Maria Alba

List of Publications by Year
in descending order

32 papers	962 citations	471061 17 h-index	454577 30 g-index
34 all docs	34 docs citations	34 times ranked	1315 citing authors

#	Article	IF	Citations
1	Skin in the diagnostics game: Wearable biosensor nano- and microsystems for medical diagnostics. Nano Today, 2020, 30, 100828.	6.2	106
2	Nanoporous Anodic Alumina Barcodes: Toward Smart Optical Biosensors. Advanced Materials, 2012, 24, 1050-1054.	11.1	104
3	Advances in Porous Siliconâ€“Based Nanomaterials for Diagnostic and Therapeutic Applications. Advanced Therapeutics, 2019, 2, 1800095.	1.6	92
4	Macroscale Plasmonic Substrates for Highly Sensitive Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie - International Edition, 2013, 52, 6459-6463.	7.2	75
5	Transdermal Electrochemical Monitoring of Glucose via Highâ€Density Silicon Microneedle Array Patch. Advanced Functional Materials, 2022, 32, 2009850.	7.8	66
6	Electrochemical immunosensor for breast cancer biomarker detection using high-density silicon microneedle array. Biosensors and Bioelectronics, 2021, 192, 113496.	5.3	53
7	Surface roughness boosts the SERS performance of imprinted plasmonic architectures. Journal of Materials Chemistry C, 2016, 4, 3970-3975.	2.7	52
8	Structural tuning of photoluminescence in nanoporous anodic alumina by hard anodization in oxalic and malonic acids. Nanoscale Research Letters, 2012, 7, 228.	3.1	45
9	Tunable Fabry-PÃ©rot interferometer based on nanoporous anodic alumina for optical biosensing purposes. Nanoscale Research Letters, 2012, 7, 370.	3.1	29
10	Understanding and morphology control of pore modulations in nanoporous anodic alumina by discontinuous anodization. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2045-2048.	0.8	29
11	Optofluidic Characterization of Nanoporous Membranes. Langmuir, 2013, 29, 2784-2789.	1.6	26
12	pH-responsive drug delivery system based on hollow silicon dioxide micropillars coated with polyelectrolyte multilayers. Nanoscale Research Letters, 2014, 9, 411.	3.1	26
13	Silicon Micropillar Array-Based Wearable Sweat Glucose Sensor. ACS Applied Materials & Interfaces, 2022, 14, 2401-2410.	4.0	26
14	Pentacene-based metal-insulator-semiconductor memory structures utilizing single walled carbon nanotubes as a nanofloating gate. Applied Physics Letters, 2012, 100, .	1.5	22
15	Protein attachment to silane-functionalized porous silicon: A comparison of electrostatic and covalent attachment. Journal of Colloid and Interface Science, 2015, 452, 180-189.	5.0	22
16	Engineering Microâ€“Nanomaterials for Biomedical Translation. Advanced NanoBiomed Research, 2021, 1, 2100002.	1.7	20
17	Improved memory behaviour of single-walled carbon nanotubes charge storage nodes. Journal Physics D: Applied Physics, 2012, 45, 295401.	1.3	18
18	Microâ€•and Nanosystems for Advanced Transdermal Delivery. Advanced Therapeutics, 2019, 2, 1900141.	1.6	18

#	Article	IF	Citations
19	Selective dual-side functionalization of hollow SiO2 micropillar arrays for biotechnological applications. RSC Advances, 2014, 4, 11409.	1.7	17
20	Polymeric Nanoneedle Arrays Mediate Stiffnessâ€Independent Intracellular Delivery. Advanced Functional Materials, 0, , 2104828.	7.8	15
21	Human aortic endothelial cell morphology influenced by topography of porous silicon substrates. Journal of Biomaterials Applications, 2015, 30, 398-408.	1.2	14
22	Macroscale Plasmonic Substrates for Highly Sensitive Surfaceâ€Enhanced Raman Scattering. Angewandte Chemie, 2013, 125, 6587-6591.	1.6	12
23	Silica Nanopills for Targeted Anticancer Drug Delivery. Small, 2015, 11, 4626-4631.	5.2	12
24	Near-Field Mapping of Localized Plasmon Resonances in Metal-Free, Nanomembrane Graphene for Mid-Infrared Sensing Applications. ACS Applied Nano Materials, 2018, 1, 6454-6462.	2.4	12
25	Effects of macro- versus nanoporous silicon substrates on human aortic endothelial cell behavior. Nanoscale Research Letters, 2014, 9, 421.	3.1	10
26	Designing Electrochemical Biosensing Platforms Using Layered Carbon-Stabilized Porous Silicon Nanostructures. ACS Applied Materials & Interfaces, 2022, 14, 15565-15575.	4.0	10
27	Effects of SiO2 micropillar arrays on endothelial cellsâ€™ morphology. New Biotechnology, 2016, 33, 781-789.	2.4	9
28	Carbon-stabilized porous silicon as novel voltammetric sensor platforms. Electrochimica Acta, 2021, 377, 138077.	2.6	9
29	Enzyme-like electrocatalysis from 2D gold nanograss-nanocube assemblies. Journal of Colloid and Interface Science, 2020, 575, 24-34.	5.0	6
30	Differential functionalisation of the internal and external surfaces of carbon-stabilised nanoporous silicon. Chemical Communications, 2019, 55, 8001-8004.	2.2	3
31	Transdermal Electrochemical Monitoring of Glucose via Highâ€Density Silicon Microneedle Array Patch (Adv. Funct. Mater. 3/2022). Advanced Functional Materials, 2022, 32, .	7.8	2
32	Single-walled nanotube MIS memory devices. , 2011, , .		1