

Pedro Henrique Benites Aoki

List of Publications by Year in descending order

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53
papers

895
citations

394286

19
h-index

526166

27
g-index

55
all docs

55
docs citations

55
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-enhanced Raman scattering (SERS) applied to cancer diagnosis and detection of pesticides, explosives, and drugs. <i>Reviews in Analytical Chemistry</i> , 2013, 32, 55-76.	1.5	57
2	Zika Immunoassay Based on Surface-Enhanced Raman Scattering Nanoprobes. <i>ACS Sensors</i> , 2018, 3, 587-594.	4.0	57
3	Layer-by-Layer Technique as a New Approach to Produce Nanostructured Films Containing Phospholipids as Transducers in Sensing Applications. <i>Langmuir</i> , 2009, 25, 2331-2338.	1.6	49
4	Molecular-Level Modifications Induced by Photo-Oxidation of Lipid Monolayers Interacting with Erythrosin. <i>Langmuir</i> , 2016, 32, 3766-3773.	1.6	42
5	Vibrational spectroscopy for probing molecular-level interactions in organic films mimicking biointerfaces. <i>Advances in Colloid and Interface Science</i> , 2014, 207, 199-215.	7.0	35
6	Study of the interaction between cardiolipin bilayers and methylene blue in polymer-based Layer-by-Layer and Langmuir films applied as membrane mimetic systems. <i>Vibrational Spectroscopy</i> , 2010, 54, 93-102.	1.2	33
7	Portable smart films for ultrasensitive detection and chemical analysis using SERS and SERRS. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 474-477.	1.2	30
8	Coupling Surface-Enhanced Resonance Raman Scattering and Electronic Tongue as Characterization Tools to Investigate Biological Membrane Mimetic Systems. <i>Analytical Chemistry</i> , 2010, 82, 3537-3546.	3.2	28
9	Taking Advantage of Electrostatic Interactions To Grow Langmuir-Blodgett Films Containing Multilayers of the Phospholipid Dipalmitoylphosphatidylglycerol. <i>Langmuir</i> , 2009, 25, 13062-13070.	1.6	27
10	Fabrication of zinc oxide nanowires/polymer composites by two-photon polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 333-337.	2.4	26
11	Increasing the Enhancement Factor in Plasmon-Enhanced Fluorescence with Shell-Isolated Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20530-20535.	1.5	26
12	Incorporation of Ag nanoparticles into membrane mimetic systems composed by phospholipid layer-by-layer (LbL) films to achieve surface-enhanced Raman scattering as a tool in drug interaction studies. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 40-48.	1.2	25
13	Immunoassay quantification using surface-enhanced fluorescence (SEF) tags. <i>Analyst</i> , 2017, 142, 2717-2724.	1.7	25
14	Bioadhesive giant vesicles for monitoring hydroperoxidation in lipid membranes. <i>Soft Matter</i> , 2015, 11, 5995-5998.	1.2	23
15	Spray layer-by-layer films based on phospholipid vesicles aiming sensing application via e-tongue system. <i>Materials Science and Engineering C</i> , 2012, 32, 862-871.	3.8	21
16	Supramolecular architectures of iron phthalocyanine Langmuir-Blodgett films: The role played by the solution solvents. <i>Applied Surface Science</i> , 2017, 416, 482-491.	3.1	21
17	Evidence of photoinduced lipid hydroperoxidation in Langmuir monolayers containing Eosin Y. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 682-689.	2.5	21
18	Sensor Array Made with Nanostructured Films to Detect a Phenothiazine Compound. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4341-4348.	0.9	20

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19	Detection of trace levels of atrazine using surface-enhanced Raman scattering and information visualization. <i>Colloid and Polymer Science</i> , 2014, 292, 2811-2820.	1.0	19
20	Probing trace levels of prometryn solutions: from test samples in the lab toward real samples with tap water. <i>Journal of Materials Science</i> , 2016, 51, 3182-3190.	1.7	19
21	Toward the Optimization of an e-Tongue System Using Information Visualization: A Case Study with Perylene Tetracarboxylic Derivative Films in the Sensing Units. <i>Langmuir</i> , 2012, 28, 1029-1040.	1.6	18
22	Molecularly Designed Layer-by-Layer (LbL) Films to Detect Catechol Using Information Visualization Methods. <i>Langmuir</i> , 2013, 29, 7542-7550.	1.6	18
23	SERS Mapping in Langmuir-Blodgett Films and Single-Molecule Detection. <i>Applied Spectroscopy</i> , 2013, 67, 563-569.	1.2	18
24	Breast cancer subtype specific biochemical responses to radiation. <i>Analyst, The</i> , 2018, 143, 3850-3858.	1.7	18
25	Role of Toluidine Blue-O Binding Mechanism for Photooxidation in Bioinspired Bacterial Membranes. <i>Langmuir</i> , 2019, 35, 16745-16751.	1.6	18
26	Immunoassay platform with surface-enhanced resonance Raman scattering for detecting trace levels of SARS-CoV-2 spike protein. <i>Talanta</i> , 2022, 244, 123381.	2.9	17
27	Supramolecular Architecture and Electrical Properties of a Perylene Derivative in Physical Vapor Deposited Films. <i>Materials Research</i> , 2015, 18, 127-137.	0.6	15
28	Molecular-level effects on cell membrane models to explain the phototoxicity of gold shell-isolated nanoparticles to cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 194, 111189.	2.5	13
29	Molecular Architecture and Electrical Properties in Evaporated Films of Cobalt Phthalocyanine. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 7010-7020.	0.9	12
30	Nanostructured hybrid films containing nanophosphor: Fabrication and electronic spectral properties. <i>Journal of Alloys and Compounds</i> , 2012, 541, 365-371.	2.8	12
31	Supramolecular arrangements of an organometallic forming nanostructured films. <i>Materials Research</i> , 2014, 17, 1375-1383.	0.6	12
32	On the distinct molecular architectures of dipping- and spray-LbL films containing lipid vesicles. <i>Materials Science and Engineering C</i> , 2014, 41, 363-371.	3.8	11
33	Correlating Artepillin C cytotoxic activity on HEp-2 cells with bioinspired systems of plasma membranes. <i>Materials Science and Engineering C</i> , 2020, 112, 110943.	3.8	10
34	Sprayed films of europium complexes toward light conversion devices. <i>Journal of Luminescence</i> , 2014, 153, 272-280.	1.5	9
35	Chain Cleavage of Bioinspired Bacterial Membranes Photoinduced by Eosin Decyl Ester. <i>Langmuir</i> , 2020, 36, 9578-9585.	1.6	9
36	Combining SERRS and electrochemistry to characterize sensors based on biomembrane mimetic models formed by phospholipids. <i>RSC Advances</i> , 2011, 1, 211.	1.7	8

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37	Modulating photochemical reactions in Langmuir monolayers of Escherichia coli lipid extract with the binding mechanisms of eosin decyl ester and toluidine blue-O photosensitizers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 218, 112173.	1.7	8
38	The protective effect of Artepillin C against lipid oxidation on model membranes. <i>Journal of Molecular Liquids</i> , 2021, 324, 115089.	2.3	7
39	Plasma membrane permeabilization to explain erythrosine B phototoxicity on in vitro breast cancer cell models. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 223, 112297.	1.7	7
40	Photo-Induced Necrosis on Oropharyngeal Carcinoma (HEp-2) Cells Mediated by the Xanthene Erythrosine. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6180-6190.	0.9	7
41	The efficiency of photothermal action of gold shell-isolated nanoparticles against tumor cells depends on membrane interactions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 211, 112301.	2.5	7
42	Use of giant unilamellar lipid vesicles as antioxidant carriers in in vitro culture medium of bovine embryos. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
43	Co-Deposition of Gold Nanoparticles and Metalloporphyrin Using the Langmuir-Blodgett (LB) Technique for Surface-Enhanced Raman Scattering (SERS). <i>Applied Spectroscopy</i> , 2015, 69, 451-456.	1.2	5
44	Metabolic and proliferation evaluation of human adipose-derived mesenchymal stromal cells (ASC) in different culture medium volumes: standardization of static culture. <i>Biologicals</i> , 2019, 62, 93-101.	0.5	5
45	Mechanisms of hypericin incorporation to explain the photooxidation outcomes in phospholipid biomembrane models. <i>Chemistry and Physics of Lipids</i> , 2022, 244, 105181.	1.5	5
46	Spectroscopic Techniques for Characterization of Nanomaterials. , 2017, , 65-98.		4
47	Surface Morphology and Structural Modification Induced by Femtosecond Pulses in Hydrogenated Amorphous Silicon Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 2495-2500.	0.9	2
48	Lipid-matrix effects on tyrosinase immobilization in Langmuir and Langmuir-Blodgett films. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20200019.	0.3	2
49	Nanoparticle Technology: An alternative approach for Leishmaniasis Treatment. , 0, , .		1
50	Modulating the lipid profile of blastocyst cell membrane with DPPC multilamellar vesicles. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2022, 50, 158-167.	1.9	1
51	Plasmonics in Analytical Spectroscopy. <i>ACS Symposium Series</i> , 2015, , 269-301.	0.5	0
52	TÉCNICAS ESPECTROSCÓPICAS DE CARACTERIZAÇÃO DE NANOMATERIAIS. , 2015, , 75-112.		0
53	Lipid exchanges between dioctadecyldimethylammonium bromide monolayer and vesicles in the subphase. <i>Journal of Surfactants and Detergents</i> , 2022, 25, 275-279.	1.0	0