## Stefano Mariani

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	4D Printing of a Bioinspired Microneedle Array with Backwardâ€Facing Barbs for Enhanced Tissue Adhesion. Advanced Functional Materials, 2020, 30, 1909197.	14.9	180
2	Surface plasmon resonance applications in clinical analysis. Analytical and Bioanalytical Chemistry, 2014, 406, 2303-2323.	3.7	165
3	Flexible Polydimethylsiloxane Foams Decorated with Multiwalled Carbon Nanotubes Enable Unprecedented Detection of Ultralow Strain and Pressure Coupled with a Large Working Range. ACS Applied Materials & Interfaces, 2018, 10, 13877-13885.	8.0	119
4	Layer-by-layer biofunctionalization of nanostructured porous silicon for high-sensitivity and high-selectivity label-free affinity biosensing. Nature Communications, 2018, 9, 5256.	12.8	74
5	10â€ <sup>-</sup> 000-Fold Improvement in Protein Detection Using Nanostructured Porous Silicon Interferometric Aptasensors. ACS Sensors, 2016, 1, 1471-1479.	7.8	70
6	Bioresorbable Materials on the Rise: From Electronic Components and Physical Sensors to In Vivo Monitoring Systems. Advanced Science, 2020, 7, 1902872.	11.2	70
7	Femtomole Detection of Proteins Using a Label-Free Nanostructured Porous Silicon Interferometer for Perspective Ultrasensitive Biosensing. Analytical Chemistry, 2016, 88, 8502-8509.	6.5	50
8	Decoration of Porous Silicon with Gold Nanoparticles via Layer-by-Layer Nanoassembly for Interferometric and Hybrid Photonic/Plasmonic (Bio)sensing. ACS Applied Materials & Interfaces, 2019, 11, 43731-43740.	8.0	47
9	A reusable optical biosensor for the ultrasensitive and selective detection of unamplified human genomic DNA with gold nanostars. Biosensors and Bioelectronics, 2015, 74, 981-988.	10.1	45
10	Direct detection of genomic DNA by surface plasmon resonance imaging: An optimized approach. Biosensors and Bioelectronics, 2013, 40, 193-199.	10.1	37
11	Bioanalytical approaches for the detection of single nucleotide polymorphisms by Surface Plasmon Resonance biosensors. Biosensors and Bioelectronics, 2014, 61, 28-37.	10.1	34
12	Electrical Double Layer-Induced Ion Surface Accumulation for Ultrasensitive Refractive Index Sensing with Nanostructured Porous Silicon Interferometers. ACS Sensors, 2018, 3, 595-605.	7.8	24
13	Bioresorbable Nanostructured Chemical Sensor for Monitoring of pH Level In Vivo. Advanced Science, 2022, 9, .	11.2	20
14	Moldless Printing of Silicone Lenses with Embedded Nanostructured Optical Filters. Advanced Functional Materials, 2020, 30, 1906836.	14.9	19
15	<i>In situ</i> controlled and conformal coating of polydimethylsiloxane foams with silver nanoparticle networks with tunable piezo-resistive properties. Nanoscale Horizons, 2022, 7, 425-436.	8.0	18
16	Single nucleotide polymorphism detection by optical DNA-based sensing coupled with whole genomic amplification. Analytical and Bioanalytical Chemistry, 2013, 405, 985-993.	3.7	16
17	Three-dimensional silicon-integrated capacitor with unprecedented areal capacitance for on-chip energy storage. Nano Energy, 2020, 68, 104281.	16.0	16
18	Maskless Preparation of Spatiallyâ€Resolved Plasmonic Nanoparticles on Polydimethylsiloxane via In Situ Fluorideâ€Assisted Synthesis. Advanced Functional Materials, 2021, 31, 2100774.	14.9	16

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19	Investigating nanoparticle properties in plasmonic nanoarchitectures with DNA by surface plasmon resonance imaging. Chemical Communications, 2015, 51, 6587-6590.	4.1	14
20	SPR-Based Affinity Biosensors as Innovative Analytical Devices. Journal of Lightwave Technology, 2015, 33, 3374-3384.	4.6	14
21	Real-time kinetic binding studies at attomolar concentrations in solution phase using a single-stage opto-biosensing platform based upon infrared surface plasmons. Optics Express, 2017, 25, 39.	3.4	13
22	Improving surface plasmon resonance imaging of DNA by creating new gold and silver based surface nanostructures. Mikrochimica Acta, 2013, 180, 1093-1099.	5.0	12
23	Label free Affinity sensing: application to food analysis. Acta IMEKO (2012), 2016, 5, 36.	0.7	10
24	4D Printing of Plasmonâ€Encoded Tunable Polydimethylsiloxane Lenses for Onâ€Field Microscopy of Microbes. Advanced Optical Materials, 2022, 10, 2101610.	7.3	10
25	Low-Concentration Ethanol Vapor Sensing With Nanostructured Porous Silicon Interferometers Using Interferogram Average Over Wavelength Reflectance Spectroscopy. IEEE Sensors Journal, 2018, 18, 7842-7849.	4.7	8
26	Direct genotyping of C3435T single nucleotide polymorphism in unamplified human MDR1 gene using a surface plasmon resonance imaging DNA sensor. Analytical and Bioanalytical Chemistry, 2015, 407, 4023-4028.	3.7	7
27	Nanoscale Photoluminescence Manipulation in Monolithic Porous Silicon Oxide Microcavity Coated with Rhodamineâ€Labeled Polyelectrolyte via Electrostatic Nanoassembling. Advanced Optical Materials, 2021, 9, 2100036.	7.3	7
28	Morphological Computation in Plant Seeds for a New Generation of Self-Burial and Flying Soft Robots. Frontiers in Robotics and AI, 2021, 8, 797556.	3.2	6
29	Macroporous PDMS foam decorated with carbon nanotubes for conductometric pressure and strain sensors. , 2017, , .		4
30	Electrochemical and optical study of metallothionein interactions with prion proteins. Journal of Pharmaceutical and Biomedical Analysis, 2017, 140, 355-361.	2.8	3
31	Interferogram Average over Wavelength Spectroscopy: An Ultrasensitive Technique for Biosensing with Porous Silicon Interferometers. ECS Transactions, 2017, 77, 1815-1823.	0.5	3
32	Porous silicon interferometers for high-sensitivity label-free detection of biomolecules. , 2017, , .		0
33	Bioresorbable and Biodegradable Electronics and Photonics. , 2020, , .		0
34	Layer-by-layer nano-assembly of charged polyelectrolytes for label-free optical biosensing with nanostructured materials: the case of nanostructured porous silicon interferometers. , 2019, , .		0