Roberta D'Agata

List of Publications by Year
in descending order

35 papers	1,302 citations	331538 21 h-index	377752 34 g-index
35 all docs	35 docs citations	35 times ranked	1792 citing authors

#	Article	IF	Citations
1	Functionalized gold nanoparticles for ultrasensitive DNA detection. Analytical and Bioanalytical Chemistry, 2012, 402, 1759-1771.	1.9	127
2	Surface Plasmon Resonance for Biomarker Detection: Advances in Non-invasive Cancer Diagnosis. Frontiers in Chemistry, 2019, 7, 570.	1.8	125
3	A global benchmark study using affinity-based biosensors. Analytical Biochemistry, 2009, 386, 194-216.	1.1	85
4	Peptide Nucleic Acid-Based Biosensors for Cancer Diagnosis. Molecules, 2017, 22, 1951.	1.7	83
5	Ultrasensitive detection of non-amplified genomic DNA by nanoparticle-enhanced surface plasmon resonance imaging. Biosensors and Bioelectronics, 2010, 25, 2095-2100.	5.3	76
6	Ultrasensitive Detection of DNA by PNA and Nanoparticleâ€Enhanced Surface Plasmon Resonance Imaging. ChemBioChem, 2008, 9, 2067-2070.	1.3	73
7	Direct Detection of Point Mutations in Nonamplified Human Genomic DNA. Analytical Chemistry, 2011, 83, 8711-8717.	3.2	72
8	EGOFET Peptide Aptasensor for Labelâ€Free Detection of Inflammatory Cytokines in Complex Fluids. Advanced Biology, 2018, 2, 1700072.	3.0	63
9	Surface plasmon resonance imaging for nucleic acid detection. Analytical and Bioanalytical Chemistry, 2013, 405, 573-584.	1.9	56
10	Isothermal circular-strand-displacement polymerization of DNA and microRNA in digital microfluidic devices. Analytical and Bioanalytical Chemistry, 2015, 407, 1533-1543.	1.9	47
11	Streptavidin-coated gold nanoparticles: critical role of oligonucleotides on stability and fractal aggregation. Beilstein Journal of Nanotechnology, 2017, 8, 1-11.	1.5	43
12	New glycoside derivatives of carnosine and analogs resistant to carnosinase hydrolysis: Synthesis and characterization of their copper(II) complexes. Journal of Inorganic Biochemistry, 2011, 105, 181-188.	1.5	39
13	Microfluidic networks for surface plasmon resonance imaging real-time kinetics experiments. Microchemical Journal, 2009, 93, 82-86.	2.3	38
14	Enzyme solid-state support assays: a surface plasmon resonance and mass spectrometry coupled study of immobilized insulin degrading enzyme. European Biophysics Journal, 2009, 38, 407-414.	1.2	37
15	Advanced methods for microRNA biosensing: a problem-solving perspective. Analytical and Bioanalytical Chemistry, 2019, 411, 4425-4444.	1.9	37
16	Lectin recognition of a new SOD mimic bioconjugate studied with surface plasmon resonance imaging. Organic and Biomolecular Chemistry, 2006, 4, 610.	1.5	34
17	Activity of anchored human matrix metalloproteinase-1 catalytic domain on Au (111) surfaces monitored by ESI-MS. Journal of Mass Spectrometry, 2005, 40, 1565-1571.	0.7	31
18	Recent Advances in Antifouling Materials for Surface Plasmon Resonance Biosensing in Clinical Diagnostics and Food Safety. Polymers, 2021, 13, 1929.	2.0	26

#	Article	IF	Citations
19	Artificial DNA and surface plasmon resonance. Artificial DNA, PNA & XNA, 2012, 3, 45-52.	1.4	25
20	Label free detection of miRNA-21 with electrolyte gated organic field effect transistors (EGOFETs). Biosensors and Bioelectronics, 2021, 182, 113144.	5.3	25
21	Direct plasmonic detection of circulating RAS mutated DNA in colorectal cancer patients. Biosensors and Bioelectronics, 2020, 170, 112648.	5.3	24
22	Peptide nucleic acid molecular beacons for the detection of PCR amplicons in droplet-based microfluidic devices. Analytical and Bioanalytical Chemistry, 2013, 405, 615-624.	1.9	21
23	A new ultralow fouling surface for the analysis of human plasma samples with surface plasmon resonance. Talanta, 2021, 221, 121483.	2.9	20
24	Detection of Tumor DNA in Human Plasma with a Functional PLL-Based Surface Layer and Plasmonic Biosensing. ACS Sensors, 2021, 6, 2307-2319.	4.0	19
25	Real-Time Binding Kinetics Monitored with Surface Plasmon Resonance Imaging in a Diffusion-Free Environment. The Open Spectroscopy Journal, 2008, 2, 1-9.	1.0	16
26	Ultrasensitive Detection of Staphylococcus aureus and Listeria monocytogenes Genomic DNA by Nanoparticleâ€Enhanced Surface Plasmon Resonance Imaging. ChemistrySelect, 2017, 2, 7024-7030.	0.7	12
27	Cyclodextrin-functionalised gold nanoparticles via streptavidin: a supramolecular approach. Supramolecular Chemistry, 2013, 25, 465-473.	1.5	11
28	Cyclam glycoconjugates as lectin ligands and protective agents of metal-induced amyloid aggregation. Journal of Inorganic Biochemistry, 2015, 153, 377-382.	1.5	10
29	Nanoparticle-Enhanced Surface Plasmon Resonance Imaging Enables the Ultrasensitive Detection of Non-Amplified Cell-Free Fetal DNA for Non-Invasive Prenatal Testing. Analytical Chemistry, 2022, 94, 1118-1125.	3.2	8
30	Novel nucleic acid origami structures and conventional molecular beaconâ€“based platforms: a comparison in biosensing applications. Analytical and Bioanalytical Chemistry, 2021, 413, 6063-6077.	1.9	7
31	Atmospheric pressure MALDI for the noninvasive characterization of carbonaceous ink from Renaissance documents. Analytical and Bioanalytical Chemistry, 2017, 409, 3943-3950.	1.9	5
32	Ordered anchored cavities at work: a new and rapid SPR-based method for the detection of trace amounts of Cs+. New Journal of Chemistry, 2005, 29, 1393.	1.4	3
33	Droplet Microfluidic Device Fabrication and Use for Isothermal Amplification and Detection of MicroRNA. Methods in Molecular Biology, 2017, 1580, 71-78.	0.4	3
34	Surface Plasmon Resonance-Based Methods. Soft and Biological Matter, 2012, , 235-261.	0.3	1
35	Ultrasensitive Detection of Non-amplified Genomic DNA. Lecture Notes in Electrical Engineering, 2011, , 485-488.	0.3	0