# List of Publications

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| 1. Books<br>2. Edited books and special issues of journals<br>3. Translations<br>4. Journal articles<br>5. Books chapters (including Conferences‘ proceedings)<br>6. Other scholarly works<br>7. Reviews<br>8. Published abstracts<br>9. Posters | |

**1. Books**

1. Bussotti, P., 1994, *Periodici livornesi dal 1861 al 1870*, (Italian. Translation: “Periodicals published in Livorno in the period 1861-1870”), Comune di Livorno.
2. Bussotti, P., 1997, *Giuseppe Veronese e i fondamenti della matematica*, (Italian. Translation: “Giuseppe Veronese and the foundations of mathematics”), Pisa, ETS.
3. Bussotti, P. (in collaboration with S. Paolini), 1997, *Pierre de Fermat e la discesa indefinita* (Preface by Imre Toth), (Italian. Translation “Pierre de Fermat and the infinite descent”), Pisa, ETS.
4. Bussotti, P., 2000, *Periodici livornesi dal 1871 al 1886*, (Italian. Translation: “Periodicals published in Livorno in the period 1871-1886”), Comune di Livorno.
5. Bussotti, P., 2006, *From Fermat to Gauss: indefinite descent and methods of reduction in number theory*, Rauner Verlag, Augsburg.
6. Bussotti, P., 2006, “*Un mediocre lettore”; le letture e le idee di Federigo Enriques*, (Italian. Translation: “A mediocre reader; the readings and the ideas of Federigo Enriques”), Agorà publishing, Lugano.
7. Bussotti, P., 2008, *Problems and methods at the origin of the theory of numbers*,

Accademia Pontaniana, Napoli.

8. Bussotti, P. (In collaboration with A. Scimone), 2009, *Sulle orme di Fermat. Il teorema dei numeri poligonali e la sua dimostrazione.* (Italian. Translation: "On Fermat's traces. The polygonal number theorem and its demonstration"), Agorà publishing, Lugano.
9. Bussotti, P., 2015, *The Complex Itinerary of Leibniz's Planetary Theory: Physical Convictions, Metaphysical Principles and Keplerian Inspiration*, Springer-Birkhäuser Verlag, Basel.
10. Bussotti, P., 2017, *Leibniz. Dal calcolo infinitesimale al linguaggio dei computer* (Italian. English translation: "Leibniz. From the infinitesimal calculus to the computer language), Series "Grandangolo scienza", *Corriere della Sera*, RCS MediaGroup S.p.A., Milano.
11. Bussotti, P. (In collaboration with B. Lotti), 2022, *Cosmology in the Early Modern Age: A Web of Ideas*. Cham: Springer.

**2. Edited books and special issues of journals**

1. *Federigo Enriques e la cultura europea* (Italian. Translation: "Federigo Enriques and the European culture"), Agorà publishing, Lugano, 2008.

   CONTRIBUTORS: Ciro Ciliberto, Giorgio Bolondi, Enrico Castelli Gattinara, Paolo Bussotti, Ferdinando Abbri, Tina Nastasi, Mario Castellana, Gaspare Polizzi, Jean Petitot, Imre Toth, Eric Eméry.

2. G*eometria, intuizione, esperienza* (Italian. Translation: "Geometry, intuition, experience"), PLUS, Pisa, 2010.

   CONTRIBUTORS: Paolo Bussotti, Michel Bitbol, Giuseppe Longo, Jean Petitot, Paolo Parrini, Ornella Pompeo Faracovi, Fabio Minazzi, Gaspare Polizzi, Alberto Peruzzi.

3. (In collaboration with Raffaele Pisano) Journal *Philosophia Scientiae*, Special issue *Hommage to Galileo Galilei 1564-2014. Reading Iuvenilia Galilean Works within History and Historical Epistemology of Science*, vol. 21, Cahier 1.

   CONTRIBUTORS: Gerhard Heinzmann, Raffaele Pisano, Paolo Bussotti, Francesco Crapanzano, Antonino Drago, Raymond Fredette, Romano Gatto, Gennady Gorelik, Jean-Marc Lévy-Leblond, Robertode Andrade Martins, Walmir Thomazi Cardoso, Marco M. Massai, Annibale Mottana.

4. (In collaboration with Raffaele Pisano, Michel Fichant, Agamenon R. E. Oliveira) *The Dialogue between Sciences, Philosophy and Engineering. New Historical and*

*Epistemological Insights. Homage to Gottfried W. Leibniz 1646-1716*, College Publications, 2017.

CONTRIBUTORS: Eberhard Knobloch (preface), Raffaele Pisano and Paolo Bussotti (Introduction), Jacob Archambault, Mattia Brancato, Paolo Bussotti and Raffaele Pisano, Davide Crippa, Antonino Drago, Giovanni Ferraro, Glenn A. Hartz, Joseph Kouneiher, Vladik Kreinovich and Guoqing Liu, Montgomery Link, Leone Montagnini, Agamenon Rodrigues Eufrásio Oliveira, Anne Michel Pajus and David Rabouin, Miguel Palomo, Ana-Maria Pascal, Tzuchien Tho, Friedel Weinert.

5. (In collaboration with Danilo Capecchi and Pasquale Tucci). *Proceedings of the SISFA 42nd Annual Conference Perugia, 26-29 September 2022*., pp. 141-146. Pisa: Pisa University Press, 2023.

**3. Translations**

1. Galileo Galilei, *Sidereus Nuncius*. Translation from Latin into Italian with commentary and postface, Pacini, Pisa, 2001.
2. (In collaboration with Raffaele Pisano). Translation from English into Italian and commentary of Eric Scerri, *A tale of seven elements* (translation: *Un racconto di sette elementi*), Ariccia (Roma), Aracne, 2017.

**4. Journal articles**

1. Bussotti, P., 1997, La concezione del numero di Bolzano nella *Reine Zahlenlehre***,** (Italian. Translation: "Bolzano's concept of number in the *Reine Zahlenlehre*"),1997, in *Le scienze e il loro insegnamento*, XXXIV, 1-2, pp. 81-91.
2. Bussotti, P., 1997, Alcune note sulla gnoseologia husserliana della *Philosophie der Arithmetik*, con particolare riferimento al concetto di numero, (Italian. Translation: "Some notes concerning Husserl's gnoseology of *Philosophie der Arithmetik* particularly with regard to the concept of number"), in *Teoria*, XVII, 2, pp. 119-133.
3. Bussotti, P., 1997, Il significato sociale del pensiero di Wittgenstein e Husserl, (Italian. Translation: "The social meaning of Wittgenstein's and Husserl's thought"), in *Confronto*, VI, pp. 39-55.
4. Bussotti, P., 1998, Il problema dei fondamenti della matematica negli scritti giovanili di Bernhard Bolzano, (Italian with a summary in English. Translation: "The problem of foundations of mathematics in the early works of Bernhard Bolzano"), in

*Epistemologia*, XXI, n. 2, pp. 225-244.

5. Bussotti, P., 2000, Aritmetica e aritmetizzazione. La via indicata da Gauss e Kronecker, (Italian with a summary in English. Translation: "Arithmetic and arithmetization. The way indicated by Gauss and Kronecker"), in *Epistemologia* XXIII, pp. 23-50.

6. Bussotti, P., 2000, Il problema dei fondamenti della matematica all'inizio dell'Ottocento. Due linee di pensiero: Bolzano e Gauss, (Italian. Translation: "The problem of foundations of mathematics at the beginning of the 19th century. Two lines of thought: Bolzano and Gauss"), in *Teoria*, XX/1, pp. 83-95.

7. Bussotti, P., 2000, "Ogni numero primo della forma 4n+1 è la somma di due quadrati": storia dei metodi dimostrativi usati per provare un teorema, (Italian with a summary in English. Translation: "Every prime number of the form 4n+1 is the sum of two squares: history of demonstrative methods used to prove a theorem"), in *L'insegnamento della matematica e delle scienze integrate*, 23A, pp. 27-63.

8. Bussotti, P., 2000, Un tema fondamentale del pensiero scientifico e filosofico: il continuo visto come limite del discreto, (Italian. Translation: "A fundamental theme of the scientific and philosophical thought: the *continuum* seen as a limit of the discrete"), in *Confronto*, XI, pp. 135-147.

9. Bussotti, P., 2001, La figura di Galilei e l'importanza del *Sidereus Nuncius* all'inizio del Seicento, (Italian. Translation. "The figure of Galilei and the importance of the *Sidereus Nuncius* at the beginning of the 17th century"), in *Rivista del Comune di Livorno*, n. 33, pp. 44-58.

10. Bussotti, P., 2001, Considerazioni sul concetto di scienza, (Italian. Translation: "Reflections on the concept of science"), in *Sentieri*, I, n. 1, pp. 83-88.

11. Bussotti, P., 2001, I problemi geometrici classici non risolubili con riga e compasso, (Italian. Translation: "The classical geometrical problems which cannot be solved by rule and compass"), 2001, in *Nuova Secondaria*, 10, 15 June 2001, pp. 53-54 and 59-64; 3, 15 November 2001, pp. 101-108.

12. Bussotti, P., 2001, Nuovi algoritmi per decomporre particolari classi di numeri primi in somme di quadrati e per decomporre ogni numero in *n* numeri poligonali di n angoli, con $n>3$, (Italian with an English summary. Translation: "New algorithms to decompose particular classes of prime numbers in the sum of squares and to decompose every number in the sum of *n* polygonal numbers with *n* angles, $n>3$), in *L'insegnamento della*

*matematica e delle scienze integrate*, April, pp. 165-183.

13. Bussotti, P., 2002, Alcuni aspetti del pensiero di Federigo Enriques e la nascita del centro Enriques (Italian. Translation: "Some aspects of Federigo Enriques's thought and the birth of the Centro Enriques"), in *Rivista di storia della filosofia*, 4, pp. 621-625.

14. Bussotti, P., 2002, I giornali livornesi nel periodo 1861-1900, (Italian. Translation: "The periodicals published in Livorno in the period 1861-1900") in *Rassegna Storica Toscana*, XLVIII, 2002, 1, pp. 249-260.

15. Bussotti, P. (In collaboration with D. Palladino), 2002, Il principio di induzione 1. Storia e ruolo, (Italian. Translation: "The principle of mathematical induction 1. History and role"), in *Nuova Secondaria*, 2, 15 October 2002, pp. 41-51.

16. Bussotti P. (In collaboration with L. Bussotti), 2002, Le basi culturali dell'etnocentrismo occidentale, (Italian. Translation: "The cultural bases of the Western ethnocentrism"), in *Confronto*, VIII, 15, pp. 11-36.

17. Bussotti, P., 2003, La teoria aritmetica di Euclide, (Italian. Translation: "The arithmetical theory of Euclid"), in *Nuova Secondaria*, 5, 15 January 2003, pp. 84-89.

18. Bussotti, P., 2003, L'aritmetica di Diofanto, (Italian. Translation: "The arithmetic of Diophantus"), in *Nuova Secondaria*, 8, 15 aprile 2003, pp. 79-84.

19. Bussotti, P., 2003, The origin of the Lagrange multipliers, in *Journal of optimization theory and applications*, July 2003, pp. 455-459.

20. Bussotti, P., 2003, Il contributo di Fibonacci alla teoria dei numeri.1, (Italian. Translation: "Fibonacci's contribution to number theory. 1"), in *Nuova Secondaria*, 3, 15 November 2003, pp. 77-80.

21. Bussotti, P., 2004, Il contributo di Fibonacci alla teoria dei numeri.2, (Italian. Translation: "Fibonacci's contribution to number theory. 2"), in *Nuova Secondaria*, 6, 15 February 2004, pp. 83-86.

22. Bussotti, P., 2004, L'opera aritmetica di Francesco Maurolico, (Italian. Translation: "Francesco Maurolico's arithmetical work"), in *Nuova Secondaria*, 7, 15 March 2004, pp. 79-83.

23. Bussotti, P, 2004, Viète e Bachet: le ricerche sui numeri tra '500 e inizio del '600, (Italian. Translation: "Viète and Bachet: the research on the numbers between the 16th and the 17th century"), in *Nuova Secondaria*, 9, 15 May 2004, pp. 81-87.

24. Bussotti, P., 2004, Il Triangulus Arithmeticus di Pascal, (Italian. Translation: "Pascal's Triangulus Arithmeticus"), in *Nuova Secondaria*, 2, 15 October 2004, pp. 75-81.

25. Bussotti, P., 2004, Geschichte der Zahlentheorie. Der "unendliche Abstieg" von Fermat bis Gauss, (German. Translation: "History of number theory: the *infinite descent* from Fermat to Gauss"), in *Humboldt Kosmos*, 84, December 2004, p. 37.

26. Bussotti, P., 2006, La crisi del concetto di causa nelle scienze esatte tra XIX e XX secolo, (Italian. Translation: "The crisis of the cause-concept in exact sciences between the XIX and the XX century"), in *Rivista della Scuola superiore dell'economia e delle finanze*, III, n. 3, marzo 2006, pp. 50-87.

27. Bussotti, P., 2006, La teoria dei numeri di Fermat e i suoi segreti, (Italian. Translatin "Fermat's number theory and its secrets"), in *Rivista della Scuola superiore dell'economia e delle finanze*, maggio 2006, web page: www.rivista.ssef.it/.

28. Bussotti, P., 2006, La teoria dei numeri di Fermat e la discesa indefinita, (Italian. Translation: "Fermat's number theory and indefinite descent"), in *Nuova Secondaria*, 10, 15 giugno 2006, pp. 103-112.

29. Bussotti, P., 2007, Il concetto di archetipo in Jung: origine, significato e rapporto con le altre scienze, (Italian. Translation: "The concept of archetype in Jung: origin, meaning, and relation to other sciences"), in *Sentieri*, VII, pp. 81-101.

30. Bussotti, P., 2008, Il concetto di progresso in matematica, (Italian. Translation: The concept of progress in mathematics), in *Leussein*. *Rivista di studi umanistici*, Anno I, n. 2, pp, 51-94.

31. Bussotti, P. (In collaboration with F. Boockmann, D. Di Liscia, G. Oestmann), 2008, Nicht das Kind mit dem "Badt aussschuetten". Die Astrologie dei Kepler, Rantzau und Galilei, in *Akademie aktuelle* (journal of the Bavarian Academy of Sciences), pp. 51-60, 04/2008.

32. Bussotti, P (In collaboration with C. Tapp), 2009, The influence of Spinoza's concept of infinity on Cantor's set theory, in *Studies in History and Philosophy of Science*, 40, 1, pp. 25-35.

33. Bussotti, P. (In collaboration with A. Scimone), 2009, Tutto è poligonale! Storia secolare ma a lieto fine di un "mistero numerico" di Fermat (Italian. Translation: "Everything is polygonal: centuries old but happy ending history of a numerical mystery by Fermat"),

in *Lettera Matematica Pristem*, first part, 72, pp. 41-48, second part, 73, pp. 47-52.

34. Bussotti, P., 2009, Distanze terrestri, distanze celesti: la misurazione del mondo, (Italian. Translation: "Terrestrial distances, celestial distances: the measurement of the universe"), in *Leussein. Rivista di studi umanistici*, II, 3, pp. 7-30.

35. Bussotti, P., 2012, Federigo Enriques e la didattica della matematica (Italian. Translation: "Federigo Enriques and mathematics education"), in *Euclide. Giornale di matematica per i giovani*. Electronic journal. First part February 2012, second part April 2012. web site: http://www.euclide-scuola.org/.

36. Bussotti, P. (In collaboration with R. Pisano), 2012, Galileo and Kepler: On Theoremata Circa Centrum Gravitatis and Mysterium Cosmographicum, in *History Research*, Volume 2, Number 2, February 2012, pp. 110-145.

37. Bussotti, P., 2012, History and didactics of mathematics: a problematic relation. Some considerations based on Federigo Enriques's ideas, in *Problems of Education in the 21th Century*, 48, 2012, pp. 5-9.

38. Bussotti, P. (In collaboration with R. Pisano), 2012, Open problems in mathematical modelling and physical experiments: exploring exponential function, in *Problems of Education in the 21th Century*, 50, 2012, pp. 56-69.

39. Bussotti, P., 2013, Vittorio Checcucci and his contributions to mathematics education: a historical overview, in *Problems of Education in the 21th Century*, 53, pp. 22-39.

40. Bussotti, P. (In collaboration with R. Pisano) 2013, On the Conceptual and Civilization Frames in René Descartes' *Physical Works*, in *Advances in Historical Studies*, Vol. 2, No. 3, pp. 106-125. Published Online September 2013 in SciRes (http://www.scirp.org/journal/ahs).

41. Bussotti, P., 2013, A possible role for history of mathematics and science in mathematics and science education, in *Journal of Baltic Science Education*, 12 (6), pp. 712-715.

42. Bussotti, P. (In collaboration with R. Pisano), 2013, On popularization of Scientific Education in Italy between 12$^{th}$ and 16$^{th}$ Century, in *Problems of Education in the 21th Century*, 57, pp. 90-101.

43. Bussotti, P., 2013, L'insegnamento della matematica nella scuola secondaria superiore dall'unificazione alla riforma Gentile (Italian. Translation: "The teaching of mathematics in high school since Italian unification to the *Riforma Gentile*"), in *Annali*

*di storia dell'educazione*, n. 20., pp. 241-264.

44. Bussotti, P. (In collaboration with R. Pisano), 2014, On the *Jesuit Edition* of Newton's *Principia*. Science and Advanced Researches in the Western Civilization, in *Advances in Historical Studies*, Vol. 3, No.1, pp. 33-55. Published Online February in SciRes (http://www.scirp.org/journal/ahs).
45. Bussotti, P., 2014, The scientific revolution of the 17th century. The aspects connected to physics and astronomy: an educational itinerary in seven lessons, *Problems of Education in the 21st Century*, 58, pp. 5-12.
46. Bussotti, P., 2014, Infinity: an interdisciplinary access key to philosophical education through mathematics, *Problems of Education in the 21st Century*, 60, pp. 5-9.
47. Bussotti, P., 2014 (In collaboration with R. Pisano), Notes on mechanics and mathematics in Torricelli as physics-mathematics relationship in the history of science, in*, Problems of Education in the 21st Century*, 61, pp. 88-97.
48. Bussotti, P., 2014 (In collaboration with R. Pisano), Newton's *Philosophiae Naturalis Principia Mathematica* "Jesuit" Edition: The Tenor of a Huge Work, in *Rendiconti Lincei: Matematica e Applicazioni*, 25, 4, pp. 413-444.
49. Bussotti, P., 2014 (In collaboration with R. Pisano), Historical and Epistemological Reflections on the Culture of Machines around the Renaissance: How Science and Technique Work?, First part, in *Acta Baltica Historiae et Philosophiae Scientiarum*, Vol. 2, No. 2 (Autumn 2014), pp. 20-42. DOI: 10.11590/abhps.2014.2.02.
50. Bussotti P., 2014 (In collaboration with R. Pisano), Galileo a Padova: un itinerario tra, architettura, fortificazioni, matematica e scienza "pratica" (Italian. Translation: "Galileo in Padua: an itinerary among architecture, fortifications, mathematics and 'practical' science"), in *Lettera Matematica Pristem*, 91, pp. 48-58.
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53. Bussotti, P., 2015 (In collaboration with R. Pisano), The Geometrical Foundations of

Federigo Enriques' Gnoseology and Epistemology, in *Advances in Historical Studies*, 4, pp. 118-145. http://dx.doi.org/10.4236/ahs.2015.42012.

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55. Bussotti, P., 2015, Differential calculus: the use of Newton's *Methodus Fuxionum et Serierum infinitarum* in an education context, in *Problems of Education in the 21th Century*, 69, pp. 39-65.
56. Bussotti, P., 2015, The teaching of History of Science at the University: some brief Considerations, in *Journal of Baltic Science Education*, 14, 5, pp. 564-568.
57. Bussotti, P. (In collaboration with Raffaele Pisano), 2015, Fibonacci and the Abacus Schools in Italy. Mathematical Conceptual Streams-Education in its Changing Relationship with Society, in *Almagest*, 6, 2, pp. 126-164.
58. Bussotti, P. 2015, Leonardo Pisano called Fibonacci, between advanced mathematics, history of mathematics and mathematics education: three examples drawn from *Liber Quadratorum*, in *Annales Universitatis Paedagogicae Cracoviensis. Studia ad Didacticam Mathematicae Pertinentia*, VII, pp. 5-25.
59. Bussotti, P. 2016, La concezione dell'infinito in Federigo Enriques (Italian. English translation: "Federigo Enriques' conception of infinity"), in *Matematica, Cultura e Società, Rivista dell'Unione Matematica Italiana*, Serie 1, Vol. 1, N. 1, pp. 65-86.
60. Bussotti, P. (In collaboration with Raffaele Pisano), 2016, A Newtonian tale details on notes and proofs in Geneva edition of Newton's Principia, in *BSHM Bulletin Journal of the British Society for the History of Mathematics* DOI: 10.1080/17498430.2016.1183182.
61. Bussotti, P. (In collaboration with Matteo Casarosa), 2016, Filosofia e didattica della matematica in Francesco Cecioni (Italian. English translation: "Philosophy and didactics of mathematics in Francesco Cecioni), in *Nuova Secondaria*, 3, novembre 2016, pp. 78-80.
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64. Bussotti, P. (In collaboration with Raffaele Pisano), 2017, The Fiction of Infinitesimals in Newton's Works. On the Metaphorical use of Infinitesimals in Newton, in *Isonomia – Epistemologica*, vol. 9. Special issue entitled *Reasoning, Metaphors and Science* (Eds. F. Marcacci, M.G. Rossi), pp. 141-160.
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68. Bussotti, P., 2019, Michel Chasles' foundational programme for geometry until the publication of his Aperçu historique, *Archive for History of Exact Sciences*, 73, 3, pp. 261-308.
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78. Bussotti, P. 2022, Cantor e il fascino dell'infinito (first part) (Italian. English translation: "Cantor and the fascination of infinity). *Nuova Secondaria*, 8, pp. 82-85.
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**5. Books chapters (including Conferences' Proceedings)**

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