

Paolo Maria Mariano's list of publications

June 19th, 2022

1 Monographs

1. Mariano P. M., Galano L. (2015), *Fundamentals of the Mechanics of Solids*, Birkhäuser, Boston. [An Italian enlarged edition *Fondamenti di Meccanica dei Solidi* has been published in 2017 by Bollati-Boringhieri.]
2. Mariano P. M. (2022), *Mathematical Representation of Plasticity and other Material Mutations*, Amer. Math. Soc. (under completion).
3. Mariano P. M. (2022), *Elements of Multi-Field Theories for Complex Materials*, Birkhäuser-Springer, (under completion).

2 Journal papers

1. Mariano P. M. (1994), Discussion on J. M. Zhang and K. Y. Lam, "On material symmetry and deformation-induced anisotropy", *Meccanica*, **29**, 217-220.
2. Mariano P. M. (1995), Fracture in structured continua, *Int. J. Damage Mech.*, **4**, 283-289.
3. Augusti G., Mariano P. M. (1996), Introduction to computational methods of damage dynamics under stochastic actions, *Prob. Eng. Mech.*, **11**, 107-112.
4. Mariano P. M. (1996), Nöther's theorem in the elastic dynamics of microcracked bodies, *Mech. Res. Comm.*, **23**, 233-238.
5. Mariano P. M., Augusti G. (1997), Some axioms and theorems in damage mechanics and fatigue of materials, *Int. J. Solids Struct.*, **34**, 3337-3350.

6. Mariano P. M. (1997), Natural entropies in the state space of damaged bodies, *ZAMP - Zeit. angew. Math. Phys.*, **48**, 1002-1011.
7. Mariano P. M. (1998), On the axioms of plasticity, *Int. J. Solids Struct.*, **35**, 1313-1324.
8. Mariano P. M., Bernardini D. (1998), Flow rules for porous elastic-plastic materials, *Mech. Res. Comm.*, **25**, 443-448.
9. Mariano P. M., Augusti G. (1998), Multifield description of microcracked continua. A local model, *Math. Mech. Solids*, **3**, 237-254.
10. Mariano P. M., Augusti G. (1998), Ordering and transport in generalized continua with arbitrary order parameters, *J. de Phys.*, **IV Pr8**, 223-230.
11. Augusti G., Mariano P. M. (1999), Stochastic evolution of microcracks in continua, *Comp. Meth. Appl. Mech. Eng.*, **168**, 155-171.
12. Mariano P. M. (1999), Some remarks on the variational description of microcracked bodies, *Int. J. Non-Linear Mech.*, **34**, 633-642.
13. Mariano P. M., Trovalusci P. (1999), Constitutive relations for elastic microcracked bodies: from a lattice model to a multifield continuum description, *Int. J. Damage Mech.*, **8**, 153-173.
14. Mariano P. M. (2000), Configurational forces in continua with microstructure, *ZAMP - Zeit. angew. Math. Phys.*, **51**, 752-791.
15. Mariano P. M., Sabatini L. (2000), Homothermal acceleration waves in multifield theories of continua, *Int. J. Non-Linear Mech.*, **35**, 963-977.
16. Mariano P. M. (2001), Coherent interfaces with junctions in continua with microstructure, *International Int. J. Solids Struct.*, **38**, 1243-1267.
17. Mariano P. M., Augusti G. (2001), Basic topics on damage pseudo-potentials, *Int. J. Solids Struct.*, **38**, 1963-1974.
18. Mariano P. M., Stazi F. L. (2001), Strain localization in elastic microcracked bodies, *Comp. Meth. Appl. Mech. Eng.*, **190**, 5657-5677.
19. Davì F., Mariano P. M. (2001), Evolution of domain walls in ferroelectric solids, *J. Mech. Phys. Solids*, **49**, 1701-1726.
20. Mariano P. M. (2002), Multifield theories in mechanics of solids, *Adv. Appl. Mech.*, **38**, 1-93.
21. Mariano P. M. (2002), A note on Ceradini-Capurso-Maier's theorem in plasticity, *Int. J. Plast.*, **18**, 1749-1773.
22. Mariano P. M., Giofrè, Stazi F. L., Augusti G. (2002), Microcracked bodies with random properties: a preliminary investigation on localization phenomena, *Comp. Struct.*, **80**, 1027-1047.
23. Mariano P. M. (2003), Cancellation of vorticity in steady-state non-isentropic flows of complex fluids, *J. Phys. A*, **36**, 9961-9972.
24. Capriz G., Mariano P. M. (2003), Symmetries and Hamiltonian formalism for complex materials, *J. Elas.*, **72**, 57-70. [Reprinted in *The Rational Spirit in Modern Continuum Mechanics (Essays and Papers Dedicated to the Memory of*

- Clifford Ambrose Truesdell III*), C.-S. Man, R. Fosdick Ed.s, Kluwer-Springer, 127-140.]
25. Mariano P. M. (2004), Consequences of "changes" of material metric in simple bodies, *Meccanica*, **39**, 77-79.
 26. Mariano P. M. Giofrè, Stazi F. L., Augusti G. (2004), Elastic microcracked bodies with random properties, *Prob. Eng. Mech.*, **19**, 127-143.
 27. Mariano P. M., Casciola C. M., De Angelis E. (2004), Substructural interactions and transport in polymer flows, *Int. J. Non-Linear Mech.*, **39**, 457-465.
 28. Mariano P. M., Stazi F. L. (2004), Strain localization due to crack- microcrack interactions: X-FEM for a multifield approach, *Comp. Meth. Appl. Mech. Eng.*, **193**, 5035-5062.
 29. Mariano P. M. (2004), Some thermodynamical aspects of the solidification of two-phase flows, *Meccanica*, **4**, 369-382.
 30. Mariano P. M., Stazi F. L., Augusti G. (2004), Phason effects around a crack in Al- Pb - Mn quasicrystals: stochastic aspects of the phonon-phason coupling, *Comp. Struct.*, **82**, 971-983.
 31. Mariano P. M. (2005), Influence of material substructure on crack propagation: a unified treatment, *Proc. Royal Soc. London A*, **461**, 371-395.
 32. de Fabritiis C., Mariano P. M. (2005), Geometry of interactions in complex bodies, *J. Geom. Phys.*, **54**, 301-323.
 33. Mariano P. M. (2005), SO(3) invariance and covariance in mixtures of simple bodies, *International Int. J. Non-Linear Mech.*, **40**, 1023-1030.
 34. Mariano P. M., Stazi F. L. (2005), Computational aspects of the mechanics of complex materials, *Arch. Comp. Meth. Eng.*, **12**, 391-478.
 35. Mariano P. M. (2005), Migration of substructures in complex fluids, *J. Phys. A*, **38**, 6823-6839.
 36. Mariano P. M. (2005), Walk of a line defect in quasicrystals, *Meccanica*, **40**, 511-525.
 37. Mariano P. M. (2006), Mechanics of quasi-periodic alloys, *J. Nonlinear Sci.*, **16**, 45-77.
 38. Mariano P. M., Stazi F. L., Giofrè (2006), Stochastic clustering and self-organization of gross deformation and phason activity in quasicrystals: modeling and simulations, *J. Comp. Theor. Nanosci.*, **3**, 478-486. [This paper has been highlighted on the pertinent issue cover.]
 39. Mariano P. M. (2007), Geometry and balance of hyperstresses, *Rend. Lincei*, **18**, 311-331.
 40. Capriz G., Mariano P. M. (2007), Symmetries and Poisson structures for complex materials, *J. Mech. Behav. Mat.*, **18**, 89-96.
 41. Mariano P. M. (2007), Thermodynamic stability for materials with substructure, *J. Mech. Behav. Mat.*, **18**, 97-104.

42. Mariano P. M. (2007), Representation of material elements and geometry of substructural interactions, *Quad. Mat.*, **20**, 80-100.
43. Mariano P. M. (2008), Cracks in complex bodies: covariance of tip balances, *J. Nonlinear Sci.*, **18**, 99-141.
44. Mariano P. M. (2008), Mechanics of complex bodies: commentary on the unified modelling of material substructures, *Theor. Appl. Mech.*, **35**, 233-251.
45. Focardi M., Mariano P. M. (2008), Convergence of asynchronous variational integrators in linear elastodynamics, *Int. J. Num. Meth. Eng.*, **75**, 755-769.
46. Augusti G., Mariano P. M., Stazi F. L. (2009), Semi-dense and concentrated fullerene-based composites: microdeformation and strain gradient effects, *J. Mech. Behav. Mat.*, **19**, 125-133.
47. Mariano P. M., Modica G. (2009), Ground states in complex bodies, *ESAIM - Contr. Optim. Calc. Var.*, **15**, 377-402.
48. Focardi M., Mariano P. M. (2009), Discrete dynamics of complex bodies: variational integrators and convergence, *Disc. Cont. Dyn. Syst. B*, **11**, 109-130.
49. Mariano P. M., Paoletti P. (2009), Complex bodies with memory: linearized setting, *Math. Meth. Appl. Sci.*, **32**, 1041-1067.
50. Mariano P. M. (2009), The relative power and its invariance, *Rend. Lincei*, **20**, 227-242.
51. Mariano P. M. (2010), Physical significance of the curvature varifold-based description of crack nucleation, *Rend. Lincei*, **21**, 215-233.
52. Giaquinta M., Mariano P. M., Modica G., Mucci D. (2010), Ground states of simple bodies that may undergo brittle fracture, *Physica D*, **239**, 1485-1502.
53. Radi E., Mariano P. M. (2010), Stationary straight cracks in quasicrystals, *Int. J. Frac.*, **166**, 105-120.
54. Giaquinta M., Mariano P. M., Modica G. (2010), A variational problem in the mechanics of complex materials, *Disc. Cont. Dyn. Syst. A*, **28**, 519-537.
55. Mariano P. M. (2010), Spin field topological linear defects in quasicrystals with magnetic order, *Phys. Lett. A*, **375**, 80-83.
56. Radi E., Mariano P. M. (2011), Dynamic steady state crack propagation in quasicrystals, *Math. Meth. Appl. Sci.*, **34**, 1-23.
57. Colli S., Mariano P. M. (2011), The standard description of quasicrystal linear elasticity may produce non-physical results, *Phys. Lett. A*, **375**, 3335-3339.
58. Radi E., Mariano P. M. (2011), Steady-state propagation of dislocations in quasicrystals, *Proc. Royal Soc. London A*, **467**, 3490-3508.
59. Mariano P. M. (2012), Crystal plasticity: the Hamilton-Eshelby stress in terms of the metric in the intermediate configuration, *Theor. Appl. Mech.*, **39**, 55-69.
60. Mariano P. M. (2012), Line defect evolution in finite-dimensional manifolds, *Disc. Cont. Dyn. Syst. B*, **17**, 575-596.
61. Mariano P. M., Planas J. (2013), Self-actions in quasicrystals, *Physica D*, **249**, 46-57.

62. Mariano P. M. (2013), Covariance in plasticity, *Proc. Royal Soc. London A*, **469**, art. n. 20130073 (1-17).
63. Bacci M., Mariano P. M. (2014), Protein dynamics: an approach based on the Cauchy-Born rule, *Physica E*, **61**, 69-82.
64. Mariano P. M. (2014), Mechanics of material mutations, *Adv. Appl. Mech.*, **47**, 1-91.
65. Capriz G., Mariano P. M. (2014), Objective fluxes in a multi-scale continuum description of sparse medium dynamics, *Physica A*, **415**, 354-365.
66. Mariano P. M., Salvatori L. (2015), Spatial decay of the phason field in quasicrystal linear elasticity, *Mod. Sim. Mat. Sci. Eng.*, **23**, art. n. 045004 (1-19).
67. Focardi M., Mariano P. M., Spadaro E. N. (2015), Multi-value microstructural descriptors for complex materials: analysis of ground states, *Arch. Rational Mech. Anal.*, **215**, 899-933.
68. Giaquinta M., Mariano P. M., Modica G. (2015), Stress constraints in simple bodies undergoing large strain: a variational approach, *Proc. Royal Soc. Edinburgh*, **145A**, 1-32.
69. Mariano P. M. (2016), Trends and challenges in the mechanics of complex materials: a view, *Phil. Trans. Royal Soc. London A*, **374**, art. n. 20150341 (1-31).
70. Mariano P. M. (2017), Second-neighbor interactions in classical field theories: invariance of the relative power and covariance, *Math. Meth. Appl. Sci.*, **40**, 1316-1332.
71. Bisconti L., Mariano P. M. (2017), Existence results in the linear dynamics of quasicrystals with phason diffusion and non-linear gyroscopic effects, *SIAM Multiscale Mod. Sim.*, **15**, 745-767.
72. Mariano P. M. (2017), Finite-speed heat propagation as a consequence of microstructural events, *Cont. Mech. Thermodyn.*, **29**, 1241-1248.
73. Bisconti L., Mariano P. M., Vespri V. (2018), Existence and regularity for a model of viscous oriented fluids regularized by second-neighbor spin-to-spin interactions, *J. Math. Fluid Mech.*, **20**, 655-682.
74. Mariano P. M. (2018), Equilibrium configurations of mixture thin films undergoing large strains, *Math. Meth. Appl. Sci.*, **41**, 479-489.
75. Capriz G., Mariano P. M. (2018), Multi-scale kinetic description of granular clusters: invariance, balance, and temperature, *Cont. Mech. Thermodyn.*, **30**, 1323-1342.
76. Masi F., Mariano P. M., Vannucci P. (2018), Blast actions in aircrafts: an integrated methodology for designing protection devices, *Eng. Struct.*, **175**, 895-911.
77. Mariano P. M. (2019), Mechanics of dislocations and metadislocations in quasicrystals and their approximants: power invariance and balance, *Cont. Mech. Thermodyn.*, **31**, 373-399.

78. Bisconti L., Mariano P. M., Markenscoff X. (2019), A model of isotropic damage with strain-gradient effects: existence and uniqueness of weak solutions for progressive damage processes, *Math. Mech. Solids*, **24**, 2726-2741.
79. Capriz G., Mariano P. M. (2019), Interactions in a multi-scale representation of sparse media: from mechanics to thermodynamics, *J. Elas.*, **135**, 91-115.
80. Bisconti L., Mariano P. M. (2020), Global existence and regularity for the dynamics of viscous oriented fluids, *AIMS Math.*, **5**, 79-95.
81. Mariano P. M. (2020), Flows of suspended grains: mixing a sparse phase with simple and complex media, *Int. J. Solids Struct.*, **187**, 141-161.
82. Capriz G., Mariano P. M. (2020), Preamble to the analysis of thermodynamic processes in sparse phases, *AAPP Atti Accad. Peloritana Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali*, **97**, art. n. A5.
83. Bacci M., Mariano P. M. (2021), Discrete-to-continuum description of protein dynamics: models and comparative simulations, *Mech. Mat.*, **154**, art. n. 103711 (13pp).
84. Bosi A., Mariano P. M., Salvatori L. (2021), Micro-to-macro interactions in complex bodies: wavelet-based post-processing detection, *Math. Meth. Appl. Sci.*, **44**, 10541-10563.
85. Capriz G., Wilmski K., Mariano P. M. (2021), Exact and approximate Maxwell-Cattaneo-type descriptions of heat conduction: A comparative analysis, *Int. J. Heat Mass Transf.*, **175**, art. n. 121362.
86. Bisconti L., Mariano P. M. (2021), Exact controllability of Faedo-Galerkin's scheme for the dynamics of fluids with spin-type structure, *J. Opt. Theory Appl.*, **193**, 737-759.
87. Bisconti L., Mariano P. M. (2022), Moving vesicles in elastic tissues: a model with existence and uniqueness of weak solutions, *Physica D*, **430**, art. n. 133079.
88. Mariano P. M., Polikarpus J., Spadini M. (2022), Solutions of linear and non-linear schemes for non-Fourier heat conduction, *Int. J. Heat Mass Transf.*, **183**, 122193.
89. Kruzik M., Mariano P. M., Mucci D. (2022), Crack occurrence in bodies with gradient polyconvex energies, *J. Nonlinear Sci.*, **32**, art. n. 16.
90. Mariano P. M., Spadini M. (2022), Sources of finite speed temperature propagation, *J. Non-Equil. Thermodyn.*, **47**, 165-178.
91. Mariano P. M., Bacci M. (2022), A discrete-to-continuum model for protein to complexes, *Biomech. Mod. Mechanobiology*, *in print* (available in the journal early view).
92. Zeka D., Catapano A., Mariano P. M., Montemurro M., Poupart R., Mondain-Monval O., Delcroix J., Rublon P. (2022), Non-linear homogenization of polymer composites with porous inclusions, *Mech. Mat.*, **168**, art. n. 104276.
93. Mariano P. M. (2022), Homogenization of complex lattices for metamaterials: open problems and conjectures, *Crystals*, **12**, art. n. 612.

94. Mariano P. M. (2022), Models and meta-models for interacting phenomena with social factors: a conceptual perspective, *AAPP Atti Accad. Peloritana Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali*, in print.

3 Preprints

1. Bisconti L., Mariano P. M. (2021), Global weak attractors and energy decay in the dynamics of bodies with vector-type microstructures, *submitted*.
2. Mariano P. M., Mucci D. (2021), Energy minima for bodies with distributed dislocations, *submitted*.
3. Mariano P. M., Mucci D. (2022), Cracking brittle thin films, *submitted*.
4. Berti D., Bisconti L., Mariano P. M. (2022), Influence of microstructural diffusion on energy decay in the dynamics of complex bodies, *submitted*.
5. Berti D., Bisconti L., Mariano P. M. (2022), Existence and uniqueness in the dynamics of complex bodies with memory, *submitted*.
6. Mariano P. M., Spadini M. (2022), Periodic solutions to perturbed nonlinear oscillators with memory, *submitted*.

4 Book chapters

1. Capurso M., Augusti G., Mariano P. M. (1999), Meccanica dei solidi, in *Manuale di Ingegneria Civile*, Zanichelli, Bologna, vol. 2, SC1-SC19.
2. Mariano P. M. (2000), Premises to a multifield approach to stochastic damage evolution, in *Damage and Fracture in Disordered Materials*, D. Krajcinovic, J. van Mier Ed.s, Springer Verlag, Berlin, 217-263.
3. Augusti G., Mariano P. M., Stazi F. L. (2002), Laws of evolution of cracks in plates in terms of stress resultants, in *New Approaches to Structural Mechanics, Shells and Biological Structures*, H. R. Drew, S. Pellegrino Ed.s, Kluwer Academic Publishers, Dordrecht, 43-56.
4. De Angelis E., Casciola C. M., Mariano P. M., Piva R. (2004), Microstructure and turbulence in dilute polymer solutions, in *Advances in Multifield Theories of Continua with Substructure*, G. Capriz, P. M. Mariano Ed.s, Birkhäuser Verlag, Basel, 127-149.
5. Capriz G., Mariano P. M. (2004), Balance at a junction among coherent interfaces in materials with substructure, in *Advances in Multifield Theories for Continua with Substructure*, G. Capriz, P. M. Mariano Ed.s, Birkhäuser, Boston, 243-263.
6. Mariano P. M. (2004), Lectures on substructural randomness in complex bodies, in *Random Material Microstructures*, K. Sobczyk Ed., Centre of Excellence for Advanced Materials and Structures, IPPT, Warsaw, 155-221.

7. Capriz G., Mariano P. M. (2004), Symmetries and Hamiltonian formalism for complex materials, in *The Rational Spirit in Modern Continuum Mechanics (Essays and Papers Dedicated to the Memory of Clifford Ambrose Truesdell III)*, C.-S. Man, R. Fosdick Ed.s, Kluwer-Springer, 127-140
8. Mariano P. M. (2007), Continua with spin structure, in *Material Substructures in Complex Bodies: From Atomic Level to Continuum*, G. Capriz, P. M. Mariano Ed.s, Elsevier, Amsterdam, 314-334.
9. Mariano P. M. (2008), Slow motion in granular matter, in *Mathematical Models of Granular Matter*, P. M. Mariano, G. Capriz, P. Giovine Ed.s, Lecture Notes in Mathematics, **1937**, Springer Verlag, Berlin, 193-210.
10. Giaquinta M., Mariano P. M., Modica G., Mucci D. (2010), Currents and curvature varifolds in continuum mechanics, in *Nonlinear Partial Differential Equations and Related Topics: A Volume Dedicated to Nina N. Ural'ceva*, Trans. Am. Math. Soc., Adv. Math. Series, **229**, 97-117.
11. Angotti F., Frosali G., Mariano P. M. (2014), Meccanica Razionale . . . quae per demonstrationes accurate procedit, in *E. Fermi, Meccanica Razionale, the first print of Fermi's lectures on Rational Mechanics in Florence University*, FUP, Firenze, 17-26.
12. Mariano P. M. (2015), Hyperstresses, relative power and invariance in second-grade classical field theories, in *Geometry, Integrability, Mechanics and Quantization*, I. Mladenov, M. Hadzhilazova, V. Kovalchuk Ed.s, Avangard Prima, Sofia, 280-305.
13. Mariano P. M. (2016), On the origin of balance equations in simple and complex continua: unified view, in *Continua with Microstructure 2*, B. Albers, M. Kuczma Ed., Springer Verlag, 53-76.
14. Mariano P. M. (2020), A multi-scale continuum view on granular matter, in *Views on Microstructures in Granular Materials*, P. Giovine, P. M. Mariano, G. Mortara Edts, Birkhäuser Springer, Boston, 251-280.

5 Didactic books in Italian

1. Angotti F., Mariano P. M. (2011), *Meccanica dei Solidi Elasto-Plastici*, Pitagora Editrice, Bologna.
2. Galano L., Mariano P. M. (2011), *Eserciziario di Meccanica delle Strutture*, COMPOMAT, Rieti.

6 Books and special issues edited

1. Capriz G., Mariano P. M. (2001), Multifield Theories, *Int. J. Solids Struct.*, **38**, issues 6-7, 939-1263.

2. Augusti G., Mariano P. M., Sepe V., Lacagnina M. (2001), *Proceeding of the XV AIMETA Congress of Theoretical and Applied Mechanics*, Taormina, September 26-29.
3. Capriz G., Mariano P. M. (2004), *Advances in Multifield Theories for Continua with Substructure*, Birkäuser, Boston, pp. 263.
4. Capriz G., Mariano P. M. (2005), Mechanics from Nano to Macroscopic Level, *Meccanica*, **40**, issues 4-6, 327-528.
5. Capriz G., Mariano P. M. (2007), *Material Substructures in Complex Bodies: from Atomic Level to Continuum*, Elsevier, Amsterdam, pp. 342.
6. Capriz G., Giovine P., Mariano P. M. (2008), Modeling Granularity, *Comp. Math. Appl.*, **55**, issue 2, 131-318.
7. Capriz G., Giovine P., Mariano P. M. (2008), *Mathematical Models of Granular Matter*, Lecture Notes in Mathematics, **1937**, pp. 232.
8. Mariani S., Mariano P. M., Venini P. (2009), Numerical Simulation of Discontinuities in Mechanics, *Algorithms*, MDPI, printed along all the 2009 issues.
9. Frosali G., Mariano P. M., Modica G. (2010), Evolution Equations in Pure and Applied Sciences, *Physica D*, **239**, issue 15, 1379-1502.
10. Focardi M., Mariano P. M. (2012), Analytical and Geometrical Problems in Continuum Mechanics, *Disc. Cont. Dyn. Sys. B*, **17**, issue 2, 445-733.
11. Mariano P. M. (2012), Perspectives in Continuum Mechanics, *Math. Meth. Appl. Sci.*, **35**, issue 15, 1737-1929.
12. Mariano P. M. (2016), Trends and Challenges in the Mechanics of Complex Materials, *Phil. Trans. Royal Soc. London A*, **374**, issue 2066.
13. Giovine P., Mariano P. M., Mortara G., Soga K. (2018), Progresses in Mechanics of Soils and General Granular Flows, *Meccanica*, **54**, issues 4-5, 595-748.
14. Giovine P., Mariano P. M., Mortara G. (2019), *Micro-to-MACRO Mathematical Modeling in Soil Mechanics*, Birkhäuser, Boston, pp. 418.
15. Di Prisco G., Giovine P., Kyriakides S., Mariano P. M., Mortara G. (2020), Micromechanics of Granular Matter, *Int. J. Solids Struct.*, **187**, 1-162.
16. Mariano P. M. (2020), Calculus of Variations in Mechanics and Related Fields, *J. Opt. Theory Appl.*, **184**, issue 1, 1-314.
17. Giovine P., Mariano P. M., Mortara G. (2020), *Views on Microstructures in Granular Materials*, Advances in Continuum Mechanics series, Birkhäuser, Boston, pp. xii-280.
18. Mariano P. M. (2022), *Variational Views in Mechanics*, Advances in Continuum Mechanics series, Birkhäuser, Boston, pp. xi+309.
19. Mariano P. M. (2022), *Letters from the Palazzetto. An excursion in the history of ideas of continuum mechanics*, Scuola Normale Superiore – Edizioni della Normale (distributed by Birkhäuser), in preparation.

7 Publications on History and Philosophy of Science

7.1 Monographs on History and Philosophy of Science

1. Mariano P. M. (2016), *Teatro d'ombre e di luci. Cosa facciamo quando descriviamo il mondo?*, Castelveccchi, Roma, pp. 136.
2. Mariano P. M. (2022), *When beauty plays - Aesthetics in Mathematical Representation of Nature*, submitted.

7.2 Journal Papers and Book Chapters on History and Philosophy of Science

1. Mariano P. M. (2010), Strutture ed Interconnessioni. Un'escursione tra i pensieri sulla matematica, *Prometeo*, Mondadori, **111**, 14-21.
2. Mariano P. M. (2011), A colloquio con Simone Weil. Note sul contributo della matematica alla percezione dei problemi industriali e sulla natura dei modelli, *Prometeo*, Mondadori, **115**, 14-21.
3. Mariano P. M. (2012), Ragionando intorno ai limiti del linguaggio ed ai principi fisici, *Il Riformista*, January 29th, 7.
4. Mariano P. M. (2012), Quando un verso ci fa riflettere sul fuggire del tempo, *Il Riformista*, February 26th, 4.
5. Mariano P. M. (2012), Quasicristalli (Tessiture esotiche della materia ed il premio Nobel per la chimica 2011: storia ed analisi di un cambiamento di paradigma), *Prometeo*, Mondadori, **117**, 74-85.
6. Mariano P. M. (2012), Della poesia e della cosa numerica (Strutture della poesia e strutture della matematica: congruenze e dissonanze), *Prometeo*, Mondadori, **119**, 34-43.
7. Mariano P. M. (2013), 4007 Greenway (Diramazioni del sesto problema di Hilbert: quasi un preambolo), *Prometeo*, Mondadori, **122**, 46-57.
8. Mariano P. M. (2013), La risposta di Abel (Una lezione importante per chi vuole intraprendere la ricerca scientifica), *Prometeo*, Mondadori, **124**, 82-93.
9. Mariano P. M. (2014), Osservazioni sull'indipendenza (L'influenza del pensiero scientifico sulla letteratura moderna e contemporanea), *Prometeo*, Mondadori, **126**, 22-33.
10. Mariano P. M. (2014), Rovine sulla collina (Costruire nella natura e non sulla natura non è solo una questione tecnica, ma un esercizio culturale ed etico), *Prometeo*, Mondadori, **128**, 82-91.
11. Mariano P. M. (2014), Un artista tra gli alberi di Bures-sur-Yvette, in *Matematica Ribelle – le due vite di Alexander Grothendieck*, a cura di A. Carioti, *Corriere della Sera*, 81-102.

12. Mariano P. M. (2015), Forme della bellezza (Nell'estensione del proprio ambito la matematica può essere anche un'esperienza estetica), *Prometeo*, Mondadori, **129**, 94-101.
13. Mariano P. M. (2015), Dell'arte di descrivere il mondo (Il ruolo dell'estetica nella costruzione di modelli matematici di fenomeni fisici), *Prometeo*, Mondadori, **130**, 106-113.
14. Mariano P. M. (2015), Dell'arte e della natura (Il percorso che porta alla formulazione di un modello matematico di fenomeni empirici e non degli elementi formali della sua struttura), *Prometeo*, Mondadori, **131**, 106-113.
15. Mariano P. M. (2015), Quello che descriviamo (Il processo creativo e conoscitivo, come espressioni del rapporto dell'osservatore col mondo con cui interagisce e che lo include), *Prometeo*, Mondadori, **132**, 116-122.
16. Mariano P. M. (2016), All'alba della rete. A trent'anni dal primo collegamento dell'Italia a Internet: colloquio con Gianfranco Capriz, *Prometeo*, Mondadori, **136**, 92-99.
17. Mariano P. M. (2017), La meccanica e il mondo, *Prometeo*, Mondadori, **139**, 30-37.
18. Mariano P. M. (2018), Il sonno della ragione. Logica, intuizione e scelta nel pensiero razionale, *Prometeo*, Mondadori, **140**, 20-25.
19. Mariano P. M. (2018), Il terrorista algebrico, *Prometeo*, Mondadori, **142**, 38-47.
20. Mariano P. M. (2018), Mitologia degli algoritmi, *Prometeo*, Mondadori, **144**, 28-35.
21. Mariano P. M. (2019), Endiadi – La scienza è un modo per declinare la filosofia: radici comuni delle forme di conoscenza, *Prometeo*, Mondadori, **147**, 26-33.
22. Mariano P. M. (2020), Fatti soggiacenti: realismo e metarealismo, *Prometeo*, Mondadori, **150**, 44-50.
23. Mariano P. M. (2020), Note marginali sulla scuola, *Prometeo*, Mondadori, **151**, 66-75.
24. Mariano P. M. (2020), Dalla scienza all'arte ... e ritorno, in *Arte e Scienza*, G. Polizzi Ed., Doppiavoce, Napoli, 39-50.

8 Papers in Conference Proceedings

[¹]

1. Augusti G., Mariano P. M. (1994), Introduction to computational methods of damage dynamics under stochastic actions, *2nd International Conference*

¹ In some bibliographical references in this sub-list the numbers of pages are missing although the proceedings were not published on CD-rom or in internet, the reason is that I do not have more the hard copies of the pertinent proceedings and are unable at the moment of reaching them.

- on *Computational Stochastic Mechanics*, Atene, June; paper published in *Computational Stochastic Mechanics*, P. D. Spanos Ed., Balkema, Rotterdam, 1995, 665-671.
2. Mariano P. M. (1995), Sulla dinamica hamiltoniana dei continui con struttura, *Proceedings of AIMETA 1995*, Napoli, Castel dell'Ovo, October 3rd – 6th, 5, 93-98.
 3. Mariano P. M., Trovalusci P. (1996), Un modello costitutivo per le murature, *Atti del Convegno Italiano sulle Murature tra Storia and Progetto*, Messina, September 18th – 20th, 351-360.
 4. Mariano P. M., Trovalusci P. (1997), Equazioni costitutive di solidi elastici microfessurati da modelli discreti e simmetrie materiali (in Italian), *Proceedings of AIMETA 1997*, Siena, September 29th - October 3rd, 79-84.
 5. Mariano P. M., Augusti G. (1998), Ordering and transport in generalized continua with arbitrary order parameters, *Proceedings of EMMC2 Euromech-Mecamat Conference*, February 22nd – 26th, Magdeburg, 219-226.
 6. Mariano P. M., Augusti G. (1999), Basic topics on damage pseudo-potentials, *Proceedings of Sixth Pan American Congress of Applied Mechanics*, Rio de Janeiro, Brazil, January 4th – 8th, 923-926.
 7. Mariano P. M., Sabatini L. (1999), Evolution of planar discontinuity waves in continua with microstructure, *Proceedings of EURODYN 1999*, L. Fryba, J. Nàprstek Ed.s, Balkema, Rotterdam, 433-438.
 8. Mariano P. M., Trovalusci P. (1999), Inertial effects in elastic microcracked bodies, *Proceedings of EURODYN 1999*, L. Fryba, J. Nàprstek Ed.s, Balkema, Rotterdam, 501-506.
 9. Mariano P. M., Augusti G. (1999), Nonlinear behavior of stochastically microcracked bodies, *Proceedings of the European Conference on Computational Mechanics ECCM 1999*, August 31st - September 3rd, München, CD-rom.
 10. Mariano P. M., Capriz G. (1999), Superfici di discontinuità nelle teorie multicampo, *Proceedings of AIMETA 1999*, October 6th – 9th, Como, CD-rom.
 11. Mariano P. M., Augusti (2000), Evolution of phase interfaces in direct models of plates made of shape memory alloys, *Proceedings of the Fourth International Colloquium on Computation of Shell and Spatial Structures IASS-IACM 2000*, June 5th – 7th, Chania-Creta, Greece, CD-rom (text of an invited lecture).
 12. Augusti G., Mariano P. M., Stazi F. L. (2000), Modelli di elementi finiti per solidi microfessurati and fenomeni di localizzazione, *Atti del XIII Convegno Italiano di Meccanica Computazionale*, Brescia, November 13th – 15th (text of an invited lecture).
 13. Augusti G., Mariano P. M., Stazi F. L. (2001), Localization phenomena in randomly microcracked bodies, *Proceedings of First MIT Conference on Computational Fluid and Solid Mechanics*, June 12th – 14th, Elsevier (text of an invited lecture).

14. Mariano P. M., Stazi F. L. (2001), Solidificazione di flussi bifase, *Proceedings of AIMETA 2001*, Taormina, September 26th – 29th.
15. Augusti G., Giofrè M., Mariano P. M., Stazi F. L. (2002), Elastic bodies with random distribution of microcracks, *Proceedings of IFIP WG7.5 Conference*, Osaka, March 25th – 27th (text of an invited lecture).
16. Giofrè M., Stazi F., Mariano P. M., Augusti G. (2002), Elastic microcracked bodies with random properties, *Proceedings of the International Conference on Computational Stochastic Mechanics*, Corfù, Greece, June 9th – 12th.
17. Mariano P. M., (2002), Weak non-local effects in crack propagation, *Proceedings of SIMAI 2002*, Cagliari, May 27th – 31st (text of an invited lecture).
18. Mariano P. M. (2003), Energy decay along elastic cylinders of complex materials, *Proceedings of AIMETA 2003*, Ferrara, September 9th – 12th.
19. Mariano P. M., Stazi F. L. (2003), Linear-elastic fullerene-based composites with random properties, *Proceedings of the Second MIT Conference on Computational Fluid and Solid Mechanics*, June 17th – 20th, Elsevier (text of an invited lecture).
20. Augusti G., Mariano P. M., Stazi F. L. (2004), Stochastic effects in complex construction materials with cracks, *Proceedings of 9th ASCE Conference on Probabilistic Mechanics and Structural Reliability*, Los Alamos Laboratories, Albuquerque, July 26th – 28th (text of an invited lecture).
21. Mariano P. M., Gei M. (2005), Dynamic coupling between phonon and phason dynamic modes in quasi-periodic alloys, *Proceedings of the Third MIT Conference on Computational Fluid and Solid Mechanics*, June 14th – 17th, Elsevier (text of an invited lecture).
22. Mariano P. M., Stazi F. L., Giofrè M., Augusti G. (2005), Stochastic clustering of phonon and phason modes around the tip of a crack in icosahedral quasicrystals, *Proceedings of ICF 2005*, Torino, March 20th – 25th, Curran Associates Inc., 1142-1148 (text of an invited lecture).
23. Mariano P. M., Gei M. (2005), Macroscopic effects of atomic modes in quasicrystals, *Proceedings of AIMETA 2005*, Firenze, September 11th – 15th.
24. Mariano P. M., Focardi M. (2007), Convergence of asynchronous variational integrators in linear elastodynamics, *Proceedings of AIMETA 2007*, Brescia, September 11th – 15th.
25. Bosi A., Salvatori L., Mariano P. M. (2007), Gross scale effects of atomic rearrangements in quasicrystals: numerical simulation and wavelet analysis, *Proceedings of AIMETA 2007*, Brescia, September 11th – 15th.
26. Mariano P. M. (2007), Mechanics of complex bodies: comments on the unified modelling of active substructures, *Proceedings of ICIAM 2007*, Zürich, July 16th – 20th. [*PAMM · Proc. Appl. Math. Mech.*, **7**, 1090303–1090304 (2007).]
27. Bosi A., Mollaioli F., Mariano P. M. (2008), Wavelet analysis on detecting pulse-like earthquakes, *Proceedings of 2008 Seismic Engineering Conference Commemorating the 1908 Messina and Reggio Calabria Earthquake*, A. Santini,

- N. Moraci Ed.s, AIP Conference Proceedings, **1020**, Melville, New York, 1803-1810.
28. Focardi M., Mariano P. M. (2008), Convergence of AVI's for the linear elastodynamics of simple bodies, *Proceedings of IACM/ECCOMAS 2008*, Venezia, June 30th – July 4th.
 29. Radi E., Mariano P. M. (2009), Propagation of dislocations in 2D quasicrystals, *Proceedings of AIMETA 2009*, Ancona, September 14th – 17th.
 30. Giaquinta M., Mariano P. M., Modica G., Mucci D. (2008), Stratified energies: ground states with cracks, *Proceedings of the IUTAM Symposium Progress in the Theory and Numerics of Configurational Mechanics*, Erlangen-Nuremberg, Germany, October 20th–24th, Springer Verlag, Berlin, 159-168 (text of an invited lecture).
 31. Planas J., Radi E., Stickley M. M., Mariano P. M. (2010), Mechanics of interfacial cracks between dissimilar quasicrystals, *Proceedings of CIFIE 2010*, Porto, Portugal, March 17th – 19th.
 32. Radi E., Mariano P. M. (2011), Steady-state moving dislocations in quasicrystals, *Proceedings of AIMETA 2011*, Bologna, September 12th – 15th.
 33. Mariano P. M. (2014), Hyperstress, relative power and invariance in second-grade classical field theories, *Proceedings of the Conference Geometry Integrability, Mechanics and Quantization*, I. Mladenov, M. Hadzhilazova and V. Kovalchuk Edts., Varna, June 6th-11th, 280-305.
 34. Mariano P. M. (2017), Finite speed heat propagation as a consequence of microstructural events, *Proceedings of JETC 2017*, Budapest, May 20th – 24th.

9 Editorials

1. Capriz G., Mariano P. M. (2001), Multifield Theories: an introduction, *Int. J. Solids Struct.*, **38**, 939-941.
2. Capriz G., Mariano P. M. (2004), Preface, in *Advances in Multifield Theories for Continua with Substructure*, G. Capriz, P. M. Mariano Ed.s, Birkhäuser, Boston.
3. Capriz G. Mariano P. M. (2005), Foreword, *Meccanica*, **40**, issues 4-6, 327–328.
4. Capriz G., Mariano P. M. (2007), Preface, in *Material Substructures in Complex Bodies*, G. Capriz, P. M. Mariano Ed.s, Birkhäuser Verlag, Boston, vii-ix.
5. Capriz G., Giovine P., Mariano P. M. (2008), Editorial: Modeling granularity, *Comp. Math. Appl.*, **55**, 131.
6. Capriz G., Giovine P., Mariano P. M. (2008), Preface, in *Mathematical Models of Granular Matter*, Lecture Notes in Mathematics, **1937**. v-ix.
7. Frosali G., Mariano P. M., Modica G. (2010), Evolution equations in pure and applied sciences: foreword, *Physica D*, **239**, 1379-1380.

8. Focardi M., Mariano P. M. (2012), Preface, *Disc. Cont. Dyn. Sys. B*, **17**, i-v.
9. Mariano P. M. (2012), Perspectives in continuum mechanics: a preface, *Math. Meth. Appl. Sci.*, **35**, 1737-1740.
10. Giovine P., Mariano P. M., Mortara G., Soga K. (2018), Progresses in mechanics of soils and general granular flows: preface, *Meccanica*, **54**, 595-596.
11. Giovine P., Mariano P. M., Mortara G. (2019), Preface, in *Micro-to-MACRO Mathematical Modeling in Soil Mechanics*, P. Giovine, P. M. Mariano, G. Mortara Ed.s, Birkhäuser, Boston, v-vi.
12. Di Prisco G., Giovine P., Kyriakides S., Mariano P. M., Mortara G. (2020), Micromechanics of granular matter: a preface, *Int. J. Solids Struct.*, **187**, 1-2.
13. Mariano P. M. (2020), Calculus of variations in mechanics and related fields, *J. Opt. Theory Appl.*, **184**, 1-4.
14. Giovine P., Mariano P. M., Mortara G. (2020), Views on microstructures in granular materials: preface, in *Views on Microstructures in Granular Materials*, P. Giovine, P. M. Mariano, G. Mortara Ed.s, Advances in Continuum Mechanics series, Birkhäuser, Boston, v-xii.
15. Mariano P. M. (2022), Variational views in mechanics: a preface, in *Variational Views in Mechanics*, Advances in Continuum Mechanics series, Birkhäuser, Boston, 1-7.

10 Extended Abstracts

1. Augusti G., Mariano P. M. (1994), Microstructural models of damage and some non-local aspects, *2nd European Solid Mechanics Conference*, Genova, September 12nd – 16th, Abstracts Book F2.
2. Mariano P. M., Augusti G. (1994), Thermomechanical non-local models of Continuum Damage Mechanics, *ASME Summer Annual Meeting at Los Angeles (Symposium on Recent Development on Damage Mechanics)*, Los Angeles, June 28th – 30th, Abstract Book, 80.
3. Mariano P. M. (1995), Local and nonlocal models of microcracked bodies, *1st. Italian-French-Polish Conference*, Roma, September 5th – 8th.
4. Trovalusci P., Mariano P. M., Augusti G. (1997), On derivation of constitutive equations for elastic microcracked bodies from a discrete model, *3rd EUROMECH-Solid Mechanics Conference*, August 18th – 22nd, Royal Institute of Technology KTH, Stockholm.
5. Mariano P. M., Augusti G. (1997), Remarks on foundations of damage mechanics, *3rd EUROMECH-Solid Mechanics Conference*, August 18th – 22nd, Royal Institute of Technology KTH, Stockholm.
6. Mariano P. M. (1998), Entropies and topological pressure using actions, *Secondo Microsimposio Microstrutture*, Scuola Normale Superiore, November 30th - December 1st, Pisa (invited lecture).

7. Mariano P. M. (1998), Crack propagation in structured continua, *Thirteenth U.S. National Congress of Applied Mechanics Conference (Symposium on Damage in Materials and Structures Subjected to High Strain Rate Loading)*, University of Florida, Gainesville, June 21st – 26th (invited lecture).
8. Augusti G., Mariano P. M. (1998), Stochastic mechanical behavior of microcrack clusters in brittle materials, *Proceedings of Third International Conference on Computational Stochastic Mechanics*, Island of Santorini, June 14th – 17th.
9. Mariano P. M. (1998), On the expression of configurational forces in structured continua, *SIMAI 1998*, Giardini Naxos, June 1st – 5th (invited lecture).
10. Mariano P. M., Augusti G., Stazi F. L., (2000), Finite elements for a multifield model of microcracked bodies, *20th IUTAM General Congress, ICTAM 2000*, August 27th - September 2nd, Chicago.
11. Capriz G., Mariano P. M. (2000), An interpretation of multivariable theory of nematics, *SIMAI 2000*, June 5th-9th, Ischia (invited lecture).
12. Capriz G., Mariano P. M. (2003), Hamiltonian structures in multifield theories of complex materials, *Convegno Unione Matematica Italiana*, September 8th – 12th, Milano.
13. Mariano P. M., Venini P. (2003), The optimal shape of complex bodies: influence of the modeling of material substructure, *Fifth World Congress of Structural and Multidisciplinary Optimization*, Venezia, May 19th – 23rd (invited lecture).
14. Mariano P. M. Stazi F. L., Augusti G. (2003), Semi-dense and concentrated fullerene-based composites: microdeformation and strain gradient effects, *5th European Solid Mechanics Conference*, August 17th – 21st, Thessaloniki.
15. Mariano P. M., Capriz G. (2003), Symmetries and Poisson structures for complex materials, *5th European Solid Mechanics Conference*, August 17th-21st, Thessaloniki.
16. Mariano P. M. (2004), Dissipative changes of substructures in complex bodies, *21st IUTAM Congress*, Warsaw, August 15th – 21st.
17. Capriz G., Mariano P. M. (2004), Geometric structures for the mechanics of complex bodies, *VII Congresso SIMAI*, Venezia, September 20th-24th.
18. Capriz G., Mariano P. M. (2004), A continuum Hamiltonian point of view on spin glasses, *STAMM 2004*, August 22nd-28th, Darmstadt.
19. Mariano P. M. (2005), Clustering and self-organization of phonon and phason modes in quasi-periodic alloys, *Euromech 474: Material Instabilities in Coupled Problems*, August 30th -31st, Troyes (invited lecture).
20. Mariano P. M., Stazi F. L. (2006), Computing crack growth in quasi-periodic alloys, *Symposium on 'Computational Fracture Mechanics' within the European Conference of Fracture, ECF 16*, Alexandroupolis, Greece, July 3rd – 7th (invited lecture).
21. Mariano P. M. (2006), Representation of material elements and geometry of substructural interactions, *International Congress of Mathematicians, ICM 2006*, Madrid, August 22nd-30th.

22. Bosi A., Salvatori L., Mariano P. M. (2007), Gross scale effects of atomic rearrangements in quasicrystals: numerical simulation and wavelet analysis, *Proceedings of "Numerical Analysis: Multiscale Methods, Adaptivity and Complexity*, Bath Institute for Complex Systems, September 4th – 7th.
23. Radi E., Mariano P. M. (2008), Effects of atomic rearrangements on steady crack propagation in quasicrystals, 45th Technical Meeting of the Society of Engineering Science, October 12th – 15th, Urbana.
24. Mariano P. M. (2009), Ground states of quasicrystals with magnetic order, *Workshop on Calculus of Variations and Partial Differential Equations*, Firenze, January 23rd – 24th.
25. Mariano P. M. (2009), Energies stratified over low-dimensional defects, *XIX Convegno Nazionale di Calcolo delle Variazioni*, Levico, February 8th – 13th.
26. Mariano P. M. (2010), Foundational aspects of the mechanics of complex materials, 9th *GAMM Seminar on Microstructures*, Stuttgart, January 22nd – 23rd (key-note lecture).
27. Mariano P. M. (2010), Observers in classical field theories, *CPEA-2010*, Rackeve, June 3rd – 7th (plenary talk).
28. Mariano P. M. (2010), Cracks in complex materials: varifold -based description, *STAMM 2010*, August 29th - September 2nd (plenary talk).
29. Bacci M., Mariano P. M. (2011), Protein translocation across nanopores, *COMPLAS XI*, September 7th – 9th, Barcellona.
30. Bacci M., Mariano P. M. (2011), Transport of macromolecules: discrete dynamics and continuum modeling, *Proceedings of AIMETA 2011*, Bologna, September 12th – 15th.
31. Mariano P. M. (2021), Bridging foundational views in thermodynamics, 16th *Joint European Thermodynamics Conference*, Prague, June 14th–18th.
32. Mariano P. M., Spadini M. (2022), Nonlinear oscillators with memory: solutions with the same period of perturbations, *COMPENG22*, Firenze, July 18th – 20th.
33. Kruzik M., Mariano P. M., Mucci D. (2022), Crack occurrence in bodies with gradient polyconvex energies, *SNP Meeting*, Pisa, September 21th – 24th.

11 Published reviews

- I have published **124** reviews of books and journal papers on the **Mathematical Review**.
 - Below there is the list of scientific books that I have reviewed on journals different from MathRev and the review bibliographic reference:
1. Dusan Krajcinovic (1996), *Damage Mechanics*, North Holland, Amsterdam (*Meccanica*, **35**, 1998, 105-106).

2. Miroslav Šilhavý (1997), *The Mechanics and Thermodynamics of Continuous Media*, Springer Verlag, Berlin (*Meccanica*, **34**, 1999, 469-470).
3. Andrea Braides (2002), *Γ -Convergence for Beginners*, Oxford University Press, Oxford (*Meccanica*, **42**, 2007, 211-212).
4. Tomáš Roubíček (2004), *Nonlinear Partial Differential Equations with Applications*, Birkhäuser, Basel (*Meccanica*, **42**, 2007, 615-616).
5. Constantine M. Dafermos (2005), *Hyperbolic Conservation Laws in Continuum Physics*, Springer Verlag, Berlin (*Meccanica*, **44**, 2009, 103-104).
6. Davide Bernardini (2009), *Statica - Un'Introduzione alla Meccanica delle Strutture*, Città Studi, Novara (*Meccanica*, **45**, 2010, 283-284).
7. Eberhard Zeidler (2009), *Quantum Field Theory. I: Basics in Mathematics and Physics*, Springer, Berlin (*Meccanica*, **46**, 2011, 881-883).

12 PhD Thesis

1. Mariano P. M. (1997), *Modelli Meccanici di Continui Danneggiati: Formulazioni ed Analisi Critiche*, Università di Roma “La Sapienza”.

13 Books for Public Engagements

1. Mariano P. M. (2020), *Del Fiume e degli Alberi*, Thedotcompany, Reggio Emilia, pp. 82.
2. Mariano P. M. (2020), *Gli Occhi di Eulero*, Mimesis, Milano, pp. 174.
3. Mariano P. M. (2022), *Vite riflesse in un catino - 23 sogni per Hilbert*, Mimesis, Milano, pp. 188 (to appear in October 2022).

14 Articles for Public Engagements

1. Mariano P. M. (2006), Un matematico (giovane) alle prese con matematici (anziani). Storia di un convegno, *Corriere della Sera* (section *Corriere del Mezzogiorno*), September 13rd.
2. Mariano P. M. (2007), Quella passione per i numeri, *la Repubblica* (section *la Repubblica di Bari*), September 1st.
3. Mariano P. M. (2008), La materia e il colore: riflessioni sull'itinerario artistico di Luigi Mariano, *Misc. Franc. Salentina*, **24**, 73-94.
4. Mariano P. M. (2012), L'impegno francese per la ricerca (ma a casa nostra), *Il Riformista*, March 11th, 4.

5. Mariano P. M. (2012), Un dialogo d'arte, *Il Galatino*, **XLV**, 9, 3.
 6. Mariano P. M. (2013), La penisola di una penisola, in *L'Umanesimo della Terra - Studi in Memoria di Donato Moro*, G. Caramascio, M. Spedicato, V. Zacchino Ed.s, Edizioni del Grifo, Montepulciano, 117-128.
- Further regular contributions to Cultural Magazines like "Graphie" (6 novels since 2021) and the Culture Sections of newspapers like
 - *Il Galatino* (collaboration ended in 2020)
 - *Il Riformista* (collaboration ended in 2012)
 - *Il Paese Nuovo* (now closed)
 - *Il Sole 24ore* (collaboration ended in 2020)
 - *Il Quotidiano di Puglia* (**44** articles published since 2017; they are not listed here).