

Alberto Sinibaldi

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

774
citations

623574

14
h-index

580701

25
g-index

32
all docs

32
docs citations

32
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct comparison of the performance of Bloch surface wave and surface plasmon polariton sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 292-298.	4.0	218
2	A full ellipsometric approach to optical sensing with Bloch surface waves on photonic crystals. <i>Optics Express</i> , 2013, 21, 23331.	1.7	79
3	Combining label-free and fluorescence operation of Bloch surface wave optical sensors. <i>Optics Letters</i> , 2014, 39, 2947.	1.7	63
4	Nanotechnology for Food Packaging and Food Quality Assessment. <i>Advances in Food and Nutrition Research</i> , 2017, 82, 149-204.	1.5	46
5	Detection of soluble ERBB2 in breast cancer cell lysates using a combined label-free/fluorescence platform based on Bloch surface waves. <i>Biosensors and Bioelectronics</i> , 2017, 92, 125-130.	5.3	41
6	Probing losses of dielectric multilayers by means of Bloch surface waves. <i>Optics Letters</i> , 2013, 38, 616.	1.7	37
7	Label-Free Detection of Tumor Angiogenesis Biomarker Angiopoietin 2 Using Bloch Surface Waves on One Dimensional Photonic Crystals. <i>Journal of Lightwave Technology</i> , 2015, 33, 3385-3393.	2.7	26
8	Effect of thickness disorder on the performance of photonic crystal surface wave sensors. <i>Optics Express</i> , 2016, 24, 7728.	1.7	26
9	Angularly resolved ellipsometric optical biosensing by means of Bloch surface waves. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3965-3974.	1.9	25
10	Bloch surface wave label-free and fluorescence platform for the detection of VEGF biomarker in biological matrices. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2143-2150.	4.0	25
11	Design rules for combined label-free and fluorescence Bloch surface wave biosensors. <i>Optics Letters</i> , 2017, 42, 2798.	1.7	23
12	Hydrogenated amorphous silicon nitride photonic crystals for improved-performance surface electromagnetic wave biosensors. <i>Biomedical Optics Express</i> , 2012, 3, 2405.	1.5	22
13	Cancer Biomarker Detection With Photonic Crystals-Based Biosensors: An Overview. <i>Journal of Lightwave Technology</i> , 2021, 39, 3871-3881.	2.7	22
14	Bloch surface wave enhanced biosensor for the direct detection of Angiopoietin-2 tumor biomarker in human plasma. <i>Biomedical Optics Express</i> , 2018, 9, 529.	1.5	19
15	Spectral Characterization of Mid-Infrared Bloch Surface Waves Excited on a Truncated 1D Photonic Crystal. <i>ACS Photonics</i> , 2021, 8, 350-359.	3.2	16
16	Anisotropic Fluorescence Emission and Photobleaching at the Surface of One-Dimensional Photonic Crystals Sustaining Bloch Surface Waves. II. Experiments. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21176-21184.	1.5	14
17	A novel technique based on Bloch surface waves sustained by one-dimensional photonic crystals to probe mass transport in a microfluidic channel. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 532-539.	4.0	11
18	Bloch Surface Waves Biosensors for High Sensitivity Detection of Soluble ERBB2 in a Complex Biological Environment. <i>Biosensors</i> , 2017, 7, 33.	2.3	10

#	ARTICLE	IF	CITATIONS
19	Effects of Reabsorption due to Surface Concentration in Highly Resonant Photonic Crystal Fluorescence Biosensors. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26281-26287.	1.5	9
20	Bioassay engineering: a combined label-free and fluorescence approach to optimize HER2 detection in complex biological media. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3509-3517.	1.9	9
21	Hybrid inorganic/organic photonic crystal biochips for cancer biomarkers detection. <i>Optics and Laser Technology</i> , 2018, 102, 227-232.	2.2	8
22	Enhanced Fluorescence Detection of Interleukin 10 by Means of 1D Photonic Crystals. <i>Crystals</i> , 2021, 11, 1517.	1.0	8
23	Biosensing platform combining label-free and labelled analysis using Bloch surface waves. , 2015, , .		6
24	Label-Free Monitoring of Human IgG/Anti-IgG Recognition Using Bloch Surface Waves on 1D Photonic Crystals. <i>Biosensors</i> , 2018, 8, 71.	2.3	6
25	Limit of detection comparison for surface wave biosensors. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
26	Exploiting the phase properties of Bloch surface waves on photonic crystals for efficient optical sensing. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
27	Bloch Surface Wave Based Biosensing. , 2018, , .		1
28	Combined label-free/fluorescence platform based on Bloch surface waves biochips for cancer biomarker detection. , 2018, , .		1
29	Bloch Surface Waves on Dielectric Photonic Crystals for Biological Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 107-111.	0.3	0
30	Label-free and fluorescence photonic crystal biochips for early cancer biomarker detection. , 2019, , .		0
31	Optical multiplexed bioassays on photonic crystals for breast cancer biomarker detection. <i>EPJ Web of Conferences</i> , 2021, 255, 13003.	0.1	0
32	Enhanced fluorescence detection of miRNAs using one-dimensional photonic crystal-based biochips. , 2022, , .		0