

# Jean-Luc Gardette

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,609  
citations

430874

18  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo- and thermal-oxidation of polyethylene: Comparison of mechanisms and influence of unsaturation content. <i>Polymer Degradation and Stability</i> , 2013, 98, 2383-2390.	5.8	324
2	Photodegradation of polypropylene nanocomposites. <i>Polymer Degradation and Stability</i> , 2003, 82, 163-167.	5.8	135
3	Infrared identification of carboxylic acids formed in polymer photooxidation. <i>Journal of Applied Polymer Science</i> , 1994, 51, 1411-1420.	2.6	130
4	Photochemical Behavior of Polylactide/ZnO Nanocomposite Films. <i>Biomacromolecules</i> , 2012, 13, 3283-3291.	5.4	117
5	Polymer/carbon nanotube nanocomposites: Influence of carbon nanotubes on EVA photodegradation. <i>Polymer Degradation and Stability</i> , 2007, 92, 1873-1882.	5.8	105
6	Infrared analysis of the photochemical behaviour of segmented polyurethanes. <i>Polymer</i> , 1998, 39, 1223-1232.	3.8	94
7	Photochemical behavior of PVA as an oxygen-barrier polymer for solar cell encapsulation. <i>RSC Advances</i> , 2011, 1, 1471.	3.6	93
8	Light-induced degradation of the P3HT-based solar cells active layer. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1315-1325.	6.2	92
9	Influence of light intensity on the photooxidation of polypropylene. <i>Polymer Degradation and Stability</i> , 1997, 58, 261-268.	5.8	82
10	Influence of the exposure parameters on the mechanism of photooxidation of polypropylene. <i>Polymer Degradation and Stability</i> , 1999, 64, 213-225.	5.8	82
11	Photochemical stabilization of linear low-density polyethylene/clay nanocomposites: Towards durable nanocomposites. <i>Polymer Degradation and Stability</i> , 2008, 93, 1776-1780.	5.8	64
12	Basic Aspects of Polymer Degradation. <i>Macromolecular Symposia</i> , 2005, 225, 129-146.	0.7	49
13	Artificial simulated and natural weathering of poly(vinyl chloride) for outdoor applications: the influence of water in the changes of properties. <i>Polymer Degradation and Stability</i> , 2005, 88, 357-362.	5.8	44
14	Characteristics, fate, and impact of marine plastic debris exposed to sunlight: A review. <i>Marine Pollution Bulletin</i> , 2021, 171, 112701.	5.0	42
15	Review of accelerated ageing test modelling and its application to solar mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2018, 186, 29-41.	6.2	31
16	Limits of UV-light acceleration on the photooxidation of low-density polyethylene. <i>Polymer Degradation and Stability</i> , 2021, 183, 109443.	5.8	26
17	Impact of photooxidative degradation on the oxygen permeability of poly(ethyleneterephthalate). <i>Polymer Degradation and Stability</i> , 2014, 103, 35-41.	5.8	25
18	Multiscale Investigation of the Poly( <i>N</i> -vinylcarbazole) Photoageing Mechanism. <i>Journal of Physical Chemistry B</i> , 2012, 116, 802-812.	2.6	24

#	ARTICLE	IF	CITATIONS
19	New insights into the mechanism of photodegradation of chitosan. Carbohydrate Polymers, 2021, 259, 117715.	10.2	15
20	Influence of water on the photooxidation of KHJÂ® phenoxy resins, 1. Mechanisms. Polymer Degradation and Stability, 2011, 96, 144-150.	5.8	13
21	Influence of zeolite nanoparticles on photostability of ethylene vinyl alcohol copolymer (EVOH). Polymer Degradation and Stability, 2015, 121, 137-148.	5.8	13
22	Recent progress in the field of polymer photodegradation. AIP Conference Proceedings, 2018, , .	0.4	4
23	Influence of down shifting particles on the photochemical behaviour of EVA copolymers. Polymer Degradation and Stability, 2016, 133, 144-151.	5.8	2
24	Wavelength effect on polymer photooxidation under LED weathering conditions. Polymer Degradation and Stability, 2022, 202, 110021.	5.8	2
25	Photon management in the photochemical degradation of EVA-calcite composite films. Polymer Degradation and Stability, 2017, 144, 325-330.	5.8	1