

# Emilie Planes

## List of Publications by Year in descending order

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43  
papers

700  
citations

471509

17  
h-index

580821

25  
g-index

43  
all docs

43  
docs citations

43  
times ranked

848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Composites Bipolar Plates for PEMFCs. <i>Energy Procedia</i> , 2012, 20, 311-323.	1.8	81
2	Evolution of EPDM networks aged by gamma irradiation – Consequences on the mechanical properties. <i>Polymer</i> , 2009, 50, 4028-4038.	3.8	40
3	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.	2.3	39
4	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.	5.1	34
5	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.	5.8	32
6	Characterization of new formulations for the rotational molding based on ethylene-propylene copolymer/graphite nanocomposites. <i>Polymer Engineering and Science</i> , 2008, 48, 723-731.	3.1	31
7	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.	6.7	31
8	Effect of the Hole Transporting/Active Layer Interface on the Perovskite Solar Cell Stability. <i>ACS Applied Energy Materials</i> , 2020, 3, 3282-3292.	5.1	29
9	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.	2.6	27
10	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.	6.2	25
11	Optimizing the heat sealing parameters of multilayers polymeric films. <i>Journal of Materials Science</i> , 2011, 46, 5948-5958.	3.7	24
12	The hygrothermal degradation of PET in laminated multilayer. <i>European Polymer Journal</i> , 2017, 87, 1-13.	5.4	24
13	Predictive durability of polyethylene terephthalate toward hydrolysis over large temperature and relative humidity ranges. <i>Polymer</i> , 2018, 142, 285-292.	3.8	24
14	Influence of silica fillers on the ageing by gamma radiation of EDPM nanocomposites. <i>Composites Science and Technology</i> , 2010, 70, 1530-1536.	7.8	20
15	Fullerene-based processable polymers as plausible acceptors in photovoltaic applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 291-302.	2.1	20
16	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.	4.8	20
17	Crystalline microstructure and mechanical properties of crosslinked EPDM aged under gamma irradiation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 97-105.	2.1	19
18	Mechanical Reliability of Flexible Encapsulated Organic Solar Cells: Characterization and Improvement. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29805-29813.	8.0	13

#	ARTICLE	IF	CITATIONS
19	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.	4.3	13
20	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.	3.1	13
21	Encapsulation Effect on Performance and Stability of Organic Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000293.	3.7	13
22	Role of temperature during ageing under gamma irradiation of filled EPDM: consequences on mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1319-1328.	2.1	11
23	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.	3.1	11
24	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.	5.1	11
25	Effect of Chlorine Addition on the Performance and Stability of Electrodeposited Mixed Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2022, 34, 2218-2230.	6.7	10
26	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.	5.1	10
27	Optimizing formulations of polymer composite with high filler content: Application to bipolar plate. <i>Composites Science and Technology</i> , 2015, 110, 17-25.	7.8	8
28	Sliding Angle Characterization of Physicochemical and Roughness Changes of GDL Surfaces after Fuel Cell Operation. <i>Fuel Cells</i> , 2018, 18, 148-159.	2.4	8
29	Perfluorosulfonyl Imide versus Perfluorosulfonic Acid Ionomers in Proton Exchange Membrane Fuel Cells at Low Relative Humidity. <i>ChemSusChem</i> , 2020, 13, 590-600.	6.8	8
30	Optimizing Perovskite Solar Cell Architecture in Multistep Routes Including Electrodeposition. <i>ACS Applied Energy Materials</i> , 2022, 5, 4461-4474.	5.1	7
31	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.	2.5	6
32	Water vapour permeation through high barrier materials: numerical simulation and comparison with experiments. <i>Journal of Materials Science</i> , 2018, 53, 9076-9090.	3.7	6
33	Innovative PIN-type perovskite solar cells with 17% efficiency: processing and characterization. <i>Materials Advances</i> , 2021, 2, 7907-7921.	5.4	6
34	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.	3.1	5
35	Extrusion of a nano-ordered active layer for organic photovoltaic cells. <i>Sustainable Energy and Fuels</i> , 2017, 1, 2016-2027.	4.9	4
36	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, .	2.6	3

#	ARTICLE	IF	CITATIONS
37	Durability of Polymer Metal Multilayer: Focus on the Adhesive Chemical Degradation. <i>Frontiers in Chemistry</i> , 2018, 6, 459.	3.6	3
38	Stability of mixed cation perovskite solar cells: understanding of involved mechanisms. , 0, , .		3
39	Carbonâ€“polymer composites with extreme electrical conductivity. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	2
40	Perovskite Inverted Solar Cells: Impact of Hole Transport Layer and Anti-Solvent Ejection Time. , 2021, , .		2
41	Humidity-Induced Mechanical Behavior and Proton Transport Mechanism in Aromatic Multiblock Ionomer Membranes. <i>ACS Applied Energy Materials</i> , 2021, 4, 5809-5820.	5.1	2
42	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.	2.1	1
43	Influence des charges sur les propriÃ©tÃ©s mÃ©caniques des Ã©lastomÃ©res lors de leur vieillissement par irradiation. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2008, 18, 51-62.	0.6	1