Corine Bas

List of Publications by Year
in descending order

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29 papers	759 citations	623188 14 h-index	500791 28 g-index
30 all docs	30 docs citations	30 times ranked	1141 citing authors

#	Article	IF	Citations
1	A review of <scp>PEM</scp> fuel cell durability: materials degradation, local heterogeneities of aging and possible mitigation strategies. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 540-560.	1.9	257
2	Carbon corrosion induced by membrane failure: The weak link of PEMFC long-term performance. International Journal of Hydrogen Energy, 2014, 39, 21902-21914.	3.8	75
3	On the dynamic mechanical behavior of polyimides based on aromatic and alicyclic dianhydrides. Polymer Engineering and Science, 2003, 43, 344-355.	1.5	64
4	Synthesis, Physicochemical Properties, and Toxicity Data of New Hydrophobic Ionic Liquids Containing Dimethylpyridinium and Trimethylpyridinium Cations. Journal of Chemical & Engineering Data, 2010, 55, 1971-1979.	1.0	50
5	Key counter ion parameters governing polluted nafion membrane properties. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1381-1392.	2.4	30
6	Water Vapor Sorption Properties of Polyethylene Terephthalate over a Wide Range of Humidity and Temperature. Journal of Physical Chemistry B, 2017, 121, 1953-1962.	1.2	27
7	Ultrasonic Properties of Hydrophobic Bis(trifluoromethylsulfonyl)imide-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2012, 57, 3385-3390.	1.0	25
8	Proton conducting membranes prepared by radiation grafting of styrene and various comonomers. European Polymer Journal, 2014, 53, 75-89.	2.6	25
9	The hygrothermal degradation of PET in laminated multilayer. European Polymer Journal, 2017, 87, 1-13.	2.6	24
10	Predictive durability of polyethylene terephthalate toward hydrolysis over large temperature and relative humidity ranges. Polymer, 2018, 142, 285-292.	1.8	24
11	Preparation of polyimide/silica hybrid material by solâ€“gel process under basic catalysis: Comparison with acid conditions. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1891-1902.	2.4	23
12	Microstructural parameters controlling gas permeability and permselectivity in polyimide membranes. Journal of Membrane Science, 2010, 349, 25-34.	4.1	23
13	Copolyimides containing alicyclic and fluorinated groups: Solubility and gas separation properties. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2413-2426.	2.4	20
14	Copolyimides with trifluoromethyl or methoxy substituents. NMR characterization. Polymer, 2002, 43, 1983-1992.	1.8	18
15	Copolyimides containing alicyclic and fluorinated groups: Characterization of the film microstructure. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2998-3010.	2.4	14
16	Understanding the degradation of MEA in PEMFC: Definition of structural markers and comparison between laboratory and onâ€site ageing. Journal of Applied Polymer Science, 2011, 120, 3501-3510.	1.3	10
17	Chemical degradation of PFSA ionomer binder in PEMFC's catalyst layer. International Journal of Hydrogen Energy, 2018, 43, 15386-15397.	3.8	9
18	Anode defectsâ€™ propagation in polymer electrolyte membrane fuel cells. Journal of Power Sources, 2022, 520, 230880.	4.0	6

#	Article	IF	Citations
19	Synthesis and characterization of crosslinkable polyimides. European Polymer Journal, 2008, 44, 832-841.	2.6	5
20	Various Scales of Aging Heterogeneities upon PEMFC Operation â€“ A Link between Local MEA Materials Degradation and the Cell Performance. ECS Transactions, 2015, 69, 133-146.	0.3	5
21	POSITRON INTERACTION IN POLYMERS. International Journal of Modern Physics A, 2004, 19, 3951-3959.	0.5	4
22	Modeling the time and temperature dependence of the oPs formation probability in polystyrene and its derivatives. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2063-2073.	2.4	4
23	Beta Relaxations in Semicrystalline Poly(aryl ether ether ketone) Films. Mechanical Coupling and Interactions between Phases. Polymer Journal, 1997, 29, 423-428.	1.3	3
24	Influence du solvant de mise en Å“uvre sur la microstructure et les propriÃ©tÃ©s permÃ©amÃ©triques de membranes denses copolyimides. Comptes Rendus Chimie, 2003, 6, 493-499.	0.2	3
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, .	1.3	3
26	Investigation of perfluorosulfonic acid ionomer solutions by 19 f NMR and DLS: Establishment of an accurate quantification protocol. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 2210-2222.	2.4	3
27	Durability of Polymer Metal Multilayer: Focus on the Adhesive Chemical Degradation. Frontiers in Chemistry, 2018, 6, 459.	1.8	3
28	Positron spectroscopy analysis in metallocene propylene/1â€octadecene copolymers: Parameters dependence on monoclinic and mesomorphic polymorphs. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1994-2002.	2.4	1
29	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.	2.4	1