

Anthony Andrady

List of Publications by Year in descending order

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98
papers

24,201
citations

66250

44
h-index

43601

95
g-index

147
all docs

147
docs citations

147
times ranked

20129
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated degradation of low-density polyethylene in air and in sea water. <i>Science of the Total Environment</i> , 2022, 811, 151368.	3.9	25
2	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 275-301.	1.6	40
3	Weathering and fragmentation of plastic debris in the ocean environment. <i>Marine Pollution Bulletin</i> , 2022, 180, 113761.	2.3	40
4	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1-67.	1.6	93
5	Microplastic pollution in Marine Protected Areas of Southern Sri Lanka. <i>Marine Pollution Bulletin</i> , 2021, 168, 112462.	2.3	24
6	A One Health perspective of the impacts of microplastics on animal, human and environmental health. <i>Science of the Total Environment</i> , 2021, 777, 146094.	3.9	130
7	The success of the Montreal Protocol in mitigating interactive effects of stratospheric ozone depletion and climate change on the environment. <i>Global Change Biology</i> , 2021, 27, 5681-5683.	4.2	9
8	Direct ingestion, trophic transfer, and physiological effects of microplastics in the early life stages of <i>Centropristis striata</i> , a commercially and recreationally valuable fishery species. <i>Environmental Pollution</i> , 2021, 285, 117653.	3.7	32
9	Importance of seasonal sea ice in the western Arctic ocean to the Arctic and global microplastic budgets. <i>Journal of Hazardous Materials</i> , 2021, 418, 125971.	6.5	34
10	Microplastics as Pollutants in the Marine Environment. , 2021, , 373-399.		3
11	Profiling the Vertical Transport of Microplastics in the West Pacific Ocean and the East Indian Ocean with a Novel in Situ Filtration Technique. <i>Environmental Science & Technology</i> , 2020, 54, 12979-12988.	4.6	60
12	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 542-584.	1.6	59
13	Trophic transfer of microplastics in an estuarine food chain and the effects of a sorbed legacy pollutant. <i>Limnology and Oceanography Letters</i> , 2020, 5, 154-162.	1.6	100
14	Future scenarios of global plastic waste generation and disposal. <i>Palgrave Communications</i> , 2019, 5, .	4.7	1,127
15	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , 2019, 2, 569-579.	11.5	156
16	Interactive effects of solar UV radiation and climate change on material damage. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 804-825.	1.6	71
17	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 127-179.	1.6	177
18	Weatherability of conventional composites and nanocomposites of <sc>PVC</sc> and rutile titanium dioxide. <i>Polymer Composites</i> , 2018, 39, 2135-2141.	2.3	5

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19	Evidence of microplastics pollution in coastal beaches and waters in southern Sri Lanka. <i>Marine Pollution Bulletin</i> , 2018, 137, 277-284.	2.3	78
20	Weatherability of conventional and nanocomposites of LDPE and Zinc Oxide. <i>Polymer Composites</i> , 2017, 38, 341-348.	2.3	4
21	The plastic in microplastics: A review. <i>Marine Pollution Bulletin</i> , 2017, 119, 12-22.	2.3	1,324
22	River plastic emissions to the world's oceans. <i>Nature Communications</i> , 2017, 8, 15611.	5.8	2,274
23	Additives and Chemicals in Plastics. <i>Handbook of Environmental Chemistry</i> , 2016, , 1-17.	0.2	19
24	Plastic waste inputs from land into the ocean. <i>Science</i> , 2015, 347, 768-771.	6.0	7,686
25	Persistence of Plastic Litter in the Oceans. , 2015, , 57-72.		204
26	Accelerated Weatherability of the Low-Density Polyethylene Nanocomposites with Silica, Clay, and Zinc Oxide. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-5.	1.5	3
27	Release characteristics of selected carbon nanotube polymer composites. <i>Carbon</i> , 2014, 68, 33-57.	5.4	216
28	Consequences of stratospheric ozone depletion and climate change on the use of materials. <i>Photochemical and Photobiological Sciences</i> , 2014, 14, 170-184.	1.6	31
29	Chemical sensing using electrospun polymer/carbon nanotube composite nanofibers with printed-on electrodes. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 52-55.	4.0	33
30	Durability of LDPE Nanocomposites with Clay, Silica, and Zinc Oxide—Part I: Mechanical Properties of the Nanocomposite Materials. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	16
31	Durability of LDPE nanocomposites with clay, silica, and zinc oxide II. weatherability of the nanocomposites. <i>Polymer Composites</i> , 2013, 34, 1878-1883.	2.3	12
32	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2011. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 13-27.	1.6	47
33	Effects of solar UV and climate change on materials. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 292-300.	1.6	81
34	Microplastics in the marine environment. <i>Marine Pollution Bulletin</i> , 2011, 62, 1596-1605.	2.3	5,005
35	Environmental effects of ozone depletion and its interactions with climate change: progress report, 2009. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 275-294.	1.6	47
36	Applications and societal benefits of plastics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 1977-1984.	1.8	1,381

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37	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2008. Photochemical and Photobiological Sciences, 2009, 8, 13-22.	1.6	27
38	Composite Tissue Engineering on Polycaprolactone Nanofiber Scaffolds. Annals of Plastic Surgery, 2009, 62, 505-512.	0.5	69
39	Biodegradability of Polymers. , 2007, , 951-964.		7
40	Effects of stratospheric ozone depletion and climate change on materials damage. Photochemical and Photobiological Sciences, 2007, 6, 311.	1.6	13
41	Ultraviolet Radiation and Polymers. , 2007, , 857-866.		13
42	Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2004. Photochemical and Photobiological Sciences, 2005, 4, 177.	1.6	15
43	Effect of Particle Size on Gas Permeability of Filled Superglassy Polymers. Macromolecules, 2004, 37, 4329-4331.	2.2	51
44	Investigation of Enhanced Free Volume in Nanosilica-Filled Poly(1-trimethylsilyl-1-propyne) by ¹²⁹ Xe NMR Spectroscopy. Macromolecules, 2003, 36, 353-358.	2.2	48
45	Effects of climate change and UV-B on materials This article is published as part of the United Nations Environmental Programme: Environmental effects of ozone depletion and its interactions with climate change: 2002 assessment.. Photochemical and Photobiological Sciences, 2003, 2, 68.	1.6	110
46	Rheology of concentrated solutions of hyperbranched polyesters. Polymer Engineering and Science, 2002, 42, 2065-2071.	1.5	5
47	Solution Rheology of Hyperbranched Polyesters and Their Blends with Linear Polymers. Macromolecules, 2000, 33, 1720-1726.	2.2	120
48	The Martian and extraterrestrial UV radiation environmentâ€™1. Biological and closed-loop ecosystem considerations. Acta Astronautica, 1999, 44, 53-62.	1.7	26
49	Photoyellowing of mechanical pulps III. Intensity effects and doseâ€™response relationships. Polymer Degradation and Stability, 1999, 66, 317-322.	2.7	18
50	Aerobic mineralization of paperboard materials used in packaging applications. Journal of Applied Polymer Science, 1999, 74, 1773-1779.	1.3	4
51	¹²⁹ Xe NMR Investigation of the Free Volume in Dendritic and Cross-Linked Polymers. Macromolecules, 1999, 32, 1897-1903.	2.2	27
52	Mechanical properties of blends of PAMAM dendrimers with poly(vinyl chloride) and poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	2.5	26
53	Effects of increased solar ultraviolet radiation on materials. Journal of Photochemistry and Photobiology B: Biology, 1998, 46, 96-103.	1.7	294
54	Biodegradation of Plastics: Monitoring what Happens. Polymer Science and Technology, 1998, , 32-40.	0.1	7

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55	Wavelength sensitivity in polymer photodegradation. <i>Advances in Polymer Science</i> , 1997, , 47-94.	0.4	74
56	Elastic behavior of chitosan films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 517-521.	2.4	28
57	Wavelength sensitivity of enhanced photodegradable polyethylenes, ECO, and LDPE/MX. <i>Journal of Applied Polymer Science</i> , 1996, 62, 1457-1463.	1.3	23
58	Spectral sensitivity of chitosan photodegradation. <i>Journal of Applied Polymer Science</i> , 1996, 62, 1465-1471.	1.3	77
59	Assessment of Environmental Biodegradation of Synthetic Polymers. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1994, 34, 25-76.	2.2	122
60	Studies on enhanced degradable plastics. III. The effect of weathering of polyethylene and (ethylene-carbon monoxide) copolymers on moisture and carbon dioxide permeability. <i>Journal of Polymers and the Environment</i> , 1994, 2, 161-167.	0.8	13
61	Studies on enhanced degradable plastics. II. Weathering of enhanced photodegradable polyethylenes under marine and freshwater floating exposure. <i>Journal of Polymers and the Environment</i> , 1993, 1, 117-126.	0.8	65
62	Studies on enhanced degradable plastics: 1. The geographic variability in outdoor lifetimes of enhanced photodegradable polyethylenes. <i>Journal of Polymers and the Environment</i> , 1993, 1, 31-43.	0.8	33
63	Changes in carbonyl index and average molecular weight on embrittlement of enhanced-photodegradable polyethylenes. <i>Journal of Polymers and the Environment</i> , 1993, 1, 171-179.	0.8	70
64	GAS PERMEABILITY MEASUREMENTS ON ASPHALT USIHO THE ELECTRODTNAMIC BALANCE. <i>Petroleum Science and Technology</i> , 1992, 10, 1033-1057.	0.2	0
65	Effects of dangling chains on some dynamic mechanical properties of model poly(dimethylsiloxane) networks. <i>Polymer Bulletin</i> , 1992, 28, 103-108.	1.7	11
66	Wavelength sensitivity of unstabilized and UV stabilized polycarbonate to solar simulated radiation. <i>Polymer Degradation and Stability</i> , 1992, 35, 235-247.	2.7	69
67	Permeability of vitamin B-12 in chitosan membranes. Effect of crosslinking and blending with poly(vinyl alcohol) on permeability. <i>Journal of Applied Polymer Science</i> , 1992, 44, 17-28.	1.3	148
68	Thermogravimetric determination of starch content in starch-polyethylene blend films. <i>Journal of Applied Polymer Science</i> , 1992, 45, 1881-1887.	1.3	15
69	Burst testing of condoms. I. Basic features of the force-deformation curve of latex-rubber condoms. <i>Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials</i> , 1992, 3, 117-122.	1.1	2
70	Fouling of floating plastic debris under Biscayne Bay exposure conditions. <i>Marine Pollution Bulletin</i> , 1991, 22, 608-613.	2.3	265
71	Weathering of polystyrene foam on exposure in air and in seawater. <i>Journal of Applied Polymer Science</i> , 1991, 42, 1589-1596.	1.3	14
72	Spectral sensitivity of polycarbonate to light-induced yellowing. <i>Journal of Applied Polymer Science</i> , 1991, 42, 2105-2107.	1.3	32

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73	Some dynamic mechanical properties of unimodal and bimodal networks of poly(dimethylsiloxane). <i>Polymer Bulletin</i> , 1991, 26, 357-362.	1.7	27
74	Dynamic mechanical relaxations in swollen elastin networks. <i>Polymer Bulletin</i> , 1991, 27, 227-234.	1.7	6
75	Weathering of polyethylene (LDPE) and enhanced photodegradable polyethylene in the marine environment. <i>Journal of Applied Polymer Science</i> , 1990, 39, 363-370.	1.3	63
76	Photodegradation of rigid PVC formulations. III. Wavelength sensitivity of the photo-yellowing reaction in processed PVC formulations. <i>Journal of Applied Polymer Science</i> , 1990, 39, 763-766.	1.3	15
77	Dynamic-mechanical losses in elastin networks swollen with glycols of various lengths. <i>Die Makromolekulare Chemie</i> , 1989, 190, 1187-1193.	1.1	1
78	Photodegradation of rigid PVC formulations. I. Wavelength sensitivity to light-induced yellowing by monochromatic light. <i>Journal of Applied Polymer Science</i> , 1989, 37, 935-946.	1.3	47
79	Photodegradation of rigid PVC formulations. II. Spectral sensitivity to light-induced yellowing by polychromatic light. <i>Journal of Applied Polymer Science</i> , 1989, 37, 2789-2802.	1.3	52
80	Outdoor weathering of selected polymeric materials under marine exposure conditions. <i>Polymer Degradation and Stability</i> , 1989, 26, 333-345.	2.7	100
81	Estimation of Rates of Drug Diffusion in Polymers. <i>ACS Symposium Series</i> , 1987, , 49-70.	0.5	10
82	Elasticity of model poly(oxypropylene) networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987, 25, 195-204.	2.4	7
83	Stress-optical properties of poly(oxypropylene) networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987, 25, 1935-1948.	2.4	1
84	Light stabilization of polymers using opaque pigments. <i>Journal of Applied Polymer Science</i> , 1987, 33, 1389-1395.	1.3	11
85	Protection of polymers from degradation by ultraviolet light: Compensation for increased UV light intensity by increased UV absorber concentration. <i>Journal of Applied Polymer Science</i> , 1987, 33, 2249-2252.	1.3	5
86	Mechanical and gas transport properties of poly- $\hat{\mu}$ -caprolactone model networks. <i>Journal of Applied Polymer Science</i> , 1984, 29, 3561-3568.	1.3	11
87	Transport of hydrogen and carbon monoxide in highly crosslinked poly(propylene glycol) networks. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1984, 22, 237-243.	1.0	18
88	Glass transition in poly(propylene glycol) networks. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1983, 21, 2453-2463.	1.0	40
89	Model Networks of End-Linked Polydimethylsiloxane Chains. X. Bimodal Networks Prepared in Two-Stage Reactions Designed to Give High Spatial Heterogeneity. <i>Rubber Chemistry and Technology</i> , 1981, 54, 366-373.	0.6	40
90	Model networks of end-linked polydimethylsiloxane chains. XII. Dependence of ultimate properties on dangling-chain irregularities. <i>Journal of Applied Polymer Science</i> , 1981, 26, 1829-1836.	1.3	64

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91	Unperturbed dimensions of some aryloxy polyphosphazenes. <i>European Polymer Journal</i> , 1981, 17, 323-326.	2.6	17
92	Model networks of end-linked polydimethylsiloxane chains. <i>Colloid and Polymer Science</i> , 1981, 259, 1056-1061.	1.0	33
93	Model networks of end-linked polydimethylsiloxane chains. XI. Use of very short network chains to improve ultimate properties. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1981, 19, 621-630.	1.0	124
94	Chemical analysis of vinyl-crosslinked poly(dimethylsiloxane) model networks and use of the resulting structural information in the interpretation of their elastomeric properties. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1980, 18, 2263-2270.	1.0	51
95	Thermoelasticity of swollen elastin networks at constant composition. <i>Biopolymers</i> , 1980, 19, 849-855.	1.2	46
96	Significance of Network Chain-Length Distribution in Chemical Stress Relaxation Studies. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1980, 14, 1197-1207.	0.4	1
97	Model networks of end-linked polydimethylsiloxane chains. IX. Gaussian, non-Gaussian, and ultimate properties of the trifunctional networks. <i>Journal of Chemical Physics</i> , 1980, 73, 1439-1445.	1.2	51
98	Model networks of end-linked polydimethylsiloxane chains. VII. Networks designed to demonstrate non-Gaussian effects related to limited chain extensibility. <i>Journal of Chemical Physics</i> , 1980, 72, 2282-2290.	1.2	127