Osvaldo N Oliveira Jr

List of Publications by Year
in descending order

417 papers	14,967 citations	23500 58 h-index	37111 96 g-index
422 all docs	422 docs citations	422 times ranked	14629 citing authors

#	Article	IF	Citations
1	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. Advances in Physics, 2011, 60, 329-412.	35.9	532
2	A review on chemiresistive room temperature gas sensors based on metal oxide nanostructures, graphene and 2D transition metal dichalcogenides. Mikrochimica Acta, 2018, 185, 213.	2.5	502
3	Plasmonic Biosensing. Chemical Reviews, 2018, 118, 10617-10625.	23.0	375
4	Theoretical Models for Surface Forces and Adhesion and Their Measurement Using Atomic Force Microscopy. International Journal of Molecular Sciences, 2012, 13, 12773-12856.	1.8	324
5	Modern physicochemical research on Langmuir monolayers. Advances in Colloid and Interface Science, 2001, 91, 221-293.	7.0	307
6	Recent advances in electronic tongues. Analyst, The, 2010, 135, 2481.	1.7	235
7	Gold Nanoparticle Embedded, Self-Sustained Chitosan Films as Substrates for Surface-Enhanced Raman Scattering. Langmuir, 2004, 20, 10273-10277.	1.6	203
8	Yolk-shelled ZnCo2O4 microspheres: Surface properties and gas sensing application. Sensors and Actuators B: Chemical, 2018, 257, 906-915.	4.0	197
9	Immobilization of biomolecules on nanostructured films for biosensing. Biosensors and Bioelectronics, 2010, 25, 1254-1263.	5.3	195
10	Chitosan in Nanostructured Thin Films. Biomacromolecules, 2010, 11, 1897-1908.	2.6	185
11	Electrospun Polyamide 6/Poly(allylamine hydrochloride) Nanofibers Functionalized with Carbon Nanotubes for Electrochemical Detection of Dopamine. ACS Applied Materials & Interfaces, 2015, 7, 4784-4790.	4.0	185
12	A strategy for enzyme immobilization on layer-by-layer dendrimerâ€“gold nanoparticle electrocatalytic membrane incorporating redox mediator. Electrochemistry Communications, 2006, 8, 1665-1670.	2.3	174
13	The Past and the Future of Langmuir and Langmuirâ€“Blodgett Films. Chemical Reviews, 2022, 122, 6459-6513.	23.0	155
14	Nanomaterials for Diagnosis: Challenges and Applications in Smart Devices Based on Molecular Recognition. ACS Applied Materials & Interfaces, 2014, 6, 14745-14766.	4.0	146
15	Layer-by-Layer Self-Assembled Chitosan/Poly(thiophene-3-acetic acid) and Organophosphorus Hydrolase Multilayers. Journal of the American Chemical Society, 2003, 125, 1805-1809.	6.6	145
16	Wine classification by taste sensors made from ultra-thin films and using neural networks. Sensors and Actuators B: Chemical, 2004, 98, 77-82.	4.0	143
17	Optical storage and surface-relief gratings in azobenzene-containing nanostructured films. Advances in Colloid and Interface Science, 2005, 116, 179-192.	7.0	132
18	Enzyme-mediated amperometric biosensors prepared with the Layer-by-Layer (LbL) adsorption technique. Biosensors and Bioelectronics, 2004, 19, 1611-1615.	5.3	129

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19	Interaction of Chitosan with Cell Membrane Models at the Airâ^'Water Interface. Biomacromolecules, 2007, 8, 1633-1640.	2.6	118
20	Silver Nanowire Layer-by-Layer Films as Substrates for Surface-Enhanced Raman Scattering. Analytical Chemistry, 2005, 77, 378-382.	3.2	115
21	Interactions of bioactive molecules & nanomaterials with Langmuir monolayers as cell membrane models. Thin Solid Films, 2015, 593, 158-188.	0.8	114
22	One-step approach for preparing ozone gas sensors based on hierarchical NiCo₂O₄ structures. RSC Advances, 2016, 6, 92655-92662.	1.7	114
23	Estimation of group dipole moments from surface potential measurements on Langmuir monolayers. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 1009.	1.0	110
24	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. Mikrochimica Acta, 2019, 186, 418.	2.5	109
25	Enzyme immobilization on Ag nanoparticles/polyaniline nanocomposites. Biosensors and Bioelectronics, 2009, 24, 3073-3077.	5.3	106
26	Information visualization techniques for sensing and biosensing. Analyst, The, 2011, 136, 1344.	1.7	102
27	Unusual Interactions Binding Iron Tetrasulfonated Phthalocyanine and Poly(allylamine) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 42	1.2	100
28	A complex network approach to text summarization. Information Sciences, 2009, 179, 584-599.	4.0	99
29	Surface-Enhanced Raman Scattering on Dendrimer/Metallic Nanoparticle Layer-by-Layer Film Substrates. Langmuir, 2005, 21, 5576-5581.	1.6	98
30	Molecular-Level Manipulation of V2O5/Polyaniline Layer-by-Layer Films To Control Electrochromogenic and Electrochemical Properties. Chemistry of Materials, 2004, 16, 2293-2299.	3.2	94
31	Enhanced Charge Transport and Incorporation of Redox Mediators in Layer-by-Layer Films Containing PAMAM-Encapsulated Gold Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 17478-17483.	1.2	94
32	Using network science and text analytics to produce surveys in a scientific topic. Journal of Informetrics, 2016, 10, 487-502.	1.4	94
33	The Surface Potential of Langmuir Monolayers Revisited. Langmuir, 1997, 13, 5920-5924.	1.6	93
34	Penicillin biosensor based on a capacitive field-effect structure functionalized with a dendrimer/carbon nanotube multilayer. Biosensors and Bioelectronics, 2009, 25, 497-501.	5.3	92
35	Nanoscale processing of polyaniline and phthalocyanines for sensing applications. Sensors and Actuators B: Chemical, 2006, 113, 809-815.	4.0	89
36	Hybrid layer-by-layer (LbL) films of polyaniline, graphene oxide and zinc oxide to detect ammonia. Sensors and Actuators B: Chemical, 2017, 238, 795-801.	4.0	81

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37	Carbon Nanotube Matrix for Highly Sensitive Biosensors To Detect Pancreatic Cancer Biomarker CA19-9. ACS Applied Materials & Interfaces, 2017, 9, 25878-25886.	4.0	80
38	On the Challenges for the Diagnosis of SARS-CoV-2 Based on a Review of Current Methodologies. ACS Sensors, 2020, 5, 3655-3677.	4.0	80
39	Enhanced activity of horseradish peroxidase in Langmuirâ€“Blodgett films of phospholipids. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2291-2297.	1.4	78
40	High-Performance Taste Sensor Made from Langmuirâ€'Blodgett Films of Conducting Polymers and a Ruthenium Complex. Analytical Chemistry, 2003, 75, 953-955.	3.2	77
41	Electrochemical biosensor made with tyrosinase immobilized in a matrix of nanodiamonds and potato starch for detecting phenolic compounds. Analytica Chimica Acta, 2018, 1034, 137-143.	2.6	77
42	Controlling the size and shape of gold nanoparticles in fulvic acid colloidal solutions and their optical characterization using SERS. Journal of Materials Chemistry, 2005, 15, 3045.	6.7	75
43	Immobilization of Humic Acid in Nanostructured Layer-by-Layer Films for Sensing Applications. Environmental Science & Technology, 2005, 39, 5385-5389.	4.6	74
44	On the release of metronidazole from natural rubber latex membranes. Materials Science and Engineering C, 2011, 31, 272-275.	3.8	74
45	Physicochemical Properties and Sensing Ability of Metallophthalocyanines/Chitosan Nanocomposites. Journal of Physical Chemistry B, 2006, 110, 22690-22694.	1.2	70
46	Proton transport at the monolayer-water interface. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1062, 149-156.	1.4	68
47	Layer-by-Layer Assembly of Carbon Nanotubes Incorporated in Light-Addressable Potentiometric Sensors. Journal of Physical Chemistry C, 2009, 113, 14765-14770.	1.5	68
48	Biosensors for Efficient Diagnosis of Leishmaniasis: Innovations in Bioanalytics for a Neglected Disease. Analytical Chemistry, 2010, 82, 9763-9768.	3.2	66
49	Detection of the Prostate Cancer Biomarker PCA3 with Electrochemical and Impedance-Based Biosensors. ACS Applied Materials & Interfaces, 2019, 11, 46645-46650.	4.0	65
50	Dendrimers as nanoreactors to produce platinum nanoparticles embedded in layer-by-layer films for methanol-tolerant cathodes. Electrochemistry Communications, 2006, 8, 348-352.	2.3	64
51	Catechol biosensing using a nanostructured layer-by-layer film containing Cl-catechol 1,2-dioxygenase. Biosensors and Bioelectronics, 2006, 21, 1320-1326.	5.3	64
52	Enhanced Transverse Magneto-Optical Kerr Effect in Magnetoplasmonic Crystals for the Design of Highly Sensitive Plasmonic (Bio)sensing Platforms. ACS Omega, 2017, 2, 7682-7685.	1.6	63
53	Microfluidic electronic tongue. Sensors and Actuators B: Chemical, 2015, 207, 1129-1135.	4.0	62
54	A Nanostructured Bifunctional platform for Sensing of Glucose Biomarker in Artificial Saliva: Synergy in hybrid Pt/Au surfaces. Biosensors and Bioelectronics, 2016, 86, 369-376.	5.3	62

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55	Screen-printed interdigitated electrodes modified with nanostructured carbon nano-onion films for detecting the cancer biomarker CA19-9. Materials Science and Engineering C, 2019, 99, 1502-1508.	3.8	62
56	Electroactive Multilayer Films of Polyaniline and Vanadium Pentoxide. Journal of Physical Chemistry B, 2003, 107, 8351-8354.	1.2	60
57	Langmuirâ€“Blodgett films from polyaniline/ruthenium complexes as modified electrodes for detection of dopamine. Thin Solid Films, 2004, 446, 301-306.	0.8	60
58	Using phospholipid Langmuir and Langmuirâ€“Blodgett films as matrix for urease immobilization. Journal of Colloid and Interface Science, 2008, 319, 100-108.	5.0	60
59	Cholesterol Mediates Chitosan Activity on Phospholipid Monolayers and Langmuirâ˜Blodgett Films. Langmuir, 2009, 25, 10051-10061.	1.6	60
60	Probing the interaction of oppositely charged gold nanoparticles with DPPG and DPPC Langmuir monolayers as cell membrane models. Colloids and Surfaces B: Biointerfaces, 2013, 108, 120-126.	2.5	60
61	Electrical detection of pathogenic bacteria in food samples using information visualization methods with a sensor based on magnetic nanoparticles functionalized with antimicrobial peptides. Talanta, 2019, 194, 611-618.	2.9	60
62	Fabrication of Phytic Acid Sensor Based on Mixed Phytaseâ˜Lipid Langmuirâ˜Blodgett Films. Langmuir, 2006, 22, 8501-8508.	1.6	59
63	Using Capacitance Measurements as the Detection Method in Antigen-Containing Layer-by-Layer Films for Biosensing. Analytical Chemistry, 2007, 79, 2163-2167.	3.2	59
64	Adsorption according to the Langmuirâ€“Freundlich model is the detection mechanism of the antigen p53 for early diagnosis of cancer. Physical Chemistry Chemical Physics, 2016, 18, 8412-8418.	1.3	57
65	Spectroscopic Studies of the Intermolecular Interactions of Congo Red and Tinopal CBS with Modified Cellulose Fibers. Langmuir, 2005, 21, 5414-5420.	1.6	56
66	A Future with Ubiquitous Sensing and Intelligent Systems. ACS Sensors, 2018, 3, 1433-1438.	4.0	55
67	Interaction of chitosan and mucin in a biomembrane model environment. Journal of Colloid and Interface Science, 2012, 376, 289-295.	5.0	54
68	Simultaneous, ultrasensitive detection of hydroquinone, paracetamol and estradiol for quality control of tap water with a simple electrochemical method. Journal of Electroanalytical Chemistry, 2019, 848, 113319.	1.9	54
69	Printex 6L Carbon Nanoballs used in Electrochemical Sensors for Simultaneous Detection of Emerging Pollutants Hydroquinone and Paracetamol. Sensors and Actuators B: Chemical, 2017, 252, 165-174.	4.0	54
70	Synergistic interaction between gold nanoparticles and nickel phthalocyanine in layer-by-layer (LbL) films: evidence of constitutional dynamic chemistry (CDC). Physical Chemistry Chemical Physics, 2009, 11, 5086.	1.3	53
71	Hydrogen-bond control of structure and conductivity of Langmuir films. Physical Review E, 1998, 57, 6835-6839.	0.8	52
72	Carbon nanotubes in nanostructured films: Potential application as amperometric and potentiometric fieldâ€effect (bioâ€)chemical sensors. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 462-467.	0.8	52

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73	Langmuir films containing ibuprofen and phospholipids. Chemical Physics Letters, 2013, 559, 99-106.	1.2	52
74	Enzyme immobilisation on electroactive nanostructured membranes (ENM): Optimised architectures for biosensing. Talanta, 2008, 76, 922-928.	2.9	51
75	Immbolization of uricase enzyme in Langmuir and Langmuir-Blodgett films of fatty acids: Possible use as a uric acid sensor. Journal of Colloid and Interface Science, 2012, 373, 69-74.	5.0	50
76	Layer-by-Layer Hybrid Films Incorporating WO3, TiO2, and Chitosan. Chemistry of Materials, 2005, 17, 6739-6745.	3.2	49
77	Processing of Electroactive Nanostructured Films Incorporating Carbon Nanotubes and Phthalocyanines for Sensing. Journal of Physical Chemistry C, 2008, 112, 9050-9055.	1.5	49
78	Structureâ€“semantics interplay in complex networks and its effects on the predictability of similarity in texts. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4406-4419.	1.2	49
79	Big data and machine learning for materials science. Discover Materials, 2021, 1, 12.	1.0	49
80	Surface plasmon resonance biosensor for enzymatic detection of small analytes. Nanotechnology, 2017, 28, 145501.	1.3	48
81	Multifunctional hybrid aerogels: hyperbranched polymer-trapped mesoporous silica nanoparticles for sustained and prolonged drug release. Nanoscale, 2018, 10, 1704-1715.	2.8	48
82	Eco-friendly gelatin films with rosin-grafted cellulose nanocrystals for antimicrobial packaging. International Journal of Biological Macromolecules, 2020, 165, 2974-2983.	3.6	48
83	Energies of Adsorption of Poly(o-methoxyaniline) Layer-by-Layer Films. Langmuir, 2000, 16, 2839-2844.	1.6	47
84	Controlled Film Architectures to Detect a Biomarker for Pancreatic Cancer Using Impedance Spectroscopy. ACS Applied Materials & Interfaces, 2015, 7, 25930-25937.	4.0	47
85	Information Visualization and Feature Selection Methods Applied to Detect Gliadin in Gluten-Containing Foodstuff with a Microfluidic Electronic Tongue. ACS Applied Materials & Interfaces, 2017, 9, 19646-19652.	4.0	47
86	Immunosensors Made with Layer-by-Layer Films on Chitosan/Gold Nanoparticle Matrices to Detect D-Dimer as Biomarker for Venous Thromboembolism. Bulletin of the Chemical Society of Japan, 2018, 91, 891-896.	2.0	47
87	Wearable sensors made with solution-blow spinning poly(lactic acid) for non-enzymatic pesticide detection in agriculture and food safety. Biosensors and Bioelectronics, 2022, 199, 113875.	5.3	47
88	Adsorption of Poly(o-methoxyaniline) in Layer-by-Layer Films. Langmuir, 2002, 18, 6866-6874.	1.6	46
89	Influence of Film Architecture on the Charge-Transfer Reactions of Metallophthalocyanine Layer-by-Layer Films. Journal of Physical Chemistry C, 2007, 111, 12817-12821.	1.5	46
90	Interactions of chlorpromazine with phospholipid monolayers: Effects of the ionization state of the drug. Biophysical Chemistry, 2007, 125, 425-434.	1.5	46

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91	Extractive summarization using complex networks and syntactic dependency. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1855-1864.	1.2	46
92	Immunosensor for Pancreatic Cancer Based on Electrospun Nanofibers Coated with Carbon Nanotubes or Gold Nanoparticles. ACS Omega, 2017, 2, 6975-6983.	1.6	46
93	Sensitive detection of estriol hormone in creek water using a sensor platform based on carbon black and silver nanoparticles. Talanta, 2017, 174, 652-659.	2.9	46
94	Enzyme Activity of Catalase Immobilized in Langmuirâ"Blodgett Films of Phospholipids. Langmuir, 2010, 26, 11135-11139.	1.6	45
95	A Layer-by-Layer Film of Chitosan in a Taste Sensor Application. Macromolecular Bioscience, 2003, 3, 591-595.	2.1	44
96	The effect of the layer structure on the activity of immobilized enzymes in ultrathin films. Journal of Colloid and Interface Science, 2006, 303, 326-331.	5.0	44
97	Size Control of Carbon Spherical Shells for Sensitive Detection of Paracetamol in Sweat, Saliva, and Urine. ACS Applied Nano Materials, 2018, 1, 654-661.	2.4	44
98	Probing the Statistical Properties of Unknown Texts: Application to the Voynich Manuscript. PLoS ONE, 2013, 8, e67310.	1.1	44
99	Immobilization of uricase in layer-by-layer films used in amperometric biosensors for uric acid. Journal of Solid State Electrochemistry, 2007, 11, 1489-1495.	1.2	43
100	COMPLEX NETWORKS ANALYSIS OF MANUAL AND MACHINE TRANSLATIONS. International Journal of Modern Physics C, 2008, 19, 583-598.	0.8	43
101	Electrostatic Interactions Are Not Sufficient to Account for Chitosan Bioactivity. ACS Applied Materials & Interfaces, 2010, 2, 246-251.	4.0	43
102	Chitosan as a Removing Agent of Î²-Lactoglobulin from Membrane Models. Langmuir, 2008, 24, 4150-4156.	1.6	42
103	Immobilization of cholesterol oxidase in LbL films and detection of cholesterol using ac measurements. Materials Science and Engineering C, 2009, 29, 442-447.	3.8	42
104	The origin of the molecular interaction between amino acids and gold nanoparticles: A theoretical and experimental investigation. Chemical Physics Letters, 2009, 469, 186-190.	1.2	42
105	Molecular-Level Modifications Induced by Photo-Oxidation of Lipid Monolayers Interacting with Erythrosin. Langmuir, 2016, 32, 3766-3773.	1.6	42
106	Ultralow Cost Electrochemical Sensor Made of Potato Starch and Carbon Black Nanoballs to Detect Tetracycline in Waters and Milk. Electroanalysis, 2018, 30, 2153-2159.	1.5	42
107	Paper-based electrochemical sensors with reduced graphene nanoribbons for simultaneous detection of sulfamethoxazole and trimethoprim in water samples. Journal of Electroanalytical Chemistry, 2021, 882, 114985.	1.9	42
108	Natural Gum-Assisted Phthalocyanine Immobilization in Electroactive Nanocomposites:â€‰ Physicochemical Characterization and Sensing Applications. Biomacromolecules, 2007, 8, 3408-3413.	2.6	40

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109	Use of Information Visualization Methods Eliminating Cross Talk in Multiple Sensing Units Investigated for a Light-Addressable Potentiometric Sensor. Analytical Chemistry, 2010, 82, 61-65.	3.2	40
110	Insights into nano-heterostructured materials for gas sensing: a review. Multifunctional Materials, 2021, 4, 032002.	2.4	40
111	TEM, XRD and AFM study of poly(o-ethoxyaniline) films: newÂevidence for the formation of conducting islands. Applied Physics A: Materials Science and Processing, 2008, 93, 537-542.	1.1	39
112	Detection of catechol using mixed Langmuirâ€“Blodgett films of a phospholipid and phthalocyanines as voltammetric sensors. Analyst, The, 2010, 135, 2591.	1.7	39
113	Long-Term Stability at High Temperatures for Birefringence in PAZO/PAH Layer-by-Layer Films. ACS Applied Materials & Interfaces, 2012, 4, 1470-1477.	4.0	39
114	Use of zein microspheres to anchor carbon black and hemoglobin in electrochemical biosensors to detect hydrogen peroxide in cosmetic products, food and biological fluids. Talanta, 2019, 194, 737-744.	2.9	39
115	Electrochemical and optical detection and machine learning applied to images of genosensors for diagnosis of prostate cancer with the biomarker PCA3. Talanta, 2021, 222, 121444.	2.9	39
116	Adsorption mechanisms in layer-by-layer films. Brazilian Journal of Physics, 1998, 28, 00-00.	0.7	38
117	Comparing intermittency and network measurements of words and their dependence on authorship. New Journal of Physics, 2011, 13, 123024.	1.2	37
118	Immobilization of Alcohol Dehydrogenase in Phospholipid Langmuirâ€'Blodgett Films To Detect Ethanol. Langmuir, 2009, 25, 3057-3061.	1.6	36
119	Supramolecular Control in Nanostructured Film Architectures for Detecting Breast Cancer. ACS Applied Materials & Interfaces, 2015, 7, 11833-11841.	4.0	36
120	Binding of Methylene Blue onto Langmuir Monolayers Representing Cell Membranes May Explain Its Efficiency as Photosensitizer in Photodynamic Therapy. Langmuir, 2015, 31, 4205-4212.	1.6	36
121	Electrochemical and Electrochromic Properties of Layer-by-Layer Films from WO3 and Chitosan. Journal of Physical Chemistry B, 2005, 109, 12837-12844.	1.2	35
122	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.	5.0	35
123	Correlations between structure and random walk dynamics in directed complex networks. Applied Physics Letters, 2007, 91, 054107.	1.5	35
124	Dendrimer-assisted immobilization of alcohol dehydrogenase in nanostructured films for biosensing: Ethanol detection using electrical capacitance measurements. Thin Solid Films, 2008, 516, 9002-9005.	0.8	35
125	The interaction of an antiparasitic peptide active against African Sleeping Sickness with cell membrane models. Colloids and Surfaces B: Biointerfaces, 2009, 74, 504-510.	2.5	35
126	Identification of literary movements using complex networks to represent texts. New Journal of Physics, 2012, 14, 043029.	1.2	35

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127	Vibrational spectroscopy for probing molecular-level interactions in organic films mimicking biointerfaces. Advances in Colloid and Interface Science, 2014, 207, 199-215.	7.0	35
128	Microfluidic-Based Genosensor To Detect Human Papillomavirus (HPV16) for Head and Neck Cancer. ACS Applied Materials & Interfaces, 2018, 10, 36757-36763.	4.0	35
129	Layer-by-Layer Nanostructured Hybrid Films of Polyaniline and Vanadium Oxide. Journal of Nanoscience and Nanotechnology, 2002, 2, 29-32.	0.9	34
130	Langmuir and Langmuirâ^'Blodgett Films of Poly[2-methoxy-5-(n-hexyloxy)-p-phenylenevinylene]. Langmuir, 2003, 19, 8835-8842.	1.6	34
131	Complex networks analysis of language complexity. Europhysics Letters, 2012, 100, 58002.	0.7	34
132	A new strategy to investigate the toxicity of nanomaterials using Langmuir monolayers as membrane models. Nanotoxicology, 2013, 7, 61-70.	1.6	34
133	Amperometric Detection of Lactose Using Î²-Galactosidase Immobilized in Layer-by-Layer Films. ACS Applied Materials & Interfaces, 2014, 6, 11657-11664.	4.0	34
134	Functionalization-Free Microfluidic Electronic Tongue Based on a Single Response. ACS Sensors, 2017, 2, 1027-1034.	4.0	34
135	Immobilization of liposomes in nanostructured layer-by-layer films containing dendrimers. Materials Science and Engineering C, 2008, 28, 467-471.	3.8	33
136	Detection of phenolic compounds using impedance spectroscopy measurements. Bioprocess and Biosystems Engineering, 2009, 32, 41-46.	1.7	33
137	Unveiling the relationship between complex networks metrics and word senses. Europhysics Letters, 2012, 98, 18002.	0.7	33
138	On the use of topological features and hierarchical characterization for disambiguating names in collaborative networks. Europhysics Letters, 2012, 99, 48002.	0.7	33
139	Layer-by-layer fabrication of AgClâ€“PANI hybrid nanocomposite films for electronic tongues. Physical Chemistry Chemical Physics, 2014, 16, 24275-24281.	1.3	33
140	Extent of shielding by counterions determines the bactericidal activity of N,N,N-trimethyl chitosan salts. Carbohydrate Polymers, 2016, 137, 418-425.	5.1	33
141	Interaction of dipyridamole with lipids in mixed Langmuir monolayers. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1278, 12-18.	1.4	32
142	Bifunctional electroactive nanostructured membranes. Electrochemistry Communications, 2007, 9, 2676-2680.	2.3	32
143	Interaction of horseradish peroxidase with Langmuir monolayers of phospholipids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 321, 206-210.	2.3	32
144	Interaction of O-acylated chitosans with biomembrane models: Probing the effects from hydrophobic interactions and hydrogen bonding. Colloids and Surfaces B: Biointerfaces, 2014, 114, 53-59.	2.5	32

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145	Hybrid Materials and Nanocomposites as Multifunctional Biomaterials. Current Pharmaceutical Design, 2017, 23, 3794-3813.	0.9	32
146	Nature of the Interaction between a Peptidolipid Langmuir Monolayer and Paraoxon in the Subphase. Journal of Physical Chemistry C, 2007, 111, 7826-7833.	1.5	31
147	Low molecular-weight chitosans are stronger biomembrane model perturbants. Colloids and Surfaces B: Biointerfaces, 2013, 104, 48-53.	2.5	31
148	Topological-collaborative approach for disambiguating authorsâ€™ names in collaborative networks. Scientometrics, 2015, 102, 465-485.	1.6	31
149	Design of A Low-Cost and Disposable Paper-Based Immunosensor for the Rapid and Sensitive Detection of Aflatoxin B1. Chemosensors, 2020, 8, 87.	1.8	31
150	Capacitive electrolyteâ€“insulatorâ€“semiconductor structures functionalised with a polyelectrolyte/enzyme multilayer: New strategy for enhanced fieldâ€effect biosensing. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 884-890.	0.8	30
151	Headgroup specificity for the interaction of the antimicrobial peptide tritrpticin with phospholipid Langmuir monolayers. Colloids and Surfaces B: Biointerfaces, 2012, 100, 95-102.	2.5	30
152	Chiral Plasmonics and Their Potential for Point-of-Care Biosensing Applications. Sensors, 2020, 20, 944.	2.1	30
153	Interaction of levofloxacin with lung surfactant at the air-water interface. Colloids and Surfaces B: Biointerfaces, 2017, 158, 689-696.	2.5	29
154	Layer-by-layer films of chitosan, poly(vinyl sulfonic acid), and platinum for methanol electrooxidation and oxygen electroreduction. Journal of Power Sources, 2006, 158, 160-163.	4.0	28
155	Mixing Alternating Copolymers Containing Fluorenyl Groups with Phospholipids to Obtain Langmuir and Langmuirâ˜Blodgett Films. Langmuir, 2010, 26, 5869-5875.	1.6	28
156	A simple architecture with self-assembled monolayers to build immunosensors for detecting the pancreatic cancer biomarker CA19-9. Analyst, The, 2018, 143, 3302-3308.	1.7	28
157	Monitoring the Surface Chemistry of Functionalized Nanomaterials with a Microfluidic Electronic Tongue. ACS Sensors, 2018, 3, 716-726.	4.0	28
158	On the role of words in the network structure of texts: Application to authorship attribution. Physica A: Statistical Mechanics and Its Applications, 2018, 495, 49-58.	1.2	28
159	Genosensor made with a self-assembled monolayer matrix to detect MGMT gene methylation in head and neck cancer cell lines. Talanta, 2020, 210, 120609.	2.9	28
160	NanocompÃ³sitos eletroativos de poli-o-metoxianilina e polissacarÃdeos naturais. Quimica Nova, 2007, 30, 1158-1162.	0.3	27
161	Designing an enzyme-based nanobiosensor using molecular modeling techniques. Physical Chemistry Chemical Physics, 2011, 13, 8894.	1.3	27
162	Information Visualization to Enhance Sensitivity and Selectivity in Biosensing. Biointerphases, 2012, 7, 53.	0.6	27

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163	Silk fibroin organization induced by chitosan in layer-by-layer films: Application as a matrix in a biosensor. Carbohydrate Polymers, 2017, 155, 146-151.	5.1	27
164	Understanding the interactions of imidazolium-based ionic liquids with cell membrane models. Physical Chemistry Chemical Physics, 2018, 20, 29764-29777.	1.3	27
165	Îµ-Near-Zero Materials for Highly Miniaturizable Magnetoplasmonic Sensing Devices. Journal of Physical Chemistry C, 2019, 123, 3790-3794.	1.5	27
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