

MALUSA' Marco Giovanni

Dipartimento di Scienze dell' Ambiente e della Terra
 Università di Milano-Bicocca, Piazza della Scienza U4, 20126 – Milano
 www.disat.unimib.it

EDUCATION

2004 **PhD in Earth Sciences**, *CNR-IGG – University of Torino*
 1997 **MSc in Geological Sciences**, *University of Torino (cum laude)*

PROFESSIONAL EXPERIENCE

since 1-10-2018 **Associate professor**, University of Milano-Bicocca
 since 2010 Researcher, tenured position, University of Milano-Bicocca
 2007-2009 Researcher in tenure-track, *University of Milano-Bicocca*
 since 2007 Aggregate Professor, *University of Milano-Bicocca*
 2005-2006 Adjunct lecturer, *University of Milano-Bicocca*
 2002-2006 Researcher for geological mapping projects (ex art. 23), *CNR-IGG Torino*
 1999-2001 Professional geologist

Other professional appointments:

2023-2026 Member of the Doctoral School Didactic Commission, *University of Milano-Bicocca*
 2025 Delegate of the DISAT Department Director for the quality assurance process
 2022-2025 Member of the University Commission for the recognition of PhD degrees obtained abroad
 since 2021 **Coordinator of the PhD Course in Chemical, Geological and Environmental Sciences**,
 University of Milano-Bicocca
 2021-2024 Area-GEO Representative in the board of the Dept. of Earth and Environmental Sciences
 2020 Responsible for the curriculum in Geological Sciences, PhD Course in Chemical, Geological
 and Environmental Sciences, *University of Milano-Bicocca*
 since 2020 Member of the PhD Teaching Board in Chemical, Geological and Environmental Sciences
 (cycles XXXVI-), *University of Milano-Bicocca*
 2017-2024 Member of the timetable committee of the BSc and MSc courses in Geological Sciences
 2014-2016 Member of the PhD Teaching Board in Chemical, Geological and Environmental Sciences
 (cycles XXX, XXXI, XXXII), *University of Milano-Bicocca*
 2013 Member of the PhD Teaching Board in Sciences (cycle XXIX), *University of Milano-
 Bicocca*
 2008-2012 Member of the PhD Teaching Board in Earth Sciences (cycles XXIV, XXV, XXVI, XXVII,
 XXVIII), *University of Milano-Bicocca*
 since 2008 Responsible of the Laboratory for Fission Track Analysis, *University of Milano-Bicocca*
 2008-2016 Member of the Scientific Panel of CUDaM (Milano-Bicocca University Centre for Dating)
 2018-2020 INGV-ONT Research Associate
 2008-2011 CNR-IGG Research Associate

Professional qualification:

Examination passed (May 1999); registered to “Albo ORG Piemonte” (1999-2001) and “Elenco Speciale” (since 2002)

NATIONAL SCIENTIFIC QUALIFICATION

Italian national scientific qualification as **full professor ASN 2012 and ASN 2016** (valid until 16-11-2028)

SCIENTIFIC INTEREST

Topics: (i) tectonic evolution and exhumation processes in orogenic belts; relationships between tectonics and erosion in active orogens and detrital fluxes in adjoining sedimentary basins; (ii) sediment provenance, transport, storage, burial, and reworking; (iii) methodological approaches to detrital geo/thermochronological analyses

Tools: Field geology (sedimentology, stratigraphy, structural geology); geologic interpretation of seismic data sets; detrital geochronology and thermochronology

Field sites: Orogenic belts of the Western Mediterranean, North Africa, East Asia, and Pacific

Laboratory: Fission-track analysis

FIELD WORK

Western Alps (1995-2010); Scotland (1995); High-Atlas and Anti-Atlas (2004-2006); Southalpine retroforeland basin (2008-2010); Corsica (since 2006); Northern Apennines (since 2010); Tertiary Piedmont basin (since 2011); Dabie Shan (2016, 2018); Tian Shan (2019); Qinling (2025); Chilean Andes (2025)

EDITORIAL APPOINTMENTS

- Editor-in-chief of Geological Field Trips and Maps (since 2024): <https://www.geologicalfieldtripsandmaps.com/>
- Co-editor of the monograph: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, 393 p., doi: 10.1007/978-3-319-89421-8 (since 2022 also translated in Chinese)
- Guest Associate Editor of Tectonics and G-Cubed (*special section "Tethyan Dynamics: from Rifting to Collision"*) (2019-2023)

PUBLICATIONS

- 94 international publications (55 of which as first/corresponding author on high impact factor journals)
- 7 chapters (peer-reviewed) in scientific books
- 11 geological maps or explanatory notes published by Geological Surveys of Italy, France, and Morocco
- 152 contributions in scientific meetings
- 28 invited presentations or seminars (Italy, France, Germany, China, USA)

H INDEX: Google Scholar 40 (30 since 2021), Scopus 35

Selected publications in international peer-reviewed scientific journals

[*denotes corresponding author]

1. Resentini, A., **Malusà, M.G.***, Favaro, S., Longhi, M., Tiepolo, M., Villa, I. M., & Zanchetta, S. (2026). Bedrock testing of zircon annealing for detrital provenance studies: Raman and UPb analysis in the Adamello batholith (Southern Alps, Italy). *Chemical Geology*, 123486. doi:10.1016/j.chemgeo.2026.123486
2. Wang, X., Zhao, L.*, **Malusà, M.G.**, Ji, W., & Yuan, J. (2026). 3-D modeling of differential exhumation of ultrahigh-pressure metamorphic rocks driven by increasing plate divergence. *Geochemistry, Geophysics, Geosystems*, 27(3), e2025GC012683. doi:10.1029/2025GC012683
3. Sun, W.*, **Malusà, M.G.***, Guo, S., Tkalčić, H., Zhao, L., & Pan, Y. (2026). A mafic and partially metamorphic lower crust of Mars revealed by geophysical integration. *Science Bulletin*. doi:10.1016/j.scib.2026.02.007
4. Mao, Y., Tang, X., Zhao, L.*, **Malusà, M.G.***, Guillot, S., Paul, A., Solarino, S., Xu, X., Aubert, C., Eva, E., Pondrelli, S., Salimbeni, S. & Yang, L. (2026) P and S wave finite-frequency tomography reveals the impact of slab interference on mantle flow beneath the greater Alpine region. *Earth Planet. Sci. Lett.*, 673, 119716, doi:10.1016/j.epsl.2025.119716

5. Zeng, X., Pastore, G., Shen, C.*, Resentini, A., Fu, H., Yang, C., Buret, Y., Vermeesch, P., **Malusà, M.G.** (2025). Raman mapping reveals alpha radiation damage zonation and its annealing in Durango apatite. *Earth Planet. Sci. Lett.*, 671, 119636, doi:10.1016/j.epsl.2025.119636
6. Sun, W.*, Tkalčić, H.*, **Malusà, M.G.***, Adam, L., Tang, Q., Wang, S., Wei, Z., Pan, Y. (2025) Geophysical evidence of progressive Noachian crustal thickening on Mars revealed by meteorite impacts. *Earth Planet. Sci. Lett.*, 669, 119598, doi: 10.1016/j.epsl.2025.119598
7. Zeng, X., **Malusà, M.G.***, Resentini, A., Tian, Y., Lei, Q., Shen, C.* (2025) Thermochronological markers reveal Late Cretaceous strike-slip faulting in the Yangtze Block, South China. *Commun. Earth Environ.*, 6(1), 187, doi: 10.1038/s43247-025-02172-w
8. Maffei, A., Frezzotti, M.L.*, Esposito, R., **Malusà, M.G.**, Aiuppa, A., Rizzo, A. L., Ferrando, S. (2025) Carbon enrichment processes in the oceanic upper mantle preserved in peridotites from Sal Island (Cape Verde). *Geoscience Frontiers*, 102179, doi:10.1016/j.gsf.2025.102179
9. Sun, W. *, Tkalčić, H., **Malusà, M.G.**, Pan, Y. (2025) Seismic evidence of liquid water at the base of Mars' upper crust. *National Science Review*, 12(6), nwaf166, doi:10.1093/nsr/nwaf166
10. Lu, H. *, Li, C., **Malusà, M.G.**, Zhang, Z., Li, J., Pan, J., Li, H. (2025) Simultaneous basinward expansion of mountain building in northern Tibet since ca. 8 Ma. *Tectonics*, 44(3), e2024TC008571, doi:10.1029/2024TC008571
11. Guo, C., Zhang, Z.*, Lease, R., **Malusà, M.G.**, Chew, D., Lu, H., Wu, L., Xiang, D., Wang, N., Grasemann, B., Xiao, W.* (2025) Apatite geo-thermochronology and geochemistry constrain oligocene-miocene growth and geodynamics of the northeastern Tibetan Plateau. *Geophys. Res. Lett.*, 52(4), e2024GL113157, doi:10.1029/2024GL113157
12. Lu H., Li H. *, Xiang Z., **Malusà M.G.**, Li C., Zhang Z., Wu L., Ma X., Pan J. (2025) Lithospheric strike-slip faulting in central Tibet since 35-32 Ma and implications for the incipient Asian extrusional tectonics. *National Science Review*, nwae428, doi:10.1093/nsr/nwae428
13. **Malusà M.G.***, Resentini A., Wittmann H. (2024) Impact of river capture on erosion rates and offshore sedimentation revealed by geological and in situ ¹⁰Be cosmogenic data (Corsica, western Mediterranean). *Earth Planet. Sci. Lett.*, 637, 118728, doi: 10.1016/j.epsl.2024.118728
14. **Malusà M.G.***, Ellero A., Ottria G. (2024) Tectonics of the Mw 6.8 Al Haouz earthquake (Morocco) reveals minor role of asthenospheric upwelling. *Tectonophysics*, 230533, doi:10.1016/j.tecto.2024.230533
15. Solarino S., **Malusà M.G.***, Eva E., Paul A., Guillot S., Pondrelli S., Salimbeni S., Zhao L. (2024) Seismic tomography reveals contrasting styles of subduction-channel and mantle-wedge exhumation controlled by upper plate divergent motion. *Gondwana Research*, 136, 169-182, doi: 10.1016/j.gr.2024.08.016
16. Xiang D., Zhang Z. *, Chew D., Jolivet M., **Malusà M.G.**, Zack T., Wu L., Guo C., Wang N., Xiao W. (2024) Cenozoic pulsed rise and growth of the Chinese South Tianshan revealed by zircon and apatite provenance analyses: Implications for stepwise aridification in the Tarim Basin. *Tectonics*, 43(8), e2023TC008211, doi.org/10.1029/2023TC008211
17. Mosconi A.*, Cannà E., Farina F., **Malusà M.G.**, Zanchetta S., Tiepolo M. (2024) The Corno Alto complex (Adamello batholith): A modern analogue of the high Ba/K sanukitoids. *Lithos*, 470-71, 107522, doi: 10.1016/j.lithos.2024.107522
18. Mao Y., Zhao L. *, **Malusà M.G.***, Solarino S., Pondrelli S., Sun B., Aubert C., Salimbeni S., Eva E., Guillot S. (2024) Geophysical evidence of large-scale silica-rich fluid flow above the continental subduction interface. *Science China Earth Sciences*, 67, 2796-2809, doi.org/10.1007/s11430-023-1334-2
19. Pondrelli S. *, Salimbeni S., Confal J.M., **Malusà M.G.**, Paul A., Guillot S., Solarino S., Eva E., Aubert C., Zhao L. (2024). Highlights on mantle deformation beneath the Western Alps with seismic anisotropy using CIFALPS2 data. *Solid Earth*, 15(7), 827-835, doi.org/10.5194/se-15-827-2024
20. Wang N., Zhang Z. *, **Malusà M.G. ***, Chew D., Wu L., Xiang D., Xiao W. (2024) Late Mesozoic impact of paleo-Pacific subduction on the North China craton revealed by apatite U-Pb and fission-track double dating and trace element analysis in the eastern Yanshan fold belt, northeastern Asia. *GSA Bulletin*, 136, 3/4, 1329-1355, doi: 10.1130/B36751.1

21. Wang N., Zhang Z.*, **Malusà M.G.***, Zhang J., Wu L., Xiang D., Xiao W. (2024) Geothermochronological analysis reveals transition from transverse to axial detrital inputs during Cretaceous rifting in the Songliao Basin, NE China. *Terra Nova*, 36, 89–96, doi: 10.1111/ter.12682
22. Eva, E., **Malusà M.G.***, Solarino, S. (2023) The 2021–2022 Genoa seismic sequences reveal distributed strike-slip deformation in the Alps-Apennines transition zone, NW Italy. *Tectonophysics*, 868, 230101, doi: 10.1016/j.tecto.2023.230101
23. Xiang D., Zhang Z.*, Chew D., Jolivet M., **Malusà M.G.**, Guo C., Wang N., Xiao W. (2023) Mesozoic–Cenozoic Topographic Evolution of the South Tianshan (NW China): Insights from Detrital Apatite Geothermochronological and Geochemical Analyses. *Lithosphere*, doi: 10.2113/2023/lithosphere_2023_190
24. Crosta G.B., Dattola G., Lanfranchi C., De Blasio F.V. *, **Malusà M.G.**, Bertolo D. (2023) Rockfalls, fragmentation, and dust clouds: analysis of the 2017 Pousset event (Northern Italy). *Landslides*, 1-18, doi: 10.1007/s10346-023-02115-6
25. Lu H.*, Cao X., **Malusà M.G.**, Zhang Z., Pan J., Li H. (2023) Slowing Extrusion Tectonics and Accelerated Uplift of Northern Tibet Since the Mid-Miocene. *Tectonics*, 42(8), e2023TC007801, doi: 10.1029/2023TC007801
26. Zhang Z.*, Zack T., Kohn B., **Malusà M.G.**, Wu L., Rezaeian M., Wang N., Xiang D., Guo C., Esmaeili R., Wan B., Xiao W. (2023) From Tethyan subduction to Arabia-Eurasia continental collision: Multiple geo-thermochronological signals from granitoids in NW Iran. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 621, 111567, doi: 10.1016/j.palaeo.2023.111567
27. Sun W.*, Ao S.*, Tang Q., **Malusà M.G.***, Zhao L., Xiao W. (2022) Forced Cenozoic continental subduction of Tarim craton-like lithosphere below the Tianshan revealed by ambient noise tomography. *Geology*, 50(12), 1393-1397, doi: 10.1130/G50510.1
28. Paul A.*, **Malusà M.G.***, Solarino S., Salimbeni S., Eva E., Nouibat A., Pondrelli S., Aubert C., Dumont T., Guillot S., Schwartz S., Zhao L.* (2022) Along-strike variations in the fossil subduction zone of the Western Alps revealed by the CIFALPS seismic experiments and their implications for exhumation of (ultra-) high-pressure rocks. *Earth Planet. Sci. Lett.*, 598, 117843, doi: 10.1016/j.epsl.2022.117843.
29. **Malusà M.G.***, Anfinson O.A., Stockli D.F. (2022). (Mis)Identification of magmatic and exhumation ages by detrital zircon U-Pb and He double dating: A case study from the Bergell-Gonfolite system (European Alps). *Chem. Geol.*, 606, 120970, doi: 10.1016/j.chemgeo.2022.120970
30. Nouibat A. *, Stehly L., Paul A., Schwartz S., Rolland Y., Dumont T., Crawford C.W., Brossier R., **Cifalps Team** and AlpArray Working Group (2022). Ambient-noise tomography of the Ligurian-Provence Basin using the AlpArray onshore-offshore network: Insights for the oceanic domain structure. *J. Geophys. Res. Solid Earth*, 127(8), e2022JB024228, doi: 10.1029/2022JB024228
31. Nouibat A.*, Stehly L., Paul A., Schwartz S., Bodin T., Dumont T., Rolland Y, Brossier R, **Cifalps Team** and AlpArray Working Group. (2022). Lithospheric transdimensional ambient-noise tomography of W-Europe: implications for crustal-scale geometry of the W-Alps. *Geophys. J. Int.*, 229(2), 862-879, doi: 10.1093/gji/ggab520
32. Guo C., Zhang Z.*, **Malusà M.G.**, Chew D., Xiang D., Wu L., Wang N., Xiao W. (2022) Late Cenozoic topographic growth of the South Tianshan Mountain Range: insights from detrital apatite fission-track ages, northern Tarim Basin margin, NW China. *J. Asian Earth Sci.*, 234, 105277, doi: 10.1016/j.jseae.2022.105277
33. Lu H.*, **Malusà M.G.**, Zhang Z., Guo L., Shi X., Ye J., Sang S, Xiong S., Pan J., Li H. (2022) Syntectonic sediment recycling controls eolian deposition in eastern Asia since~ 8 Ma. *Geophys. Res. Lett.*, 49, e2021GL096789. doi: 10.1029/2021GL096789
34. **Malusà M.G.***, Brandmayr E., Panza G.F., Romanelli F., Ferrando S., Frezzotti M.L.* (2022) An explosive component in a December 2020 Milan earthquake suggests outgassing of deeply recycled carbon. *Commun. Earth Environ.* 3(1), 1-6, doi: 0.1038/s43247-021-00336-y
35. Liu D., Zhao L.*, Paul A., Yuan H., Solarino S., Aubert C., Pondrelli S., Salimbeni S., Eva E. **Malusà M.G.**, Guillot S. (2022) Receiver function mapping of the mantle transition zone beneath the Western Alps: New constraints on slab subduction and mantle upwelling. *Earth Planet. Sci. Lett.* 577, 117267, doi: 10.1016/j.epsl.2021.117267

36. Wang N., Zhang Z. *, **Malusà M.G.**, Wu L., Chew D., Zhang J., Xiang W., Xiao W. (2021) Pulsed Mesozoic exhumation in Northeast Asia: New constraints from zircon U-Pb and apatite U-Pb, fission track and (U-Th)/He analyses in the Zhangguangcai Range, NE China. *Tectonophysics*, 818, 229075, doi: 10.1016/j.tecto.2021.229075
37. Salimbeni S. *, Piana Agostinetti N., Pondrelli S., & CIFALPS Working Group (2021) Insights into the origin and deformation style of the continental Moho: A case-study from the Western Alps (Italy). *J. Geophys. Res. Solid Earth* 126(6), e2020JB021319, doi: 10.1029/2020JB021319.
38. **Malusà M.G.***, Guillot S., Zhao L., Paul A., Solarino S., Dumont T., Schwartz S., Aubert C., Baccheschi P., Eva E., Lu Y., Lyu C., Pondrelli S., Salimbeni S., Sun W., Yuan H. (2021) The Deep Structure of the Alps based on the CIFALPS Seismic Experiment: A Synthesis. *Geochemistry, Geophysics, Geosystems*, 22, 1-42, e2020GC009466, doi: 10.1029/2020GC009466
39. **Malusà M.G.***, Fitzgerald P.G. (2020) The geologic interpretation of the detrital thermochronology record within a stratigraphic framework, with examples from the European Alps, Taiwan and the Himalayas. *Earth-Sci Rev.* 201, 103074, doi: 10.1016/j.earscirev.2019.103074
40. Eva E., **Malusà M.G.***, Solarino S. (2020) Seismotectonics at the Transition Between Opposite-Dipping Slabs (Western Alpine Region). *Tectonics* 39(9), e2020TC006086, doi: 10.1029/2020TC006086
41. Resentini A., **Malusà M.G.***, Garzanti E. (2020) Ongoing exhumation of the Taiwan orogenic wedge revealed by detrital apatite thermochronology: The impact of effective mineral fertility and zero-track grains. *Earth Planet. Sci. Lett.* 544, 116374, doi: 10.1016/j.epsl.2020.116374
42. Resentini A., **Malusà M.G.***, Garzanti E. (2020) Reply to Comment on Resentini et al., 2020: “Ongoing exhumation of the Taiwan orogenic wedge revealed by detrital apatite thermochronology: The impact of effective mineral fertility and zero-track grains”. *Earth Planet. Sci. Lett.* 550, 116557, doi: 10.1016/j.epsl.2020.116557
43. Resentini A. *, Andò S., Garzanti E., **Malusà M.G.**, Pastore G., Vermeesch P., Chanvry E., Dall'Asta M. (2020) Zircon as a provenance tracer: Coupling Raman spectroscopy and UPb geochronology in source-to-sink studies. *Chem. Geol.* 555, 119828, doi: 10.1016/j.chemgeo.2020.119828
44. Zhao L. *, **Malusà M.G.***, Yuan H. *, Paul A., Guillot S., Lu Y., Stehly L., Solarino S., Eva E., Lu G., Bodin T., CIFALPS Group, AlpArray Working Group (2020) Evidence for a serpentized plate interface favouring continental subduction. *Nat. Commun.* 11(1), 1-8, doi: 10.1038/s41467-020-15904-7
45. Zhao L. *, **Malusà M.G.***, Yuan H. *, Paul A., Guillot S., Lu Y., Stehly L., Solarino S., Eva E., Lu G., Bodin T., CIFALPS Group, AlpArray Working Group (2020) Author Correction: Evidence for a serpentized plate interface favouring continental subduction. *Nat. Commun.* 11(1), 1-8, doi: 10.1038/s41467-020-17767-4
46. Ellero A., **Malusà M.G.**, Ottria G. *, Ouanaïmi H., Froitzheim N. (2020) Transpressional structuring of the High Atlas belt, Morocco. *J. Struct. Geol.*, 104021, doi: 10.1016/j.jsg.2020.104021
47. Asti R. *, Faccenna C., Rossetti F., **Malusà M.G.**, Gliozzi E., Faranda C., Lirer F., Cosentino D. (2019) The Gediz supradetachment system (SW Turkey): magmatism, tectonics, and sedimentation during crustal extension. *Tectonics* 38(4), 1414-1440, doi: 10.1029/2018TC005181
48. Sun W. *, Zhao L., **Malusà M.G.***, Guillot S., Fu, L.Y. (2019) 3-D Pn tomography reveals continental subduction at the boundaries of the Adriatic microplate in the absence of a precursor oceanic slab. *Earth Planet. Sci. Lett.* 510, 131-141, doi: 10.1016/j.epsl.2019.01.012
49. Ji W.Q. *, **Malusà M.G.***, Tiepolo M., Langone A., Zhao L., Wu F.Y. (2019) Synchronous Periadriatic magmatism in the Western and Central Alps in the absence of slab breakoff. *Terra Nova* 31(2), 120-128, doi: 10.1111/ter.12377
50. Liao J. *, **Malusà M.G.***, Zhao L., Baldwin S.L., Fitzgerald P.G., Gerya T. (2018) Divergent plate motion drives rapid exhumation of (ultra)high pressure rocks. *Earth Planet. Sci. Lett.* 491, 67-80, doi: 10.1016/j.epsl.2018.03.024
51. **Malusà M.G.***, Frezzotti M.L. *, Ferrando S., Brandmayr E., Romanelli F., Panza G.F. (2018) Active carbon sequestration in the Alpine mantle wedge and implications for long-term climate trends. *Scientific Reports* 8:4740, doi:10.1038/s41598-018-22877-7.
52. Salimbeni S. *, **Malusà M.G.***, Zhao L., Guillot S., Pondrelli S., Margheriti L., Paul A., Solarino S., Aubert C., Dumont T., Schwartz S., Wang Q., Xu X., Zheng T., Zhu R. (2018) Active and fossil mantle flows in the

- western Alpine region unravelled by seismic anisotropy analysis and high-resolution P wave tomography. *Tectonophysics* 731–732, 35–47, doi: 10.1016/j.tecto.2018.03.002
53. Liao J.*, Gerya T., **Malusà M.G.** (2018) 3D modeling of crustal shortening influenced by along-strike lithological changes: Implications for continental collision in the Western and Central Alps. *Tectonophysics* 746, 425–438, doi: 10.1016/j.tecto.2018.01.031
 54. Solarino S., **Malusà M.G.***, Eva E., Guillot S., Paul A., Schwartz S., Zhao L., Aubert C., Dumont T., Pondrelli S., Salimbeni S., Wang Q., Xu X., Zheng T., Zhu R. (2018) Mantle wedge exhumation beneath the Dora-Maira (U)HP dome unravelled by local earthquake tomography (Western Alps). *Lithos* 296–299, 623–636, doi: 10.1016/j.lithos.2017.11.035
 55. Garzanti E., Radeff G.*, **Malusà M.G.** (2018) Slab breakoff: A critical appraisal of a geological theory as applied in space and time. *Earth-Sci Rev.* 177, 303–319, doi: 10.1016/j.earscirev.2017.11.012
 56. Asti R.*, **Malusà M.G.**, Faccenna C. (2018) Supradetachment basin evolution unravelled by detrital apatite fission track analysis: the Gediz Graben (Menderes Massif, Western Turkey). *Basin Res.* 30, 502–521, doi: 10.1111/bre.12262
 57. Bergomi M.A., Dal Piaz G.V., **Malusà M.G.***, Monopoli B., Tunesi A. (2017) The Grand St Bernard-Briançonnais nappe system and the Paleozoic inheritance of the Western Alps unraveled by zircon U-Pb dating. *Tectonics* 36, 2950–2972, doi: 10.1002/2017TC004621
 58. **Malusà M.G.***, Wang J.*, Garzanti E., Liu Z.C, Villa I.M., Wittmann H. (2017) Trace-element and Nd-isotope systematics in detrital apatite of the Po river catchment: Implications for provenance discrimination and the lag-time approach to detrital thermochronology. *Lithos* 290–291, 48–59, doi: 10.1016/j.lithos.2017.08.006
 59. Zhao L.*, Xu X., **Malusà M.G.** (2017) Seismic probing of continental subduction zones. *J. Asian Earth Sci.* 145, 37–45, doi: 10.1016/j.jseaes.2017.05.026
 60. Lyu C., Pedersen H.A, Paul A., Zhao L., Solarino S., and CIFALPS Working Group (2017) Shear wave velocities in the upper mantle of the Western Alps: new constraints using array analysis of seismic surface waves. *Geophys. J. Int.* 210, 321–331, doi: 10.1093/gji/ggx166
 61. **Malusà M.G.***, Zhao L., Eva E., Solarino S., Paul A., Guillot S., Schwartz S., Dumont T., Aubert C., Salimbeni S., Pondrelli S., Wang Q., Zhu R. (2017) Earthquakes in the Western Alpine mantle wedge. *Gondwana Res.* 44, 89–95, doi: 10.1016/j.gr.2016.11.012
 62. Zhao L.*, Paul A., **Malusà M.G.***, Xu X., Zheng T., Solarino S., Guillot S., Schwartz S., Dumont T., Salimbeni S., Aubert C., Pondrelli S., Wang Q., Zhu R. (2016) Continuity of the Alpine slab unraveled by high-resolution P wave tomography. *J. Geophys. Res. Solid Earth* 121, 8720–8737, doi:10.1002/2016JB013310
 63. Anfinson O.A.*, **Malusà M.G.***, Ottria G., Dafov L.N., Stockli D.F. (2016) Tracking coarse-grained gravity flows by LASS-ICP-MS depth-profiling of detrital zircon (Aveto Formation, Adriatic foredeep, Italy). *Marine Petrol. Geol.* 77, 1163–1176, doi: 10.1016/j.marpetgeo.2016.07.014
 64. Wittmann H.*, **Malusà M.G.**, Resentini A., Garzanti E., Niedermann S. (2016) The cosmogenic record of mountain erosion transmitted across a foreland basin: source-to-sink analysis of *in situ* ¹⁰Be, ²⁶Al and ²¹Ne in sediment of the Po river catchment. *Earth Planet. Sci. Lett.* 452, 258–271, doi: /10.1016/j.epsl.2016.07.017
 65. **Malusà M.G.***, Anfinson O.A., Dafov L.N., Stockli D.F. (2016) Tracking Adria indentation beneath the Alps by detrital zircon U-Pb geochronology: Implications for the Oligocene–Miocene dynamics of the Adriatic microplate. *Geology* 44, 155–158, doi: 10.1130/G37407.1
 66. **Malusà M.G.**, Resentini A.*, Garzanti E. (2016) Hydraulic sorting and mineral fertility bias in detrital geochronology. *Gondwana Res.* 31, 1–19, doi:10.1016/j.gr.2015.09.002
 67. **Malusà M.G.***, Danišik M., Kuhlemann J. (2016) Tracking the Adriatic-slab travel beneath the Tethyan margin of Corsica-Sardinia by low-temperature thermochronometry. *Gondwana Res.* 31, 135–149, doi:10.1016/j.gr.2014.12.011
 68. Zanchetta S.*, **Malusà M.G.**, Zanchi A. (2015) Precollisional development and Cenozoic evolution of the Southalpine retrobelt (European Alps). *Lithosphere* 7, 662–681, doi: 10.1130/L466.1
 69. Eva E., **Malusà M.G.***, Solarino S. (2015) A seismotectonic picture of the inner southern Western Alps based on the analysis of anomalously deep earthquakes. *Tectonophysics* 661, 190–199, doi: 10.1016/j.tecto.2015.08.040

70. Zhao L.*, Paul A., Guillot S., Solarino S., **Malusà M.G.**, Zheng T., Aubert C., Salimbeni S., Dumont T., Schwartz S., Zhu R., Wang Q. (2015) First seismic evidence for continental subduction beneath the Western Alps. *Geology* 43, 815–818, doi: 10.1130/G36833.1
71. **Malusà M.G.***, Faccenna C., Baldwin S.L., Fitzgerald P.G., Rossetti F., Balestrieri M.L., Danišik M., Ellero A., Ottria G., Piromallo C. (2015) Contrasting styles of (U)HP rock exhumation along the Cenozoic Adria-Europe plate boundary (Western Alps, Calabria, Corsica). *Geochem. Geophys. Geosyst.* 16(6), 1786-1824, doi: 10.1002/2015GC005767.
72. **Malusà M.G.***, Carter A., Limoncelli M., Villa I.M., Garzanti E. (2013) Bias in detrital zircon geochronology and thermochronometry. *Chem. Geol.* 359, 90-107, doi: 10.1016/j.chemgeo.2013.09.016
73. Resentini A.*, **Malusà M.G.**, Garzanti E. (2013) MinSORTING: An Excel® worksheet for modelling mineral grain-size distribution in sediments, with application to detrital geochronology and provenance studies. *Computers Geosci.* 59, 90-97, doi: 10.1016/j.cageo.2013.05.015
74. Agliardi F.*, Crosta G.B., Frattini P., **Malusà M.G.** (2013) Giant non-catastrophic landslides and the long-term exhumation of the European Alps. *Earth Planet. Sci. Lett.* 365, 263-274, doi: 10.1016/j.epsl.2013.01.030
75. **Malusà M.G.***, Balestrieri M.L. (2012) Burial and exhumation across the Alps-Apennines junction zone constrained by fission-track analysis on modern river sands. *Terra Nova* 24, 221-226, doi:10.1111/j.1365-3121.2011.01057.x
76. Resentini A., **Malusà M.G.*** (2012) Sediment budgets by detrital apatite fission track dating (Rivers Dora Baltea and Arc, Western Alps). In: *Rasbury E.T. et al. (eds.), "Mineralogical and Geochemical Approaches to Provenance"*, *Geol. Soc. Am. Spec. Paper* 487, 125-140, doi:10.1130/2012.2487(08)
77. Garzanti E., Resentini A.*, Vezzoli G., Andò S., **Malusà M.G.**, Padoan M. (2012) Forward compositional modelling of Alpine orogenic sediment. *Sediment. Geol.* 280, 149-164, doi.org/10.1016/j.sedgeo.2012.03.012
78. **Malusà M.G.***, Garzanti E. (2012) Actualistic snapshot of the early Oligocene Alps: the Alps-Apennines knot disentangled. *Terra Nova* 24, 1-6, doi: 10.1111/j.1365-3121.2011.01030.x
79. **Malusà M.G.***, Faccenna C., Garzanti E., Polino R. (2011) Divergence in subduction zones and exhumation of high pressure rocks (Eocene Western Alps). *Earth Planet. Sci. Lett.* 310, 21-32, doi:10.1016/j.epsl.2011.08.002
80. **Malusà M.G.***, Villa I.M., Vezzoli G., Garzanti E. (2011) Detrital geochronology of unroofing magmatic complexes and the slow erosion of Oligocene volcanoes in the Alps. *Earth Planet. Sci. Lett.* 301, 324-336, doi: 10.1016/j.epsl.2010.11.019
81. D'Adda P.*, Zanchi A., Bergomi M., Berra F., **Malusà M.G.**, Tunesi A., Zanchetta S. (2011) Polyphase thrusting and dyke emplacement in the central Southern Alps (Northern Italy). *Int. J. Earth Sci.* 100, 1095-1113, doi: 10.1007/s00531-010-0586-2
82. Garzanti E., Resentini A.*, Vezzoli G., Andò S., **Malusà M.G.**, Padoan M., Paparella P. (2010) Detrital fingerprints of fossil continental-subduction zones (axial belt provenance, European Alps). *J. Geol.* 118, 341-362, doi: 10.1086/652720
83. Cerrina Feroni A., Ellero A., **Malusà M.G.**, Musumeci G., Ottria G.*, Polino R., Leoni L. (2010) Transpressional tectonics and nappe stacking along the Southern Variscan Front of Morocco. *Int. J. Earth Sci.* 99, 1111-1122, doi: 10.1007/s00531-009-0449-x
84. Molli G.*, Crispini L., **Malusà M.G.**, Mosca P., Piana F., Federico L. (2010) Geology of the Western Alps - Northern Apennine junction area: a regional review - In: *Beltrando M. et al. (eds.), "The Geology of Italy: tectonics and life along plate margins"*. *Journal of the Virtual Explorer, Electronic Edition, ISSN 1441-8142*, vol. 36, paper 10, doi: 10.3809/jvirtex.2010.00215
85. **Malusà M.G.***, Polino R., Zattin M. (2009) Strain partitioning in the axial NW Alps since the Oligocene. *Tectonics* 28, TC3005, 1–26, doi:10.1029/2008TC002370
86. **Malusà M.G.***, Zattin M., Andò S., Garzanti E., Vezzoli G. (2009) Focused erosion in the Alps constrained by fission-track ages on detrital apatites - In: *Lisker F., et al. (eds.), "Thermochronological methods: from palaeotemperature constraints to landscape evolution models"*, *Geol. Soc. London Spec. Publ.* 324, 141-152, doi:10.1144/SP324.11.

87. Garzanti E., **Malusà M.G.*** (2008) The Oligocene Alps: Domal unroofing and drainage development during early orogenic growth. *Earth Planet. Sci. Lett.* 268, 487-500, doi:10.1016/j.epsl.2008.01.039.
88. **Malusà M.G.***, Polino R., Cerrina Feroni A., Ellero A., Ottria G., Baidder L., Musumeci G. (2007) Post-Variscan tectonics in eastern Anti-Atlas (Morocco). *Terra Nova* 19, 481-489, doi: 10.1111/j.1365-3121.2007.00775.x.
89. **Malusà M.G.***, Philippot P., Zattin M., Martin S. (2006) Late stages of exhumation constrained by structural, fluid inclusion and fission track analyses (Sesia-Lanzo unit, Western European Alps). *Earth Planet. Sci. Lett.* 243, 565-580, doi:10.1016/j.epsl.2005.12.030
90. **Malusà M.G.***, Vezzoli G. (2006) Interplay between erosion and tectonics in the Western Alps. *Terra Nova* 18, 104-108, doi:10.1111/j.1365-3121.2006.00669.x.
91. **Malusà M.G.***, Polino R., Zattin M., Bigazzi G., Martin S., Piana F. (2005) Miocene to Present differential exhumation in the Western Alps: Insights from fission track thermochronology. *Tectonics* 24, TC3004, 1-23, doi:10.1029/2004TC001782
92. **Malusà M.G.***, Polino R., Martin S. (2005) The Gran San Bernardo nappe in the Aosta Valley (Western Alps): a composite stack of distinct continental crust units. *Bull. Soc. Géol. France* 176, 417-431
93. **Malusà M.G.***, Zattin M., Andò S., Garzanti E., Vezzoli G. (2005) Detrital apatite fission-track ages from the Po sands: Implications for the erosional pattern of the orogenic source areas. *GeoActa* 4, 57-65
94. **Malusà M.G.***, Mosca P., Borghi A., Dela Pierre F., Polino R. (2002) Approccio multidisciplinare per la ricostruzione dell'assetto tettono-stratigrafico e dell'evoluzione metamorfico-strutturale di un settore di catena orogenica: l'esempio dell'Alta Valle di Susa (Alpi occidentali). *Mem. Soc. Geol. It.* 57, 249-257.

Geological maps and explanatory notes

Coauthor of the following official geological maps and explanatory notes, in the Alps and Atlas orogenic belts, published by the National Geological Surveys of Italy, France, and Morocco:

Carta Geologica d'Italia alla scala 1:50 000:

- Polino R. (coord.) et al., 2002. *Foglio 132-152-153 "Bardonecchia"*. Regione Piemonte – SGI
- Polino R. (coord.) et al., 2002. *Note Ill. Foglio 132-152-153 "Bardonecchia"*. Reg. Piemonte – SGI
- Polino R. (coord.) et al., 2015. *Foglio 90 "Aosta"*. Regione A. Valle d'Aosta – ISPRA
- Polino R. (coord.) et al., 2015. *Note Ill. Foglio 90 "Aosta"*. Regione A. Valle d'Aosta – ISPRA
- Polino R. & Fioraso G. (coord.) et al., 2022. *Foglio 171 "Cesana Torinese"*. ARPA Piemonte – ISPRA

Carte géologique de la France à 1/50 000 :

- Barfety J. et al., 2006. *Feuille de Névache - Bardonecchia - Modane (799)*. BRGM Serv. Géol. Nat.

Carte Géologique du Maroc à 1/50.000 :

- El Boukhari A., Musumeci G. (coord.), 2007. *Feuille Imi n'Ouzrou*. Notes Mém. Serv. géol. Maroc, 517
- Malusà M.G., Schiavo A. (coord.), 2007. *Feuille Taghazout*. Notes Mém. Serv. géol. Maroc, 519
- Dal Piaz G. et al., 2007. *Feuille Taghazout, Notice Expl.* Notes Mém. Serv. géol. Maroc, 519bis
- El Boukhari A., Ottria G. (coord.), 2007. *Feuille Taroucht*. Notes Mém. Serv. géol. Maroc, 520
- El Boukhari A. et al., 2007. *Feuille Taroucht, Notice Expl.* Notes Mém. Serv. géol. Maroc, 520bis

Chapter in books (peer-reviewed)

- **Malusà M.G.***, Garzanti E. (2019) The Sedimentology of Detrital Thermochronology. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 7, p. 123-143, doi: 10.1007/978-3-319-89421-8_7
- **Malusà M.G.***, Fitzgerald P.G. (2019) From Cooling to Exhumation: Setting the Reference Frame for the Interpretation of Thermochronologic Data. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 8, p. 147-164, doi: 10.1007/978-3-319-89421-8_8
- Fitzgerald P.G.*, **Malusà M.G.** (2019) Concept of the Exhumed Partial Annealing (Retention) Zone and Age-Elevation Profiles in Thermochronology. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 9, p. 165-189, doi: 10.1007/978-3-319-89421-8_9

- **Malusà M.G.***, Fitzgerald P.G. (2019) Application of Thermochronology to Geologic Problems: Bedrock and Detrital Approaches. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 10, p. 191-209, doi: 10.1007/978-3-319-89421-8_10
- Baldwin S.L.* , Fitzgerald P.G., **Malusà M.G.** (2019) Crustal exhumation of plutonic and metamorphic rocks: constraints from fission-track thermochronology. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 13, p. 235-257, doi: 10.1007/978-3-319-89421-8_13
- **Malusà M.G.** (2019) A Guide for Interpreting Complex Detrital Age Patterns in Stratigraphic Sequences. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 16, p. 279-293, doi: 10.1007/978-3-319-89421-8_16
- Fitzgerald P.G.* , **Malusà M.G.**, Muñoz J.A. (2019) Detrital Thermochronology Using Conglomerates and Cobbles. In: Malusà MG, Fitzgerald PG (eds) *Fission-Track Thermochronology and Its Application to Geology*. Springer Textbooks in Earth Sciences, Geography and Environment, Chapter 17, p. 295-314, doi: 10.1007/978-3-319-89421-8_17

VISITING RESEARCHSHIP

IGG-CAS Beijing, PRC (Nov 2016; Oct 2018; Oct 2019; Oct 2024; Jul 2025); Syracuse University, NY (Jun 2014; Dec 2015); GFZ Potsdam (Nov 2015); CNRS - Institut de Physique du Globe, Paris (Apr 2003)

INVITED TALKS AND LECTURES

Invited presentations at Conferences or Symposia

- *Penrose 2025 / IEC-15 Conference, Session 6, Rohnert Park, California, USA, 23rd June 2025*
- *International Lithosphere Program (ILP) Workshop, Beijing, 23rd July 2025.*
- *SIGI-SIMP Conference 2025, Session S14, Padova, 16th Sept 2025*
- *EGU General Assembly 2024, Session GM6.4. Vienna, 19th April 2024*
- *AGU Fall Meeting 2021, Session T32A. New Orleans, 15th Dec 2021*
- *International Workshop on Tethys Dynamics, IGG CAS, Beijing, 8th October 2019*
- *International Workshop on Tethys Dynamics, IGG CAS, Beijing, 8th October 2018*
- *EGU General Assembly 2018, Session SSP3.2/GM11.8. Vienna, 9th April 2018*
- *Convegno nazionale “Geologia urbana di Aosta”, SIGEA, 28th Oct 2016, Aosta*
- *EGU General Assembly 2014, Session GM3.1/GD1.4/TS4.5. Vienna, 2nd May 2014*
- *13th International Conference on Thermochronology, Guilin, China 24th -28th August 2012*

Invited talks at Colloquia or Seminars

- Institute of Geology and Geophysics, Chinese Academy of Sciences, 25th Oct 2024, Beijing
- Chinese University of Geosciences, Beijing, 7th Nov 2022 (online)
- Istituto Nazionale di Geofisica e Vulcanologia, 16th Jun 2021 (online)
- Syracuse University, 12th Nov 2020 (online)
- Institute of Geology and Geophysics, Chinese Academy of Sciences, 17th Oct 2019, Beijing
- Università di Torino, 17th May 2018, Torino
- Hefei University Tech, 7th Nov 2016, Hefei, China
- Institute of Geology and Geophysics, Chinese Academy of Sciences, 3rd Nov 2016, Beijing
- 4th CIFALPS Workshop, INGV, 13th Oct 2016, Genova
- GFZ Potsdam, 17th Nov 2015, Potsdam
- 3rd CIFALPS Workshop, ISTERre Grenoble, 10th Sept 2015, Grenoble
- 2nd CIFALPS Project Meeting, INGV, 20-21 Jan 2015, Bologna
- Syracuse University, 27th June 2014, Syracuse, NY
- Institute of Geology and Geophysics, Chinese Academy of Sciences, 28th May 2014, Beijing
- University of Roma Tre, 12th Nov 2009, Roma
- Séminaires LGCA, 6th Nov 2007, Grenoble
- International Workshop “Erosion in the Alps”, 23rd Feb 2006, Milano

ORGANIZATION OF SCIENTIFIC MEETINGS

Scientific Committee:	Member of the Scientific Committee of the 14 th Alpine Workshop (Emile Argand Conference – EGU series), Sion 4th-6th Sept. 2019 Member of the Scientific Committee of the 12 th Alpine Workshop (Emile Argand Conference – EGU series), Montgenèvre - Briançon 13 th -19 th Sept. 2015 Member of the Scientific Committee of the 10 th Workshop on Alpine Geological Studies "CorseAlp 2011", St Florent, Corsica, 10 th -16 th April 2011
Organizing Committee:	81 st Geological Society of Italy Summer Meeting, Torino, 10 th -12 th Sept. 2002 5th Working Group on Sediment Generation Meeting, Milan 28 th -30 th Jun 2022 18 th Int. Conference on Thermochronology, Riva del Garda TN, 3 rd -9 th Sept 2023
Conference Field Trips:	Mid-conference field trip leader, 18 th International Conference on Thermochronology, Riva del Garda: Adamello, 6 th Sept 2023 Pre-conference field trip leader, 18 th International Conference on Thermochronology, Riva del Garda: Eastern and Southern Alps, 31 st Aug - 3 rd Sept 2023 Post-conference field trip leader, 4 th CIFALPS Workshop, 14th-15th Oct 2016 Pre-conference field trip leader, 14 th International Conference on Thermochronology, Chamonix, 5 th -7 th Sept 2014 Pre-conference field trip leader, Seminario Cartografia Geologica 7 th -11 th Nov 2005, Torino, APAT - ARPA Piemonte Pre-conference field trip leader, 81 st Summer Meeting of the Geological Society of Italy, 6 th -9 th Sept 2002

Conference sessions convened

- EGU General Assembly 2025: A. Plunder, M.G. Malusà, S. Schmalholz, E. Le Breton, I. Molinari (co-convenors), “Dynamics and evolution of the Alpine orogenic belt” (GMPV4/TS2), Vienna, 28th April 2025
- EGU General Assembly 2024: A. Plunder, M.R. Handy, M.G. Malusà, R. Schuster, P. Agard (co-convenors), “Dynamics and evolution of the Alpine orogenic belt” (TS2.6), Vienna, 17th April 2024
- EGU General Assembly 2021: A. Paul, N. Bellahsen, G. Hetényi, M.G. Malusà, I. Molinari (co-convenors), “The Alps and neighbouring mountain belts (Pyrenees, Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray)” (TS7.8), online, 19th – 30th April 2021
- EGU General Assembly 2020: A. Paul, M. Handy, G. Hetényi, M.G. Malusà, I. Molinari (co-convenors), “The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray)” (TS7.6/GD7/SM4), online, 7th May 2020
- EGU General Assembly 2019: A. Paul, M. Handy, G. Hetényi, M.G. Malusà, I. Molinari (co-convenors), “The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray)” (TS7.9/GD6.7/SM1.22), Vienna, 11th April 2019
- EGU General Assembly 2018: A. Paul, G. Hetényi, I. Molinari, M.G. Malusà, A. Brogi, S. Corrado (co-convenors), “The Alps and neighbouring mountain belts (Apennines, Dinarides, Carpathians): a multidisciplinary vision (AlpArray)” (TS7.12/GD8.6/SM 4.13), Vienna, 11th April 2018
- EGU General Assembly 2017: A. Paul, G. Hetényi, M.G. Malusà, I. Molinari (co-convenors), “The Alps and neighbouring mountain belts: a multidisciplinary vision (AlpArray)” (TS7.7/SM6.13), Vienna, 25th April 2017
- SGI National Conference 2016: R. Carosi, M.G. Malusà, M. Mattei, and A. Zanchi (co-convenors), “Geodynamics and Paleogeography of Tethyan belts: from convergence to exhumation” (S6), Napoli, 9th Sept 2016
- SGI-SIMP National Conference 2014: G. Capponi, M.G. Malusà, and G. Prosser (co-convenors), “Geodynamics of the Alpine orogenic system: from surface processes to deep dynamics” (S31), Milano, 12th Sept 2014
- AGU Fall Meeting 2012: S. Baldwin, M.G. Malusà, and W. Mann (co-convenors), “Tectonic Mechanisms for Extension Along Convergent Margins” (T42C/T43E), San Francisco, CA, 6th Dec 2013

- SGI National Conference 2012: L. Aldega, M.L. Balestrieri, S. Corrado, N. Malaspina, M.G. Malusà, F. Perri, and M. Zattin (co-convenors), “Exhumation and maximum burial in circum-Mediterranean orogens: from mantle depth to the surface” (TS1.5), Arcavacata di Rende (CS), 18th-20th Sept 2012
- 13th International Conference on Thermochronology, Guilin, China 24-28 August, 2012 (Chairman - session “Thermochronology of orogenic belts”)
- 10th Workshop on Alpine Geological Studies “CorseAlp2011”, 10th-16th April 2011 (Chairman - session “Alpine orogens and Mediterranean tectonics II: coupling between tectonics and surface processes”)
- EGU General Assembly 2010: R. Bousquet, M.G. Malusà, C. Rosenberg, and C. Sue (co-convenors), “Geodynamics of the Alps - from deep-seated to surface processes” (TS4.5/GM5.6), Vienna, 6th May 2010

ORGANIZATION OF ADVANCED INTERNATIONAL SCHOOLS

- Summer school “DEPThS - Field-based Summer School on Subduction Forearc Dynamics”, organizers: Malusà MG, Ferrando S, Guillot S, Groppo C, Paul A (Milan and the Western Alps, 6th-10th Sept 2021)
- Summer school “DEPThS - Field-based Summer School on Subduction Forearc Dynamics - second edition”, organizers: Malusà MG, Ferrando S, Guillot S, Groppo C, Paul A (Milan and the Western Alps, 1st-5th July 2022)
- Short course “Detrital geochronology and thermochronology”, organizers: Malusà MG & Villa IM (online): Jan-Feb 2021; Jan-Feb 2022; Jan-Feb 2023; Jan 2024; Jan 2025; Jan 2026.

OTHER SYNERGISTIC ACTIVITIES

- Coordinator of research projects and/or local units: DFG Project WI 3874/3-1 (2014-2015), P.I., M. Malusà, H. Wittmann-Oelze; PRIN 2022 ITAL Project (2025-2026), P.I., M. Zattin; Head of UniMiB Unit, M. Malusà.
- Scientific director in international mapping projects (Carte Géologique du Maroc au 1/50.000, 2004-2007)
- Member of the AlpArray initiative Science Council (since 2018)

PUBLIC ENGAGEMENT ACTIVITIES

- Interviews in national or local newspapers: Repubblica – ed. Milano (11/6/2025; 11/3/2022; 14/9/2021); Il Giorno – ed. Milano (11/8/2024); l’Ancora settimanale (12/1/2025; 26/9/2021)
- Interviews on national radio and television news programs: TGI h 20:00 (17/9/2021)
- Participation in national television productions: Meraviglie Geologiche d’Italia: le Alpi occidentali (seconda parte) - FOCUS-Mediaset 2024 (61 minutes, broadcast on 20/12/2024 with periodic reruns) https://mediasetinfinity.mediaset.it/video/meravigliegeologicheitaliasud/alpi-occidentali-seconda-parte_F311126401000901
- Participation in debates and festivals: Okarte.it 13/06/2022 Triennale Estate Unknown Unknowns
- Organization of public engagement activities for high school students: “Non solo ambiente ma dialoghi di Scienza” (2023, 2024, 2025, 2026): <https://www.disat.unimib.it/it/didattica/dottorato-scienze-chimiche-geologiche-e-ambientali/non-solo-ambiente>
- Publications for a non-academic audience: Diario 2022 - Magazine online di Triennale Milano (7/9/2022): <https://triennale.org/magazine/universita-mistero-pianeta-terra>

TEACHING, MENTORING AND TRAINING

- Courses taught at University of Milano-Bicocca (250 credits and >2100 hours teaching since 2005):
 since 2005 - Field geology and mapping (including interpretation of geological maps) - B.Sc. level
 since 2006 - Field training (application of field geology techniques in orogenic areas) - B.Sc. level
 since 2008-2014 Geology of sedimentary basins, seismic stratigraphy - M.Sc. level
 since 2008-2014 Advanced stratigraphy and regional geology - M.Sc. level
- Advisor (or co-advisor) for 4 PhD theses, 11 MSc theses, and 54 BSc theses (1 in progress)
 (5 advised students received the Forcella Award for the best field-geology thesis at UniMi and UniMiB)
- 17 students from Italy and China trained in the Laboratory for fission-track analysis since 2008
- External examiner for PhD theses (UJF Grenoble, University of Bologna, University of Roma Tre)

Milano, 19 May 2026