

# Luis Echevoyen

## List of Publications by Citations

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433  
ext. papers

20,707  
ext. citations

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L-index

#	Paper	IF	Citations
401	Electrochemical detection of C606- and C706-: Enhanced stability of fullerides in solution. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 3978-3980	16.4	804
400	Electrochemistry of Fullerenes and Their Derivatives. <i>Accounts of Chemical Research</i> , <b>1998</b> , 31, 593-601	24.3	665
399	Chemical, electrochemical, and structural properties of endohedral metallofullerenes. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7514-38	16.4	437
398	FullereneOligophenylenevinylene Hybrids: Synthesis, Electronic Properties, and Incorporation in Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7467-7479	16.4	314
397	Electrochemistry of Supramolecular Systems. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 216-247	16.4	262
396	Nanoassembly of a fractal polymer: a molecular "Sierpinski hexagonal gasket". <i>Science</i> , <b>2006</b> , 312, 1782-533	33.3	245
395	Subphthalocyanines: tuneable molecular scaffolds for intramolecular electron and energy transfer processes. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 6301-13	16.4	201
394	Synthesis, photochemistry, and electrochemistry of single-wall carbon nanotubes with pendent pyridyl groups and of their metal complexes with zinc porphyrin. Comparison with pyridyl-bearing fullerenes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6626-35	16.4	189
393	Unexpected chemical and electrochemical properties of M3N@C80 (M = Sc, Y, Er). <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6480-5	16.4	175
392	Fullerenes in Biology and Medicine. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 6523-6535	7.3	172
391	Routes to Dendritic Networks: Bis-Dendrimers by Coupling of Cascade Macromolecules through Metal Centers. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 2023-2026		172
390	Clarification of the hole-size cation-diameter relationship in crown ethers and a new method for determining calcium cation homogeneous equilibrium binding constants. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 6786-6788	16.4	170
389	Trimetallic nitride endohedral metallofullerenes: reactivity dictated by the encapsulated metal cluster. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10448-53	16.4	164
388	Design, synthesis, and photophysical studies of a porphyrin-fullerene dyad with parachute topology; charge recombination in the marcus inverted region. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7257-70	16.4	164
387	Rationalization of the unusual electrochemical behavior observed in lariat ethers and other reducible macrocyclic systems. <i>Analytical Chemistry</i> , <b>1988</b> , 60, 2021-2024	7.8	160
386	Charge-transfer interactions in face-to-face porphyrin-fullerene systems: solvent-dependent luminescence in the infrared spectral region. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 1629-45	4.8	159
385	Electrochemically-reversible, single-electron oxidation of C60 and C70. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 9818-9819	16.4	148

384	Cover Picture: Retro-Cycloaddition Reaction of Pyrrolidinofullerenes (Angew. Chem. Int. Ed. 1/2006). <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1-1	16.4	140
383	A new pyridyl-substituted methanofullerene derivative. Photophysics, electrochemistry and self-assembly with zinc(II) meso-tetraphenylporphyrin (ZnTPP). <i>New Journal of Chemistry</i> , <b>1999</b> , 23, 77-83 <sup>3,6</sup>	16.4	139
382	Stable Langmuir and Langmuir-Blodgett Films of Fullerene-Glycodendron Conjugates. <i>Langmuir</i> , <b>1998</b> , 14, 1955-1959	4	136
381	Convergent synthesis and photophysics of [60]fullerene/porphyrin-based rotaxanes. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3388-9	16.4	131
380	Sc3N@C80-ferrocene electron-donor/acceptor conjugates as promising materials for photovoltaic applications. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4173-6	16.4	129
379	A simple isomeric separation of D5h and Ih Sc3N@C80 by selective chemical oxidation. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 10885-8	16.4	129
378	The first fulleropyrrolidine derivative of Sc3N@C80: pronounced chemical shift differences of the geminal protons on the pyrrolidine ring. <i>Journal of Organic Chemistry</i> , <b>2005</b> , 70, 5092-7	4.2	126
377	Reversible Fullerene Electrochemistry: Correlation with the HOMO-LUMO Energy Difference for C60, C70, C76, C78, and C84. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 7801-7804	16.4	124
376	Interfacial Hydrogen Bonding. Self-Assembly of a Monolayer of a Fullerene-Crown Ether Derivative on Gold Surfaces Derivatized with an Ammonium-Terminated Alkanethiolate. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 6086-6087	16.4	124
375	Sc2S@C(s)(10528)-C72: a dimetallic sulfide endohedral fullerene with a non isolated pentagon rule cage. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 7851-60	16.4	116
374	Is the isolated pentagon rule merely a suggestion for endohedral fullerenes? The structure of a second egg-shaped endohedral fullerene--Gd3N@C(s)(39663)-C82. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7854-5	16.4	116
373	Triply fused Zn(II)-porphyrin oligomers: synthesis, properties, and supramolecular interactions with single-walled carbon nanotubes (SWNTs). <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 6062-70	4.8	115
372	Tuning of Trifunctional NiCu Bimetallic Nanoparticles Confined in a Porous Carbon Network with Surface Composition and Local Structural Distortions for the Electrocatalytic Oxygen Reduction, Oxygen and Hydrogen Evolution Reactions. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 14688-14701	16.4	115
371	The shape of the Sc2(μ-S) unit trapped in C82: crystallographic, computational, and electrochemical studies of the isomers, Sc2(μ-S)@C(s)(6)-C82 and Sc2(μ-S)@C(3v)(8)-C82. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 6752-60	16.4	114
370	Exceptional redox and photophysical properties of a triply fused diporphyrin-C60 conjugate: novel scaffolds for multicharge storage in molecular scale electronics. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 4966-70	16.4	114
369	Large metal ions in a relatively small fullerene cage: the structure of Gd3N@C2(22010)-C78 departs from the isolated pentagon rule. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 11519-24	16.4	112
368	"Open rather than closed" malonate methano-fullerene derivatives. The formation of methanofulleroid adducts of Y3N@C80. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10423-30	16.4	112
367	Azobenzene-linked porphyrin-fullerene dyads. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15973-82	16.4	108

- 366 Reactivity differences between carbon nano onions (CNOs) prepared by different methods. *Chemistry - an Asian Journal*, **2007**, 2, 625-33 4.5 108
- 365 Photoinduced charge-transfer states in subphthalocyanine-ferrocene dyads. *Journal of the American Chemical Society*, **2006**, 128, 10680-1 16.4 107
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- 362 Redox-switched molecular aggregates: the first example of vesicle formation from hydrophobic ferrocene derivatives. *Journal of the American Chemical Society*, **1991**, 113, 365-366 16.4 104
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- 353 Stilbazulenyl nitron (STAZN): a nitronyl-substituted hydrocarbon with the potency of classical phenolic chain-breaking antioxidants. *Journal of the American Chemical Society*, **2002**, 124, 4678-84 16.4 93
- 352 Metal nitride cluster fullerene M<sub>3</sub>N@C<sub>80</sub> (M=Y, Sc) based dyads: synthesis, and electrochemical, theoretical and photophysical studies. *Chemistry - A European Journal*, **2009**, 15, 864-77 4.8 92
- 351 Synthesis, and Optical and Electrochemical Properties of Cyclophane-Type Molecular Dyads Containing a Porphyrin in Close, Tangential Orientation Relative to the Surface of trans-1 Functionalized C<sub>60</sub>. Preliminary Communication. *Helvetica Chimica Acta*, **1998**, 81, 1835-1844 2 92
- 350 Gd<sub>3</sub>N@C<sub>2n</sub> (n = 40, 42, and 44): remarkably low HOMO-LUMO gap and unusual electrochemical reversibility of Gd<sub>3</sub>N@C<sub>88</sub>. *Journal of the American Chemical Society*, **2007**, 129, 14826-9 16.4 92
- 349 Oxidation of aqueous EDTA and associated organics and coprecipitation of inorganics by ambient iron-mediated aeration. *Environmental Science & Technology*, **2007**, 41, 270-6 10.3 92

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- 342 Progress in fullerene-based hybrid perovskite solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 2635-2651 2.651 89
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- 334 Lanthanum nitride endohedral fullerenes  $\text{La}_3\text{N}@\text{C}_{2n}$  (43 . *Chemistry - A European Journal*, **2008**, 14, 8213-8 4.9 79
- 333 Trimetallic nitride endohedral fullerenes: experimental and theoretical evidence for the  $\text{M}_3\text{N}_6+\text{C}_{2n6}$ - model. *Angewandte Chemie - International Edition*, **2009**, 48, 1425-8 16.4 78
- 332 A supramolecular approach for the formation of fullerene-phthalocyanine dyads. *Journal of Materials Chemistry*, **2002**, 12, 2095-2099 77
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- 326 Electrochemical switching of lariat ethers. Survey of cation binding by neutral and reduced forms of one- and two-armed carbon- and nitrogen-pivot lariat ethers. *Journal of the American Chemical Society*, **1985**, 107, 1958-1965 16.4 76
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- 320 Dithia-crown-annelated tetrathiafulvalene disulfides: synthesis, electrochemistry, self-assembled films, and metal ion recognition. *Journal of Organic Chemistry*, **2000**, 65, 3292-8 4.2 73
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- 316 New M(3)N@C(2n) endohedral metallofullerene families (M=Nd, Pr, Ce; n=40-53): expanding the preferential templating of the C(88) cage and approaching the C(96) cage. *Chemistry - A European Journal*, **2008**, 14, 4594-9 4.8 72
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- 313 Three-Dimensional Graphene Nanostructures. *Journal of the American Chemical Society*, **2018**, 140, 9341-9345 6.4 70

312	Preparation and structural characterization of the Ih and the D5h isomers of the endohedral fullerenes Tm <sub>3</sub> N@C <sub>80</sub> : icosahedral C <sub>80</sub> cage encapsulation of a trimetallic nitride magnetic cluster with three uncoupled Tm <sup>3+</sup> ions. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 5234-44	5.1	69
311	U@ I (7)-C: Crystallographic Characterization of a Long-Sought Dimetallic Actinide Endohedral Fullerene. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 3907-3915	16.4	68
310	Facile functionalization of multilayer fullerenes (carbon nano-onions) by nitrene chemistry and "grafting from" strategy. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 1389-96	4.8	67
309	A new fullerene complexation ligand: N-pyridylfulleropyrrolidine. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 4602-6	4.2	67
308	Globular Dendrimers Involving a C <sub>60</sub> Core and a Tetraphenyl Porphyrin Function. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 2362-2373	4.8	67
307	Oligoporphyrin Arrays Conjugated to [60]Fullerene: Preparation, NMR Analysis, and Photophysical and Electrochemical Properties. <i>Helvetica Chimica Acta</i> , <b>2005</b> , 88, 1839-1884	2	66
306	Photophysical and electrochemical properties of meso, meso-linked oligoporphyrin rods with appended fullerene terminals. <i>ChemPhysChem</i> , <b>2005</b> , 6, 732-43	3.2	66
305	Reactive Carbon Nano-Onion Modified Glassy Carbon Surfaces as DNA Sensors for Human Papillomavirus Oncogene Detection with Enhanced Sensitivity. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6744-51	7.8	64
304	Ultrathin monolayer lipid membranes from a new family of crown ether-based bola-amphiphiles. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 1705-1711	16.4	64
303	Radical Addition of a Conjugated Polymer to Multilayer Fullerenes (Carbon Nano-onions). <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1411-1417	9.6	63
302	Screening electronic communication through ortho-, meta- and para-substituted linkers separating subphthalocyanines and C <sub>60</sub> . <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 7670-9	4.8	63
301	Kinetic Effects in the Electrochemistry of Fullerene Derivatives at Very Negative Potentials. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 6388-6394	16.4	63
300	NIR fluorescence labelled carbon nano-onions: synthesis, analysis and cellular imaging. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 7459-7463	7.3	62
299	Boron dipyrromethene (BODIPY) functionalized carbon nano-onions for high resolution cellular imaging. <i>Nanoscale</i> , <b>2014</b> , 6, 13761-9	7.7	62
298	Small noncytotoxic carbon nano-onions: first covalent functionalization with biomolecules. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 4870-80	4.8	61
297	Synthesis of trans-1, trans-2, trans-3, and trans-4 bisadducts of C <sub>60</sub> by regio- and stereoselective tether-directed remote functionalization. <i>Chemistry - A European Journal</i> , <b>2005</b> , 11, 2284-94	4.8	61
296	Methanofullerenes and Methanofulleroids Have Different Electrochemical Behavior at Negative Potentials. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 1422-1427	16.4	60
295	Preparation and characterization of composites that contain small carbon nano-onions and conducting polyaniline. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2600-8	4.8	58

294	Synthesis and electrochemical studies of Bingel-Hirsch derivatives of M(3)N@I(h)-C(80) (M=Sc, Lu). <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 4864-9	4.8	58
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292	Metallic nitride endohedral fullerenes: synthesis and electrochemical properties. <i>Tetrahedron</i> , <b>2008</b> , 64, 11387-11393	2.4	56
291	Synthesis and Characterization of Non-Isolated-Pentagon-Rule Actinide Endohedral Metallofullerenes U@ C(17418)-C, U@ C(28324)-C, and Th@ C(28324)-C: Low-Symmetry Cage Selection Directed by a Tetravalent Ion. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 18039-18050	16.4	56
290	Multi-Functionalized Carbon Nano-onions as Imaging Probes for Cancer Cells. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 19071-80	4.8	55
289	The synthesis and characterization of carbon nano-onions produced by solution ozonolysis. <i>Carbon</i> , <b>2011</b> , 49, 5079-5089	10.4	55
288	Walk on the Sphere: Electrochemically Induced Isomerization of C60 Bis-adducts by Migration of Di(alkoxycarbonyl)methano Bridges. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 8545-8546	16.4	55
287	Cation transport using anthraquinone-derived lariat ethers and podands: the first example of electrochemically switched on/off activation/deactivation. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 2440-2443	16.4	55
286	Single crystal structures and theoretical calculations of uranium endohedral metallofullerenes (U@ , 2 = 74, 82) show cage isomer dependent oxidation states for U. <i>Chemical Science</i> , <b>2017</b> , 8, 5282-5290	9.4	54
285	Enhanced sodium cation binding by electrochemically reduced nitrobenzene-substituted lariat ethers. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 7168-7169	16.4	54
284	Tuning the Intermolecular Electron Transfer of Low-Dimensional and Metal-Free BCN/C Electrocatalysts via Interfacial Defects for Efficient Hydrogen and Oxygen Electrochemistry. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 1203-1215	16.4	54
283	Tailoring the Interfacial Interactions of van der Waals 1T-MoS/C Heterostructures for High-Performance Hydrogen Evolution Reaction Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 17923-17927	16.4	53
282	Beyond the Butterfly: Sc2C2@C(2v)(9)-C86, an Endohedral Fullerene Containing a Planar, Twisted Sc2C2 Unit with Remarkable Crystalline Order in an Unprecedented Carbon Cage. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 10116-9	16.4	52
281	Improved Performance and Stability of Inverted Planar Perovskite Solar Cells Using Fulleropyrrolidine Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 31426-31432	9.5	52
280	Self-Assembled Fullerene-Derivative Monolayers on a Gold Substrate Using Phenanthroline-Au Interactions. <i>Langmuir</i> , <b>1998</b> , 14, 821-824	4	52
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