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Research at Barillaro's group is focused on the preparation of novel inorganic and organic materials, structures, and systems at the micro and nanoscale with applications in the fields of (nano)photonics, microelectronics, (bio)sensing, and (nano)medicine.

G. Barillaro is author of 100 papers on peer-reviewed international journals and holds over 20 patents pending (10 issued in US, EU, CN). He led more the 20 research project, both at international and national levels on micro and nanostructured materials and platforms for (bio)sensing and (nano)medicine. He is an associate editor of the IEEE Sensors Journal and of Scientific Report NPG.