

# Emilie Planes

## List of Publications by Year in descending order

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43  
papers

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citations

535685

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43  
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times ranked

950  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effect of Chlorine Addition on the Performance and Stability of Electrodeposited Mixed Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2022, 34, 2218-2230.  | 3.2 | 10        |
| 2  | Optimizing Perovskite Solar Cell Architecture in Multistep Routes Including Electrodeposition. <i>ACS Applied Energy Materials</i> , 2022, 5, 4461-4474.   | 2.5 | 7         |
| 3  | Anion Exchange Membranes Incorporating Multi- <i>N</i> -Spirocyclic Quaternary Ammonium Cations via Ultraviolet-Initiated Polymerization for Zinc Slurry-Air Flow Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 7069-7080. | 2.5 | 10        |
| 4  | Degradation Mechanisms in a Mixed Cations and Anions Perovskite Solar Cell: Mitigation Effect of the Gold Electrode. <i>ACS Applied Energy Materials</i> , 2021, 4, 1365-1376.   | 2.5 | 11        |
| 5  | Perovskite Inverted Solar Cells: Impact of Hole Transport Layer and Anti-Solvent Ejection Time. , 2021, , .  |     | 2         |
| 6  | Humidity-Induced Mechanical Behavior and Proton Transport Mechanism in Aromatic Multiblock Ionomer Membranes. <i>ACS Applied Energy Materials</i> , 2021, 4, 5809-5820.  | 2.5 | 2         |
| 7  | Innovative PIN-type perovskite solar cells with 17% efficiency: processing and characterization. <i>Materials Advances</i> , 2021, 2, 7907-7921.   | 2.6 | 6         |
| 8  | Perfluorosulfonyl Imide versus Perfluorosulfonic Acid Ionomers in Proton Exchange Membrane Fuel Cells at Low Relative Humidity. <i>ChemSusChem</i> , 2020, 13, 590-600.  | 3.6 | 8         |
| 9  | A Comparison of the Structure and Properties of Opaque and Semi-Transparent NIP/PIN-Type Scalable Perovskite Solar Cells. <i>Energies</i> , 2020, 13, 3794.  | 1.6 | 13        |
| 10 | Tailoring the Proton Conductivity and Microstructure of Block Copolymers by Counter-cation-Selective Membrane Fabrication. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13071-13081.  | 1.5 | 5         |
| 11 | Encapsulation Effect on Performance and Stability of Organic Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000293.   | 1.9 | 13        |
| 12 | Effect of the Hole Transporting/Active Layer Interface on the Perovskite Solar Cell Stability. <i>ACS Applied Energy Materials</i> , 2020, 3, 3282-3292.   | 2.5 | 29        |
| 13 | Influence of Chloride/Iodide Ratio in MAPbI <sub>3</sub> -xCl <sub>x</sub> Perovskite Solar Devices: Case of Low Temperature Processable AZO Sub-Layer. <i>Energies</i> , 2020, 13, 1927.  | 1.6 | 11        |
| 14 | Alternative Electron Transport Layer Based on Al-Doped ZnO and SnO <sub>2</sub> for Perovskite Solar Cells: Impact on Microstructure and Stability. <i>ACS Applied Energy Materials</i> , 2019, 2, 7183-7195.                          | 2.5 | 34        |
| 15 | Absolute Quantification of Photo-/Electroluminescence Imaging for Solar Cells: Definition and Application to Organic and Perovskite Devices. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2489-2501.                             | 2.0 | 13        |
| 16 | Sliding Angle Characterization of Physicochemical and Roughness Changes of GDL Surfaces after Fuel Cell Operation. <i>Fuel Cells</i> , 2018, 18, 148-159.  | 1.5 | 8         |
| 17 | Predictive durability of polyethylene terephthalate toward hydrolysis over large temperature and relative humidity ranges. <i>Polymer</i> , 2018, 142, 285-292.  | 1.8 | 24        |
| 18 | Water vapour permeation through high barrier materials: numerical simulation and comparison with experiments. <i>Journal of Materials Science</i> , 2018, 53, 9076-9090.   | 1.7 | 6         |

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|----|--|-----|-----------|
| 19 | Durability of Polymer Metal Multilayer: Focus on the Adhesive Chemical Degradation. <i>Frontiers in Chemistry</i> , 2018, 6, 459.  | 1.8 | 3         |
| 20 | Mechanical Reliability of Flexible Encapsulated Organic Solar Cells: Characterization and Improvement. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29805-29813.                                    | 4.0 | 13        |
| 21 | Water Vapor Sorption Properties of Polyethylene Terephthalate over a Wide Range of Humidity and Temperature. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1953-1962.                                      | 1.2 | 27        |
| 22 | The hygrothermal degradation of PET in laminated multilayer. <i>European Polymer Journal</i> , 2017, 87, 1-13.   | 2.6 | 24        |
| 23 | Extrusion of a nano-ordered active layer for organic photovoltaic cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 2016-2027.   | 2.5 | 4         |
| 24 | Dimensional instabilities of polyester and polyolefin films as origin of delamination in laminated multilayer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 309-319.                   | 2.4 | 1         |
| 25 | Determination of the fracture energy in polymeric films by <i>in situ</i> photoelasticity on double edge notch specimen. <i>Journal of Applied Polymer Science</i> , 2016, 133, .                                | 1.3 | 3         |
| 26 | Highly Phase Separated Aromatic Ionomers Bearing Perfluorosulfonic Acids by Bottom-up Synthesis: Effect of Cation on Membrane Morphology and Functional Properties. <i>Macromolecules</i> , 2016, 49, 4164-4177. | 2.2 | 20        |
| 27 | Synthesis of partially fluorinated poly(arylene ether sulfone) multiblock copolymers bearing perfluorosulfonic functions. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1941-1956.                        | 2.5 | 39        |
| 28 | Carbon-polymer composites with extreme electrical conductivity. <i>Journal of Applied Polymer Science</i> , 2015, 132, .   | 1.3 | 2         |
| 29 | Optimizing formulations of polymer composite with high filler content: Application to bipolar plate. <i>Composites Science and Technology</i> , 2015, 110, 17-25.  | 3.8 | 8         |
| 30 | Permeation of water vapor through high performance laminates for VIPs and physical characterization of sorption and diffusion phenomena. <i>Energy and Buildings</i> , 2014, 85, 604-616.                        | 3.1 | 31        |
| 31 | Chemical degradation of the encapsulation system in flexible PV panel as revealed by infrared and Raman microscopies. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 15-23.                          | 3.0 | 25        |
| 32 | Fullerene-based processable polymers as plausible acceptors in photovoltaic applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 291-302.  | 2.4 | 20        |
| 33 | Spatial distribution of the electrical conductivity in highly filled polymers: Experiment, modeling, and application to bipolar plates. <i>Journal of Applied Physics</i> , 2013, 114, 223710.                   | 1.1 | 6         |
| 34 | Polymer Composites Bipolar Plates for PEMFCs. <i>Energy Procedia</i> , 2012, 20, 311-323.  | 1.8 | 81        |
| 35 | Optimizing the heat sealing parameters of multilayers polymeric films. <i>Journal of Materials Science</i> , 2011, 46, 5948-5958.  | 1.7 | 24        |
| 36 | Influence of fillers on mechanical properties of ATH filled EPDM during ageing by gamma irradiation. <i>Polymer Degradation and Stability</i> , 2010, 95, 1029-1038.   | 2.7 | 32        |

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|----|--|-----|-----------|
| 37 | Influence of silica fillers on the ageing by gamma radiation of EPDM nanocomposites. Composites Science and Technology, 2010, 70, 1530-1536.   | 3.8 | 20        |
| 38 | Crystalline microstructure and mechanical properties of crosslinked EPDM aged under gamma irradiation. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 97-105.              | 2.4 | 19        |
| 39 | Role of temperature during ageing under gamma irradiation of filled EPDM: consequences on mechanical properties. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1319-1328. | 2.4 | 11        |
| 40 | Evolution of EPDM networks aged by gamma irradiation " Consequences on the mechanical properties. Polymer, 2009, 50, 4028-4038.  | 1.8 | 40        |
| 41 | Characterization of new formulations for the rotational molding based on ethylene-propylene copolymer/graphite nanocomposites. Polymer Engineering and Science, 2008, 48, 723-731.         | 1.5 | 31        |
| 42 | Influence des charges sur les propriétés mécaniques des "lastom"res lors de leur vieillissement par irradiation. Revue Des Composites Et Des Matériaux Avances, 2008, 18, 51-62.           | 0.2 | 1         |
| 43 | Stability of mixed cation perovskite solar cells: understanding of involved mechanisms. , 0, , .   |     | 3         |