

Fabio L Leite

List of Publications by Year in descending order

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67
papers

2,010
citations

346980

22
h-index

286692

43
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67
all docs

67
docs citations

67
times ranked

3237
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Models for Surface Forces and Adhesion and Their Measurement Using Atomic Force Microscopy. <i>International Journal of Molecular Sciences</i> , 2012, 13, 12773-12856.	1.8	324
2	Cellulose nanofibers from white and naturally colored cotton fibers. <i>Cellulose</i> , 2010, 17, 595-606.	2.4	322
3	Application of atomic force spectroscopy (AFS) to studies of adhesion phenomena: a review. <i>Journal of Adhesion Science and Technology</i> , 2005, 19, 365-405.	1.4	86
4	Atomic Force Microscopy as a Tool Applied to Nano/Biosensors. <i>Sensors</i> , 2012, 12, 8278-8300.	2.1	72
5	Structural characterization of Chloride Salt of conducting polyaniline obtained by XRD, SAXD, SAXS and SEM. <i>Journal of Molecular Structure</i> , 2013, 1036, 121-126.	1.8	67
6	Adsorption of chitosan on spin-coated cellulose films. <i>Carbohydrate Polymers</i> , 2010, 80, 65-70.	5.1	64
7	Thermo-analyses of polyaniline and its derivatives. <i>Thermochimica Acta</i> , 2010, 502, 43-46.	1.2	57
8	Adsorption according to the Langmuir-Freundlich model is the detection mechanism of the antigen p53 for early diagnosis of cancer. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8412-8418.	1.3	57
9	Low-Cost Gas Sensors Produced by the Graphite Line-Patterning Technique Applied to Monitoring Banana Ripeness. <i>Sensors</i> , 2011, 11, 6425-6434.	2.1	52
10	Nanobiosensors Based on Chemically Modified AFM Probes: A Useful Tool for Methylsulfonyl-Methyl Detection. <i>Sensors</i> , 2013, 13, 1477-1489.	2.1	47
11	Study on the adsorption of poly(o-ethoxyaniline) nanostructured films using atomic force microscopy. <i>Polymer</i> , 2005, 46, 12503-12510.	1.8	39
12	TEM, XRD and AFM study of poly(o-ethoxyaniline) films: new evidence for the formation of conducting islands. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 537-542.	1.1	39
13	XRD, AFM, IR and TGA study of nanostructured hydroxyapatite. <i>Materials Research</i> , 2012, 15, 622-627.	0.6	35
14	Mapping of adhesion forces on soil minerals in air and water by atomic force spectroscopy (AFS). <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 2141-2156.	1.4	34
15	Bio-inspired sensor for insect pheromone analysis based on polyaniline functionalized AFM cantilever sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 643-649.	4.0	30
16	Fabrication and characterization of nanostructured conducting polymer films containing magnetic nanoparticles. <i>Thin Solid Films</i> , 2009, 517, 1753-1758.	0.8	29
17	Designing an enzyme-based nanobiosensor using molecular modeling techniques. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8894.	1.3	27
18	Preparation and characterization of paclitaxel-loaded PLDLA microspheres. <i>Materials Research</i> , 2014, 17, 650-656.	0.6	27

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19	Nanoscale conformational ordering in polyanilines investigated by SAXS and AFM. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 376-387.	5.0	26
20	Development of a novel biosensor for Creatine Kinase (CK-MB) using Surface Plasmon Resonance (SPR). <i>Applied Surface Science</i> , 2021, 554, 149565.	3.1	26
21	Atomic force microscope microcantilevers used as sensors for monitoring humidity. <i>Microelectronic Engineering</i> , 2014, 113, 80-85.	1.1	25
22	The use of functionalized AFM tips as molecular sensors in the detection of pesticides. <i>Materials Research</i> , 2013, 16, 683-687.	0.6	23
23	Microcantilever Sensors Coated with a Sensitive Polyaniline Layer for Detecting Volatile Organic Compounds. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6718-6722.	0.9	23
24	A Nanobiosensor Based on 4-Hydroxyphenylpyruvate Dioxygenase Enzyme for Mesotrione Detection. <i>IEEE Sensors Journal</i> , 2015, 15, 2106-2113.	2.4	23
25	Modeling the coverage of an AFM tip by enzymes and its application in nanobiosensors. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 53, 100-104.	1.3	22
26	Cantilever nanobiosensor using tyrosinase to detect atrazine in liquid medium. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2018, 53, 229-236.	0.7	22
27	Fabrication and characterization of chemical sensors made from nanostructured films of poly(o-ethoxyaniline) prepared with different doping acids. <i>Thin Solid Films</i> , 2008, 516, 3274-3281.	0.8	21
28	Investigation of roughness and specular quality of commercial aluminum (6061 alloy) for fabrication of nanoporous anodic alumina films. <i>Surface and Coatings Technology</i> , 2017, 310, 199-206.	2.2	21
29	Cantilever Functionalization Using Peroxidase Extract of Low Cost for Glyphosate Detection. <i>Applied Biochemistry and Biotechnology</i> , 2018, 186, 1061-1073.	1.4	21
30	Nanoneurobiophysics: new challenges for diagnosis and therapy of neurologic disorders. <i>Nanomedicine</i> , 2015, 10, 3417-3419.	1.7	19
31	Microcantilever sensors coated with doped polyaniline for the detection of water vapor. <i>Scanning</i> , 2014, 36, 311-316.	0.7	17
32	Nanobiosensor for Diclofop Detection Based on Chemically Modified AFM Probes. <i>IEEE Sensors Journal</i> , 2014, 14, 1467-1475.	2.4	17
33	Layer-by-layer films of poly(o-ethoxyaniline), chitosan and chitosan-poly(methacrylic acid) nanoparticles and their application in an electronic tongue. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2006, 13, 1101-1109.	1.8	16
34	Sensor arrays to detect humic substances and Cu(II) in waters. <i>Synthetic Metals</i> , 2009, 159, 2333-2337.	2.1	16
35	Nanobiosensors Exploiting Specific Interactions Between an Enzyme and Herbicides in Atomic Force Spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6678-6684.	0.9	16
36	Cross-reactivity between myelin oligodendrocyte glycoprotein and human endogenous retrovirus W protein: nanotechnological evidence for the potential trigger of multiple sclerosis. <i>Micron</i> , 2019, 120, 66-73.	1.1	16

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37	A New Dermal Substitute Containing Polyvinyl Alcohol with Silver Nanoparticles and Collagen with Hyaluronic Acid: In Vitro and In Vivo Approaches. <i>Antibiotics</i> , 2021, 10, 742.	1.5	16
38	Molecular modeling of enzyme attachment on AFM probes. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 45, 128-136.	1.3	15
39	Surface characterization and osteoblast-like Cells culture on collagen modified PLDLA scaffolds. <i>Materials Research</i> , 2014, 17, 1523-1534.	0.6	15
40	Water Susceptibility and Mechanical Properties of Thermoplastic Starch-Pectin Blends Reactively Extruded with Edible Citric Acid. <i>Materials Research</i> , 2016, 19, 138-142.	0.6	15
41	The Role of Azopolymer/Dendrimer Layer-by-Layer Film Architecture in Photoinduced Birefringence and the Formation of Surface-Relief Gratings. <i>Langmuir</i> , 2006, 22, 6177-6180.	1.6	14
42	Atomic Force Spectroscopy on Poly(o-ethoxyaniline) Nanostructured Films: Sensing Nonspecific Interactions. <i>Microscopy and Microanalysis</i> , 2007, 13, 304-312.	0.2	14
43	Study of poly(o-Ethoxyaniline) interactions with herbicides and evaluation of conductive polymer potential used in electrochemical sensors. <i>Journal of the Brazilian Chemical Society</i> , 2007, 18, 577-584.	0.6	12
44	Self-assembled hybrid films of phosphotungstic acid and aminoalkoxysilanes on SiO ₂ /Si surfaces. <i>Thin Solid Films</i> , 2012, 520, 3574-3580.	0.8	12
45	Nanomechanical Cantilever-Based Sensor: An Efficient Tool to Measure the Binding Between the Herbicide Mesotrione and 4-Hydroxyphenylpyruvate Dioxygenase. <i>Nano</i> , 2017, 12, 1750079.	0.5	12
46	AFM fracture surface study of vinyl ester and unsaturated polyester based thermosets. <i>Journal of Materials Science</i> , 2006, 41, 6154-6158.	1.7	11
47	Efficient Taste Sensors Made of Bare Metal Electrodes. <i>Sensor Letters</i> , 2006, 4, 155-159.	0.4	11
48	Synthesis of Nanoparticles and Nanofibers of Polyaniline by Potentiodynamic Electrochemical Polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2169-2172.	0.9	10
49	Investigation of Sisal Fibers by Atomic Force Microscopy: Morphological and Adhesive Characteristics. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 2354-2361.	0.9	9
50	Doping in poly(o-ethoxyaniline) nanostructured films studied with atomic force spectroscopy (AFS). <i>Micron</i> , 2008, 39, 1119-1125.	1.1	8
51	Adhesion Forces for Mica and Silicon Oxide Surfaces Studied by Atomic Force Spectroscopy (AFS). <i>Microscopy and Microanalysis</i> , 2005, 11, 130-133.	0.2	7
52	Characterization of Cellulose Nanocrystals Grafted with Organic Acid Chloride of Different Sizes. <i>Journal of Renewable Materials</i> , 2014, 2, 306-313.	1.1	7
53	Unbinding pathway energy of glyphosate from the EPSPs enzyme binding site characterized by Steered Molecular Dynamics and Potential of Mean Force. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 72, 43-49.	1.3	7
54	Peptide-Conjugated Silver Nanoparticle for Autoantibody Recognition. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7564-7573.	0.9	7

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55	A highly specific and sensitive nanoimmunosensor for the diagnosis of neuromyelitis optica spectrum disorders. <i>Scientific Reports</i> , 2019, 9, 16136.	1.6	6
56	A Nanomechanical Genosensor Using Functionalized Cantilevers to Detect the Cancer Biomarkers miRNA-203 and miRNA-205. <i>IEEE Sensors Journal</i> , 2020, 20, 2860-2867.	2.4	6
57	Antibody-mediated biorecognition of myelin oligodendrocyte glycoprotein: computational evidence of demyelination-related epitopes. <i>Scientific Reports</i> , 2019, 9, 2033.	1.6	3
58	Immobilization and unbinding investigation of the antigen-antibody complex using theoretical and experimental techniques. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 86, 219-227.	1.3	3
59	Nanoimmunosensor based on atomic force spectroscopy to detect anti-myelin basic protein related to early-stage multiple sclerosis. <i>Ultramicroscopy</i> , 2020, 211, 112946.	0.8	3
60	Layer-by-layer films of poly(o-ethoxyaniline), chitosan and chitosan-poly(methacrylic acid) nanoparticles and their application in an electronic tongue. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2006, 13, 1101-1109.	1.8	2
61	Atrazine Detection in Liquid Using a Nanoimmunosensor Based on Chemically Modified Atomic Force Microscopy Tips. <i>Sensor Letters</i> , 2016, 14, 508-514.	0.4	2
62	Anti-aquaporin-4 immunoglobulin G colorimetric detection by silver nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 41, 102531.	1.7	2
63	Caracterização morfológica de nanocristais de celulose por microscopia de força atômica. <i>Revista Materia</i> , 2016, 21, 532-540.	0.1	1
64	A Computational Protein Structure Refinement of the Yeast Acetohydroxyacid Synthase. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	1
65	Nanoneurobiophysics: The Leading Highway for Neurodegenerative Diseases Research. <i>Journal of Nanomedicine Research</i> , 2016, 4, .	1.8	1
66	Scanning Probe Microscopy as a Tool Applied to Agriculture. <i>Nanoscience and Technology</i> , 2010, , 915-944.	1.5	0
67	Construção de uma balança simples para determinação da tensão superficial de líquidos. <i>Revista Brasileira De Ensino De Física</i> , 2015, 37, 1503.	0.2	0