

Norman S Allen

List of Publications by Year in descending order

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102
papers

2,253
citations

304602

22
h-index

276775

41
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115
all docs

115
docs citations

115
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradation and stabilisation of polymers and coatings: nano versus pigmentary titania particles. <i>Polymer Degradation and Stability</i> , 2004, 85, 927-946.	2.7	263
2	The effect of crystalline phase (anatase, brookite and rutile) and size on the photocatalytic activity of calcined polymorphic titanium dioxide (TiO ₂). <i>Polymer Degradation and Stability</i> , 2018, 150, 31-36.	2.7	151
3	Behaviour of nanoparticle (ultrafine) titanium dioxide pigments and stabilisers on the photooxidative stability of water based acrylic and isocyanate based acrylic coatings. <i>Polymer Degradation and Stability</i> , 2002, 78, 467-478.	2.7	143
4	Ageing and stabilisation of filled polymers: an overview. <i>Polymer Degradation and Stability</i> , 1998, 61, 183-199.	2.7	104
5	Stabiliser interactions in the thermal and photooxidation of titanium dioxide pigmented polypropylene films. <i>Polymer Degradation and Stability</i> , 1998, 61, 139-149.	2.7	53
6	Comparison of various thermal and photoageing conditions on the oxidation of titanium dioxide pigmented linear low density polyethylene films. <i>Polymer Degradation and Stability</i> , 1996, 52, 311-320.	2.7	50
7	Photochemistry in commercial polyolefins. <i>British Polymer Journal</i> , 1977, 9, 302-311.	0.7	47
8	Chemiluminescence of polyethylene: The comparative antioxidant effectiveness of phenolic stabilizers in low-density polyethylene. <i>Journal of Polymer Science Part A</i> , 2002, 40, 3312-3326.	2.5	47
9	Luminescent species in poly(ethylene terephthalate). <i>Die Makromolekulare Chemie</i> , 1978, 179, 523-526.	1.1	44
10	Influence of titanium dioxide pigments on the thermal and photochemical oxidation of low density polyethylene film. <i>European Polymer Journal</i> , 1992, 28, 817-822.	2.6	44
11	Interrelationship of spectroscopic properties with the thermal and photochemical behaviour of titanium dioxide pigments in metallocene polyethylene and alkyd based paint films. <i>Polymer Degradation and Stability</i> , 2002, 76, 305-319.	2.7	40
12	Perspectives on additives for polymers. 1. Aspects of stabilization. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 5-27.	1.8	37
13	The thermo-oxidative degradation of metallocene polyethylenes: Part 2: Thermal oxidation in the melt state. <i>Polymer Degradation and Stability</i> , 2006, 91, 1363-1372.	2.7	34
14	Photo-stabilising action of metal chelates in polypropylene—Part I: Excited state quenching versus UV antioxidant action under polychromatic irradiation. <i>Polymer Degradation and Stability</i> , 1982, 4, 223-237.	2.7	32
15	Influence of processing aids on the thermal and photostabilisation of HDPE with antioxidant blends. <i>Polymer Degradation and Stability</i> , 2001, 72, 367-376.	2.7	31
16	Hydrolytic stability and hydrolysis reaction mechanism of bis(2,4-di-tert-butyl)pentaerythritol diphosphite (Alkanox P-24). <i>Polymer Degradation and Stability</i> , 2006, 91, 195-211.	2.7	31
17	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1978, 179, 1575-1579.	1.1	30
18	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1980, 181, 2413-2420.	1.1	26

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19	Luminescence properties and photo-activity of sulphate-processed rutile (titanium dioxide) pigments in commercial polyethylene. <i>Journal of Materials Science</i> , 1979, 14, 1941-1944.	1.7	25
20	Thermal and photo-chemical degradation of nylon 6,6 polymer: Part III—Influence of iron and metal deactivators. <i>Polymer Degradation and Stability</i> , 1989, 23, 165-174.	2.7	23
21	Photochemistry and photoinitiator properties of 2-substituted anthraquinones: 2. Photopolymerization and flash photolysis. <i>Polymer</i> , 1995, 36, 4665-4674.	1.8	23
22	Environmental oxidation processes in yellow gas pipe: implications for electrowelding. <i>Polymer Degradation and Stability</i> , 1997, 56, 265-274.	2.7	23
23	Surface pinking in titanium dioxide/lead stabiliser filled PVC profiles. <i>Polymer Degradation and Stability</i> , 2010, 95, 2022-2040.	2.7	23
24	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1980, 1, 235-241.	1.1	22
25	Diffusion and extractability characteristics of antioxidants in blue polyethylene water pipe: A DSC and radiolabelling study. <i>Polymer Degradation and Stability</i> , 1990, 27, 145-157.	2.7	21
26	Perspectives on additives for polymers. Part 2. Aspects of photostabilization and role of fillers and pigments. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 211-239.	1.8	21
27	Interaction between antioxidants and hindered piperidine compounds in the photostabilisation of polypropylene: Influence of processing history. <i>Polymer Degradation and Stability</i> , 1981, 1, 111-121.	0.5	20
28	Interaction of a hindered piperidine stabilizer with hydroxy-substituted aromatic carbonyl compounds in the photostabilization of polypropylene. <i>Journal of Applied Polymer Science</i> , 1982, 27, 2761-2772.	1.3	20
29	Photostabilising action of ortho-hydroxy benzophenones in polypropylene film: Influence of processing and wavelength of irradiation. <i>Polymer Degradation and Stability</i> , 1983, 3, 251-265.	0.5	20
30	Photochemistry and photoinitiation activity of radical polymerization of 2-substituted anthraquinone derivatives. III. Nanosecond laser flash photolysis study. <i>Journal of Applied Polymer Science</i> , 1996, 62, 319-340.	1.3	20
31	Additive interactions in the stabilization of film grade high-density polyethylene. Part I: Stabilization and influence of zinc stearate during melt processing. <i>Journal of Vinyl and Additive Technology</i> , 2002, 8, 75-89.	1.8	20
32	Perspectives on yellowing in the degradation of polymer materials: inter-relationship of structure, mechanisms and modes of stabilisation. <i>Polymer Degradation and Stability</i> , 2022, 201, 109977.	2.7	20
33	Photo-stabilising action of metal chelate stabilisers in polypropylene: Part V—Light stability as a function of concentration and further studies in metal stearate-stabiliser systems. <i>Polymer Degradation and Stability</i> , 1983, 5, 323-338.	2.7	19
34	Degradation of carboxylated styrene butadiene rubber based water born paints. Part 1: Effect of talc filler and titania pigment on UV stability. <i>Polymer Degradation and Stability</i> , 2007, 92, 1611-1621.	2.7	19
35	Title is missing!. <i>Angewandte Makromolekulare Chemie</i> , 1983, 116, 203-219.	0.3	18
36	Thermal and photo-oxidative behaviour of hindered piperidine compounds in polypropylene: Importance of hydroxylamine in stabilisation. <i>Polymer Degradation and Stability</i> , 1983, 5, 135-144.	2.7	18

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37	Photo-stabilising action of metal chelates in polypropylene—Part III: Thermal antioxidant action and its relationship to photo-stabilisation. <i>Polymer Degradation and Stability</i> , 1983, 5, 55-63.	2.7	18
38	Spectroscopic analysis of organic contaminants in terephthalic acid: colour implications in poly(ethylene terephthalate) manufacture. <i>Polymer Degradation and Stability</i> , 1998, 62, 373-383.	2.7	18
39	Performance and antioxidant activity of phenol/phosphite antioxidants in synergistic blends in the thermal and photooxidation of high-density polyethylene (HDPE) film: Influence of zinc stearate. <i>Journal of Vinyl and Additive Technology</i> , 2001, 7, 110-122.	1.8	18
40	Effect of hindered piperidine light stabilizer molecular structure and UV-absorber addition on the oxidation of HDPE. Part 1: Long-term thermal and photo-oxidation studies. <i>Journal of Vinyl and Additive Technology</i> , 2004, 10, 79-87.	1.8	18
41	Photochemical reactions in commercial poly(oxy(2,6-dimethyl)-1,4-phenylene). <i>Die Makromolekulare Chemie</i> , 1979, 180, 2875-2882.	1.1	17
42	Thermal antioxidant properties of hindered piperidine light stabilisers and further studies on photo-chemical oxidation. <i>Polymer Degradation and Stability</i> , 1985, 11, 181-194.	2.7	17
43	Photochemistry and photoinitiator properties of 2-substituted anthraquinones 1. Absorption and luminescence characteristics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 91, 73-79.	2.0	17
44	Behaviour of carbon black pigments as excited state quenchers in LDPE. <i>Polymer Degradation and Stability</i> , 2000, 67, 563-566.	2.7	17
45	Interaction between coloured pigments and hindered piperidine/antioxidant combinations in the photo-stabilisation of polypropylene. <i>Polymer Degradation and Stability</i> , 1983, 5, 189-195.	2.7	15
46	Microwave photodielectric and photoconductivity studies on titanium dioxide exposed to continuous, polychromatic irradiation Part I: A novel analytical tool to assess the photoactivity of titanium dioxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 113, 171-180.	2.0	15
47	Impact of improved phosphite hydrolytic stability on the processing stabilization of polypropylene. <i>Journal of Vinyl and Additive Technology</i> , 2005, 11, 136-142.	1.8	15
48	Factors affecting the interfacial adsorption of stabilisers on to titanium dioxide particles (flow) Tj ETQqO O O rgBT /Overlock 10 Tf 50 307 <i>Pigments</i> , 2006, 70, 192-203.	2.0	15
49	Photo-stabilising action of metal chelates in polypropylene—Part IV: Influence of metal stearates in an exchange mechanism. <i>Polymer Degradation and Stability</i> , 1983, 5, 105-112.	2.7	14
50	Thermal and photo-chemical degradation of nylon 6,6 polymer: Part II—Influence of hindered piperidine light stabilisers. <i>Polymer Degradation and Stability</i> , 1988, 21, 251-262.	2.7	14
51	Spectroscopic properties and mechanistic action of a new p-hydroxybenzoate light stabiliser: A comparative study in polypropylene and high density polyethylene and anti-oxidant interactions. <i>Polymer Degradation and Stability</i> , 1984, 7, 153-174.	2.7	13
52	Effect of metal stearate antacid on the melt stabilization performance of phenolic/phosphite antioxidants in metallocene LLDPE. Part 1: Melt processing stability. <i>Journal of Vinyl and Additive Technology</i> , 2004, 10, 137-143.	1.8	13
53	Role of phenol and phosphite antioxidant combinations in the thermal stabilisation of metallocene LLDPE (mLLDPE): Optimisation and performance and influence of metal stearates on multiple extrusions. <i>Polymer Degradation and Stability</i> , 2018, 152, 208-217.	2.7	13
54	Effect of metal stearate antacid on the melt stabilization performance of phenolic/phosphite antioxidants in metallocene LLDPE. Part 2: Discoloration. <i>Journal of Vinyl and Additive Technology</i> , 2004, 10, 144-148.	1.8	12

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55	Photo-Stabilisation and UV Blocking Efficacy of Coated Macro and Nano-Rutile Titanium Dioxide Particles in Paints and Coatings. <i>Journal of Polymers and the Environment</i> , 2018, 26, 4243-4257.	2.4	12
56	Effect of additive interactions on the thermo-oxidative stabilization of a film grade metallocene LLDPE. <i>Journal of Vinyl and Additive Technology</i> , 2004, 10, 149-156.	1.8	11
57	Synthesis, Characterization and Properties of a Novel Environmentally Friendly Mono Azo Disperse Dye and Its Application on Polyethylene Terephthalate (PET). <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 351-354.	0.8	11
58	Photocatalytic Coatings For Environmental Applications. <i>Photochemistry and Photobiology</i> , 2004, 81, 279-90.	1.3	11
59	Photooxidation and stabilisation of mixed acid dyed nylon 6,6 film and fibres: influence of thermal history, delustrant and relationship with luminescent species. <i>Polymer Degradation and Stability</i> , 1992, 38, 95-105.	2.7	10
60	Interfacial Interactions in Polymer-Layered Silicate Nanocomposites. <i>Langmuir</i> , 2008, 24, 1943-1951.	1.6	10
61	Color inhibition of phenolic antioxidants in Ziegler-Natta polyethylene. I. In-situ polymer studies. <i>Journal of Vinyl and Additive Technology</i> , 2009, 15, 12-19.	1.8	10
62	Characterisation and photocatalytic assessment of TiO ₂ nano-polymorphs: Influence of crystallite size and influence of thermal treatment on paint coatings and dye fading kinetics. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 126, 131-142.	1.9	10
63	Thermal and photo-chemical oxidation of poly(vinyl chloride): Implication of α,β -unsaturated carbonyl groups. <i>Polymer Degradation and Stability</i> , 1985, 13, 277-285.	2.7	9
64	Optimization of additive packages for processing and long-term thermal stabilization of film grade high-density polyethylene. <i>Journal of Vinyl and Additive Technology</i> , 2002, 8, 103-117.	1.8	9
65	Factors Effecting the Performance of Montmorillonite/Magnesium Hydroxide/Poly(propylene) Ternary Composites, 1. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 114-122.	1.7	9
66	The synthesis of high-content fullerene functionalised polymers through the controlled addition of an amine-tagged fullerene derivative. <i>New Journal of Chemistry</i> , 2008, 32, 1373.	1.4	9
67	Luminescence from poly(p-xylylene). <i>Die Makromolekulare Chemie Rapid Communications</i> , 1980, 1, 17-21.	1.1	8
68	Photochemistry and photopolymerization activity of monomers and copolymers of 2-substituted amidoanthraquinone and acryloxanthraquinone with methyl methacrylate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997, 109, 71-75.	2.0	8
69	Synthesis of dibutyl tin di [(3-thiopropyl) trimethoxysilane and its evaluation as thermal stabilizer for PVC. <i>Polymer Degradation and Stability</i> , 1999, 63, 359-363.	2.7	8
70	Additive interactions in the stabilization of film grade high-density polyethylene. Part II: Stabilization during long-term service. <i>Journal of Vinyl and Additive Technology</i> , 2002, 8, 90-102.	1.8	8
71	Influence of Titanium Dioxide Pigments on Thermal and Photochemical Oxidation and Stabilization of Polyolefin Films. <i>Advances in Chemistry Series</i> , 1996, , 537-554.	0.6	7
72	A kinetic investigation into the effect of stabilisers on the photo-oxidation of water based silica acrylic-based coatings. <i>Polymer Degradation and Stability</i> , 2000, 69, 143-156.	2.7	7

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73	Use of microwave dielectric loss for characterisation of natural rubber/carbon black composites. <i>Polymer Bulletin</i> , 2000, 44, 187-194.	1.7	7
74	Photodegradation Processes In Polymeric Materials. , 0, , 569-601.		7
75	Research perspectives on the photocatalytic activity of titanium dioxide: Catalytic assessment methods in solution and solid-state in relation to particle surface activity. <i>Polymer Degradation and Stability</i> , 2021, 190, 109624.	2.7	7
76	Structure Development and Interfacial Interactions in Flexible Polyurethane Foam-Layered Silicate Nanocomposites. <i>Composite Interfaces</i> , 2010, 17, 423-436.	1.3	6
77	Effects of polymerization catalyst technology on the melt processing stability of polyethylenes. part 2. single stabilizer performance. <i>Journal of Vinyl and Additive Technology</i> , 2012, 18, 26-39.	1.8	6
78	Photocatalytic Coatings for Environmental Applications^{Â¶â€}. <i>Photochemistry and Photobiology</i> , 2005, 81, 279-290.	1.3	5
79	Color inhibition of phenolic antioxidants in Ziegler-Natta polyethylene. II. In-situ solution studies. <i>Journal of Vinyl and Additive Technology</i> , 2009, 15, 234-243.	1.8	5
80	Effects of type of polymerization catalyst system on the degradation of polyethylenes in the melt state. Part 1: Unstabilized polyethylenes (including metallocene types). <i>Journal of Vinyl and Additive Technology</i> , 2011, 17, 28-39.	1.8	5
81	Highâ€temperature stabilization of polypropylene using hindered phenolâ€thioester stabilizer combinations, Part 2: Optimization and efficacy via encapsulation with silicate fillers. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 389-409.	1.8	5
82	Photostabilization of styreneâ€ethyleneâ€butyleneâ€styrene block copolymer by hindered phenol and phosphite antioxidants. <i>Journal of Vinyl and Additive Technology</i> , 2006, 12, 2-7.	1.8	4
83	Comparative evaluation of the efficiency of a series of commercial antioxidants studied by kinetic modeling in a liquid phase and during the melt processing of different polyethylenes. <i>Journal of Vinyl and Additive Technology</i> , 2010, 16, 1-14.	1.8	4
84	Photostabilisation of Polymer Materials. , 0, , 627-679.		4
85	Photochromic Polymers for Optical Data Storage: Azobenzenes and Photodimers. , 0, , 209-234.		4
86	Effect of polymerization catalyst technology on the melt processing stability of polyethylenes, Part 3: Additives blends performance. <i>Journal of Vinyl and Additive Technology</i> , 2016, 22, 117-127.	1.8	4
87	Highâ€temperature stabilization of polypropylene using hindered phenolâ€thioester stabilizer combinations, Part 1: Optimization and efficacy via nondust blends. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 376-388.	1.8	4
88	Light stability and spectroscopic properties of an ethene-propene-diene terpolymer. <i>Die Makromolekulare Chemie</i> , 1978, 179, 2103-2108.	1.1	3
89	Photochemistry and Photopolymerization Activity of Water-Soluble Benzophenone Initiators. <i>ACS Symposium Series</i> , 1990, , 72-81.	0.5	3
90	Synergistic profiles of chain-breaking antioxidants with phosphites and hindered amine light stabilizers in styreneâ€ethyleneâ€butadieneâ€styrene (SEBS) block copolymer. <i>Journal of Vinyl and Additive Technology</i> , 2006, 12, 8-13.	1.8	3

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91	Lightfastness and flash photolysis of hydroxyanthraquinones. Journal of Chemical Technology and Biotechnology, 1979, 29, 119-121.	0.2	3
92	Effect of hindered piperidine light stabilizer molecular structure and UV absorber addition on the oxidation of HDPE. Part 2: Mechanistic aspects?molecular modeling and electron spin resonance spectroscopy study. Journal of Vinyl and Additive Technology, 2004, 10, 159-167.	1.8	2
93	Alkali-clearing process optimization of the newly synthesized disperse dye and its promising removal from wastewater using electrocoagulation. Desalination and Water Treatment, 0, , 1-11.	1.0	2
94	A perspective on alloy effects between polymer additives in the development of nondust blends: A DSC and spectroscopic evaluation. Journal of Vinyl and Additive Technology, 0, , .	1.8	2
95	Photooxidative Stability and Photoyellowing of Electron-Beam- and UV-Cured Multifunctional Amine-Terminated Diacrylates. ACS Symposium Series, 1990, , 346-360.	0.5	1
96	Photochemistry and photopolymerisation of substituted 2-methylantraquinones and novel 2-acryloxymethylantraquinone in radiation curing. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 356, 530-544.	2.0	1
97	Research perspectives and further studies on catalyst effects on the stability of different polyethylenes during multiple extrusion: Interrelationship of oxidation chemistry and antioxidant activity. Journal of Vinyl and Additive Technology, 0, , .	1.8	1
98	Optimization of the ultraviolet "visible absorption properties of nano-particle TiO 2 : Influence of milling, surface area and surfactants on particle size distribution, and stability of isocyanate/acrylic paints. Journal of Vinyl and Additive Technology, 0, , .	1.8	1
99	Properties, chemistry, and mode of action of antioxidants in thermoplastics and rubbers: Recent developments. Journal of Vinyl and Additive Technology, 2022, 28, 251-253.	1.8	1
100	Chemiluminescence Processes in Polymeric Materials. , 0, , 93-135.		0
101	Metallo dendrimers: Photophysical Properties and Related Applications. , 0, , 185-207.		0
102	Optical and Luminescence Properties and Applications of Metal Complex-Based Polymers. , 0, , 235-270.		0