

# Bartolomeo Della Ventura

## List of Publications by Citations

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55  
papers

1,020  
citations

21  
h-index

30  
g-index

61  
ext. papers

1,307  
ext. citations

5.3  
avg, IF

4.37  
L-index

#	Paper	IF	Citations
55	Colorimetric Test for Fast Detection of SARS-CoV-2 in Nasal and Throat Swabs. <i>ACS Sensors</i> , <b>2020</b> , 5, 3043-3048	9.2	76
54	Detection of parathion and patulin by quartz-crystal microbalance functionalized by the photonics immobilization technique. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 67, 224-9	11.8	70
53	Detection of parathion pesticide by quartz crystal microbalance functionalized with UV-activated antibodies. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6392-7	7.8	55
52	Colorimetric Immunosensor by Aggregation of Photochemically Functionalized Gold Nanoparticles. <i>ACS Omega</i> , <b>2018</b> , 3, 3805-3812	3.9	48
51	Light assisted antibody immobilization for bio-sensing. <i>Biomedical Optics Express</i> , <b>2011</b> , 2, 3223-31	3.5	48
50	Enzyme distribution and secondary structure of sol-gel immobilized glucose oxidase by micro-attenuated total reflection FT-IR spectroscopy. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 304-10	8.3	47
49	QCM-based immunosensor for rapid detection of Salmonella Typhimurium in food. <i>Scientific Reports</i> , <b>2018</b> , 8, 16137	4.9	47
48	Fiber-optic glucose biosensor based on glucose oxidase immobilised in a silica gel matrix. <i>Journal of Sol-Gel Science and Technology</i> , <b>2009</b> , 50, 437-448	2.3	41
47	Visible micro-Raman spectroscopy for determining glucose content in beverage industry. <i>Food Chemistry</i> , <b>2011</b> , 127, 735-42	8.5	40
46	Effective antibodies immobilization and functionalized nanoparticles in a quartz-crystal microbalance-based immunosensor for the detection of parathion. <i>PLoS ONE</i> , <b>2017</b> , 12, e0171754	3.7	36
45	FT-IR microscopy characterization of sol-gel layers prior and after glucose oxidase immobilization for biosensing applications. <i>Journal of Sol-Gel Science and Technology</i> , <b>2011</b> , 57, 204-211	2.3	35
44	Biosensor for Point-of-Care Analysis of Immunoglobulins in Urine by Metal Enhanced Fluorescence from Gold Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3753-3762	9.5	32
43	Flexible immunosensor for the detection of salivary $\alpha$ -amylase in body fluids. <i>Talanta</i> , <b>2017</b> , 174, 52-58	6.2	29
42	Ultrasensitive antibody-aptamer plasmonic biosensor for malaria biomarker detection in whole blood. <i>Nature Communications</i> , <b>2020</b> , 11, 6134	17.4	29
41	A simple MALDI plate functionalization by Vmh2 hydrophobin for serial multi-enzymatic protein digestions. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 487-96	4.4	28
40	Screen Printed Based Impedimetric Immunosensor for Rapid Detection of in Drinking Water. <i>Sensors</i> , <b>2020</b> , 20,	3.8	28
39	LSPR-based colorimetric immunosensor for rapid and sensitive 17 $\beta$ -estradiol detection in tap water. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 308, 127699	8.5	28

38	Femtosecond UV-laser pulses to unveil protein-protein interactions in living cells. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 637-48	10.3	25
37	Glucose sensing by time-resolved fluorescence of sol-gel immobilized glucose oxidase. <i>Sensors</i> , <b>2011</b> , 11, 3483-97	3.8	25
36	Single Molecule Characterization of UV-Activated Antibodies on Gold by Atomic Force Microscopy. <i>Langmuir</i> , <b>2016</b> , 32, 8084-91	4	24
35	Biosensor surface functionalization by a simple photochemical immobilization of antibodies: experimental characterization by mass spectrometry and surface enhanced Raman spectroscopy. <i>Analyst, The</i> , <b>2019</b> , 144, 6871-6880	5	22
34	Effects of human antimicrobial cryptides identified in apolipoprotein B depend on specific features of bacterial strains. <i>Scientific Reports</i> , <b>2019</b> , 9, 6728	4.9	21
33	Biomimetic hydroxyapatite nanocrystals are an active carrier for bacteriophages. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 2219-2232	7.3	18
32	Label-Free Detection of Gliadin in Food by Quartz Crystal Microbalance-Based Immunosensor. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 1281-1289	5.7	17
31	Self-Assembling of Fmoc-GC Peptide Nucleic Acid Dimers into Highly Fluorescent Aggregates. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 4729-4735	4.8	16
30	Photophysics and photochemistry of a DNA-protein cross-linking model: a synergistic approach combining experiments and theory. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4983-92	3.4	12
29	Low-lying excited-states of 5-benzyluracil. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7161-73	3.6	11
28	Randomly positioned gold nanoparticles as fluorescence enhancers in apta-immunosensor for malaria test. <i>Mikrochimica Acta</i> , <b>2021</b> , 188, 88	5.8	10
27	Vmh2 hydrophobin layer entraps glucose: A quantitative characterization by label-free optical and gravimetric methods. <i>Applied Surface Science</i> , <b>2016</b> , 364, 201-207	6.7	9
26	Time-resolved analysis of DNA-protein interactions in living cells by UV laser pulses. <i>Scientific Reports</i> , <b>2017</b> , 7, 11725	4.9	9
25	Green synthesis of conductive polyaniline by laccase using a DNA template. <i>Engineering in Life Sciences</i> , <b>2019</b> , 19, 631-642	3.4	7
24	Nano-machining of biosensor electrodes through gold nanoparticles deposition produced by femtosecond laser ablation. <i>Applied Physics B: Lasers and Optics</i> , <b>2015</b> , 119, 497-501	1.9	6
23	Nanostructured Surfaces as Plasmonic Biosensors: A Review. <i>Advanced Materials Interfaces</i> , <b>2011</b> , 2, 101-133	4.6	6
22	The Union Is Strength: The Synergic Action of Long Fatty Acids and a Bacteriophage against Biofilm. <i>Microorganisms</i> , <b>2020</b> , 9,	4.9	6
21	Time-gated luminescence imaging of positively charged poly-L-lysine-coated highly microporous silicon nanoparticles in living Hydra polyp. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000272	3.1	6

20	Simple and Flexible Model for Laser-Driven Antibody-Gold Surface Interactions: Functionalization and Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 21762-9	9.5	4
19	Core-Shell Magnetic Nanoparticles for Highly Sensitive Magnetoelastic Immunosensor. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
18	Self-Formed, Conducting LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Micro-Membranes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909964	15.6	4
17	Analysis of the optical response of a SARS-CoV-2-directed colorimetric immunosensor. <i>AIP Advances</i> , <b>2021</b> , 11, 065319	1.5	4
16	A multi-scale time-resolved study of photoactivated dynamics in 5-benzyl uracil, a model for DNA/protein interactions. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 26301-26310	3.6	4
15	Optimized Identification of High-Grade Prostate Cancer by Combining Different PSA Molecular Forms and PSA Density in a Deep Learning Model. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	4
14	Photoemissive properties and stability of undecylenic acid-modified porous silicon nanoparticles in physiological medium. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 113701	3.4	3
13	Nano- and femtosecond UV laser pulses to immobilize biomolecules onto surfaces with preferential orientation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 185-190	2.6	3
12	Use of some cost-effective technologies for a routine clinical pathology laboratory. <i>Lab on A Chip</i> , <b>2021</b> , 21, 4330-4351	7.2	3
11	Fluorescence Emission of Self-assembling Amyloid-like Peptides: Solution versus Solid State. <i>ChemPhysChem</i> , <b>2021</b> , 22, 2215-2221	3.2	3
10	The tumor necrosis factor g1022G>A polymorphism is associated with resistance to tuberculosis in water buffalo ( <i>Bubalus bubalis</i> ). <i>Animal Genetics</i> , <b>2017</b> , 48, 250-251	2.5	2
9	<i>Clostridium difficile</i> antibodies: a patent evaluation (WO2013028810). <i>Expert Opinion on Therapeutic Patents</i> , <b>2013</b> , 23, 1635-40	6.8	2
8	Double-Resonant Nanostructured Gold Surface for Multiplexed Detection.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	2
7	Analysis of chromatin-nuclear receptor interactions by laser-chromatin immunoprecipitation. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1204, 25-34	1.4	2
6	Loading of Polydimethylsiloxane with a Human ApoB-Derived Antimicrobial Peptide to Prevent Bacterial Infections.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	2
5	Quartz Crystal Microbalance Sensors: New Tools for the Assessment of Organic Threats to the Quality of Water. <i>Handbook of Environmental Chemistry</i> , <b>2019</b> , 315-342	0.8	1
4	Optical properties of sol-gel immobilized Laccase: a first step for its use in optical biosensing <b>2012</b> ,		1
3	Solid-state optical properties of self-assembling amyloid-like peptides with different charged states at the terminal ends.. <i>Scientific Reports</i> , <b>2022</b> , 12, 759	4.9	1

- 2 Nanostructured Surfaces as Plasmonic Biosensors: A Review (Adv. Mater. Interfaces 2/2022).  
*Advanced Materials Interfaces*, **2022**, 9, 2270009 4.6 ○
- 1 Colorimetric Test for Fast Detection of SARS-CoV-2 in Nasal and Throat Swabs ○