

Stefano Mariani

List of Publications by Year in descending order

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34
papers

1,131
citations

516710

16
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	4D Printing of Plasmon-Encoded Tunable Polydimethylsiloxane Lenses for On-Field Microscopy of Microbes. <i>Advanced Optical Materials</i> , 2022, 10, 2101610.	7.3	10
2	<i>In situ</i> controlled and conformal coating of polydimethylsiloxane foams with silver nanoparticle networks with tunable piezo-resistive properties. <i>Nanoscale Horizons</i> , 2022, 7, 425-436.	8.0	18
3	Bioresorbable Nanostructured Chemical Sensor for Monitoring of pH Level In Vivo. <i>Advanced Science</i> , 2022, 9, .	11.2	20
4	Maskless Preparation of Spatially-Resolved Plasmonic Nanoparticles on Polydimethylsiloxane via In Situ Fluoride-Assisted Synthesis. <i>Advanced Functional Materials</i> , 2021, 31, 2100774.	14.9	16
5	Nanoscale Photoluminescence Manipulation in Monolithic Porous Silicon Oxide Microcavity Coated with Rhodamine-Labeled Polyelectrolyte via Electrostatic Nanoassembling. <i>Advanced Optical Materials</i> , 2021, 9, 2100036.	7.3	7
6	Morphological Computation in Plant Seeds for a New Generation of Self-Burial and Flying Soft Robots. <i>Frontiers in Robotics and AI</i> , 2021, 8, 797556.	3.2	6
7	Moldless Printing of Silicone Lenses with Embedded Nanostructured Optical Filters. <i>Advanced Functional Materials</i> , 2020, 30, 1906836.	14.9	19
8	Three-dimensional silicon-integrated capacitor with unprecedented areal capacitance for on-chip energy storage. <i>Nano Energy</i> , 2020, 68, 104281.	16.0	16
9	Bioresorbable and Biodegradable Electronics and Photonics. , 2020, , .		0
10	Bioresorbable Materials on the Rise: From Electronic Components and Physical Sensors to In Vivo Monitoring Systems. <i>Advanced Science</i> , 2020, 7, 1902872.	11.2	70
11	4D Printing of a Bioinspired Microneedle Array with Backward-Facing Barbs for Enhanced Tissue Adhesion. <i>Advanced Functional Materials</i> , 2020, 30, 1909197.	14.9	180
12	Decoration of Porous Silicon with Gold Nanoparticles via Layer-by-Layer Nanoassembly for Interferometric and Hybrid Photonic/Plasmonic (Bio)sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43731-43740.	8.0	47
13	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
14	Flexible Polydimethylsiloxane Foams Decorated with Multiwalled Carbon Nanotubes Enable Unprecedented Detection of Ultralow Strain and Pressure Coupled with a Large Working Range. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13877-13885.	8.0	119
15	Electrical Double Layer-Induced Ion Surface Accumulation for Ultrasensitive Refractive Index Sensing with Nanostructured Porous Silicon Interferometers. <i>ACS Sensors</i> , 2018, 3, 595-605.	7.8	24
16	Layer-by-layer biofunctionalization of nanostructured porous silicon for high-sensitivity and high-selectivity label-free affinity biosensing. <i>Nature Communications</i> , 2018, 9, 5256.	12.8	74
17	Low-Concentration Ethanol Vapor Sensing With Nanostructured Porous Silicon Interferometers Using Interferogram Average Over Wavelength Reflectance Spectroscopy. <i>IEEE Sensors Journal</i> , 2018, 18, 7842-7849.	4.7	8
18	Electrochemical and optical study of metallothionein interactions with prion proteins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 140, 355-361.	2.8	3

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19	Interferogram Average over Wavelength Spectroscopy: An Ultrasensitive Technique for Biosensing with Porous Silicon Interferometers. ECS Transactions, 2017, 77, 1815-1823.	0.5	3
20	Macroporous PDMS foam decorated with carbon nanotubes for conductometric pressure and strain sensors. , 2017, , .		4
21	Porous silicon interferometers for high-sensitivity label-free detection of biomolecules. , 2017, , .		0
22	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
23	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
24	10 ⁶ -Fold Improvement in Protein Detection Using Nanostructured Porous Silicon Interferometric Aptasensors. ACS Sensors, 2016, 1, 1471-1479.	7.8	70
25	Label free Affinity sensing: application to food analysis. Acta IMEKO (2012), 2016, 5, 36.	0.7	10
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	Investigating nanoparticle properties in plasmonic nanoarchitectures with DNA by surface plasmon resonance imaging. Chemical Communications, 2015, 51, 6587-6590.	4.1	14
28	SPR-Based Affinity Biosensors as Innovative Analytical Devices. Journal of Lightwave Technology, 2015, 33, 3374-3384.	4.6	14
29	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
30	Surface plasmon resonance applications in clinical analysis. Analytical and Bioanalytical Chemistry, 2014, 406, 2303-2323.	3.7	165
31	Bioanalytical approaches for the detection of single nucleotide polymorphisms by Surface Plasmon Resonance biosensors. Biosensors and Bioelectronics, 2014, 61, 28-37.	10.1	34
32	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
33	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
34	Direct detection of genomic DNA by surface plasmon resonance imaging: An optimized approach. Biosensors and Bioelectronics, 2013, 40, 193-199.	10.1	37