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	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
2	Layer-by-layer nanostructured films for electrochemical sensors fabrication. , 2022, , 407-441.		0
3	Development of a flexible and disposable electrochemical sensor based on poly (butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2022, 4, 100091.	4.4	12
4	Flavin adenine dinucleotide functionalized gold nanoparticles for the electrochemical detection of dopamine. Sensors and Actuators Reports, 2022, 4, 100085.	4.4	3
5	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
6	Wearable and Biodegradable Sensors for Clinical and Environmental Applications. ACS Applied Electronic Materials, 2021, 3, 68-100.	4.3	46
7	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
8	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
9	Interfacial behavior of Lactate Oxidase at Air-Subphase interface. Journal of Colloid and Interface Science, 2021, 589, 173-178.	9.4	0
10	Development of a novel biosensor for Creatine Kinase (CK-MB) using Surface Plasmon Resonance (SPR). Applied Surface Science, 2021, 554, 149565.	6.1	26
11	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
12	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
13	Low-Cost Optodiagnostic for Minute-Time Scale Detection of SARS-CoV-2. ACS Nano, 2021, 15, 17453-17462.	14.6	40
14	Nickel (II) phthalocyanine-tetrasulfonic-Au nanoparticles nanocomposite film for tartrazine electrochemical sensing. Materials Letters, 2020, 262, 127186.	2.6	31
15	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
16	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
17	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
18	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

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19	Study of Antimicrobial Property of Spices in Starch Films: An Experimental Proposal. Revista Virtual De Quimica, 2020, 12, 1236-1243.	0.4	0
20	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
21	A highly specific and sensitive nanoimmunosensor for the diagnosis of neuromyelitis optica spectrum disorders. Scientific Reports, 2019, 9, 16136.	3.3	6
22	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
23	Boronic Acid Homopolymers as Effective Polycations for Sugar-Responsive Layer-by-Layer Assemblies. ACS Applied Polymer Materials, 2019, 1, 990-996.	4.4	1
24	Regioregularity and deposition effect on the physical/chemical properties of polythiophene derivatives films. Nanotechnology, 2019, 30, 325703.	2.6	4
25	Antibody-mediated biorecognition of myelin oligodendrocyte glycoprotein: computational evidence of demyelination-related epitopes. Scientific Reports, 2019, 9, 2033.	3.3	3
26	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
27	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
28	4-hydrazinobenzoic acid as a derivatizing agent for aldehyde analysis by HPLC-UV and CE-DAD. Talanta, 2018, 187, 113-119.	5.5	34
29	Photoswitchable Layer-by-Layer Coatings Based on Photochromic Polynorbornenes Bearing Spiropyran Side Groups. Langmuir, 2018, 34, 4210-4216.	3.5	13
30	On the importance of controlling film architecture in detecting prostate specific antigen. Applied Surface Science, 2018, 434, 1175-1182.	6.1	11
31	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
32	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
33	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
34	Self-assembly Thin Films for Sensing. , 2017, , 141-164.		2
35	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
36	Surface plasmon resonance biosensor for enzymatic detection of small analytes. Nanotechnology, 2017, 28, 145501.	2.6	48

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37	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
38	Surface Plasmon Resonance (SPR) for Sensors and Biosensors. , 2017, , 183-200.		42
39	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
40	Water-gated organic transistors on polyethylene naphthalate films. Flexible and Printed Electronics, 2016, 1, 025005.	2.7	14
41	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
42	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
43	Electrical and electrochemical measurements in nanostructured films of polythiophene derivatives. Electrochimica Acta, 2015, 165, 1-6.	5.2	18
44	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
45	Liposome-Encapsulated Biomolecules: Application in Enzymatic Biosensors and Immunosensors. Revista Virtual De Quimica, 2015, 7, 1552-1564.	0.4	2
46	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
47	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
48	PEDOT:PSS self-assembled films to methanol crossover reduction in Nafion Â® membranes. Applied Surface Science, 2014, 323, 7-12.	6.1	11
49	Nanocomposites based on LbL films of polyaniline and sodium montmorillonite clay. Synthetic Metals, 2014, 197, 119-125.	3.9	22
50	Amperometric Detection of Lactose Using Î²-Galactosidase Immobilized in Layer-by-Layer Films. ACS Applied Materials & Interfaces, 2014, 6, 11657-11664.	8.0	34
51	Use of hemoglobin as alternative to peroxidases in cholesterol amperometric biosensors. Sensors and Actuators B: Chemical, 2013, 178, 101-106.	7.8	18
52	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
53	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
54	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

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55	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
56	Information visualization techniques for sensing and biosensing. Analyst, The, 2011, 136, 1344.	3.5	102
57	Exploiting Cascade Reactions in Bienzyme Layer-by-Layer Films. Journal of Physical Chemistry C, 2011, 115, 19136-19140.	3.1	20
58	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
59	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
60	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
61	Detection of phenolic compounds using impedance spectroscopy measurements. Bioprocess and Biosystems Engineering, 2009, 32, 41-46.	3.4	33
62	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
63	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
64	Preparation and characterization of Langmuirâ€“Blodgett films of 16-membered azobenzocrown ether with naphthalene residue. Synthetic Metals, 2009, 159, 2378-2380.	3.9	4
65	Optical, electrical, and thermochromic properties of polyazothiophene Langmuirâ€“Blodgett films. Colloid and Polymer Science, 2008, 286, 1395-1401.	2.1	10
66	Phytase immobilization on modified electrodes for amperometric biosensing. Sensors and Actuators B: Chemical, 2008, 131, 210-215.	7.8	23
67	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
68	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
69	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
70	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
71	Fabrication of Phytic Acid Sensor Based on Mixed Phytaseâ^'Lipid Langmuirâ^'Blodgett Films. Langmuir, 2006, 22, 8501-8508.	3.5	59
72	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

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73	Nanoscale processing of polyaniline and phthalocyanines for sensing applications. Sensors and Actuators B: Chemical, 2006, 113, 809-815.	7.8	89
74	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
75	Electrode passivation caused by polymerization of different phenolic compounds. Electrochimica Acta, 2006, 52, 434-442.	5.2	210
76	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
77	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
78	TÃ©cnicas de caracterizaÃ§Ã£o para investigar interaÃ§Ãµes no nÃ¡vel molecular em filmes de Langmuir e Langmuir-Blodgett (LB). Quimica Nova, 2005, 28, 502-510.	0.3	19
79	Exploiting the Versatility of Taste Sensors Based on Impedance Spectroscopy. Instrumentation Science and Technology, 2004, 32, 21-30.	1.8	25
80	Langmuirâ€“Blodgett films from polyaniline/ruthenium complexes as modified electrodes for detection of dopamine. Thin Solid Films, 2004, 446, 301-306.	1.8	60
81	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
82	Enzyme-mediated amperometric biosensors prepared with the Layer-by-Layer (LbL) adsorption technique. Biosensors and Bioelectronics, 2004, 19, 1611-1615.	10.1	129
83	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
84	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
85	Anisotropy in the optical properties of oriented Langmuirâ€“Blodgett films of OC1OC6-PPV. Chemical Physics Letters, 2003, 381, 404-409.	2.6	14
86	Unusual Interactions Binding Iron Tetrasulfonated Phthalocyanine and Poly(allylamine) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (hy	2.6	100
87	Langmuir and Langmuirâ^'Blodgett Films of Poly[2-methoxy-5-(n-hexyloxy)-p-phenylenevinylene]. Langmuir, 2003, 19, 8835-8842.	3.5	34
88	Electroactive Multilayer Films of Polyaniline and Vanadium Pentoxide. Journal of Physical Chemistry B, 2003, 107, 8351-8354.	2.6	60
89	Electrochemical Properties of Mixed Films of Polyaniline and a Ruthenium Complex. Synthetic Metals, 2003, 135-136, 455-456.	3.9	6
90	Layer-by-Layer Hybrid Films of Polyaniline and Vanadium Oxide. Synthetic Metals, 2003, 137, 969-970.	3.9	6

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91	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
92	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
93	Layer-by-Layer Nanostructured Hybrid Films of Polyaniline and Vanadium Oxide. Journal of Nanoscience and Nanotechnology, 2002, 2, 29-32.	0.9	34
94	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