

# Christian Decker

## List of Publications by Citations

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59  
papers

3,549  
citations

29  
h-index

59  
g-index

61  
ext. papers

3,776  
ext. citations

3.5  
avg, IF

5.51  
L-index

#	Paper	IF	Citations
59	Kinetic Study and New Applications of UV Radiation Curing. <i>Macromolecular Rapid Communications</i> , <b>2002</b> , 23, 1067-1093	4.8	510
58	Kinetic approach of oxygen inhibition in ultraviolet- and laser-induced polymerizations. <i>Macromolecules</i> , <b>1985</b> , 18, 1241-1244	5.5	369
57	The use of UV irradiation in polymerization. <i>Polymer International</i> , <b>1998</b> , 45, 133-141	3.3	322
56	A new method for monitoring ultra-fast photopolymerizations by real-time infra-red (RTIR) spectroscopy. <i>Die Makromolekulare Chemie</i> , <b>1988</b> , 189, 2381-2394		221
55	Overcoming oxygen inhibition in UV-curing of acrylate coatings by carbon dioxide inerting, Part I. <i>Progress in Organic Coatings</i> , <b>2003</b> , 48, 92-100	4.8	204
54	Synthesis of nanocomposite polymers by UV-radiation curing. <i>Polymer</i> , <b>2005</b> , 46, 6640-6648	3.9	133
53	Photoinitiated cationic polymerization of epoxides. <i>Polymer International</i> , <b>2001</b> , 50, 986-997	3.3	112
52	Kinetic investigation of photopolymerizations induced by laser beams. <i>Die Makromolekulare Chemie</i> , <b>1990</b> , 191, 963-979		99
51	Light-induced crosslinking polymerization. <i>Polymer International</i> , <b>2002</b> , 51, 1141-1150	3.3	93
50	Overcoming oxygen inhibition in UV-curing of acrylate coatings by carbon dioxide inerting: Part II. <i>Progress in Organic Coatings</i> , <b>2003</b> , 48, 101-111	4.8	90
49	Kinetic study of photoinitiated frontal polymerization. <i>Polymer International</i> , <b>2001</b> , 50, 113-118	3.3	78
48	Dual-Curing of Waterborne Urethane-Acrylate Coatings by UV and Thermal Processing. <i>Macromolecular Materials and Engineering</i> , <b>2003</b> , 288, 17-28	3.9	75
47	Aging and degradation of polyolefins. II. Initiated oxidations of atactic polypropylene. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , <b>1973</b> , 11, 2847-2877		75
46	Photopolymerization of acrylates using N-aliphaticmaleimides as photoinitiators. <i>Polymer</i> , <b>1999</b> , 40, 5063-5072	3.9	72
45	Real-Time Infrared Characterization of Reaction Diffusion during Multifunctional Monomer Polymerizations. <i>Macromolecules</i> , <b>1995</b> , 28, 4040-4043	5.5	71
44	UV-radiation curing chemistry. <i>Pigment and Resin Technology</i> , <b>2001</b> , 30, 278-286	1	66
43	Accelerated degradation of water borne acrylic nanocomposites used in outdoor protective coatings. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 128, 65-76	4.7	65

42	A new class of highly reactive acrylic monomers, 1. Light-induced polymerization. <i>Die Makromolekulare Chemie Rapid Communications</i> , <b>1990</b> , 11, 159-167		59
41	Degradation of poly(vinyl chloride) by U.V. radiation— Kinetics and quantum yields. <i>European Polymer Journal</i> , <b>1982</b> , 18, 1085-1091	5.2	50
40	Light-induced polymerisation of photoinitiator-free vinyl ether/maleimide systems. <i>Macromolecular Chemistry and Physics</i> , <b>1999</b> , 200, 1005-1013	2.6	49
39	A novel method for consuming oxygen instantaneously in photopolymerizable films. <i>Die Makromolekulare Chemie</i> , <b>1979</b> , 180, 2027-2030		45
38	Photocrosslinking of functionalized rubbers, 8. The thiol-polybutadiene system. <i>Macromolecular Chemistry and Physics</i> , <b>1999</b> , 200, 1965-1974	2.6	44
37	Photocrosslinking of functionalized rubbers, 7. Styrene-butadiene block copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>1999</b> , 200, 358-367	2.6	43
36	Mechanistic study of the light-induced copolymerization of maleimide/vinyl ether systems. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 1493-1503	2.6	41
35	Oxidative degradation of poly(vinyl chloride). <i>Journal of Applied Polymer Science</i> , <b>1976</b> , 20, 3321-3336	2.9	40
34	Photocrosslinking of a maleimide functionalized polymethacrylate. <i>Polymer International</i> , <b>2003</b> , 52, 722-732		39
33	Stability of acrylic polyurethane coatings under accelerated aging tests and natural outdoor exposure: The critical role of the used photo-stabilizers. <i>Progress in Organic Coatings</i> , <b>2018</b> , 124, 137-146 <sup>4.8</sup>		38
32	High-speed curing by laser irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 151, 22-28	1.2	36
31	Ultra-fast polymerization of epoxy-acrylate resins by pulsed laser irradiation. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , <b>1983</b> , 21, 2451-2461		31
30	Redox and photoinitiated crosslinking polymerization. <i>Progress in Organic Coatings</i> , <b>2005</b> , 53, 126-133	4.8	29
29	Surface protection of poly(vinyl chloride) by photografting of epoxyacrylate coatings. <i>Journal of Applied Polymer Science</i> , <b>1983</b> , 28, 97-107	2.9	29
28	Photo-oxidation of poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , <b>1981</b> , 1, 221-232		29
27	Redox and photoinitiated crosslinking polymerization: III. Clear and pigmented acrylic coatings. <i>Progress in Organic Coatings</i> , <b>2005</b> , 54, 230-239	4.8	24
26	Curing and Photostabilization of Thermoset and Photoset Acrylate Polymers. <i>Macromolecular Materials and Engineering</i> , <b>2001</b> , 286, 5-16	3.9	24
25	Real-time monitoring of polymerization quantum yields. <i>Macromolecules</i> , <b>1990</b> , 23, 5217-5220	5.5	24

24	Laser-nephelometry investigation of fast proceeding photopolymerizations. <i>Die Makromolekulare Chemie Rapid Communications</i> , <b>1980</b> , 1, 637-642		24
23	Recent developments in photoinitiated radical polymerization. <i>Macromolecular Symposia</i> , <b>1999</b> , 143, 45-63	0.8	20
22	Laser-induced polymerisation of multifunctional acrylate systems. <i>Polymer Degradation and Stability</i> , <b>1983</b> , 3, 131-142		20
21	Photodegradation of PVC <b>1984</b> , 81-136		18
20	Laser-induced degradation of polyvinyl chloride I: Quantum yield of dehydrochlorination. <i>Journal of Photochemistry and Photobiology</i> , <b>1981</b> , 15, 213-219		14
19	Laser-induced degradation of polyvinyl chloride II: Oxygen bleaching of polyenes. <i>Journal of Photochemistry and Photobiology</i> , <b>1981</b> , 15, 221-228		14
18	Kinetic Analysis and Performance of UV-Curable Coatings <b>1992</b> , 135-179		14
17	Photostabilization of poly(vinyl chloride) by protective coatings. <i>Journal of Vinyl and Additive Technology</i> , <b>2001</b> , 7, 235-243	2	13
16	Einfluss der Orientierung von Substituenten auf die chemische Verschiebung von <sup>13</sup> C. II. <sup>13</sup> C-NMR.-spektroskopische Untersuchung von substituierten Spiro [cyclopropan-1?,9-fluorenen]. <i>Helvetica Chimica Acta</i> , <b>1978</b> , 61, 661-668	2	12
15	Redox and photoinitiated crosslinking polymerization. <i>Progress in Organic Coatings</i> , <b>2005</b> , 53, 134-146	4.8	9
14	Étude de la stabilité à la lumière du poly(chlorure de vinyle) chloré <i>Die Makromolekulare Chemie</i> , <b>1982</b> , 183, 1263-1278		9
13	Pigment polymer layers as sensitizers for the photopolymerization of trimethylolpropane triacrylate. <i>European Polymer Journal</i> , <b>1997</b> , 33, 849-856	5.2	8
12	FEATURE ARTICLE: In Situ Monitoring of Ultrafast Photopolymerizations by Real-Time Infrared Spectroscopy. <i>Polymer News</i> , <b>2005</b> , 30, 34-48		7
11	Influence of some vegetable oils on the photocrosslinking of coatings based on an o-cresol novolac epoxy resin and a bis-cycloaliphatic diepoxide <b>2011</b> , 8, 343-353		6
10	Photostabilization of Macromolecular Materials by UV-Cured Protective Coatings. <i>Advances in Chemistry Series</i> , <b>1996</b> , 319-334		6
9	UV-Radiation Curing of Adhesives <b>2011</b> , 221-243		5
8	An original method for producing polymer micro-circuits by laser irradiation. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1989</b> , 24, 253-263		5
7	UV-Radiation Curing of Adhesives. <i>Handbook of Adhesives and Sealants</i> , <b>2006</b> , 2, 303-353		4

6	Photoinitiated cationic polymerisation of multifunctional systems. <i>Macromolecular Symposia</i> , <b>1996</b> , 102, 63-71	0.8	4
5	Recovery of photodegraded polymers by surface treatment. <i>Makromolekulare Chemie Macromolecular Symposia</i> , <b>1992</b> , 57, 103-114		2
4	Laser-Raman spectroscopy of disubstituted spiro-cyclopropane-1,9?-fluorene stereoisomers. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , <b>1979</b> , 35, 1303-1306		2
3	Recent Developments in Radiation Curing Chemistry <b>1995</b> , 34-55		2
2	Étude cinétique de polymérisations amorcées par irradiation laser. <i>Bulletin Des Sociétés Chimiques Belges</i> , <b>2010</b> , 99, 1019-1030		1
1	Kinetic Study of Photoinitiated Polymerization Reactions by Real-Time Infrared Spectroscopy <b>2003</b> , 109-124		1