Ismael DÃ-ez-PÃ©rez

List of Publications by Year
in descending order

88 papers	6,009 citations	61945 43 h-index	71651 76 g-index
90 all docs	90 docs citations	90 times ranked	6249 citing authors

#	Article	IF	Citations
1	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	7.3	74
2	The NJ Tao We Knew. ACS Sensors, 2021, 6, 285-289.	4.0	0
3	Tuning Single-Molecule Conductance by Controlled Electric Field-Induced trans-to-cis Isomerisation. Applied Sciences (Switzerland), 2021, 11, 3317.	1.3	11
4	Charge transport at the proteinâ€“electrode interface in the emerging field of BioMolecular Electronics. Current Opinion in Electrochemistry, 2021, 28, 100734.	2.5	29
5	Can Electron Transport through a Blue-Copper Azurin Be Coherent? An Ab Initio Study. Journal of Physical Chemistry C, 2021, 125, 1693-1702.	1.5	25
6	Roomâ€Temperature Spinâ€Dependent Transport in Metalloporphyrinâ€Based Supramolecular Wires. Angewandte Chemie, 2021, 133, 26162-26169.	1.6	5
7	Roomâ€Temperature Spinâ€Dependent Transport in Metalloporphyrinâ€Based Supramolecular Wires. Angewandte Chemie - International Edition, 2021, 60, 25958-25965.	7.2	9
8	An Ideal Spin Filter: Long-Range, High-Spin Selectivity in Chiral Helicoidal 3-Dimensional Metal Organic Frameworks. Nano Letters, 2020, 20, 8476-8482.	4.5	47
9	Tuning Singleâ€Molecule Conductance in Metalloporphyrinâ€Based Wires via Supramolecular Interactions. Angewandte Chemie, 2020, 132, 19355-19363.	1.6	5
10	Tuning Singleâ€Molecule Conductance in Metalloporphyrinâ€Based Wires via Supramolecular Interactions. Angewandte Chemie - International Edition, 2020, 59, 19193-19201.	7.2	19
11	Electrochemically Gated Longâ€Distance Charge Transport in Photosystemâ€…I. Angewandte Chemie, 2019, 131, 13414-13418.	1.6	0
12	Electrochemically Gated Longâ€Distance Charge Transport in Photosystemâ€…I. Angewandte Chemie - International Edition, 2019, 58, 13280-13284.	7.2	8
13	Tuning Structure and Dynamics of Blue Copper Azurin Junctions via Single Amino-Acid Mutations. Biomolecules, 2019, 9, 611.	1.8	16
14	Metalâ€“Single-Moleculeâ€“Semiconductor Junctions Formed by a Radical Reaction Bridging Gold and Silicon Electrodes. Journal of the American Chemical Society, 2019, 141, 14788-14797.	6.6	62
15	Chemically and Mechanically Controlled Single-Molecule Switches Using Spiropyrans. ACS Applied Materials & Interfaces, 2019, 11, 36886-36894.	4.0	69
16	Mechanical Deformation and Electronic Structure of a Blue Copper Azurin in a Solid-State Junction. Biomolecules, 2019, 9, 506.	1.8	16
17	Control over Near-Ballistic Electron Transport through Formation of Parallel Pathways in a Single-Molecule Wire. Journal of the American Chemical Society, 2019, 141, 240-250.	6.6	39
18	Role of Ring <i>Ortho</i> Substituents on the Configuration of Carotenoid Polyene Chains. Organic Letters, 2018, 20, 493-496.	2.4	5

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19	<i>Ab initio</i> electronic structure calculations of entire blue copper azurins. Physical Chemistry Chemical Physics, 2018, 20, 30392-30402.	1.3	19
20	Harnessing electrostatic catalysis in single molecule, electrochemical and chemical systems: a rapidly growing experimental tool box. Chemical Society Reviews, 2018, 47, 5146-5164.	18.7	207
21	Mechanical Tuning of Throughâ€Molecule Conductance in a Conjugated Calix[4]pyrrole. ChemistrySelect, 2018, 3, 6473-6478.	0.7	18
22	Metal-Controlled Magnetoresistance at Room Temperature in Single-Molecule Devices. Journal of the American Chemical Society, 2017, 139, 5768-5778.	6.6	41
23	Single-molecule electrical contacts on silicon electrodes under ambient conditions. Nature Communications, 2017, 8, 15056.	5.8	93
24	High conductance values in Ï€-folded molecular junctions. Nature Communications, 2017, 8, 15195.	5.8	54
25	Bioengineering a Single-Protein Junction. Journal of the American Chemical Society, 2017, 139, 15337-15346.	6.6	84
26	Differential Electrochemical Conductance Imaging at the Nanoscale. Small, 2017, 13, 1700958.	5.2	14
27	Measuring the Spinâ€Polarization Power of a Single Chiral Molecule. Small, 2017, 13, 1602519.	5.2	143
28	Electrostatic catalysis of a Dielsâ€“Alder reaction. Nature, 2016, 531, 88-91.	13.7	596
29	Tuning the electrical conductance of metalloporphyrin supramolecular wires. Scientific Reports, 2016, 6, 37352.	1.6	27
30	Large Conductance Switching in a Single-Molecule Device through Room Temperature Spin-Dependent Transport. Nano Letters, 2016, 16, 218-226.	4.5	148
31	Building Nanoscale Molecular Wires Exploiting Electrocatalytic Interactions. Electrochimica Acta, 2015, 179, 611-617.	2.6	19
32	Fineâ€Tuning of Singleâ€Molecule Conductance by Tweaking Both Electronic Structure and Conformation of Side Substituents. Chemistry - A European Journal, 2015, 21, 7716-7720.	1.7	33
33	The spontaneous formation of single-molecule junctions via terminal alkynes. Nanotechnology, 2015, 26, 381001.	1.3	35
34	Multi-Responsive Photo- and Chemo-Electrical Single-Molecule Switches. Nano Letters, 2014, 14, 7064-7070.	4.5	134
35	Controlled Thermal Annealing Tunes the Photoelectrochemical Properties of Nanochanneled Tinâ€Oxide Structures. ChemElectroChem, 2014, 1, 1133-1137.	1.7	30
36	Conductance Switching in Single Wired Redox Proteins. Small, 2014, 10, 2537-2541.	5.2	44

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37	Growth of ordered anodic SnO₂nanochannel layers and their use for H₂gas sensing. Journal of Materials Chemistry A, 2014, 2, 915-920.	5.2	60
38	Highly Conductive Single-Molecule Wires with Controlled Orientation by Coordination of Metalloporphyrins. Nano Letters, 2014, 14, 4751-4756.	4.5	48
39	Nanoscale charge transfer in redox proteins and DNA: Towards biomolecular electronics. Electrochimica Acta, 2014, 140, 83-95.	2.6	29
40	Tin passivation in alkaline media: Formation of SnO microcrystals as hydroxyl etching product. Electrochimica Acta, 2013, 111, 837-845.	2.6	45
41	Controlling Formation of Single-Molecule Junctions by Electrochemical Reduction of Diazonium Terminal Groups. Journal of the American Chemical Society, 2013, 135, 3319-3322.	6.6	71
42	Electrochemically-gated single-molecule electrical devices. Electrochimica Acta, 2013, 110, 741-753.	2.6	53
43	Transistor-like Behavior of Single Metalloprotein Junctions. Nano Letters, 2012, 12, 2679-2684.	4.5	90
44	Single Molecular Switches: Electrochemical Gating of a Single Anthraquinone-Based Norbornylogous Bridge Molecule. Journal of Physical Chemistry C, 2012, 116, 21093-21097.	1.5	66
45	Ambipolar Transport in an Electrochemically Gated Single-Molecule Field-Effect Transistor. ACS Nano, 2012, 6, 7044-7052.	7.3	67
46	Catalytic Turnover of [FeFe]-Hydrogenase Based on Single-Molecule Imaging. Journal of the American Chemical Society, 2012, 134, 1577-1582.	6.6	172
47	Imaging the electrocatalytic activity of single nanoparticles. Nature Nanotechnology, 2012, 7, 668-672.	15.6	273
48	Currentâ€“Voltage Characteristics and Transition Voltage Spectroscopy of Individual Redox Proteins. Journal of the American Chemical Society, 2012, 134, 20218-20221.	6.6	53
49	Observation of Electrochemically Controlled Quantum Interference in a Single Anthraquinoneâ€Based Norbornylogous Bridge Molecule. Angewandte Chemie - International Edition, 2012, 51, 3203-3206.	7.2	150
50	Measurement and Statistical Analysis of Single-Molecule Currentâ€“Voltage Characteristics, Transition Voltage Spectroscopy, and Tunneling Barrier Height. Journal of the American Chemical Society, 2011, 133, 19189-19197.	6.6	181
51	Inelastic Transport and Low-Bias Rectification in a Single-Molecule Diode. ACS Nano, 2011, 5, 8331-8339.	7.3	78
52	Direct Measurement of Electron Transfer Distance Decay Constants of Single Redox Proteins by Electrochemical Tunneling Spectroscopy. ACS Nano, 2011, 5, 2060-2066.	7.3	48
53	Controlling single-molecule conductance through lateral coupling of Ï€ orbitals. Nature Nanotechnology, 2011, 6, 226-231.	15.6	138
54	Interaction of lipidated GBV-C/HGV NS3 (513â€“522) and (505â€“514) peptides with phospholipids monolayer. An AFM study. Colloids and Surfaces B: Biointerfaces, 2010, 75, 25-33.	2.5	1

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55	Gate-controlled electron transport in coronenes as a bottom-up approach towards graphene transistors. Nature Communications, 2010, 1, 31.	5.8	104
56	Transition from Tunneling to Hopping in Single Molecular Junctions by Measuring Length and Temperature Dependence. Journal of the American Chemical Society, 2010, 132, 11658-11664.	6.6	195
57	Time-Lapse Atomic Force Microscopy Observations of the Morphology, Growth Rate, and Spontaneous Alignment of Nanofibers Containing a Peptide-Amphiphile from the Hepatitis G Virus (NS3 Protein). Journal of Physical Chemistry B, 2010, 114, 620-625.	1.2	5
58	Folding and self-assembling with Î²-oligomers based on (1R,2S)-2-aminocyclobutane-1-carboxylic acid. Organic and Biomolecular Chemistry, 2010, 8, 564-575.	1.5	59
59	Rectification and stability of a single molecular diode with controlled orientation. Nature Chemistry, 2009, 1, 635-641.	6.6	517
60	An Intramolecular Oâˆ’N Migration Reaction on Gold Surfaces: Toward the Preparation of Well-Defined Amyloid Surfaces. ACS Nano, 2009, 3, 3091-3097.	7.3	11
61	Direct Observation of the Valence Band Edge by in Situ ECSTM-ECTS in p-Type Cu₂O Layers Prepared by Copper Anodization. Journal of Physical Chemistry C, 2009, 113, 1028-1036.	1.5	99
62	Electron Transport in Single Molecules Measured by a Distance-Modulation Assisted Break Junction Method. Nano Letters, 2008, 8, 1960-1964.	4.5	61
63	Self-Assembly of a Cyclobutane Î²-Tetrapeptide To Form Nanosized Structures. Organic Letters, 2007, 9, 3643-3645.	2.4	81
64	Diving in Solid/Liquid Nanointerfaces. Imaging & Microscopy, 2007, 9, 61-62.	0.1	0
65	Formation of an epitaxial monolayer on graphite upon short-time surface contact with highly diluted aqueous solutions of 1-monostearoylglycerol. Thin Solid Films, 2007, 515, 5391-5394.	0.8	3
66	2-D Self-assembly of the bis(phthalocyaninato)terbium(iii) single-molecule magnet studied by scanning tunnelling microscopy. Chemical Communications, 2006, , 2866-2868.	2.2	86
67	Conductance Maps by Electrochemical Tunneling Spectroscopy To Fingerprint the Electrode Electronic Structure. Analytical Chemistry, 2006, 78, 7325-7329.	3.2	23
68	In situ studies of metal passive films. Current Opinion in Solid State and Materials Science, 2006, 10, 144-152.	5.6	42
69	The iron passive film breakdown in chloride media may be mediated by transient chloride-induced surface states located within the band gap. Electrochemistry Communications, 2006, 8, 627-632.	2.3	30
70	Electronic barriers in the iron oxide film govern its passivity and redox behavior: Effect of electrode potential and solution pH. Electrochemistry Communications, 2006, 8, 1595-1602.	2.3	37
71	Folding and Hydrodynamic Forces in J-Aggregates of 5-Phenyl-10,15,20-tris(4-sulfophenyl)porphyrin. Angewandte Chemie - International Edition, 2006, 45, 8032-8035.	7.2	157
72	Measuring energies with an Atomic Force Microscope. Europhysics Letters, 2006, 74, 110-116.	0.7	4

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73	Surface thermodynamic properties of monolayers versus reconstitution of a membrane protein in solid-supported bilayers. Colloids and Surfaces B: Biointerfaces, 2005, 44, 93-98.	2.5	7
74	Fine structure study of AÎ² 1â€“42 fibrillogenesis with atomic force microscopy. FASEB Journal, 2005, 19, 1344-1346.	0.2	141
75	Dielectric properties of self-assembled layers of octadecylamine on mica in dry and humid environments. Journal of Chemical Physics, 2005, 123, 104706.	1.2	12
76	Oxidative dissolution of chalcopyrite by Acidithiobacillus ferrooxidans analyzed by electrochemical impedance spectroscopy and atomic force microscopy. Bioelectrochemistry, 2004, 64, 79-84.	2.4	50
77	Preparation of Reliable Probes for Electrochemical Tunneling Spectroscopy. Analytical Chemistry, 2004, 76, 5218-5222.	3.2	41
78	Electrochemically Grown Tin Oxide Thin Films:â€‰ In Situ Characterization of Electronic Properties and Growth Mechanism. Journal of Physical Chemistry B, 2004, 108, 8173-8181.	1.2	15
79	Interaction of Water with Self-Assembled Monolayers of Alkylsilanes on Mica. Langmuir, 2004, 20, 1284-1290.	1.6	37
80	Formation of Studtite during the Oxidative Dissolution of UO2by Hydrogen Peroxide:Â A SFM Study. Environmental Science & Technology, 2004, 38, 6656-6661.	4.6	71
81	Molecular Packing Changes of Octadecylamine Monolayers on Mica Induced by Pressure and Humidity. Langmuir, 2003, 19, 762-765.	1.6	30
82	Self-Assembly of Drugâ€“Polymer Complexes: A Spontaneous Nanoencapsulation Process Monitored by Atomic Force Microscopy**This work was presented in part at the 13th International Symposium on Microencapsulation, September 5â€“7, 2001, Angers, France.. Journal of Pharmaceutical Sciences, 2003, 92, 77-83.	1.6	13
83	Chiral shape and enantioselective growth of colloidal particles of self-assembled meso-tetra(phenyl) Tj ETQq1 1 0.784314 rgBT /Overlo	2.2	59
84	Control of neurotransmitter release by an internal gel matrix in synaptic vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3485-3490.	3.3	88
85	Electrochemistry of Tin in Borate Buffer Solutions: An in-situ Raman study.. Materials Research Society Symposia Proceedings, 2003, 781, 131.	0.1	1
86	Characterization of bornite (Cu5FeS4) electrodes in the presence of the bacterium Acidithiobacillus ferrooxidans. Journal of the Brazilian Chemical Society, 2003, 14, 637-644.	0.6	22
87	An electrochemical study of tin oxide thin film in borate buffer solutions. Journal of the Brazilian Chemical Society, 2003, 14, 523-529.	0.6	17
88	Sequential atomic force microscopy imaging of a spontaneous nanoencapsulation process. International Journal of Pharmaceutics, 2002, 242, 291-294.	2.6	6