Emilie Planes

List of Publications by Year
in descending order

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	Effect of Chlorine Addition on the Performance and Stability of Electrodeposited Mixed Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 2218-2230.	6.7	10
2	Optimizing Perovskite Solar Cell Architecture in Multistep Routes Including Electrodeposition. ACS Applied Energy Materials, 2022, 5, 4461-4474.	5.1	7
3	Anion Exchange Membranes Incorporating Multi N-Spirocyclic Quaternary Ammonium Cations via Ultraviolet-Initiated Polymerization for Zinc Slurry-Air Flow Batteries. ACS Applied Energy Materials, 2022, 5, 7069-7080.	5.1	10
4	Degradation Mechanisms in a Mixed Cations and Anions Perovskite Solar Cell: Mitigation Effect of the Gold Electrode. ACS Applied Energy Materials, 2021, 4, 1365-1376.	5.1	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. ACS Applied Energy Materials, 2021, 4, 5809-5820.	5.1	2
7	Innovative PIN-type perovskite solar cells with 17% efficiency: processing and characterization. Materials Advances, 2021, 2, 7907-7921.	5.4	6
8	Perfluorosulfonyl Imide versus Perfluorosulfonic Acid Ionomers in Protonâ€Exchange Membrane Fuel Cells at Low Relative Humidity. ChemSusChem, 2020, 13, 590-600.	6.8	8
9	A Comparison of the Structure and Properties of Opaque and Semi-Transparent NIP/PIN-Type Scalable Perovskite Solar Cells. Energies, 2020, 13, 3794.	3.1	13
10	Tailoring the Proton Conductivity and Microstructure of Block Copolymers by Countercation-Selective Membrane Fabrication. Journal of Physical Chemistry C, 2020, 124, 13071-13081.	3.1	5
11	Encapsulation Effect on Performance and Stability of Organic Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000293.	3.7	13
12	Effect of the Hole Transporting/Active Layer Interface on the Perovskite Solar Cell Stability. ACS Applied Energy Materials, 2020, 3, 3282-3292.	5.1	29
13	Influence of Chloride/Iodide Ratio in MAPbI3-xClx Perovskite Solar Devices: Case of Low Temperature Processable AZO Sub-Layer. Energies, 2020, 13, 1927.	3.1	11
14	Alternative Electron Transport Layer Based on Al-Doped ZnO and SnO₂ for Perovskite Solar Cells: Impact on Microstructure and Stability. ACS Applied Energy Materials, 2019, 2, 7183-7195.	5.1	34
15	Absolute Quantification of Photo-/Electroluminescence Imaging for Solar Cells: Definition and Application to Organic and Perovskite Devices. ACS Applied Electronic Materials, 2019, 1, 2489-2501.	4.3	13
16	Sliding Angle Characterization of Physicochemical and Roughness Changes of GDL Surfaces after Fuel Cell Operation. Fuel Cells, 2018, 18, 148-159.	2.4	8
17	Predictive durability of polyethylene terephthalate toward hydrolysis over large temperature and relative humidity ranges. Polymer, 2018, 142, 285-292.	3.8	24
18	Water vapour permeation through high barrier materials: numerical simulation and comparison with experiments. Journal of Materials Science, 2018, 53, 9076-9090.	3.7	6

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19	Durability of Polymer Metal Multilayer: Focus on the Adhesive Chemical Degradation. Frontiers in Chemistry, 2018, 6, 459.	3.6	3
20	Mechanical Reliability of Flexible Encapsulated Organic Solar Cells: Characterization and Improvement. ACS Applied Materials & Interfaces, 2018, 10, 29805-29813.	8.0	13
21	Water Vapor Sorption Properties of Polyethylene Terephthalate over a Wide Range of Humidity and Temperature. Journal of Physical Chemistry B, 2017, 121, 1953-1962.	2.6	27
22	The hygrothermal degradation of PET in laminated multilayer. European Polymer Journal, 2017, 87, 1-13.	5.4	24
23	Extrusion of a nano-ordered active layer for organic photovoltaic cells. Sustainable Energy and Fuels, 2017, 1, 2016-2027.	4.9	4
24	Dimensional instabilities of polyester and polyolefin films as origin of delamination in laminated multilayer. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 309-319.	2.1	1
25	Determination of the fracture energy in polymeric films by in situ photoelasticimetry on double edge notch specimen. Journal of Applied Polymer Science, 2016, 133, .	2.6	3
26	Highly Phase Separated Aromatic Ionomers Bearing Perfluorosulfonic Acids by Bottom-up Synthesis: Effect of Cation on Membrane Morphology and Functional Properties. Macromolecules, 2016, 49, 4164-4177.	4.8	20
27	Synthesis of partially fluorinated poly(arylene ether sulfone) multiblock copolymers bearing perfluorosulfonic functions. Journal of Polymer Science Part A, 2015, 53, 1941-1956.	2.3	39
28	Carbonâ€"polymer composites with extreme electrical conductivity. Journal of Applied Polymer Science, 2015, 132, .	2.6	2
29	Optimizing formulations of polymer composite with high filler content: Application to bipolar plate. Composites Science and Technology, 2015, 110, 17-25.	7.8	8
30	Permeation of water vapor through high performance laminates for VIPs and physical characterization of sorption and diffusion phenomena. Energy and Buildings, 2014, 85, 604-616.	6.7	31
31	Chemical degradation of the encapsulation system in flexible PV panel as revealed by infrared and Raman microscopies. Solar Energy Materials and Solar Cells, 2014, 122, 15-23.	6.2	25
32	Fullereneâ€based processable polymers as plausible acceptors in photovoltaic applications. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 291-302.	2.1	20
33	Spatial distribution of the electrical conductivity in highly filled polymers: Experiment, modeling, and application to bipolar plates. Journal of Applied Physics, 2013, 114, 223710.	2.5	6
34	Polymer Composites Bipolar Plates for PEMFCs. Energy Procedia, 2012, 20, 311-323.	1.8	81
35	Optimizing the heat sealing parameters of multilayers polymeric films. Journal of Materials Science, 2011, 46, 5948-5958.	3.7	24
36	Influence of fillers on mechanical properties of ATH filled EPDM during ageing by gamma irradiation. Polymer Degradation and Stability, 2010, 95, 1029-1038.	5.8	32

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37	Influence of silica fillers on the ageing by gamma radiation of EDPM nanocomposites. Composites Science and Technology, 2010, 70, 1530-1536.	7.8	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.	2.1	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.	2.1	11
40	Evolution of EPDM networks aged by gamma irradiation â€“ Consequences on the mechanical properties. Polymer, 2009, 50, 4028-4038.	3.8	40
41	Characterization of new formulations for the rotational molding based on ethyleneâ€“propylene copolymer/graphite nanocomposites. Polymer Engineering and Science, 2008, 48, 723-731.	3.1	31
42	Influence des charges sur les propriÃ©tÃ©s mÃ©caniques des Ã©lastomÃ¨res lors de leur vieillissement par irradiation. Revue Des Composites Et Des Materiaux Avances, 2008, 18, 51-62.	0.6	1
43	Stability of mixed cation perovskite solar cells: understanding of involved mechanisms. , 0, , .		3