# Jean-Christophe Lacroix

List of Publications by Year
in descending order

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Version: 2024-02-01

| 81 | 2,847 | 159585 30 | 182427 51 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 83 | 83 | 83 | 2865 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Insights on asymmetric BTB-based molecular junctions: Effect of electrode coupling. Chemical Physics Letters, 2022, 787, 139273. | 2.6 | 3 |
| 2 | [2+2] Cyclo-Addition Reactions for Efficient Polymerization on a HOPG Surface at Ambient Conditions. Nanomaterials, 2022, 12, 1334. | 4.1 | 2 |
| 3 | Visualization and Comprehension of Electronic and Topographic Contrasts on Cooperatively Switched Diarylethene-Bridged Ditopic Ligand. Nanomaterials, 2022, 12, 1318. | 4.1 | 3 |
| 4 | Long-Range Plasmon-Induced Anisotropic Growth of an Organic Semiconductor between Isotropic Gold Nanoparticles. Nano Letters, 2022, 22, 4253-4259. | 9.1 | 2 |
| 5 | From Multi-Switchable Self-Assemblies towards Surface Coordination Chemistry: An STM Investigation of Bipyridine-Terminated Ditopic Ligands. ECS Journal of Solid State Science and Technology, 2022, 11, 055007. | 1.8 | 1 |
| 6 | Fabrication of Polyaniline (PANI) through Parallel Nanopores: Charge Transport Properties of PANI@SiO‹sub›2‹/sub› Nanopore Molecular Junctions. ECS Journal of Solid State Science and Technology, 2022, 11, 065009. | 1.8 | 2 |
| 7 | Confinement Effect of Plasmon for the Fabrication of Interconnected AuNPs through the Reduction of Diazonium Salts. Nanomaterials, 2021, 11, 1957. | 4.1 | 6 |
| 8 | Electrochemical and Plasmonâ€induced Grafting of nâ€Ðopable Ï€â€Conjugated Oligomers. ChemElectroChem, 2021, 8, 2512-2518. | 3.4 | 2 |
| 9 | Single-Molecule Junctions with Highly Improved Stability. Nano Letters, 2021, 21, 6540-6548. | 9.1 | 12 |
| 10 | Unprecedented ON/OFF Ratios in Photoactive Diarylethene-Bisthienylbenzene Molecular Junctions. Nano Letters, 2021, 21, 7555-7560. | 9.1 | 14 |
| 11 | On-Surface Dimerization and Coordination of 4-(Bis-ethylenedioxythiophene)benzoic Acid. Journal of Physical Chemistry C, 2021, 125, 957-963. | 3.1 | 4 |
| 12 | Nanometer-Thick Bilayers by Stepwise Electrochemical Reduction of Diazonium Compounds for Molecular Junctions. ACS Applied Nano Materials, 2021, 4, 13861-13870. | 5.0 | 4 |
| 13 | Combining Photomodulation and Rectification in Coordination Molecular Wires Based on Dithienylethene Molecular Junctions. Journal of Physical Chemistry C, 2020, 124, 26304-26309. | 3.1 | 22 |
| 14 | Plasmon-Induced Grafting in the Gap of Gold Nanoparticle Dimers for Plasmonic Molecular Junctions. ACS Applied Nano Materials, 2020, 3, 7789-7794. | 5.0 | 10 |
| 15 | Long-Range Charge Transport in Diazonium-Based Single-Molecule Junctions. Nano Letters, 2020, 20, 6899-6907. | 9.1 | 26 |
| 16 | Self-terminated fabrication of electrochemically-gated conducting polymer nanojunctions. Electrochemistry Communications, 2020, 112, 106674. | 4.7 | 4 |
| 17 | Highly Efficient Photoswitch in Diarylethene-Based Molecular Junctions. Journal of the American Chemical Society, 2020, 142, 7732-7736. | 13.7 | 60 |
| 18 | Dithienylpyrrole Electrografting on a Surface through the Electroreduction of Diazonium Salts. Electrochem, 2020, 1, 20-31. | 3.3 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Molecular Signature and Activationless Transport in Cobaltâ€Terpyridineâ€Based Molecular Junctions. Advanced Electronic Materials, 2020, 6, 1901416. | 5.1 | 27 |
| 20 | Large-area in plane molecular junctions by electrografting in 10 nm metallic nanotrenches. AIP Advances, 2020, 10, . | 1.3 | 3 |
| 21 | One-Dimensional Double Wires and Two-Dimensional Mobile Grids: Cobalt/Bipyridine Coordination Networks at the Solid/Liquid Interface. Journal of Physical Chemistry Letters, 2019, 10, 4164-4169. | 4.6 | 16 |
| 22 | Nanostructured Mixed Layers of Organic Materials Obtained by Nanosphere Lithography and Electrochemical Reduction of Aryldiazonium Salts. Langmuir, 2019, 35, 15071-15077. | 3.5 | 10 |
| 23 | Unipolar Injection and Bipolar Transport in Electroluminescent Ru-Centered Molecular Electronic Junctions. Journal of Physical Chemistry C, 2019, 123, 29162-29172. | 3.1 | 10 |
| 24 | Charge injection and transport properties of large area organic junctions based on aryl thin films covalently attached to a multilayer graphene electrode. Nanoscale Advances, 2019, 1, 414-420. | 4.6 | 5 |
| 25 | Multiscale organization of a size gradient of gold nanoparticles in a honeycomb structure network. Electrochemistry Communications, 2019, 102, 63-66. | 4.7 | 3 |
| 26 | Multi-functional switches of ditopic ligands with azobenzene central bridges at a molecular scale. Nanoscale, 2019, 11, 23042-23048. | 5.6 | 6 |
| 27 | Improved adhesion of poly(3,4-ethylenedioxythiophene) (PEDOT) thin film to solid substrates using electrografted promoters and application to efficient nanoplasmonic devices. Synthetic Metals, 2019, 248, 45-52. | 3.9 | 25 |
| 28 | From active plasmonic devices to plasmonic molecular electronics. Polymer International, 2019, 68, 607-619. | 3.1 | 16 |
| 29 | Nanometric building blocks for robust multifunctional molecular junctions. Nanoscale Horizons, 2018, 3, 45-52. | 8.0 | 20 |
| 30 | Electrochemistry does the impossible: Robust and reliable large area molecular junctions. Current Opinion in Electrochemistry, 2018, 7, 153-160. | 4.8 | 26 |
| 31 | Ultrathin Molecular Layer Junctions Based on Cyclometalated Ruthenium Complexes. Journal of Physical Chemistry C, 2018, 122, 29069-29074. | 3.1 | 14 |
| 32 | Orbital Control of Long-Range Transport in Conjugated and Metal-Centered Molecular Electronic Junctions. Journal of Physical Chemistry C, 2018, 122, 29028-29038. | 3.1 | 16 |
| 33 | Supramolecular Networks and Wires Dominated by Intermolecular BiEDOT Interactions. Journal of Physical Chemistry C, 2018, 122, 22760-22766. | 3.1 | 11 |
| 34 | Highly Efficient Long-Range Electron Transport in a Viologen-Based Molecular Junction. Journal of the American Chemical Society, 2018, 140, 10131-10134. | 13.7 | 54 |
| 35 | Tailored Surfaces/Assemblies for Molecular Plasmonics and Plasmonic Molecular Electronics. Annual Review of Analytical Chemistry, 2017, 10, 201-224. | 5.4 | 8 |
| 36 | Plasmon-Induced Nanolocalized Reduction of Diazonium Salts. ACS Omega, 2017, 2, 1947-1955. | 3.5 | 59 |

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| 37 | Robust Bipolar Light Emission and Charge Transport in Symmetric Molecular Junctions. Journal of the American Chemical Society, 2017, 139, 7436-7439. | 13.7 | 55 |
| 38 | Bottom-Up Electrochemical Fabrication of Conjugated Ultrathin Layers with Tailored Switchable Properties. ACS Applied Materials & Interfaces, 2017, 9, 610-617. | 8.0 | 7 |
| 39 | Molecular Isomerization and Multiscale Phase Transitions of a Ditopic Ligand on a Surface. Journal of Physical Chemistry C, 2017, 121, 20925-20930. | 3.1 | 14 |
| 40 | Electrografted monolayer based on a naphthalene diimideâ€“ruthenium terpyridine complex dyad: efficient creation of large-area molecular junctions with high current densities. Chemical Communications, 2017, 53, 10997-11000. | 4.1 | 23 |
| 41 | Control of Rectification in Molecular Junctions: Contact Effects and Molecular Signature. Journal of the American Chemical Society, 2017, 139, 11913-11922. | 13.7 | 61 |
| 42 | Plasmon-Induced Conductance Switching of an Electroactive Conjugated Polymer Nanojunction. ACS Applied Materials & Interfaces, 2017, 9, 27817-27824. | 8.0 | 14 |
| 43 | Comparing plasmonic electrodes prepared by electron-beam lithography and electrochemical reduction of an Au (iii) salt: application in active plasmonic devices. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2016, 7, 015005. | 1.5 | 6 |
| 44 | Ordered Nanoporous Thin Films by Nanosphere Lithography and Diazonium Electroreduction: Simple Elaboration of Ultraâ€Microâ€Electrode Arrays. ChemElectroChem, 2016, 3, 2264-2269. | 3.4 | 13 |
| 45 | Control of Electronic Symmetry and Rectification through Energy Level Variations in Bilayer Molecular Junctions. Journal of the American Chemical Society, 2016, 138, 12287-12296. | 13.7 | 70 |
| 46 | Unprecedented Self-Organized Monolayer of a Ru(II) Complex by Diazonium Electroreduction. Journal of the American Chemical Society, 2016, 138, 9381-9384. | 13.7 | 60 |
| 47 | Large-area plasmonic electrodes and active plasmonic devices generated by electrochemical processes. Electrochimica Acta, 2015, 179, 282-287. | 5.2 | 16 |
| 48 | Approaching the Frontier Between Fiber Devices and Single Molecule Devices in Redox Gated Junction. Journal of Physical Chemistry C, 2015, 119, 21278-21285. | 3.1 | 8 |
| 49 | Grafting Ï€-Conjugated Oligomers Incorporating 3,4-Ethylenedioxythiophene (EDOT) and Thiophene Units on Surfaces by Diazonium Electroreduction. Journal of Physical Chemistry C, 2015, 119, 19218-19227. | 3.1 | 35 |
| 50 | Highly Resolved Nanostructured PEDOT on Large Areas by Nanosphere Lithography and Electrodeposition. ACS Applied Materials & Interfaces, 2015, 7, 21673-21681. | 8.0 | 33 |
| 51 | Tuning the thickness of electrochemically grafted layers in large area molecular junctions. Journal of Applied Physics, 2014, 116, 114509. | 2.5 | 16 |
| 52 | Tunable Plasmon Resonance of Gold Nanoparticles Functionalized by Electroactive Bisthienylbenzene Oligomers or Polythiophene. Journal of Physical Chemistry C, 2014, 118, 25158-25166. | 3.1 | 36 |
| 53 | Direct Observation of Large Quantum Interference Effect in Anthraquinone Solid-State Junctions. Journal of the American Chemical Society, 2013, 135, 10218-10221. | 13.7 | 72 |
| 54 | Synthesis of nitro- and amino-functionalized Ï€-conjugated oligomers incorporating 3,4-ethylenedioxythiophene (EDOT) units. Tetrahedron, 2013, 69, 861-866. | 1.9 | 19 |

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| 55 | When Electron Transfer Meets Electron Transport in Redox-Active Molecular Nanojunctions. Journal of the American Chemical Society, 2013, 135, 2108-2111. | 13.7 | 26 |
| 56 | Micro/Nano-Structured Polypyrrole Surfaces on Oxidizable Metals as Smart Electroswitchable Coatings. ACS Applied Materials & Interfaces, 2013, 5, 10159-10164. | 8.0 | 25 |
| 57 | Activationless charge transport across 4.5 to 22 nm in molecular electronic junctions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5326-5330. | 7.1 | 149 |
| 58 | Formation of Mixed Organic Layers by Stepwise Electrochemical Reduction of Diazonium Compounds. Journal of the American Chemical Society, 2012, 134, 5476-5479. | 13.7 | 39 |
| 59 | Organic Electrodes Based on Grafted Oligothiophene Units in Ultrathin, Large-Area Molecular Junctions. Journal of the American Chemical Society, 2012, 134, 154-157. | 13.7 | 64 |
| 60 | Surface patterning based on nanosphere lithography and electroreduction of in situ generated diazonium cation. Electrochemistry Communications, 2012, 18, 20-23. | 4.7 | 27 |
| 61 | Electrochemical Fabrication of Highly Stable Redox-Active Nanojunctions. Analytical Chemistry, 2011, 83, 9709-9714. | 6.5 | 14 |
| 62 | Electrosynthesis of well-organized nanoporous poly(3,4-ethylenedioxythiophene) by nanosphere lithography. Electrochemistry Communications, 2010, 12, 872-875. | 4.7 | 39 |
| 63 | Giant Plasmon Resonance Shift Using Poly(3,4-ethylenedioxythiophene) Electrochemical Switching. Journal of the American Chemical Society, 2010, 132, 10224-10226. | 13.7 | 101 |
| 64 | Hostâ^'Guest Complexation: A Convenient Route for the Electroreduction of Diazonium Salts in Aqueous Media and the Formation of Composite Materials. Journal of the American Chemical Society, 2010, 132, 1690-1698. | 13.7 | 36 |
| 65 | Ionic Liquid Viscosity Effects on the Functionalization of Electrode Material through the Electroreduction of Diazonium. Langmuir, 2010, 26, 18542-18549. | 3.5 | 62 |
| 66 | Active Plasmonic Devices with Anisotropic Optical Response: A Step Toward Active Polarizer. Nano Letters, 2009, 9, 2144-2148. | 9.1 | 68 |
| 67 | Grafting Oligothiophenes on Surfaces by Diazonium Electroreduction: A Step toward Ultrathin Junction with Well-Defined Metal/Oligomer Interface. Journal of the American Chemical Society, 2009, 131, 14920-14927. | 13.7 | 76 |
| 68 | Modification of carbon electrode in ionic liquid through the reduction of phenyl diazonium salt. Electrochemical evidence in ionic liquid. Electrochemistry Communications, 2008, 10, 1060-1063. | 4.7 | 47 |
| 69 | Tunable Electrochemical Switch of the Optical Properties of Metallic Nanoparticles. ACS Nano, 2008, 2, 728-732. | 14.6 | 102 |
| 70 | Ultrafast Electrosynthesis of High Hydrophobic Polypyrrole Coatings on a Zinc Electrode: Applications to the Protection against Corrosion. Chemistry of Materials, 2008, 20, 4447-4456. | 6.7 | 78 |
| 71 | Electrografting Polyaniline on Carbon through the Electroreduction of Diazonium Salts and the Electrochemical Polymerization of Aniline. Journal of Physical Chemistry C, 2008, 112, 16103-16109. | 3.1 | 65 |
| 72 | Electrochemical Switches Based on Ultrathin Organic Films: From Diode-like Behavior to Charge Transfer Transparency. Journal of Physical Chemistry C, 2008, 112, 18638-18643. | 3.1 | 46 |

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|---|---|---|---|
| 73 | Tunable Electrochemical Switches Based on Ultrathin Organic Films. Journal of the American Chemical Society, 2007, 129, 1890-1891. | 13.7 | 75 |
| 74 | Intrachain Electron Transfer in Conducting Oligomers and Polymers:Â The Mixed Valence Approach. Journal of the American Chemical Society, 2006, 128, 7264-7276. | 13.7 | 64 |
| 75 | Conducting Polymer Electrochemical Switching as an Easy Means for Designing Active Plasmonic Devices. Journal of the American Chemical Society, 2005, 127, 16022-16023. | 13.7 | 122 |
| 76 | Conductingâ€Polymer Electrochemical Switching as an Easy Means for Control of the Molecular Properties of Grafted Transition Metal Complexes. Chemistry - A European Journal, 2001, 7, 5029-5040. | 3.3 | 36 |
| 77 | Electroactive Poly(aromatic amine) Films for Iron Protection in Sulfate Medium. Journal of the Electrochemical Society, 2001, 148, B121. | 2.9 | 64 |
| 78 | Poly(3â€²,4â€²-[bis(N,Nâ€²-ethyloxamyl)]terthiophene): A new functionalized conductive polymer with tunable pendent ethyloxamyl substituents. Physical Chemistry Chemical Physics, 1999, 1, 2755-2760. | 2.8 | 7 |
| 79 | Polyaniline electrodeposition from neutral aqueous media: Application to the deposition on oxidizable metals. Synthetic Metals, 1999, 102, 1388-1389. | 3.9 | 26 |
| 80 | Improvement of the Electrosynthesis and Physicochemical Properties of Poly(3,4-ethylenedioxythiophene) Using a Sodium Dodecyl Sulfate Micellar Aqueous Medium. Langmuir, 1999, 15, 2566-2574. | 3.5 | 318 |
| 81 | Tuning ON/OFF Ratios in Diarylethene-Based Single- and Bilayer Molecular Junctions. ECS Journal of Solid State Science and Technology, 0, , . | 1.8 | 0 |