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List of Publications by Year
in descending order

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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	Gold nanoparticle and conducting polymer-polyaniline-based nanocomposites for glucose biosensor design. Sensors and Actuators B: Chemical, 2013, 189, 187-193.	4.0	122
2	Enhancement of Electronic and Optical Properties of ZnO/Al₂O₃ Nanolaminate Coated Electrospun Nanofibers. Journal of Physical Chemistry C, 2016, 120, 5124-5132.	1.5	87
3	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. Journal of Physical Chemistry C, 2016, 120, 23716-23725.	1.5	75
4	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
5	Study of antibody/antigen binding kinetics by total internal reflection ellipsometry. Biosensors and Bioelectronics, 2013, 39, 170-176.	5.3	59
6	Synthesis of polypyrrole within the cell wall of yeast by redox-cycling of [Fe(CN) 6] 3â˜’ /[Fe(CN) 6] 4â˜’. Enzyme and Microbial Technology, 2016, 83, 40-47.	1.6	55
7	Photoluminescence immunosensor based on bovine leukemia virus proteins immobilized on the ZnO nanorods. Sensors and Actuators B: Chemical, 2019, 285, 601-606.	4.0	53
8	Electrochemical stability and repulsion of polypyrrole film. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 418, 16-21.	2.3	50
9	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
10	Evaluation of theophylline imprinted polypyrrole film. Synthetic Metals, 2015, 209, 206-211.	2.1	39
11	Evaluation of kinetics and thermodynamics of interaction between immobilized SARS-CoV-2 nucleoprotein and specific antibodies by total internal reflection ellipsometry. Journal of Colloid and Interface Science, 2021, 594, 195-203.	5.0	36
12	Towards the application of Al₂O₃/ZnO nanolaminates in immunosensors: total internal reflection spectroscopic ellipsometry based evaluation of BSA immobilization. Journal of Materials Chemistry C, 2018, 6, 8778-8783.	2.7	35
13	Tunable Bloch surface waves in anisotropic photonic crystals based on lithium niobate thin films. Optics Letters, 2016, 41, 5616.	1.7	29
14	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. Biosensors and Bioelectronics, 2020, 156, 112112.	5.3	27
15	Modeling of the plasmonic properties of DLCâ€Ag nanocomposite films. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 329-335.	0.8	25
16	Hybrid Tamm-surface plasmon polaritons mode for detection of mercury adsorption on 1D photonic crystal/gold nanostructures by total internal reflection ellipsometry. Optics Express, 2018, 26, 30400.	1.7	23
17	Strong Coupling between Tamm and Surface Plasmons for Advanced Optical Bio-Sensing. Coatings, 2020, 10, 1187.	1.2	22
18	Spectroellipsometric characterization and modeling of plasmonic diamond-like carbon nanocomposite films with embedded Ag nanoparticles. Nanoscale Research Letters, 2015, 10, 157.	3.1	21

#	Article	IF	Citations
19	Modelling of immunosensor response: the evaluation of binding kinetics between an immobilized receptor and structurally-different genetically engineered ligands. Sensors and Actuators B: Chemical, 2019, 297, 126770.	4.0	18
20	Total internal reflection ellipsometry for kinetics-based assessment of bovine serum albumin immobilization on ZnO nanowires. Journal of Materials Chemistry C, 2021, 9, 1345-1352.	2.7	18
21	Optical Dispersions of Bloch Surface Waves and Surface Plasmon Polaritons: Towards Advanced Biosensors. Materials, 2019, 12, 3147.	1.3	16
22	The experimental evidence of a strong coupling regime in the hybrid Tamm plasmon-surface plasmon polariton mode. Nanophotonics, 2021, 10, 1565-1571.	2.9	13
23	Direct Laser Writing for the Formation of Largeâ€Scale Gold Microbumps Arrays Generating Hybrid Lattice Plasmon Polaritons in Visâ€“NIR Range. Advanced Optical Materials, 2021, 9, 2100027.	3.6	12
24	Investigation of SARS-CoV-2 nucleocapsid protein interaction with a specific antibody by combined spectroscopic ellipsometry and quartz crystal microbalance with dissipation. Journal of Colloid and Interface Science, 2022, 626, 113-122.	5.0	12
25	Application of Tamm Plasmon Polaritons and Cavity Modes for Biosensing in the Combined Spectroscopic Ellipsometry and Quartz Crystal Microbalance Method. Biosensors, 2021, 11, 501.	2.3	10
26	Crowding enhances lipase turnover rate on surface-immobilized substrates. Colloids and Surfaces B: Biointerfaces, 2015, 131, 115-121.	2.5	8
27	Human granulocyte-colony stimulating factor (G-CSF)/stem cell factor (SCF) fusion proteins: design, characterization and activity. PeerJ, 2020, 8, e9788.	0.9	3
28	‹title›Surface plasmon resonance method: new applications to sorption kinetics analysis‹/title›. , 2006, 6596, 228.		0
29	‹title›Phase shift detection of surface plasmon using spectral ellipsometer‹/title›. , 2006, , .		0
30	Relaxation of Ferromagnetic and Paramagnetic State of Thin La-Sr-MnO Films Exposed by High-Power Picosecond Duration Optical Pulses. IEEE Transactions on Plasma Science, 2017, 45, 2794-2799.	0.6	0