

# Waldemar Alejandro MarmisollÃ©

## List of Publications by Year in descending order

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63  
papers

2,053  
citations

218592

26  
h-index

265120

42  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Design of Solid-State Nanopores: Fundamental Concepts and Applications. <i>Advanced Materials</i> , 2019, 31, e1901483.	11.1	130
2	Practical use of polymer brushes in sustainable energy applications: interfacial nanoarchitectonics for high-efficiency devices. <i>Chemical Society Reviews</i> , 2019, 48, 814-849.	18.7	122
3	Acetylcholine biosensor based on the electrochemical functionalization of graphene field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2020, 148, 111796.	5.3	99
4	Nanofluidic Diodes with Dynamic Rectification Properties Stemming from Reversible Electrochemical Conversions in Conducting Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 15382-15385.	6.6	94
5	Shape matters: Enhanced osmotic energy harvesting in bullet-shaped nanochannels. <i>Nano Energy</i> , 2020, 71, 104612.	8.2	80
6	Recent developments in the layer-by-layer assembly of polyaniline and carbon nanomaterials for energy storage and sensing applications. From synthetic aspects to structural and functional characterization. <i>Nanoscale</i> , 2016, 8, 9890-9918.	2.8	74
7	An All-Plastic Field-Effect Nanofluidic Diode Gated by a Conducting Polymer Layer. <i>Advanced Materials</i> , 2017, 29, 1700972.	11.1	68
8	Nanofluidic osmotic power generators – advanced nanoporous membranes and nanochannels for blue energy harvesting. <i>Chemical Science</i> , 2021, 12, 12874-12910.	3.7	60
9	Phosphate-Responsive Biomimetic Nanofluidic Diodes Regulated by Polyamine-Phosphate Interactions: Insights into Their Functional Behavior from Theory and Experiment. <i>Small</i> , 2018, 14, e1702131.	5.2	57
10	Self-Assembled Monolayers of NH <sub>2</sub> -Terminated Thiolates: Order, p <i>K<sub>a</sub></i> , and Specific Adsorption. <i>Langmuir</i> , 2013, 29, 5351-5359.	1.6	54
11	Specific methionine oxidation of cytochrome c in complexes with zwitterionic lipids by hydrogen peroxide: potential implications for apoptosis. <i>Chemical Science</i> , 2015, 6, 705-713.	3.7	52
12	Redox-Driven Reversible Gating of Solid-State Nanochannels. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30001-30009.	4.0	49
13	Biomimetic solid-state nanochannels for chemical and biological sensing applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 144, 116425.	5.8	47
14	Supramolecular Surface Chemistry: Substrate-Independent, Phosphate-Driven Growth of Polyamine-Based Multifunctional Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 4144-4152.	7.8	45
15	Highly-organized stacked multilayers via layer-by-layer assembly of lipid-like surfactants and polyelectrolytes. Stratified supramolecular structures for (bio)electrochemical nanoarchitectonics. <i>Soft Matter</i> , 2018, 14, 1939-1952.	1.2	41
16	Amine-Phosphate Specific Interactions within Nanochannels: Binding Behavior and Nanoconfinement Effects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28997-29007.	1.5	39
17	Polyaniline for Improved Blue Energy Harvesting: Highly Rectifying Nanofluidic Diodes Operating in Hypersaline Conditions via One-Step Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 28148-28157.	4.0	39
18	Integration of Biorecognition Elements on PEDOT Platforms through Supramolecular Interactions. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700502.	1.9	38

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19	Layer-by-layer integration of conducting polymers and metal organic frameworks onto electrode surfaces: enhancement of the oxygen reduction reaction through electrocatalytic nanoarchitectonics. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 893-900.	1.7	38
20	Layer-by-layer assembly of iron oxide-decorated few-layer graphene/PANI:PSS composite films for high performance supercapacitors operating in neutral aqueous electrolytes. <i>Electrochimica Acta</i> , 2018, 283, 1178-1187.	2.6	36
21	Proton-Gated Rectification Regimes in Nanofluidic Diodes Switched by Chemical Effectors. <i>Small</i> , 2018, 14, e1703144.	5.2	34
22	Metal-Organic Frameworks Help Conducting Polymers Optimize the Efficiency of the Oxygen Reduction Reaction in Neutral Solutions. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600047.	1.9	33
23	Functionalization Strategies of PEDOT and PEDOT:PSS Films for Organic Bioelectronics Applications. <i>Chemosensors</i> , 2021, 9, 212.	1.8	33
24	Dangerous liaisons: anion-induced protonation in phosphate-polyamine interactions and their implications for the charge states of biologically relevant surfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8612-8620.	1.3	31
25	Phosphate mediated adsorption and electron transfer of cytochrome c. A time-resolved SERR spectroelectrochemical study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5386-5394.	1.3	28
26	Layer-by-layer assemblies of highly connected polyelectrolyte capped-Pt nanoparticles for electrocatalysis of hydrogen evolution reaction. <i>Applied Surface Science</i> , 2017, 416, 24-32.	3.1	28
27	Biofunctionalization of Graphene-Based FET Sensors through Heterobifunctional Nanoscaffolds: Technology Validation toward Rapid COVID-19 Diagnostics and Monitoring. <i>Advanced Materials Interfaces</i> , 2022, 9, 2102526.	1.9	26
28	Self-assembled peptide dendrigraft supraparticles with potential application in pH/enzyme-triggered multistage drug release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 190, 110895.	2.5	25
29	PEDOT:Tosylate-Polyamine-Based Organic Electrochemical Transistors for High-Performance Bioelectronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100059.	2.6	25
30	Acid-base equilibrium in conducting polymers. The case of reduced polyaniline. <i>Journal of Electroanalytical Chemistry</i> , 2014, 734, 10-17.	1.9	23
31	Polyamine Colloids Cross-Linked with Phosphate Ions: Towards Understanding the Solution Phase Behavior. <i>ChemPhysChem</i> , 2019, 20, 1044-1053.	1.0	23
32	A formal representation of the anodic voltammetric response of polyaniline. <i>Journal of Electroanalytical Chemistry</i> , 2011, 655, 17-22.	1.9	22
33	Polyanilines with Pendant Amino Groups as Electrochemically Active Copolymers at Neutral pH. <i>ChemElectroChem</i> , 2015, 2, 2011-2019.	1.7	22
34	Electrochemically addressable nanofluidic devices based on PET nanochannels modified with electropolymerized poly- <i>o</i> -aminophenol films. <i>Nanoscale</i> , 2020, 12, 6002-6011.	2.8	22
35	Coupling between proton binding and redox potential in electrochemically active macromolecules. The example of Polyaniline. <i>Journal of Electroanalytical Chemistry</i> , 2013, 707, 43-51.	1.9	21
36	Effect of Gold Nanoparticles on the Structure and Electron-Transfer Characteristics of Glucose Oxidase Redox Polyelectrolyte-Surfactant Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 13366-13374.	1.7	21

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37	Highly sensitive urine glucose detection with graphene field-effect transistors functionalized with electropolymerized nanofilms. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 139-148.	1.9	21
38	Amine-appended polyaniline as a water dispersible electroactive polyelectrolyte and its integration into functional self-assembled multilayers. <i>Electrochimica Acta</i> , 2016, 210, 435-444.	2.6	20
39	Reversible modulation of the redox activity in conducting polymer nanofilms induced by hydrophobic collapse of a surface-grafted polyelectrolyte. <i>Journal of Colloid and Interface Science</i> , 2018, 518, 92-101.	5.0	20
40	Electrochemical nanoarchitectonics through polyaminobenzylamine-dodecyl phosphate complexes: redox activity and mesoscopic organization in self-assembled nanofilms. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7570-7578.	1.3	20
41	Continuous assembly of supramolecular polyamine-phosphate networks on surfaces: preparation and permeability properties of nanofilms. <i>Soft Matter</i> , 2019, 15, 1640-1650.	1.2	20
42	High-sensitivity detection of dopamine by biomimetic nanofluidic diodes derivatized with poly(3-aminobenzylamine). <i>Nanoscale</i> , 2020, 12, 18390-18399.	2.8	20
43	Self-assembled phosphate-polyamine networks as biocompatible supramolecular platforms to modulate cell adhesion. <i>Biomaterials Science</i> , 2018, 6, 2230-2247.	2.6	19
44	Layer-by-Layer Formation of Polyamine-Salt Aggregate/Polyelectrolyte Multilayers. Loading and Controlled Release of Probe Molecules from Self-Assembled Supramolecular Networks. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900094.	1.1	19
45	Insulin Delivery from Glucose-Responsive, Self-Assembled, Polyamine Nanoparticles: Smart Sense and Treat Nanocarriers Made Easy. <i>Chemistry - A European Journal</i> , 2020, 26, 2456-2463.	1.7	18
46	Flexible conducting platforms based on PEDOT and graphite nanosheets for electrochemical biosensing applications. <i>Applied Surface Science</i> , 2020, 525, 146440.	3.1	18
47	Modulation of Hydrophilic/Hydrophobic Character of Porous Environments in Metal-Organic Frameworks via Direct Polymer Capping Probed by NMR Diffusion Measurements. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21076-21082.	1.5	17
48	Electrochemical Aging of Poly(aniline) and Its Ring Substituted Derivatives. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10800-10805.	1.2	16
49	About the capacitive currents in conducting polymers: the case of polyaniline. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1947-1965.	1.2	15
50	PEDOT-polyamine composite films for bioelectrochemical platforms - flexible and easy to derivatize. <i>Materials Science and Engineering C</i> , 2020, 109, 110575.	3.8	15
51	Surface Engineering of Graphene through Heterobifunctional Supramolecular-Covalent Scaffolds for Rapid COVID-19 Biomarker Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43696-43707.	4.0	13
52	Electrochemically induced ageing of polyaniline. An electrochemical impedance spectroscopy study. <i>Journal of Electroanalytical Chemistry</i> , 2012, 673, 65-71.	1.9	12
53	The coupling among electron transfer, deformation, screening and binding in electrochemically active macromolecules. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7536.	1.3	11
54	Multitasking polyamine/ferrioxalate nano-sized assemblies: thermo-, photo-, and redox-responsive soft materials made easy. <i>Chemical Communications</i> , 2019, 55, 14653-14656.	2.2	11

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55	Borate-driven ionic rectifiers based on sugar-bearing single nanochannels. <i>Nanoscale</i> , 2021, 13, 11232-11241.	2.8	11
56	PEDOT-Based Stackable Paper Electrodes for Metal-Free Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 9283-9293.	2.5	11
57	Electrochemically induced ageing of polyaniline monitored by the changes in its voltammetric response. <i>Journal of Electroanalytical Chemistry</i> , 2011, 660, 26-30.	1.9	9
58	Powering Up the Oxygen Reduction Reaction through the Integration of O <sub>2</sub> -Adsorbing Metal-Organic Frameworks on Nanocomposite Electrodes. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	9
59	Redox-active polyamine-salt aggregates as multistimuli-responsive soft nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7440-7450.	1.3	9
60	Nanoarchitectonics of metal organic frameworks and PEDOT layer-by-layer electrodes for boosting oxygen reduction reaction. <i>Materials Advances</i> , 2021, 2, 7731-7740.	2.6	8
61	Effect of the potential on the electrochemically induced ageing of polyaniline films. <i>Journal of Electroanalytical Chemistry</i> , 2012, 669, 42-49.	1.9	5
62	An experimental study of the intrinsic fluorescence emission and Electrochemically Induced Ageing in poly-o-methylaniline films. <i>Electrochimica Acta</i> , 2013, 109, 894-900.	2.6	2
63	Nanoarchitectonics of conjugated polymers in supercapacitor applications. , 2022, , 175-218.		1