

Zigmas Balevičius

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

974
citations

430754

18
h-index

526166

27
g-index

30
all docs

30
docs citations

30
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of SARS-CoV-2 nucleocapsid protein interaction with a specific antibody by combined spectroscopic ellipsometry and quartz crystal microbalance with dissipation. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 113-122.	5.0	12
2	Total internal reflection ellipsometry for kinetics-based assessment of bovine serum albumin immobilization on ZnO nanowires. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1345-1352.	2.7	18
3	The experimental evidence of a strong coupling regime in the hybrid Tamm plasmon-surface plasmon polariton mode. <i>Nanophotonics</i> , 2021, 10, 1565-1571.	2.9	13
4	Direct Laser Writing for the Formation of Large-scale Gold Microbumps Arrays Generating Hybrid Lattice Plasmon Polaritons in Vis-NIR Range. <i>Advanced Optical Materials</i> , 2021, 9, 2100027.	3.6	12
5	Evaluation of kinetics and thermodynamics of interaction between immobilized SARS-CoV-2 nucleoprotein and specific antibodies by total internal reflection ellipsometry. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 195-203.	5.0	36
6	Application of Tamm Plasmon Polaritons and Cavity Modes for Biosensing in the Combined Spectroscopic Ellipsometry and Quartz Crystal Microbalance Method. <i>Biosensors</i> , 2021, 11, 501.	2.3	10
7	Strong Coupling between Tamm and Surface Plasmons for Advanced Optical Bio-Sensing. <i>Coatings</i> , 2020, 10, 1187.	1.2	22
8	Evaluation of affinity sensor response kinetics towards dimeric ligands linked with spacers of different rigidity: Immobilized recombinant granulocyte colony-stimulating factor based synthetic receptor binding with genetically engineered dimeric analyte derivatives. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112112.	5.3	27
9	Human granulocyte-colony stimulating factor (G-CSF)/stem cell factor (SCF) fusion proteins: design, characterization and activity. <i>PeerJ</i> , 2020, 8, e9788.	0.9	3
10	Modelling of immunosensor response: the evaluation of binding kinetics between an immobilized receptor and structurally-different genetically engineered ligands. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126770.	4.0	18
11	Optical Dispersions of Bloch Surface Waves and Surface Plasmon Polaritons: Towards Advanced Biosensors. <i>Materials</i> , 2019, 12, 3147.	1.3	16
12	Photoluminescence immunosensor based on bovine leukemia virus proteins immobilized on the ZnO nanorods. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 601-606.	4.0	53
13	Towards the application of Al ₂ O ₃ /ZnO nanolaminates in immunosensors: total internal reflection spectroscopic ellipsometry based evaluation of BSA immobilization. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8778-8783.	2.7	35
14	Hybrid Tamm-surface plasmon polaritons mode for detection of mercury adsorption on 1D photonic crystal/gold nanostructures by total internal reflection ellipsometry. <i>Optics Express</i> , 2018, 26, 30400.	1.7	23
15	Relaxation of Ferromagnetic and Paramagnetic State of Thin La-Sr-MnO Films Exposed by High-Power Picosecond Duration Optical Pulses. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 2794-2799.	0.6	0
16	Tunable Bloch surface waves in anisotropic photonic crystals based on lithium niobate thin films. <i>Optics Letters</i> , 2016, 41, 5616.	1.7	29
17	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23716-23725.	1.5	75
18	Enhancement of Electronic and Optical Properties of ZnO/Al ₂ O ₃ Nanolaminate Coated Electrospun Nanofibers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5124-5132.	1.5	87

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19	Synthesis of polypyrrole within the cell wall of yeast by redox-cycling of $[Fe(CN)_6]^{3-}$ / $[Fe(CN)_6]^{4-}$. Enzyme and Microbial Technology, 2016, 83, 40-47.	1.6	55
20	Evaluation of theophylline imprinted polypyrrole film. Synthetic Metals, 2015, 209, 206-211.	2.1	39
21	Crowding enhances lipase turnover rate on surface-immobilized substrates. Colloids and Surfaces B: Biointerfaces, 2015, 131, 115-121.	2.5	8
22	Spectroellipsometric characterization and modeling of plasmonic diamond-like carbon nanocomposite films with embedded Ag nanoparticles. Nanoscale Research Letters, 2015, 10, 157.	3.1	21
23	Effect of the photoinitiator presence and exposure conditions on laser-induced damage threshold of ORMOSIL (SZ2080). Optical Materials, 2015, 39, 224-231.	1.7	42
24	Modeling of the plasmonic properties of DLC/Ag nanocomposite films. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 329-335.	0.8	25
25	Electrochemical stability and repulsion of polypyrrole film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 418, 16-21.	2.3	50
26	Gold nanoparticle and conducting polymer-polyaniline-based nanocomposites for glucose biosensor design. Sensors and Actuators B: Chemical, 2013, 189, 187-193.	4.0	122
27	Study of antibody/antigen binding kinetics by total internal reflection ellipsometry. Biosensors and Bioelectronics, 2013, 39, 170-176.	5.3	59
28	Evaluation of intact- and fragmented-antibody based immunosensors by total internal reflection ellipsometry. Sensors and Actuators B: Chemical, 2011, 160, 555-562.	4.0	64
29	<title>Surface plasmon resonance method: new applications to sorption kinetics analysis</title>. , 2006, 6596, 228.		0
30	<title>Phase shift detection of surface plasmon using spectral ellipsometer</title>. , 2006, , .		0