- February 2019: *Verão Quântico 2019*, Anchieta, Brazil.
- June 2018: *Estate Quantistica 2018*, Scalea, Italy.
- March 2017: *Seventh Verão Quântico*, Anchieta, Brazil.
- September 2016: *Third José Plínio Baptista School in Gravitation and Cosmology*, Pedra Azul, Domingos Martins, Brazil.
- June 2016: *Estate Quantistica*, Scalea, Italy.
- April 2015: *Black holes and their analogues*, Ubu, Anchieta, Brazil.
- September 2014: *Estate Quantistica*, Scalea, Italy.
- February 2013: *Fifth Verão Quântico*, Ubu, Anchieta, Brazil.
- October 2012: *First José Plínio Baptista School in Gravitation and Cosmology*, Ubu, Anchieta, Brazil.

TECHNICAL SKILLS

Programming and scientific software: Fortran (77/90/95), Mathematica, Maple, Matlab, CAMB, CMBFAST, CLASS, Moodle

Languages (CEFR scale): Italian (native), English (C2), Portuguese (C2), French (C1), Spanish (C1), German (B2), Russian (A2), Japanese (A1)

SERVICE AND ADMINISTRATIVE ROLES

Coordinator of the Distance Learning Physics Program, UFES (2016–2018)

Vice-Director of the PPGCosmo PhD Program (2016–2018)

LIST OF PUBLICATIONS

Articles published in international scientific journals

1. V. Gorini, A. Y. Kamenshchik, U. Moschella, O. F. Piattella and A. A. Starobinsky, *Gauge-invariant analysis of perturbations in Chaplygin gas unified models of dark matter and dark energy*, JCAP **0802** (2008) 016, arXiv:0711.4242
2. V. Gorini, A. Y. Kamenshchik, U. Moschella, O. F. Piattella and A. A. Starobinsky, *More about the Tolman-Oppenheimer-Volkoff equations for the generalised Chaplygin gas*, Phys. Rev. D **80**, 104038 (2009), arXiv:0909.0866
3. O. F. Piattella, *The extreme limit of the generalised Chaplygin gas*, JCAP **1003** (2010) 012, arXiv:0906.4430
4. O. F. Piattella, D. Bertacca, M. Bruni and D. Pietrobon, *Unified Dark Matter models with fast transition*, JCAP **1001** (2010) 014, arXiv:0911.2664
5. L. Rizzi, S. L. Cacciatori, V. Gorini, A. Y. Kamenshchik and O. F. Piattella, *Dark matter effects in vacuum spacetime*, Phys. Rev. D **82**, 027301 (2010), arXiv:1006.4059
6. L. Rizzi, O. F. Piattella, S. L. Cacciatori and V. Gorini, *The Step-Harmonic potential*, Am. J. Phys. **78**, 8, August 2010, arXiv:0912.3198
7. D. Bertacca, O. F. Piattella, M. Bruni and D. Pietrobon, *Unified Dark Matter scalar field models with fast transition*, JCAP **02** (2011) 018, arXiv:1011.6669
8. F. Belgiorno, S. L. Cacciatori, F. Dalla Piazza and O. F. Piattella, *Quantum loss of angular momentum for BTZ black holes*, J. Phys. A **44** (2011) 025202, arXiv:1007.4439
9. Daniele Bertacca, Alvise Raccanelli, Oliver F. Piattella, Davide Pietrobon, Nicola Bartolo, Sabino Matarrese and Tommaso Giannantonio, *CMB-Galaxy correlation in Unified Dark Matter Scalar Field Cosmologies*, JCAP **1103** (2011) 039, arXiv:1102.0284
10. Oliver F. Piattella, Júlio C. Fabris and Winfried Zimdahl, *Bulk viscous cosmology with causal transport theory*, JCAP **1105** (2011) 029, arXiv:1103.1328
11. L. Rizzi, O. F. Piattella, S. L. Cacciatori and V. Gorini, *Two variants of the step-harmonic potential*, Revista Brasileira de Ensino de Física, vol. 38, no 2, e2302 (2016), arXiv:1102.2994
12. Oliver F. Piattella and Daniele Bertacca, *Gravitational potential evolution in Unified Dark Matter Scalar Field Cosmologies: an analytical approach*, Modern Physics Letters **A26** (2011) 2277-2286, arXiv:1103.0234
13. J. C. Fabris, T. C. C. Guio, M. Hamani Daouda, O. F. Piattella, *Scalar models for the generalized Chaplygin gas and the structure formation constraints*, Gravitation and Cosmology **17** 3 (2011) 259–271, arXiv:1011.0286

14. A. A. Grib, Y. .V. Pavlov, O. F. Piattella, *High energy processes in the vicinity of the Kerr's black hole horizon*, International Journal of Modern Physics A, **26** (2011) 22, arXiv:1105.1540
15. J. C. Fabris, M. Hamani Daouda, O. F. Piattella, *Note on the Evolution of the Gravitational Potential in Rastall Scalar Field Theories*, Phys. Lett. **B711** (2012) 232-237, arXiv:1109.2096
16. M. J. S. Houndjo and O. F. Piattella, *Reconstructing $f(R, T)$ gravity from holographic dark energy*, International Journal of Modern Physics D, **21** (2012) 1250024, arXiv:1111.4275
17. C. E. M. Batista, M. H. Daouda, J. C. Fabris, O. F. Piattella and D. C. Rodrigues, *Rastall Cosmology and the Λ CDM Model*, Phys. Rev. **D85** (2012) 084008, arXiv:1112.4141
18. M. J. S. Houndjo, C. E. M. Batista, J. P. Campos and O. F. Piattella, *Finite-time singularities in $f(R, T)$ gravity and the effect of conformal anomaly*, Can. J. Phys. 91 (7), 548-553 (2013), arXiv:1203.6084
19. C. E. M. Batista, J. C. Fabris, O. F. Piattella and A. M. Velasquez-Toribio, *Observational constraints on Rastall's cosmology*, Eur. Phys. J. C73 (2013) 2425, arXiv:1208.6327
20. G. F. Silva, O. F. Piattella, J. C. Fabris, L. Casarini and T. O. Barbosa, *Bouncing solutions in Rastall's theory with a barotropic fluid*, Grav. Cosmol. 19 (2013) 156-162, arXiv:1212.6954
21. J. P. Campos, J. C. Fabris, R. Perez, O. F. Piattella and H. Velten, *Does Chaplygin gas have salvation?*, Eur. Phys. J. C73 (2013) 2357, arXiv:1212.4136
22. O. F. Piattella, D. C. Rodrigues, J. C. Fabris, J. A. de Freitas Pacheco, *Evolution of the phase-space density and the Jeans scale for dark matter derived from the Vlasov-Einstein equation*, JCAP 1311 (2013) 002, arXiv:1306.3578
23. J. C. Fabris, O. F. Piattella, I. G. Salako, J. Tossa, H. E. S. Velten, *A note on acoustic black holes in neo-Newtonian theory*, Mod.Phys.Lett. A28 (2013) 1350169, arXiv:1308.1859
24. O. F. Piattella, J. C. Fabris, N. Bilić, *Note on the thermodynamics and the speed of sound of a scalar field*, Class.Quant.Grav. 31 (2014) 055006, arXiv:1309.4282
25. J. C. Fabris, J. A. de Freitas Pacheco, O. F. Piattella, *Is the continuous matter creation cosmology an alternative to Λ CDM?*, JCAP 1406 (2014) 038, arXiv:1405.6659
26. L. Casarini, O. F. Piattella, S. Bonometto and M. Mezzetti, *Sample variance in N -body simulations and impact on tomographic shear predictions*, Astrophys.J. 812 (2015) no.1, 16, arXiv:1406.5374

27. O. F. Piattella, D. L. A. Martins and L. Casarini, *Sub-horizon evolution of cold dark matter perturbations through dark matter-dark energy equivalence epoch*, JCAP **1410** (2014) 10, 031, arXiv:1407.4773
28. T. R. P. Caramês, M. H. Daouda, J. C. Fabris, A. M. Oliveira, O. F. Piattella and V. Stokov, *The Brans-Dicke-Rastall theory*, Eur. Phys. J. C **74** (2014) 11, 3145, arXiv:1409.2322
29. D. C. Rodrigues, B. Chauvineau and O. F. Piattella, *Scalar-Tensor gravity with system-dependent potential and its relation with Renormalization Group extended General Relativity*, JCAP **1509** (2015) no.09, 009, arXiv:1504.05119
30. O. F. Piattella, L. Casarini, J. C. Fabris and J. A. d. F. Pacheco, *Dark matter velocity dispersion effects on CMB and matter power spectra*, JCAP **1602** (2016) no.02, 024, arXiv:1507.00982
31. O. F. Piattella, *Lensing in the McVittie metric*, Phys. Rev. D **93** (2016) no.2, 024020, arXiv:1508.04763
32. R. M. Barbosa, E. G. Chirinos Isidro, W. Zimdahl and O. F. Piattella, *Cosmic bulk viscosity through backreaction*, Gen. Rel. Grav. **48** (2016) no.4, 51, arXiv:1512.07835
33. P. O. Baqui, J. C. Fabris and O. F. Piattella, *Cosmology and stellar equilibrium using Newtonian hydrodynamics with general relativistic pressure*, JCAP **1604** (2016) no.04, 034, arXiv:1512.09056
34. J. c. Hwang, H. Noh, J. Fabris, O. F. Piattella and W. Zimdahl, *Newtonian hydrodynamic equations with relativistic pressure and velocity*, JCAP **07** (2016), 046, arXiv:1603.07360 [gr-qc]
35. A. O. F. de Almeida, O. F. Piattella and D. C. Rodrigues, *A method for evaluating models that use galaxy rotation curves to derive the density profiles*, Mon. Not. Roy. Astron. Soc. **462** (2016) 270, arXiv:1605.04269
36. K. A. Bronnikov, J. C. Fabris, O. F. Piattella and E. C. Santos, *Static, spherically symmetric solutions with a scalar field in Rastall gravity*, Gen. Rel. Grav. **48** (2016) no.12, 162, arXiv:1606.06242
37. E. G. C. Isidro, R. M. Barbosa, O. F. Piattella and W. Zimdahl, *Averaged Lemaître-Tolman-Bondi dynamics*, Class. Quant. Grav. **34** (2017) no.3, 03500, arXiv:1608.00452
38. O. F. Piattella, *On the effect of the cosmological expansion on the gravitational lensing by a point mass*, Universe 2016, 2(4), 25, arXiv:1609.00270
39. K. A. Bronnikov, J. C. Fabris, O. F. Piattella, D. C. Rodrigues and E. C. Santos, *Duality between k-essence and Rastall gravity*, Eur. Phys. J. C **77** (2017) no.6, 409, arXiv:1701.06662
40. O. F. Piattella and L. Giani, *Redshift drift of gravitational lensing*, Phys. Rev. D **95** (2017) no.10, 101301, arXiv:1703.05142

41. T. Miranda, J. C. Fabris and O. F. Piattella, *Reconstructing a $f(R)$ theory from the α -Attractors*, JCAP **1709** (2017) no.09, 041, arXiv:1707.06457
42. F. Sbisà, O. F. Piattella and S. E. Jorás, *Pressure effects in the weak-field limit of $f(R) = R + \alpha R^2$ gravity*, Phys. Rev. D **99** (2019), 104046, arXiv:1811.01322
43. T. Miranda, C. Escamilla-Rivera, O. F. Piattella and J. C. Fabris, *Generic slow-roll and non-gaussianity parameters in $f(R)$ theories*, JCAP **1905** (2019) 028, arXiv:1812.01287
44. I. Torres, J. C. Fabris and O. F. Piattella, *Classical and quantum cosmology of Fab Four John theories*, Phys. Lett. B **798**, 135003 (2019) arXiv:1811.08852
45. L. Giani, T. Miranda and O. F. Piattella, *Cosmology and Newtonian limit in a model of gravity with nonlocally interacting metrics*, Phys. Dark Univ. **26** (2019), 100357 arXiv:2019.100357
46. L. Giani and O. F. Piattella, *Late-times asymptotic equation of state for a class of nonlocal theories of gravity*, Phys. Rev. D **100** (2019) no.12, 123508 arXiv:1906.10480
47. F. Sbisà, P. O. Baqui, T. Miranda, S. E. Jorás and O. F. Piattella, *Neutron star masses in R^2 -gravity*, Phys. Dark Univ. C **27** (2020), 100411 arXiv:2019.100411
48. S. Profumo, L. Giani and O. F. Piattella, *An Introduction to Particle Dark Matter*, Universe **5** (2019) no.10, 213 arXiv:1910.05610
49. I. Torres, J. C. Fabris and O. F. Piattella, *Bouncing and Cyclic Quantum Primordial Universes and the Ordering Problem*, Class. Quant. Grav. **37** (2020) no.10, 105005 arXiv:1911.01487
50. I. Torres, J. C. Fabris, O. F. Piattella and A. B. Batista, *Quantum Cosmology of Fab Four John Theory with Conformable Fractional Derivative*, Universe **6** (2020) no.4, 50 arXiv:2001.07680
51. M. Wittner, G. Laverda, O. F. Piattella and L. Amendola, *Transient weak gravity in scalar-tensor theories*, JCAP **07** (2020) 019, arXiv:2003.08950
52. K. A. Bronnikov, J. C. Fabris, O. F. Piattella, D. C. Rodrigues and E. C. O. Santos, *Rastall's theory of gravity: Spherically symmetric solutions and the stability problem*, Gen. Rel. Grav. **53** (2021) 2, 20, arXiv:2007.01945
53. O. F. Piattella, *Does the cosmological constant stay hidden?*, Phys. Rev. D **102** (2020) 10, 104039, arXiv:2007.02637
54. J. S. Martins, O. F. Piattella, I. L. Shapiro and A. A. Starobinsky, *Inflation with sterile scalar coupled to massive fermions and to gravity*, Grav.Cosmol. **28** (2022) 3, 217-227, arXiv:2010.14639
55. J. C. Fabris, O. F. Piattella, D. C. Rodrigues, D. C. Rodrigues and E. C. O. Santos, *A note on non-vanishing divergence of the stress-energy tensor in theories of gravity*, arXiv:2011.10503

56. L. Giani, E. Frion and O. F. Piattella, *Impact of inhomogeneities on slowly rolling quintessence: implications for the local variations of the fine-structure constant*, *Class. Quant. Grav.* **38** (2021) no.17, 175010, arXiv:2102.11735
57. L. Giani, O. F. Piattella and A. Y. Kamenshchik, *Bianchi IX gravitational collapse of matter inhomogeneities*, *JCAP* **03** (2022) no.03, 028, arXiv:2112.01869
58. P. Bessa and O. F. Piattella, *Gravitational Lensing in a Universe with matter and Cosmological Constant*, *Phys. Rev. D* **106** (2022) no.12, 123513, arXiv:2209.04063
59. L. Giani and O. F. Piattella, *Induced non-local cosmology*, *Phys. Dark Univ.* **40** (2023), 101219, arXiv:2302.06762
60. E. Frion, D. Camarena, L. Giani, T. Miranda, D. Bertacca, V. Marra and O. F. Piattella, *Bayesian analysis of a Unified Dark Matter model with transition: can it alleviate the H_0 tension?*, arXiv:2307.06320.
61. F. Scali and O. F. Piattella, *Asymptotically Schwarzschild Solutions in $f(R)$ Extension of General Relativity*, *Phys. Rev. D* **110** 064042, arXiv:2406.04417.
62. W. P. F. de Medeiros, D. Müller, O. F. Piattella, M. J. Lazo and D. A. Sales, *Tilt in quadratic gravity II*, *Eur. Phys. J. C* **85** (2025) no.11, 1333, arXiv:2502.03653.
63. E. Di Valentino *et al.* [CosmoVerse Network], *The CosmoVerse White Paper: Addressing observational tensions in cosmology with systematics and fundamental physics*, *Phys. Dark Univ.* **49** (2025), 101965, arXiv:2504.01669.
64. F. Re and O. F. Piattella, *Non-Zero Coriolis Field in Ehlers Frame Theory*, *Galaxies* **13** (2025) no.2, 38, arXiv:2504.08797.
65. L. Giani, R. Von Marttens and O. F. Piattella, *The matter with(in) CPL*, arXiv:2505.08467.
66. G. Bianchi, F. Re and O. F. Piattella, *Dark Coriolis Fields*, arXiv:2510.21470
67. A. Ghazale and O. F. Piattella, *More on the relativistic images produced in gravitational lensing*, arXiv:2512.00139.

Proceedings

1. A. A. Grib, Y. V. Pavlov, O. F. Piattella, *High energy processes in the vicinity of the Kerr's black hole horizon*, *Int. J. Mod. Phys. Conf. Ser.* **3**, 342 (2011), arXiv:1105.1540
2. M. H. Daouda, J. C. Fabris and O. F. Piattella, *Scalar models for the unification of the dark sector*, *AIP Conf. Proc.* **1471** (2012) 57-60, arXiv:1204.2298
3. J. C. Fabris, O. F. Piattella, D. C. Rodrigues, C. E. M. Batista and M. H. Daouda, *Rastall cosmology*, *Int. J. Mod. Phys. Conf. Ser.* **18**, 67 (2012), arXiv:1205.1198

4. D. C. Rodrigues, O. F. Piattella, J. C. Fabris and I. L. Shapiro, *Renormalization Group approach to Gravity: the running of G and L inside galaxies and additional details on the elliptical NGC 4494*, PoS DSU 2012 021, arXiv:1301.4148
5. J. C. Fabris, O. F. Piattella, D. C. Rodrigues, M. H. Daouda, *Rastall's Cosmology and its Observational Constraints*. Mar 22, 2014. 6 pp. Proceedings of the II CosmoSur conference, Valparaíso, Chile, 27 - 31 May 2013
6. D. C. Rodrigues, O. F. Piattella, J. C. Fabris and I. L. Shapiro, *Elliptical galaxies kinematics within general relativity with renormalization group effects*, Proceedings of VIII International Workshop on the Dark Side of the Universe (DSU 2012). June 10-15, 2012. Búzios, Rio de Janeiro, Brazil. Published online at <http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=161>
7. D. C. Rodrigues, B. Koch, O. F. Piattella and I. L. Shapiro, *The bending of light within gravity with large scale renormalization group effects*, AIP Conf. Proc. **1647** (2015) 57.
8. J. C. Fabris, O. F. Piattella, D. C. Rodrigues, B. Chauvineau and M. H. Daouda, *Introducing quantum effects in classical theories*, Int. J. Mod. Phys. A **31** (2016) no.02n03, 1641008, arXiv:1509.06806
9. J. C. Fabris, T. Miranda and O. F. Piattella, *An exponential correction to Starobinsky's inflationary model*, 2nd International Conference on Particle Physics and Astrophysics (ICPPA 2016), 10-14 Oct 2016. Moscow, Russia, arXiv:1611.05326
10. J. C. Fabris, T. Miranda and O. F. Piattella, *Variations on the Starobinsky Inflationary Model*, J. Phys. Conf. Ser. **798** (2017) no.1, 012092, doi:10.1088/1742-6596/798/1/012092

Books and chapters

1. Oliver F. Piattella, *Cosmology and Unified dark Matter: the Chaplygin gas and beyond*, ISBN 978-3-8443-8842-8, LAP Lambert Academic Publishing GmbH & Co, 2011.
2. Proceedings of the 1st Jose Plinio Baptista School of Cosmology: *Structure formation in an expanding Universe*, 2014, p. 277, J. C. Fabris, O. F. Piattella, D. C. Rodrigues, W. Zimdahl Editors, EDUFES
3. J. C. Fabris, O. F. Piattella, D. C. Rodrigues, H. E. S. Velten and W. Zimdahl, *The Cosmic Microwave Background*, Astrophys. Space Sci. Proc. **45** (2016)
4. D. Wands, O. F. Piattella and L. Casarini, *Physics of the Cosmic Microwave Background Radiation*, Astrophys. Space Sci. Proc. **45** (2016) 3, arXiv:1504.06335
5. O. F. Piattella, *Lecture Notes in Cosmology*, UNITEXT for Physics, Springer International Publishing (2018), ISBN 978-3-319-95569-8, arXiv:1803.00070.