

# Maria Carmen EstÃ©vez

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

2,967  
citations

218381

26  
h-index

301761

39  
g-index

44  
all docs

44  
docs citations

44  
times ranked

4747  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Sensing Algorithm for Linear Read-Out of Bimodal Waveguide Interferometric Biosensors. <i>Journal of Lightwave Technology</i> , 2022, 40, 237-244.	2.7	10
2	Label-Free Plasmonic Biosensor for Rapid, Quantitative, and Highly Sensitive COVID-19 Serology: Implementation and Clinical Validation. <i>Analytical Chemistry</i> , 2022, 94, 975-984.	3.2	28
3	Real-time monitoring of fenitrothion in water samples using a silicon nanophotonic biosensor. <i>Analytica Chimica Acta</i> , 2021, 1152, 338276.	2.6	13
4	Label-free detection of nosocomial bacteria using a nanophotonic interferometric biosensor. <i>Analyst</i> , 2020, 145, 497-506.	1.7	50
5	How Nanophotonic Label-Free Biosensors Can Contribute to Rapid and Massive Diagnostics of Respiratory Virus Infections: COVID-19 Case. <i>ACS Sensors</i> , 2020, 5, 2663-2678.	4.0	119
6	One-Step Immobilization of Antibodies and DNA on Gold Sensor Surfaces via a Poly-Adenine Oligonucleotide Approach. <i>Analytical Chemistry</i> , 2020, 92, 12596-12604.	3.2	24
7	Detection and Quantification of HspX Antigen in Sputum Samples Using Plasmonic Biosensing: Toward a Real Point-of-Care (POC) for Tuberculosis Diagnosis. <i>ACS Infectious Diseases</i> , 2020, 6, 1110-1120.	1.8	29
8	Optical nanogap antennas as plasmonic biosensors for the detection of miRNA biomarkers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4310-4317.	2.9	22
9	A compact SPR biosensor device for the rapid and efficient monitoring of gluten-free diet directly in human urine. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6407-6417.	1.9	18
10	Nanophotonic Biosensors: Driving Personalized Medicine. <i>Optics and Photonics News</i> , 2020, 31, 24.	0.4	19
11	Early sepsis diagnosis via protein and miRNA biomarkers using a novel point-of-care photonic biosensor. <i>Analytica Chimica Acta</i> , 2019, 1077, 232-242.	2.6	71
12	Label-free Bacteria Quantification in Blood Plasma by a Bioprinted Microarray Based Interferometric Point-of-Care Device. <i>ACS Sensors</i> , 2019, 4, 52-60.	4.0	45
13	Lens-Free Interferometric Microscope for Point-of-Care Label-Free Detection of Sepsis Biomarkers. , 2019, , .		1
14	Gold/silver/gold trilayer films on nanostructured polycarbonate substrates for direct and label-free nanoplasmonic biosensing. <i>Journal of Biophotonics</i> , 2018, 11, e201800043.	1.1	12
15	Nanoplasmonic biosensor device for the monitoring of acenocoumarol therapeutic drug in plasma. <i>Biosensors and Bioelectronics</i> , 2018, 119, 149-155.	5.3	22
16	A label-free nanostructured plasmonic biosensor based on Blu-ray discs with integrated microfluidics for sensitive biodetection. <i>Biosensors and Bioelectronics</i> , 2017, 96, 260-267.	5.3	68
17	Recent advances in nanoplasmonic biosensors: applications and lab-on-a-chip integration. <i>Nanophotonics</i> , 2017, 6, 123-136.	2.9	204
18	Label-free nanoplasmonic sensing of tumor-associated autoantibodies for early diagnosis of colorectal cancer. <i>Analytica Chimica Acta</i> , 2016, 930, 31-38.	2.6	58

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19	Label-free SPR detection of gluten peptides in urine for non-invasive celiac disease follow-up. <i>Biosensors and Bioelectronics</i> , 2016, 79, 158-164.	5.3	62
20	Design of a surface plasmon resonance immunoassay for therapeutic drug monitoring of amikacin. <i>Talanta</i> , 2015, 141, 253-258.	2.9	44
21	Highly sensitive dendrimer-based nanoplasmonic biosensor for drug allergy diagnosis. <i>Biosensors and Bioelectronics</i> , 2015, 66, 115-123.	5.3	57
22	Direct Detection of Protein Biomarkers in Human Fluids Using Site-Specific Antibody Immobilization Strategies. <i>Sensors</i> , 2014, 14, 2239-2258.	2.1	69
23	Trends and challenges of refractometric nanoplasmonic biosensors: A review. <i>Analytica Chimica Acta</i> , 2014, 806, 55-73.	2.6	268
24	Indirect competitive immunoassay for the detection of fungicide Thiabendazole in whole orange samples by Surface Plasmon Resonance. <i>Analyst</i> , The, 2012, 137, 5659.	1.7	41
25	Integrated optical devices for lab-on-a-chip biosensing applications. <i>Laser and Photonics Reviews</i> , 2012, 6, 463-487.	4.4	465
26	Improved Biosensing Capability with Novel Suspended Nanodisks. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5344-5351.	1.5	89
27	Guiding Light in Monolayers of Sparse and Random Plasmonic Meta-atoms. <i>ACS Nano</i> , 2011, 5, 9179-9186.	7.3	26
28	Nanoparticle-aptamer Conjugates for Cancer Cell Targeting and Detection. <i>Methods in Molecular Biology</i> , 2010, 624, 235-248.	0.4	29
29	A Surface Energy Transfer Nanoruler for Measuring Binding Site Distances on Live Cell Surfaces. <i>Journal of the American Chemical Society</i> , 2010, 132, 16559-16570.	6.6	119
30	Locked Nucleic Acid Based Beacons for Surface Interaction Studies and Biosensor Development. <i>Analytical Chemistry</i> , 2009, 81, 3448-3454.	3.2	64
31	Highly fluorescent dye-doped silica nanoparticles increase flow cytometry sensitivity for cancer cell monitoring. <i>Nano Research</i> , 2009, 2, 448-461.	5.8	70
32	Using Aptamer-Conjugated Fluorescence Resonance Energy Transfer Nanoparticles for Multiplexed Cancer Cell Monitoring. <i>Analytical Chemistry</i> , 2009, 81, 7009-7014.	3.2	158
33	Disulfide Symmetric Dimers as Stable Pre-aptamer Forms for Bioconjugation: A Strategy to Prepare Immunoreagents for the Detection of Sulfophenyl Carboxylate Residues in Environmental Samples. <i>Chemistry - A European Journal</i> , 2008, 14, 1906-1917.	1.7	7
34	Immunochemical Assays for Direct Sulfonamide Antibiotic Detection In Milk and Hair Samples Using Antibody Derivatized Magnetic Nanoparticles. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 736-743.	2.4	87
35	Fluorophore-Free Luminescent Organosilica Nanoparticles. <i>Langmuir</i> , 2008, 24, 1635-1639.	1.6	39
36	Dye-doped nanoparticles for bioanalysis. <i>Nano Today</i> , 2007, 2, 44-50.	6.2	336

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37	A New Methodology for the Rational Design of Molecularly Imprinted Polymers. <i>Analytical Letters</i> , 2007, 40, 1294-1306.	1.0	13
38	Analysis of Nonylphenol: Advances and Improvements in the Immunochemical Determination Using Antibodies Raised against the Technical Mixture and Hydrophilic Immunoreagents. <i>Environmental Science &amp; Technology</i> , 2006, 40, 559-568.	4.6	36
39	Direct Competitive Enzyme-Linked Immunosorbent Assay for the Determination of the Highly Polar Short-Chain Sulfophenyl Carboxylates. <i>Analytical Chemistry</i> , 2005, 77, 5283-5293.	3.2	30
40	Immunochemical determination of xenobiotics with endocrine disrupting effects. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 563-575.	1.9	28
41	Immunochemical Determination of Industrial Emerging Pollutants. , 0, , 119-180.		5
42	Immunochemical Determination of Pharmaceuticals and Personal Care Products as Emerging Pollutants. , 0, , 181-244.		10