Marystela Ferreira

List of Publications by Year
in descending order

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94	2,646	172457	223800
papers	citations	29 h-index	46 g-index

97	97	97	3082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrode passivation caused by polymerization of different phenolic compounds. Electrochimica Acta, 2006, 52, 434-442.	5.2	210
2	Enzyme-mediated amperometric biosensors prepared with the Layer-by-Layer (LbL) adsorption technique. Biosensors and Bioelectronics, 2004, 19, 1611-1615.	10.1	129
3	Information visualization techniques for sensing and biosensing. Analyst, The, 2011, 136, 1344.	3.5	102
4	Unusual Interactions Binding Iron Tetrasulfonated Phthalocyanine and Poly(allylamine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (hy	2.6	100
5	Molecular-Level Manipulation of V2O5/Polyaniline Layer-by-Layer Films To Control Electrochromogenic and Electrochemical Properties. Chemistry of Materials, 2004, 16, 2293-2299.	6.7	94
6	Minute-scale detection of SARS-CoV-2 using a low-cost biosensor composed of pencil graphite electrodes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	93
7	Nanoscale processing of polyaniline and phthalocyanines for sensing applications. Sensors and Actuators B: Chemical, 2006, 113, 809-815.	7.8	89
8	High-Performance Taste Sensor Made from Langmuirâ^'Blodgett Films of Conducting Polymers and a Ruthenium Complex. Analytical Chemistry, 2003, 75, 953-955.	6.5	77
9	Electroactive Multilayer Films of Polyaniline and Vanadium Pentoxide. Journal of Physical Chemistry B, 2003, 107, 8351-8354.	2.6	60
10	Langmuirâ€"Blodgett films from polyaniline/ruthenium complexes as modified electrodes for detection of dopamine. Thin Solid Films, 2004, 446, 301-306.	1.8	60
11	Fabrication of Phytic Acid Sensor Based on Mixed Phytaseâ^'Lipid Langmuirâ^'Blodgett Films. Langmuir, 2006, 22, 8501-8508.	3.5	59
12	Surface plasmon resonance biosensor for enzymatic detection of small analytes. Nanotechnology, 2017, 28, 145501.	2.6	48
13	Wearable and Biodegradable Sensors for Clinical and Environmental Applications. ACS Applied Electronic Materials, 2021, 3, 68-100.	4.3	46
14	Label-free, spatially multiplexed SPR detection of immunoassays on a highly integrated centrifugal Lab-on-a-Disc platform. Biosensors and Bioelectronics, 2018, 119, 86-93.	10.1	44
15	Immobilization of uricase in layer-by-layer films used in amperometric biosensors for uric acid. Journal of Solid State Electrochemistry, 2007, 11, 1489-1495.	2.5	43
16	Immobilization of cholesterol oxidase in LbL films and detection of cholesterol using ac measurements. Materials Science and Engineering C, 2009, 29, 442-447.	7.3	42
17	Surface Plasmon Resonance (SPR) for Sensors and Biosensors. , 2017, , 183-200.		42
18	Low-Cost Optodiagnostic for Minute-Time Scale Detection of SARS-CoV-2. ACS Nano, 2021, 15, 17453-17462.	14.6	40

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19	Layer-by-layer composite film of nickel phthalocyanine and montmorillonite clay for synergistic effect on electrochemical detection of dopamine. Applied Surface Science, 2018, 436, 957-966.	6.1	38
20	Interaction of small amounts of bovine serum albumin with phospholipid monolayers investigated by surface pressure and atomic force microscopy. Journal of Colloid and Interface Science, 2006, 297, 546-553.	9.4	35
21	Layer-by-Layer Nanostructured Hybrid Films of Polyaniline and Vanadium Oxide. Journal of Nanoscience and Nanotechnology, 2002, 2, 29-32.	0.9	34
22	Langmuir and Langmuirâ˜Blodgett Films of Poly[2-methoxy-5-(n-hexyloxy)-p-phenylenevinylene]. Langmuir, 2003, 19, 8835-8842.	3.5	34
23	Amperometric Detection of Lactose Using Î²-Galactosidase Immobilized in Layer-by-Layer Films. ACS Applied Materials & Interfaces, 2014, 6, 11657-11664.	8.0	34
24	4-hydrazinobenzoic acid as a derivatizing agent for aldehyde analysis by HPLC-UV and CE-DAD. Talanta, 2018, 187, 113-119.	5.5	34
25	Detection of phenolic compounds using impedance spectroscopy measurements. Bioprocess and Biosystems Engineering, 2009, 32, 41-46.	3.4	33
26	Improving direct immunoassay response by layer-by-layer films of gold nanoparticles â€“ Antibody conjugate towards label-free detection. Materials Science and Engineering C, 2019, 102, 315-323.	7.3	33
27	Disposable and low-cost electrochemical sensor based on the colorless nail polish and graphite composite material for tartrazine detection. Talanta, 2021, 227, 122200.	5.5	33
28	Layer-by-layer assembly of functionalized reduced graphene oxide for direct electrochemistry and glucose detection. Materials Science and Engineering C, 2016, 68, 739-745.	7.3	31
29	Nickel (II) phthalocyanine-tetrasulfonic-Au nanoparticles nanocomposite film for tartrazine electrochemical sensing. Materials Letters, 2020, 262, 127186.	2.6	31
30	Headgroup specificity for the interaction of the antimicrobial peptide tritrpticin with phospholipid Langmuir monolayers. Colloids and Surfaces B: Biointerfaces, 2012, 100, 95-102.	5.0	30
31	Synergy between Polyaniline and OMt Clay Mineral in Langmuirâ€“Blodgett Films for the Simultaneous Detection of Traces of Metal Ions. ACS Applied Materials & Interfaces, 2015, 7, 6828-6834.	8.0	30
32	High performance of electrochemical sensors based on LbL films of gold nanoparticles, polyaniline and sodium montmorillonite clay mineral for simultaneous detection of metal ions. Electrochimica Acta, 2017, 235, 700-708.	5.2	29
33	Layer-by-Layer Films of Graphene Nanoplatelets and Gold Nanoparticles for Methyl Parathion Sensing. ACS Applied Nano Materials, 2019, 2, 1082-1091.	5.0	28
34	Layer-by-Layer nanostructured films of magnetite nanoparticles and polypyrrole towards synergistic effect on methylparaben electrochemical detection. Applied Surface Science, 2020, 505, 144278.	6.1	27
35	Development of a novel biosensor for Creatine Kinase (CK-MB) using Surface Plasmon Resonance (SPR). Applied Surface Science, 2021, 554, 149565.	6.1	26
36	Exploiting the Versatility of Taste Sensors Based on Impedance Spectroscopy. Instrumentation Science and Technology, 2004, 32, 21-30.	1.8	25

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37	Electrochemical sensor for propylparaben using hybrid Layer-by-Layer films composed of gold nanoparticles, poly(ethylene imine) and nickel(II) phthalocyanine tetrasulfonate. Sensors and Actuators B: Chemical, 2020, 310, 127893.	7.8	25
38	Polymer light emitting devices with Langmuirâ€“Blodgett (LB) films: Enhanced performance due to an electron-injecting layer of ionomers. Chemical Physics Letters, 2005, 408, 31-36.	2.6	24
39	Strategies to Optimize Biosensors Based on Impedance Spectroscopy to Detect Phytic Acid Using Layer-by-Layer Films. Analytical Chemistry, 2010, 82, 3239-3246.	6.5	24
40	Polyethylene imine/graphene oxide layer-by-layer surface functionalization for significantly improved limit of detection and binding kinetics of immunoassays on acrylate surfaces. Colloids and Surfaces B: Biointerfaces, 2017, 158, 167-174.	5.0	24
41	Langmuir and Langmuir-Blodgett (LB) films of poly[(2-methoxy,5-n-octadecyl)-p-phenylenevinylene] (OC1OC18-PPV). Polymer, 2005, 46, 5140-5148.	3.8	23
42	Phytase immobilization on modified electrodes for amperometric biosensing. Sensors and Actuators B: Chemical, 2008, 131, 210-215.	7.8	23
43	Nanocomposites based on LbL films of polyaniline and sodium montmorillonite clay. Synthetic Metals, 2014, 197, 119-125.	3.9	22
44	Monoamine oxidase B layer-by-layer film fabrication and characterization toward dopamine detection. Materials Science and Engineering C, 2016, 58, 310-315.	7.3	22
45	Combining electrochemically reduced graphene oxide and Layer-by-Layer films of magnetite nanoparticles for carbofuran detection. Journal of Environmental Chemical Engineering, 2020, 8, 104294.	6.7	22
46	Polypyrrole/phytase amperometric biosensors for the determination of phytic acid in standard solutions. Sensors and Actuators B: Chemical, 2011, 160, 222-226.	7.8	21
47	Improvements in thermal and mechanical properties of composites based on thermoplastic starch and Kraft Lignin. International Journal of Biological Macromolecules, 2021, 184, 863-873.	7.5	21
48	Enhanced stabilization of aerosol-OT surfactant monolayer upon interaction with small amounts of bovine serum albumin at the airâ€“water interface. Colloids and Surfaces B: Biointerfaces, 2004, 38, 21-27.	5.0	20
49	Exploiting Cascade Reactions in Bienzyme Layer-by-Layer Films. Journal of Physical Chemistry C, 2011, 115, 19136-19140.	3.1	20
50	Improved antibody loading on self-assembled graphene oxide films for using in surface plasmon resonance immunosensors. Applied Surface Science, 2019, 490, 502-509.	6.1	20
51	TÃ©cnicas de caracterizaÃ§Ã£o para investigar interaÃ§Ãµes no nÃvel molecular em filmes de Langmuir e Langmuir-Blodgett (LB). Quimica Nova, 2005, 28, 502-510.	0.3	19
52	Detection of glucose and triglycerides using information visualization methods to process impedance spectroscopy data. Sensors and Actuators B: Chemical, 2012, 166-167, 231-238.	7.8	18
53	Use of hemoglobin as alternative to peroxidases in cholesterol amperometric biosensors. Sensors and Actuators B: Chemical, 2013, 178, 101-106.	7.8	18
54	Immobilization of aloin encapsulated into liposomes in Layer-by-layer films for transdermal drug delivery. Materials Science and Engineering C, 2013, 33, 1193-1196.	7.3	18

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55	Electrical and electrochemical measurements in nanostructured films of polythiophene derivatives. Electrochimica Acta, 2015, 165, 1-6.	5.2	18
56	Layer-by-layer films containing emodin or emodin encapsulated in liposomes for transdermal applications. Colloids and Surfaces B: Biointerfaces, 2018, 162, 69-75.	5.0	18
57	Interactions at the Molecular Level between Biphosphine Ruthenium Complexes and Stearic Acid in Langmuir and Langmuirâ^'Blodgett Films. Journal of Physical Chemistry B, 2002, 106, 7272-7277.	2.6	17
58	Layer-by-Layer Films Based on Carbon Nanotubes and Polyaniline for Detecting 2-Chlorophenol. Journal of Nanoscience and Nanotechnology, 2014, 14, 6586-6592.	0.9	17
59	Spectroscopic and Electrochemical Characterization of Polyaniline and a Ruthenium Complex, mer-[RuCl3(dppb)(py)], in the Form of Langmuirâ^'Blodgett Films. Langmuir, 2002, 18, 540-546.	3.5	16
60	Langmuir and Langmuir-Blodgett Films of Polyfluorenes and Their Use in Polymer Light-Emitting Diodes. Journal of Polymer Research, 2007, 14, 39-44.	2.4	15
61	Anisotropy in the optical properties of oriented Langmuirâ€"Blodgett films of OC1OC6-PPV. Chemical Physics Letters, 2003, 381, 404-409.	2.6	14
62	Water-gated organic transistors on polyethylene naphthalate films. Flexible and Printed Electronics, 2016, 1, 025005.	2.7	14
63	Photoswitchable Layer-by-Layer Coatings Based on Photochromic Polynorbornenes Bearing Spiropyran Side Groups. Langmuir, 2018, 34, 4210-4216.	3.5	13
64	Development of a flexible and disposable electrochemical sensor based on poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td 2022, 4, 100091.	4.4	12
65	Morphological characterization of Langmuirâ€"Blodgett films from polyaniline and a ruthenium complex (Rupy): influence of the relative concentration of Rupy. Nanotechnology, 2007, 18, 075713.	2.6	11
66	PEDOT:PSS self-assembled films to methanol crossover reduction in Nafion Â® membranes. Applied Surface Science, 2014, 323, 7-12.	6.1	11
67	Use of multivariate analysis on Fabry-PÃ©rot interference spectra of nanoporous anodic alumina (NAA) for optical sensors purposes. Sensors and Actuators B: Chemical, 2017, 248, 718-723.	7.8	11
68	On the importance of controlling film architecture in detecting prostate specific antigen. Applied Surface Science, 2018, 434, 1175-1182.	6.1	11
69	Synthesis of Poly(styrene-co-methyl methacrylate)-Based Ionomers and Their Langmuir and Langmuirâ^'Blodgett (LB) Film Formation. Journal of Physical Chemistry B, 2004, 108, 7033-7039.	2.6	10
70	Optical, electrical, and thermochromic properties of polyazothiophene Langmuirâ€"Blodgett films. Colloid and Polymer Science, 2008, 286, 1395-1401.	2.1	10
71	Toward Preserving the Structure of the Antigenic Peptide p17-1 from the HIV-1 p17 Protein in Nanostructured Films. Journal of Nanoscience and Nanotechnology, 2011, 11, 6705-6709.	0.9	10
72	Influence of gold nanostructures incorporated into sodium montmorillonite clay based on LbL films for detection of metal traces ions. Applied Surface Science, 2020, 507, 144972.	6.1	10

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73	Enzymeless glucose sensor based on disposable EcoflexÂ®/graphite thermoplastic composite substrate modified with Au@GQDs. Sensors and Actuators Reports, 2022, 4, 100102.	4.4	9
74	The influence of preparation method of OC1OC6-PPV films on the photo-oxidation process. Polymer Degradation and Stability, 2006, 91, 2342-2346.	5.8	7
75	Immunosensor for HIV-1 Diagnostics Based on Immobilization of the Antigenic Peptide p24-3 Into Liposomes. Journal of Nanoscience and Nanotechnology, 2014, 14, 6638-6645.	0.9	7
76	Electrochemical Properties of Mixed Films of Polyaniline and a Ruthenium Complex. Synthetic Metals, 2003, 135-136, 455-456.	3.9	6
77	Layer-by-Layer Hybrid Films of Polyaniline and Vanadium Oxide. Synthetic Metals, 2003, 137, 969-970.	3.9	6
78	A highly specific and sensitive nanoimmunosensor for the diagnosis of neuromyelitis optica spectrum disorders. Scientific Reports, 2019, 9, 16136.	3.3	6
79	Simultaneous Determination of Catechol and Paraquat Using a Flexible Electrode of PBAT and Graphite Modified with Gold Nanoparticles and Copper Phthalocyanine (g-PBAT/AuNP/CuTsPc) LbL Film. Journal of the Electrochemical Society, 2022, 169, 027505.	2.9	6
80	Fast Dynamics in the Optical Storage with Langmuirâ€“Blodgett Films of a Diazocrown Ether Molecule. Journal of Nanoscience and Nanotechnology, 2008, 8, 6367-6375.	0.9	5
81	Preparation and characterization of Langmuirâ€“Blodgett films of 16-membered azobenzocrown ether with naphthalene residue. Synthetic Metals, 2009, 159, 2378-2380.	3.9	4
82	Regioregularity and deposition effect on the physical/chemical properties of polythiophene derivatives films. Nanotechnology, 2019, 30, 325703.	2.6	4
83	Antibody-mediated biorecognition of myelin oligodendrocyte glycoprotein: computational evidence of demyelination-related epitopes. Scientific Reports, 2019, 9, 2033.	3.3	3
84	Flavin adenine dinucleotide functionalized gold nanoparticles for the electrochemical detection of dopamine. Sensors and Actuators Reports, 2022, 4, 100085.	4.4	3
85	Spectroscopy and electrochemical characterization of Langmuirâ€“Blodgett and physical vapor thin films of 29-membered diazocrown ether 1 with two n-octyl substituents. Synthetic Metals, 2012, 162, 995-999.	3.9	2
86	Self-assembly Thin Films for Sensing. , 2017, , 141-164.		2
87	An investigation of the synergistic effect between magnetite nanoparticles and polypyrrole in nanostructured layerâ€byâ€layer films. Journal of Applied Polymer Science, 2021, 138, 49750.	2.6	2
88	Liposome-Encapsulated Biomolecules: Application in Enzymatic Biosensors and Immunosensors. Revista Virtual De Quimica, 2015, 7, 1552-1564.	0.4	2
89	Boronic Acid Homopolymers as Effective Polycations for Sugar-Responsive Layer-by-Layer Assemblies. ACS Applied Polymer Materials, 2019, 1, 990-996.	4.4	1
90	Incorporation of a liquid crystal to enhance the luminescence properties of Langmuirâ€“Blodgett films of OC1OC6-PPV. Journal of Luminescence, 2009, 129, 1381-1384.	3.1	0

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91	GOx LbL Based Film Growth over Porous Alumina (PA) Followed by Diffuse Reflectance Spectroscopy. Materials Research Society Symposia Proceedings, 2015, 1805, 1.	0.1	0
92	Interfacial behavior of Lactate Oxidase at Air-Subphase interface. Journal of Colloid and Interface Science, 2021, 589, 173-178.	9.4	0
93	Study of Antimicrobial Property of Spices in Starch Films: An Experimental Proposal. Revista Virtual De Quimica, 2020, 12, 1236-1243.	0.4	0
94	Layer-by-layer nanostructured films for electrochemical sensors fabrication. , 2022, , 407-441.		0