

# Giuseppe Spoto

## List of Publications by Year in descending order

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70  
papers

2,616  
citations

147801

31  
h-index

197818

49  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isothermal Amplification Methods for the Detection of Nucleic Acids in Microfluidic Devices. <i>Biosensors</i> , 2013, 3, 18-43.	4.7	202
2	Integration of isothermal amplification methods in microfluidic devices: Recent advances. <i>Biosensors and Bioelectronics</i> , 2017, 90, 174-186.	10.1	130
3	Functionalized gold nanoparticles for ultrasensitive DNA detection. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1759-1771.	3.7	127
4	Surface Plasmon Resonance for Biomarker Detection: Advances in Non-invasive Cancer Diagnosis. <i>Frontiers in Chemistry</i> , 2019, 7, 570.	3.6	125
5	Laser spectroscopies for elemental and molecular analysis in art and archaeology. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 339-361.	2.3	92
6	Detection of unamplified genomic DNA by a PNA-based microstructured optical fiber (MOF) Bragg-grating optofluidic system. <i>Biosensors and Bioelectronics</i> , 2015, 63, 248-254.	10.1	86
7	Peptide Nucleic Acid-Based Biosensors for Cancer Diagnosis. <i>Molecules</i> , 2017, 22, 1951.	3.8	83
8	Ultrasensitive detection of non-amplified genomic DNA by nanoparticle-enhanced surface plasmon resonance imaging. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2095-2100.	10.1	76
9	Surface Plasmon Resonance Imaging: What Next?. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2682-2691.	4.6	75
10	Ultrasensitive Detection of DNA by PNA and Nanoparticle-Enhanced Surface Plasmon Resonance Imaging. <i>ChemBioChem</i> , 2008, 9, 2067-2070.	2.6	73
11	Direct Detection of Point Mutations in Nonamplified Human Genomic DNA. <i>Analytical Chemistry</i> , 2011, 83, 8711-8717.	6.5	72
12	Copper(I) and Copper(II) Inhibit $\text{A}\beta^2$ Peptides Proteolysis by Insulin-Degrading Enzyme Differently: Implications for Metallostatics Alteration in Alzheimer's Disease. <i>Chemistry - A European Journal</i> , 2011, 17, 2752-2762.	3.3	68
13	Somatostatin: A Novel Substrate and a Modulator of Insulin-Degrading Enzyme Activity. <i>Journal of Molecular Biology</i> , 2009, 385, 1556-1567.	4.2	67
14	Biosensors for liquid biopsy: circulating nucleic acids to diagnose and treat cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7255-7264.	3.7	60
15	Surface plasmon resonance imaging for nucleic acid detection. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 573-584.	3.7	56
16	Probing archaeological and artistic solid materials by spatially resolved analytical techniques. <i>Chemical Society Reviews</i> , 2000, 29, 429-439.	38.1	48
17	Metal ions affect insulin-degrading enzyme activity. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 351-358.	3.5	48
18	Isothermal circular-strand-displacement polymerization of DNA and microRNA in digital microfluidic devices. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1533-1543.	3.7	47

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19	Streptavidin-coated gold nanoparticles: critical role of oligonucleotides on stability and fractal aggregation. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1-11.	2.8	43
20	Liquid biopsy and PCR-free ultrasensitive detection systems in oncology (Review). <i>International Journal of Oncology</i> , 2018, 53, 1395-1434.	3.3	41
21	AP/MALDI-MS complete characterization of the proteolytic fragments produced by the interaction of insulin degrading enzyme with bovine insulin. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1590-1598.	1.6	40
22	How the binding and degrading capabilities of insulin degrading enzyme are affected by ubiquitin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1122-1126.	2.3	40
23	Microfluidic networks for surface plasmon resonance imaging real-time kinetics experiments. <i>Microchemical Journal</i> , 2009, 93, 82-86.	4.5	38
24	Enzyme solid-state support assays: a surface plasmon resonance and mass spectrometry coupled study of immobilized insulin degrading enzyme. <i>European Biophysics Journal</i> , 2009, 38, 407-414.	2.2	37
25	Advanced methods for microRNA biosensing: a problem-solving perspective. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4425-4444.	3.7	37
26	Secondary ion mass spectrometry in art and archaeology. <i>Thermochimica Acta</i> , 2000, 365, 157-166.	2.7	34
27	Lectin recognition of a new SOD mimic bioconjugate studied with surface plasmon resonance imaging. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 610.	2.8	34
28	The proteolytic activity of insulin-degrading enzyme: a mass spectrometry study. <i>Journal of Mass Spectrometry</i> , 2009, 44, 735-741.	1.6	33
29	In Situ AP/MALDI-MS characterization of anchored matrix metalloproteinases. <i>Journal of Mass Spectrometry</i> , 2006, 41, 1561-1569.	1.6	32
30	Ultrasensitive detection of lysozyme in droplet-based microfluidic devices. <i>Biosensors and Bioelectronics</i> , 2018, 104, 8-14.	10.1	32
31	Activity of anchored human matrix metalloproteinase-1 catalytic domain on Au (111) surfaces monitored by ESI-MS. <i>Journal of Mass Spectrometry</i> , 2005, 40, 1565-1571.	1.6	31
32	MALDI, AP/MALDI and ESI techniques for the MS detection of amyloid $\beta$ -peptides. <i>International Journal of Mass Spectrometry</i> , 2009, 282, 50-55.	1.5	31
33	Role of Linear Carbon Chains in the Aggregation of Copper, Silver, and Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 907-915.	3.1	31
34	Synthesis, characterization of a novel calixarene having dipyrindyl pendants and study of its complexes with Cu(II) and Co(II). <i>Tetrahedron Letters</i> , 2003, 44, 5415-5418.	1.4	30
35	Strategies Based on Calixcrowns for the Detection and Removal of Cesium Ions from Alkali-Containing Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 3605-3610.	3.7	27
36	A new methodology for monitoring the activity of cdMMP-12 anchored and freeze-dried on Au (111). <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 961-969.	2.8	27

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37	Recent Advances in Antifouling Materials for Surface Plasmon Resonance Biosensing in Clinical Diagnostics and Food Safety. <i>Polymers</i> , 2021, 13, 1929.	4.5	26
38	Artificial DNA and surface plasmon resonance. <i>Artificial DNA, PNA &amp; XNA</i> , 2012, 3, 45-52.	1.4	25
39	Surface plasmon resonance for the label-free detection of Alzheimer's $\beta$ -amyloid peptide aggregation. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 849-854.	3.7	25
40	Label free detection of miRNA-21 with electrolyte gated organic field effect transistors (EGOFETs). <i>Biosensors and Bioelectronics</i> , 2021, 182, 113144.	10.1	25
41	Direct plasmonic detection of circulating RAS mutated DNA in colorectal cancer patients. <i>Biosensors and Bioelectronics</i> , 2020, 170, 112648.	10.1	24
42	Self-assembling, patterning and SPR imaging of a 1,3 alternate bis(dipyridyl)calix[4]arene derivative $\text{Cu}^{2+}$ complex immobilized on to Au(111) surfaces. <i>Chemical Communications</i> , 2004, , 1812-1813.	4.1	22
43	Peptide nucleic acid molecular beacons for the detection of PCR amplicons in droplet-based microfluidic devices. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 615-624.	3.7	21
44	Structural properties of fluorinated SiO <sub>2</sub> thin films. <i>Microelectronic Engineering</i> , 2000, 50, 67-74.	2.4	20
45	Spatially resolved mass spectrometry in the study of art and archaeological objects. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 856-863.	11.4	20
46	Low-fouling, mixed-charge poly-L-lysine polymers with anionic oligopeptide side-chains. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7662-7673.	5.8	20
47	A new ultralow fouling surface for the analysis of human plasma samples with surface plasmon resonance. <i>Talanta</i> , 2021, 221, 121483.	5.5	20
48	Cyclodextrin polymers as carriers for the platinum-based anticancer agent LA-12. <i>RSC Advances</i> , 2016, 6, 12461-12466.	3.6	19
49	Detection of Tumor DNA in Human Plasma with a Functional PLL-Based Surface Layer and Plasmonic Biosensing. <i>ACS Sensors</i> , 2021, 6, 2307-2319.	7.8	19
50	Influence of the coordination geometry on the physicochemical properties of a copper(ii) complex with a tailor-made calixarene-based ligand bearing dipyridyl pendants. An ESR, UV-Vis and CV study. <i>Dalton Transactions</i> , 2004, , 3205-3211.	3.3	17
51	Plasmonics for the study of metal ion-protein interactions. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1833-1843.	3.7	17
52	In situ identification of organic components of ink used in books from the 1900s by atmospheric pressure matrix assisted laser desorption ionization mass spectrometry. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 97, 263-269.	2.3	16
53	Real-Time Binding Kinetics Monitored with Surface Plasmon Resonance Imaging in a Diffusion-Free Environment. <i>The Open Spectroscopy Journal</i> , 2008, 2, 1-9.	1.0	16
54	Detecting Past Attempts To Restore Two Important Works of Art. <i>Accounts of Chemical Research</i> , 2002, 35, 652-659.	15.6	14

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55	Two Calix-Crown Based Stationary Phases. Synthesis, Chromatographic Performance and X-ray Photoelectron Spectroscopy Investigation. <i>Journal of Supramolecular Chemistry</i> , 2002, 2, 521-531.	0.4	13
56	Ultrasensitive Detection of <i>Staphylococcus aureus</i> and <i>Listeria monocytogenes</i> Genomic DNA by Nanoparticle-Enhanced Surface Plasmon Resonance Imaging. <i>ChemistrySelect</i> , 2017, 2, 7024-7030.	1.5	12
57	Cyclodextrin-functionalised gold nanoparticles via streptavidin: a supramolecular approach. <i>Supramolecular Chemistry</i> , 2013, 25, 465-473.	1.2	11
58	Cyclam glycoconjugates as lectin ligands and protective agents of metal-induced amyloid aggregation. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 377-382.	3.5	10
59	Nanoparticle-Enhanced Surface Plasmon Resonance Imaging Enables the Ultrasensitive Detection of Non-Amplified Cell-Free Fetal DNA for Non-Invasive Prenatal Testing. <i>Analytical Chemistry</i> , 2022, 94, 1118-1125.	6.5	8
60	Novel nucleic acid origami structures and conventional molecular beacon-based platforms: a comparison in biosensing applications. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6063-6077.	3.7	7
61	Analyzing a Sicilian Renaissance portal. <i>Analytical Chemistry</i> , 1995, 67, 249A-253A.	6.5	6
62	Infrared Spectroscopy Study of the Thermal Stability of Fluorinated SiO <sub>2</sub> Thin Films. <i>Journal of the Electrochemical Society</i> , 2001, 148, F47.	2.9	6
63	Atmospheric pressure MALDI for the noninvasive characterization of carbonaceous ink from Renaissance documents. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3943-3950.	3.7	5
64	A Scientific Approach to Cultural Heritage Preservation: A Case Study of Vandalistic Acts on Important Roman Mosaics. <i>Journal of Chemical Education</i> , 1998, 75, 1302.	2.3	3
65	Ordered anchored cavities at work: a new and rapid SPR-based method for the detection of trace amounts of Cs <sup>+</sup> . <i>New Journal of Chemistry</i> , 2005, 29, 1393.	2.8	3
66	Electron transport properties of calix[4]arene based systems in a metal-molecule-metal junction. <i>New Journal of Chemistry</i> , 2007, 31, 756-761.	2.8	3
67	Droplet Microfluidic Device Fabrication and Use for Isothermal Amplification and Detection of MicroRNA. <i>Methods in Molecular Biology</i> , 2017, 1580, 71-78.	0.9	3
68	Microanalytical Characterization of Art-Work Materials: Spatially Resolved Techniques. <i>Microscopy Microanalysis Microstructures</i> , 1995, 6, 533-543.	0.4	3
69	Surface Plasmon Resonance-Based Methods. <i>Soft and Biological Matter</i> , 2012, , 235-261.	0.3	1
70	Ultrasensitive Detection of Non-amplified Genomic DNA. <i>Lecture Notes in Electrical Engineering</i> , 2011, , 485-488.	0.4	0