

# Santiago MartÃ-n

## List of Publications by Year in descending order

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115  
papers

3,740  
citations

136740

32  
h-index

161609

54  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-range electron tunnelling in oligo-porphyrin molecular wires. <i>Nature Nanotechnology</i> , 2011, 6, 517-523.	15.6	312
2	Oligoyne Single Molecule Wires. <i>Journal of the American Chemical Society</i> , 2009, 131, 15647-15654.	6.6	206
3	The experimental determination of the conductance of single molecules. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2801.	1.3	153
4	Impact of Junction Formation Method and Surface Roughness on Single Molecule Conductance. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5823-5833.	1.5	139
5	Identifying Diversity in Nanoscale Electrical Break Junctions. <i>Journal of the American Chemical Society</i> , 2010, 132, 9157-9164.	6.6	124
6	Highly-conducting molecular circuits based on antiaromaticity. <i>Nature Communications</i> , 2017, 8, 15984.	5.8	111
7	Comparison of the Conductance of Three Types of Porphyrin-Based Molecular Wires: <i>meso</i> -Fused Tapes, <i>meso</i> -Butadiyne-Linked and Twisted <i>meso</i> - <i>meso</i> -Linked Oligomers. <i>Advanced Materials</i> , 2012, 24, 653-657.		101
8	Electrochemical Single-Molecule Transistors with Optimized Gate Coupling. <i>Journal of the American Chemical Society</i> , 2015, 137, 14319-14328.	6.6	94
9	Site-Selection in Single-Molecule Junction for Highly Reproducible Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2016, 138, 1294-1300.	6.6	88
10	Simplifying the conductance profiles of molecular junctions: the use of the trimethylsilylethynyl moiety as a molecule-gold contact. <i>Dalton Transactions</i> , 2013, 42, 338-341.	1.6	83
11	The Impact of <i>E</i> - <i>Z</i> Photo-Isomerization on Single Molecular Conductance. <i>Nano Letters</i> , 2010, 10, 2019-2023.	4.5	76
12	Study of Weak Molecular Interactions through Thermodynamic Mixing Properties. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17683-17690.	1.2	70
13	Solvent Dependence of the Single Molecule Conductance of Oligoyne-Based Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15666-15674.	1.5	67
14	Combined Spectroscopic and Quantum Chemical Study of $[\text{trans-Ru}(\text{C}(\text{C})\text{C})_6\text{H}_4\text{R}^1\text{R}^2(\text{dppe})_2] and [\text{trans-Ru}(\text{C}(\text{C})\text{C})_6\text{H}_4\text{R}^1\text{R}^2(\text{C}(\text{C})\text{C})_6\text{H}_4\text{R}^2\text{R}^3)] (n = 0, 1) Complexes: Interpretations beyond the Lowest Energy Conformer Paradigm. Organometallics, 2014, 33, 4947-4963.$	1.1	66
15	Electrochemical Scanning Tunneling Spectroscopy of Redox-Active Molecules Bound by Au-C Bonds. <i>Journal of the American Chemical Society</i> , 2010, 132, 2494-2495.	6.6	59
16	A Comprehensive Study of the Single Molecule Conductance of $\omega$ -Dicarboxylic Acid-Terminated Alkanes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3941-3948.	1.5	53
17	Density and Speed of Sound for Binary Mixtures of a Cyclic Ether with a Butanol Isomer. <i>Journal of Solution Chemistry</i> , 2002, 31, 905-915.	0.6	51
18	Single-Molecule Conductance Studies of Organometallic Complexes Bearing $\pi$ -Thienyl Contacting Groups. <i>Chemistry - A European Journal</i> , 2017, 23, 2133-2143.	1.7	50

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19	Variable contact gap single-molecule conductance determination for a series of conjugated molecular bridges. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 374119.	0.7	49
20	Anomalous length and voltage dependence of single molecule conductance. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10831.	1.3	43
21	Thermophysical Properties of Three Compounds from the Acrylate Family. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 1193-1202.	1.0	43
22	Use of UV-vis Reflection Spectroscopy for Determining the Organization of Viologen and Viologen Tetracyanoquinodimethanide Monolayers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 963-970.	1.2	40
23	Adverse effects of asymmetric contacts on single molecule conductances of HS(CH <sub>2</sub> ) <sub>n</sub> COOH in nanoelectrical junctions. <i>Nanotechnology</i> , 2009, 20, 125203.	1.3	37
24	Thermophysical Study of 1-Butyl-2-Methylpyridinium Tetrafluoroborate Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11936-11942.	1.2	37
25	Towards molecular electronic devices based on all-carbon wires. <i>Nanoscale</i> , 2018, 10, 14128-14138.	2.8	37
26	Viscosities of Binary Mixtures of Isomeric Butanols or Isomeric Chlorobutanes with 2-Methyltetrahydrofuran. <i>Journal of Chemical &amp; Engineering Data</i> , 2003, 48, 1296-1300.	1.0	36
27	Study of the Temperature Dependence of Surface Tensions of Some Alkanol + Hexane Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , 2007, 52, 1904-1907.	1.0	36
28	Preparation of nascent molecular electronic devices from gold nanoparticles and terminal alkyne functionalised monolayer films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7348-7355.	2.7	36
29	Ultrathin Composite Polymeric Membranes for CO <sub>2</sub> /N <sub>2</sub> Separation with Minimum Thickness and High CO <sub>2</sub> Permeance. <i>ChemSusChem</i> , 2017, 10, 4014-4017.	3.6	36
30	Metal-Molecule-Metal Junctions in Langmuir-Blodgett Films Using a New Linker: Trimethylsilane. <i>Chemistry - A European Journal</i> , 2010, 16, 13398-13405.	1.7	33
31	Unconventional Single-Molecule Conductance Behavior for a New Heterocyclic Anchoring Group: Pyrazolyl. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5364-5372.	2.1	33
32	Molecular Electronics: History and Fundamentals. <i>Australian Journal of Chemistry</i> , 2016, 69, 244.	0.5	32
33	Analysis of Molecular Interactions between Components in Phospholipid-Immunosuppressant-Antioxidant Mixed Langmuir Films. <i>Langmuir</i> , 2021, 37, 5601-5616.	1.6	32
34	Excess molar enthalpies of 1,3-dioxolane, or 1,4-dioxane with isomeric butanols. <i>Journal of Chemical Thermodynamics</i> , 2002, 34, 1351-1360.	1.0	30
35	Single Gold Atom Containing Oligo(phenylene)ethynylene: Assembly into LB Films and Electrical Characterization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 784-793.	1.5	30
36	Volumetric, Acoustic, and Refractive Properties of Isomeric Chlorobutanes with Diisopropyl Ether. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 5953-5959.	1.0	29

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37	Directionally Oriented LB Films of an OPE Derivative: Assembly, Characterization, and Electrical Properties. <i>Langmuir</i> , 2011, 27, 3600-3610.	1.6	29
38	Volumetric characterization of pyridinium-based ionic liquids. <i>Fluid Phase Equilibria</i> , 2012, 317, 102-109.	1.4	29
39	Densities and speeds of sound in the ternary mixture (2-butanol + n-hexane + 1-chlorobutane) at 298.15 and 313.15 K. <i>Thermochimica Acta</i> , 2002, 381, 181-193.	1.2	28
40	Design and Synthesis of Aviram-Ratner Type Dyads and Rectification Studies in Langmuir-Blodgett (LB) Films. <i>Chemistry - A European Journal</i> , 2016, 22, 10539-10547.	1.7	26
41	Effect of the Molecule-Metal Interface on the Surface-Enhanced Raman Scattering of 1,4-Benzenedithiol. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1038-1042.	1.5	26
42	Hybrid Langmuir and Langmuir-Blodgett films of a viologen derivative and TCNQ in a mixed valence state: preparation route and characterization. <i>Surface Science</i> , 2004, 563, 27-40.	0.8	25
43	Densities and speeds of sound for binary mixtures of (1,3-dioxolane or 1,4-dioxane) with (2-methyl-1-propanol or 2-methyl-2-propanol) at the temperatures (298.15 and 313.15) K. <i>Journal of Chemical Thermodynamics</i> , 2004, 36, 1027-1036.	1.0	25
44	Fabrication, Characterization, and Electrical Properties of Langmuir-Blodgett Films of an Acid Terminated Phenylene-Ethynylene Oligomer. <i>Chemistry of Materials</i> , 2010, 22, 2041-2049.	3.2	25
45	Title is missing!. <i>International Journal of Thermophysics</i> , 2002, 23, 1455-1468.	1.0	24
46	Isothermal vapour-liquid equilibrium for cyclic ethers with 1-chloropentane. <i>Fluid Phase Equilibria</i> , 2007, 251, 8-16.	1.4	23
47	Surface study of binary mixtures containing chlorinated and oxygenated compounds. <i>Journal of Molecular Liquids</i> , 2013, 181, 1-7.	2.3	23
48	Thermophysical Properties of the Binary Mixture 1-Propylpyridinium Tetrafluoroborate with Methanol. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 1564-1573.	1.0	23
49	Ligand effects in the stabilization of gold nanoparticles anchored on the surface of graphene: Implications in catalysis. <i>Journal of Catalysis</i> , 2021, 394, 113-120.	3.1	23
50	Influence of Conformational Flexibility on Single-Molecule Conductance in Nano-Electrical Junctions. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18884-18890.	1.5	22
51	Looking Ahead: Challenges and Opportunities in Organometallic Chemistry. <i>Organometallics</i> , 2011, 30, 7-12.	1.1	22
52	Acetylene Used as a New Linker for Molecular Junctions in Phenylene-Ethynylene Oligomer Langmuir-Blodgett Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9142-9150.	1.5	22
53	Stabilization of Nanoparticles Produced by Hydrogenation of Palladium-N-Heterocyclic Carbene Complexes on the Surface of Graphene and Implications in Catalysis. <i>ACS Omega</i> , 2018, 3, 15217-15228.	1.6	22
54	Kinematic Viscosities for Ether + Alkane Mixtures: Experimental Results and UNIFAC-VISCO Parameters. <i>International Journal of Thermophysics</i> , 2008, 29, 457-467.	1.0	21

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55	From an Organometallic Monolayer to an Organic Monolayer Covered by Metal Nanoislands: A Simple Thermal Protocol for the Fabrication of the Top Contact Electrode in Molecular Electronic Devices. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400128.	1.9	21
56	Nanofabrication Techniques in Large-Area Molecular Electronic Devices. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6064.	1.3	21
57	Onâ€POM Ringâ€Opening Polymerisation of $\text{N}^{\text{C}}$ -Carboxyanhydrides. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3449-3453.	7.2	21
58	Single molecule vs. large area design of molecular electronic devices incorporating an efficient 2-aminepyridine double anchoring group. <i>Nanoscale</i> , 2019, 11, 15871-15880.	2.8	20
59	The fabrication of ultrathin films and their gas separation performance from polymers of intrinsic microporosity with two-dimensional (2D) and three-dimensional (3D) chain conformations. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 474-482.	5.0	20
60	The use of scanning polarization force microscopy to study the miscibility of a molecular wire candidate and an insulating fatty acid in mixed LB films. <i>Soft Matter</i> , 2008, 4, 1508.	1.2	19
61	New routes to organometallic molecular junctions via a simple thermal processing protocol. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6630-6640.	2.7	19
62	Palladium doping of $\text{In}_2\text{O}_3$ towards a general and selective catalytic hydrogenation of amides to amines and alcohols. <i>Catalysis Science and Technology</i> , 2019, 9, 6965-6976.	2.1	19
63	Bottom Effect in Atomic Force Microscopy Nanomechanics. <i>Small</i> , 2020, 16, e2000269.	5.2	19
64	Title is missing!. <i>International Journal of Thermophysics</i> , 2001, 22, 1629-1642.	1.0	18
65	Excess properties of the ternary system (hexane + 1,3-dioxolane + 1-butanol) at 298.15 and 313.15 K. <i>Fluid Phase Equilibria</i> , 2003, 211, 61-73.	1.4	18
66	Experimental values and ERAS model calculations for excess molar volumes and enthalpies of the ternary system 2-butanol + 1,3-dioxolane + cyclohexane. <i>Canadian Journal of Chemistry</i> , 2003, 81, 357-363.	0.6	18
67	Pure and mixed films of a nitrostilbene derivative at the airâ€water interface, Langmuirâ€Blodgett multilayer fabrication, and optical characterization. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 239-248.	5.0	18
68	Low variability of single-molecule conductance assisted by bulky metalâ€molecule contacts. <i>RSC Advances</i> , 2016, 6, 75111-75121.	1.7	18
69	Vapourâ€Liquid equilibrium and volumetric measurements for binary mixtures of 1,3-Dioxolane with Isomeric chlorobutanes. <i>Physics and Chemistry of Liquids</i> , 2004, 42, 173-183.	0.4	17
70	Electrical characterization of single molecule and Langmuirâ€Blodgett monomolecular films of a pyridine-terminated oligo(phenylene-ethynylene) derivative. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 1145-1157.	1.5	17
71	Isobaric vapourâ€liquid equilibrium of binary and ternary mixtures containing cyclohexane, n-hexane, 1,3-dioxolane and 1-butanol at 40.0 and 101.3 kPa. <i>Chemical Engineering Journal</i> , 2002, 88, 1-9.	6.6	16
72	Controlling the Structural and Electrical Properties of Diacid Oligo(Phenylene Ethynylene) Langmuirâ€Blodgett Films. <i>Chemistry - A European Journal</i> , 2013, 19, 5352-5363.	1.7	16

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73	Nanofabrication and Electrochemical Characterization of Self-Assembled Monolayers Sandwiched between Metal Nanoparticles and Electrode Surfaces. <i>Journal of Chemical Education</i> , 2016, 93, 1441-1445.	1.1	16
74	All- <i>Carbon</i> Electrode Molecular Electronic Devices Based on Langmuir-Blodgett Monolayers. <i>Small</i> , 2017, 13, 1603207.	5.2	16
75	The non-innocent role of graphene in the formation/immobilization of ultra-small gold nanoparticles functionalized with N-heterocyclic carbene ligands. <i>Journal of Catalysis</i> , 2019, 375, 419-426.	3.1	16
76	Electrically transmissive alkyne-anchored monolayers on gold. <i>Nanoscale</i> , 2019, 11, 7976-7985.	2.8	16
77	Fabrication of metallic and non-metallic top electrodes for large-area molecular junctions. <i>Nanoscale</i> , 2021, 13, 9055-9074.	2.8	16
78	Nanofabrication techniques of highly organized monolayers sandwiched between two electrodes for molecular electronics. <i>Nanofabrication</i> , 2014, 1, .	1.1	15
79	High surface coverage of a self-assembled monolayer by <i>in situ</i> synthesis of palladium nanodeposits. <i>Nanoscale</i> , 2017, 9, 13281-13290.	2.8	15
80	Reduced Graphene Oxides as Carbocatalysts in Acceptorless Dehydrogenation of <i>N</i> -Heterocycles. <i>ACS Catalysis</i> , 2021, 11, 14688-14693.	5.5	15
81	Thermodynamic study of 2-methyl-tetrahydrofuran with isomeric chlorobutanes. <i>Thermochimica Acta</i> , 2005, 429, 233-239.	1.2	14
82	Experimental and Predicted Vapor-Liquid Equilibrium for Cyclic Ethers with 1-Chloropentane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 6981-6988.	1.8	14
83	Isobaric Vapor-Liquid Equilibrium for the Binary Mixtures (2-Butanol +n-Hexane) and (2-Butanol +) Tj ETQq1 1 0.784314 rgBT /Overlo Chemical & Engineering Data, 2002, 47, 405-410.	1.0	13
84	Surface study of mixtures containing cyclic ethers and isomeric chlorobutanes. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 791-797.	1.0	13
85	Towards the Fabrication of the Top-Contact Electrode in Molecular Junctions by Photoreduction of a Metal Precursor. <i>Chemistry - A European Journal</i> , 2014, 20, 3421-3426.	1.7	13
86	Towards a metallic top contact electrode in molecular electronic devices exhibiting a large surface coverage by photoreduction of silver cations. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9036-9043.	2.7	13
87	Influence of surface coverage on the formation of 4,4'-bipyridinium (viologen) single molecular junctions. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11717-11723.	2.7	13
88	Towards the design of effective multipodal contacts for use in the construction of Langmuir-Blodgett films and molecular junctions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 672-682.	2.7	13
89	Charge transfer complex formation at the air-water interface -studied by means of UV-vis reflection spectroscopy. <i>Surface Science</i> , 2006, 600, 3045-3051.	0.8	12
90	The structure and coordinative self-assembly of films based on a palladium compound of pyridyl-acetylene platinum and its application in Suzuki and Heck coupling reactions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9164.	5.2	12

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91	Improving Catalyst Activity in Hydrocarbon Functionalization by Remote Pyrene-Graphene Stacking. Chemistry - A European Journal, 2019, 25, 9534-9539.	1.7	12
92	pH control of conductance in a pyrazolyl Langmuir-Blodgett monolayer. Journal of Materials Chemistry C, 2021, 9, 2882-2889.	2.7	12
93	The Use of Cyclic Voltammetry To Probe the Passivation of Electrode Surfaces by Well-Ordered Self-Assembly and Langmuir-Blodgett Films. An Advanced Undergraduate Laboratory Experiment in Surface Science and Nanomaterials Chemistry. Journal of Chemical Education, 2009, 86, 723.	1.1	11
94	Effect of Mechanical Strain on Electric Conductance of Molecular Junctions. Journal of Physical Chemistry C, 2015, 119, 19452-19457.	1.5	11
95	Isobaric vapour-liquid equilibrium for the binary mixtures of 2-methyl-2-propanol with some halohydrocarbons at 40.0 and 101.3 kPa. Fluid Phase Equilibria, 2001, 192, 49-61.	1.4	10
96	Molecularly Engineering Defective Basal Planes in Molybdenum Sulfide for the Direct Synthesis of Benzimidazoles by Reductive Coupling of Dinitroarenes with Aldehydes. JACS Au, 2022, 2, 601-612.	3.6	9
97	Vapour-liquid equilibrium and azeotropic behaviour of 1,2-dichloroethane with isomeric butanols. Fluid Phase Equilibria, 2004, 225, 77-83.	1.4	8
98	Experimental and Predicted Viscosities of the Ternary Mixture (Hexane + 1,3-Dioxolane + 2-Butanol) at 298.15 and 313.15 K. Journal of Chemical & Engineering Data, 2005, 50, 722-726.	1.0	8
99	A Platinum Molecular Complex Immobilised on the Surface of Graphene as Active Catalyst in Alkyne Hydrosilylation. European Journal of Inorganic Chemistry, 2020, 2020, 4254-4262.	1.0	8
100	Selective Anchoring Groups for Molecular Electronic Junctions with ITO Electrodes. ACS Sensors, 2021, 6, 530-537.	4.0	8
101	Unraveling a Biomass-Derived Multiphase Catalyst for the Dehydrogenative Coupling of Silanes with Alcohols under Aerobic Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 2912-2928.	3.2	8
102	Electrochemistry of Langmuir-Blodgett Films Incorporating Both a Viologen Derivative and Tetracyanoquinodimethane. Journal of the Electrochemical Society, 2002, 149, E402.	1.3	7
103	Isobaric vapour-liquid equilibrium for the binary systems formed by a cyclic ether and bromocyclohexane at 40.0 and 101.3 kPa. Physics and Chemistry of Liquids, 2006, 44, 275-285.	0.4	7
104	Electrochemical investigation on hybrid viologen tetracyanoquinodimethanide LB films. Journal of Electroanalytical Chemistry, 2005, 578, 203-211.	1.9	6
105	Photochemical behaviour of an acid-terminated azopolymer in solution and in Langmuir-Blodgett films. Current Applied Physics, 2010, 10, 874-879.	1.1	5
106	Interfacial tensions of pyridinium-based ionic liquids and n-alkanes or n-alkanols. Journal of Molecular Liquids, 2018, 252, 469-474.	2.3	5
107	On-Off POM Ring-Opening Polymerisation of N-Carboxyanhydrides. Angewandte Chemie, 2021, 133, 3491-3495.	1.6	5
108	Uncapped Gold Nanoparticles for the Metallization of Organic Monolayers. Advanced Materials Interfaces, 2021, 8, 2100876.	1.9	5

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109	Molecular Wires: An Overview of the Building Blocks of Molecular Electronics. , 2016, , 87-116.		4
110	Experimental and predicted vapour-liquid equilibrium of the binary mixtures n-heptane+chlorobutane isomers. Fluid Phase Equilibria, 2016, 409, 72-77.	1.4	4
111	LB films of TCNQ in a mixed valence state incorporated from the aqueous subphase: preparation and characterisation. Synthetic Metals, 2002, 128, 7-14.	2.1	3
112	Gold nanoparticle-catalysed functionalization of carbon-hydrogen bonds by carbene transfer reactions. Dalton Transactions, 2022, 51, 5250-5256.	1.6	2
113	Molecular Electronic Devices: From an Organometallic Monolayer to an Organic Monolayer Covered by Metal Nanoislands: A Simple Thermal Protocol for the Fabrication of the Top Contact Electrode in Molecular Electronic Devices (Adv. Mater. Interfaces 9/2014). Advanced Materials Interfaces, 2014, 1, .	1.9	1
114	Scanning tunnelling microscopy analysis of octameric o-phenylenes on Au(111). RSC Advances, 2016, 6, 55970-55975.	1.7	1
115	Rücktitelbild: On-POM Ring-Opening Polymerisation of $N$ -Carboxyanhydrides (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT	1.6	0