

# Sabrina Carroccio

## List of Publications by Year in descending order

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63  
papers

2,003  
citations

186265  
28  
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254184  
43  
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66  
all docs

66  
docs citations

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times ranked

2092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preferential removal of pesticides from water by molecular imprinting on TiO <sub>2</sub> photocatalysts. <i>Chemical Engineering Journal</i> , 2020, 379, 122309.	12.7	124
2	Molecularly imprinted polymer for selective adsorption of diclofenac from contaminated water. <i>Chemical Engineering Journal</i> , 2019, 367, 180-188.	12.7	119
3	Thermal degradation of poly(ethylene oxide- <i>b</i> -propylene oxide- <i>b</i> -ethylene oxide) triblock copolymer: comparative study by SEC/NMR, SEC/MALDI-TOF-MS and SPME/GC-MS. <i>Polymer</i> , 2002, 43, 1081-1094.	3.8	95
4	Properties of Biodegradable Films Based on Poly(butylene Succinate) (PBS) and Poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	4.5	95
5	Modern mass spectrometry in the characterization and degradation of biodegradable polymers. <i>Analytica Chimica Acta</i> , 2014, 808, 18-43.	5.4	73
6	MALDI-TOF Investigation of Polymer Degradation. Pyrolysis of Poly(bisphenol A carbonate). <i>Macromolecules</i> , 1999, 32, 8821-8828.	4.8	72
7	Thermal and thermoxidative degradation processes in poly(bisphenol a carbonate). <i>Journal of Analytical and Applied Pyrolysis</i> , 2002, 64, 229-247.	5.5	61
8	Heat-Resistant Fully Bio-Based Nanocomposite Blends Based on Poly(lactic acid). <i>Macromolecular Materials and Engineering</i> , 2014, 299, 31-40.	3.6	60
9	Mechanisms of Thermal Oxidation of Poly(bisphenol A carbonate). <i>Macromolecules</i> , 2002, 35, 4297-4305.	4.8	59
10	Oxidant-Dependent REDOX Responsiveness of Polysulfides. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2052-2061.	2.2	57
11	Thermal degradation mechanisms of polyetherimide investigated by direct pyrolysis mass spectrometry. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 2345-2355.	2.2	56
12	Thermo-oxidative processes in biodegradable poly(butylene succinate). <i>Polymer Degradation and Stability</i> , 2009, 94, 1825-1838.	5.8	54
13	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state - Part I: Thermal and thermo-oxidative degradation of polyamide 11. <i>Polymer</i> , 2015, 72, 134-141.	3.8	54
14	Active Light-Powered Antibiofilm ZnO Micromotors with Chemically Programmable Properties. <i>Advanced Functional Materials</i> , 2021, 31, 2101178.	14.9	52
15	MALDI Investigation of Photooxidation in Aliphatic Polyesters: Poly(butylene succinate). <i>Macromolecules</i> , 2004, 37, 6576-6586.	4.8	49
16	Î±-Tocopherol-induced radical scavenging activity in carbon nanotubes for thermo-oxidation resistant ultra-high molecular weight polyethylene-based nanocomposites. <i>Carbon</i> , 2014, 74, 14-21.	10.3	48
17	ZnO- <i>b</i> -HEMA Nanocomposites: An Ecofriendly and Reusable Material for Water Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40100-40110.	8.0	47
18	Thermal oxidation of poly(bisphenol A carbonate) investigated by SEC/MALDI. <i>Polymer Degradation and Stability</i> , 2002, 77, 137-146.	5.8	43

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19	Smart nanocomposites of chitosan/alginate nanoparticles loaded with copper oxide as alternative nanofertilizers. <i>Environmental Science: Nano</i> , 2021, 8, 174-187.	4.3	41
20	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state " Part II: Thermal and thermo-oxidative degradation of polyamide 11/organo-clay nanocomposites. <i>Polymer</i> , 2015, 73, 102-110.	3.8	38
21	Shape-Controlled Self-Assembly of Light-Powered Microrobots into Ordered Microchains for Cells Transport and Water Remediation. <i>ACS Nano</i> , 2022, 16, 7615-7625.	14.6	38
22	Multi-functional hindered amine light stabilizers-functionalized carbon nanotubes for advanced ultra-high molecular weight Polyethylene-based nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 82, 196-204.	12.0	37
23	Thermo-oxidative resistant nanocomposites containing novel hybrid-nanoparticles based on natural polyphenol and carbon nanotubes. <i>Polymer Degradation and Stability</i> , 2015, 115, 129-137.	5.8	36
24	Matrix-assisted laser desorption/ionisation time-of-flight characterisation of biodegradable aliphatic copolyesters. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1513-1522.	1.5	35
25	Freestanding photocatalytic materials based on 3D graphene and polyporphyrins. <i>Scientific Reports</i> , 2018, 8, 5001.	3.3	34
26	MALDI Investigation of the Photooxidation of Nylon-66. <i>Macromolecules</i> , 2004, 37, 6037-6049.	4.8	33
27	Current Trends in Matrix-Assisted Laser Desorption/Ionization of Polymeric Materials. <i>European Journal of Mass Spectrometry</i> , 2005, 11, 1-14.	1.0	29
28	New Vistas in the Photo-Oxidation of Nylon 6. <i>Macromolecules</i> , 2003, 36, 7499-7507.	4.8	28
29	Influence of the Preparation Method and Photo-Oxidation Treatment on the Thermal and Gas Transport Properties of Dense Films Based on a Poly(ether-block-amide) Copolymer. <i>Materials</i> , 2018, 11, 1326.	2.9	28
30	Light-Propelled Nanorobots for Facial Titanium Implants Biofilms Removal. <i>Small</i> , 2022, 18, e2200708.	10.0	26
31	Halloysite nanotubes and thymol as photo protectors of biobased polyamide 11. <i>Polymer Degradation and Stability</i> , 2018, 152, 43-51.	5.8	25
32	New Vistas in Polymer Degradation. Thermal Oxidation Processes in Poly(ether imide). <i>Macromolecules</i> , 2005, 38, 6849-6862.	4.8	21
33	Analysis of poly(bisphenol A carbonate) by size exclusion chromatography/matrix-assisted laser desorption/ionization. 2. Self-association due to phenol end groups. , 1999, 13, 2268-2277.		20
34	Functionalization of aliphatic polyesters by nitroxide radical coupling. <i>Polymer Chemistry</i> , 2014, 5, 5656.	3.9	20
35	Photo-oxidation products of polyetherimide ULTEM determined by MALDI-TOF-MS. Kinetics and mechanisms. <i>Polymer Degradation and Stability</i> , 2003, 80, 459-476.	5.8	19
36	Multi-functional polyhedral oligomeric silsesquioxane-functionalized carbon nanotubes for photo-oxidative stable Ultra-High Molecular Weight Polyethylene-based nanocomposites. <i>European Polymer Journal</i> , 2016, 75, 525-537.	5.4	19

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37	Hybrid nickel-free graphene/porphyrin rings for photodegradation of emerging pollutants in water. RSC Advances, 2019, 9, 30182-30194.	3.6	17
38	Recent Advances in MALDI Mass Spectrometry of Polymers. Macromolecular Symposia, 2001, 169, 101-112.	0.7	16
39	Advanced ultra-high molecular weight polyethylene/antioxidant- $\epsilon$ -functionalized carbon nanotubes nanocomposites with improved thermo-oxidative resistance. Journal of Applied Polymer Science, 2015, 132, .	2.6	16
40	Thermo-mechanical, antimicrobial and biocompatible properties of PVC blends based on imidazolium ionic liquids. Materials Science and Engineering C, 2021, 122, 111920.	7.3	15
41	Preparation of poly(glycolide-co-lactide)s through a green process: Analysis of structural, thermal, and barrier properties. Reactive and Functional Polymers, 2016, 109, 70-78.	4.1	14
42	Recycled (Bio)Plastics and (Bio)Plastic Composites: A Trade Opportunity in a Green Future. Polymers, 2022, 14, 2038.	4.5	14
43	Comparison of Photooxidation and Thermal Oxidation Processes in Poly(ether imide). Macromolecules, 2005, 38, 6863-6870.	4.8	13
44	Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Investigation of Nylon 6 and Nylon 66 Thermo-Oxidation Products. European Journal of Mass Spectrometry, 2007, 13, 397-408.	1.0	13
45	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. Polymer International, 2016, 65, 48-56.	3.1	13
46	Synthesis of the ferrocenyl analogue of clotrimazole drug. Journal of Organometallic Chemistry, 2017, 830, 56-61.	1.8	13
47	Grafting of Hindered Phenol Groups onto Ethylene/ $\alpha$ -Olefin Copolymer by Nitroxide Radical Coupling. Polymers, 2017, 9, 670.	4.5	13
48	N-methyl-D-glucamine based cryogels as reusable sponges to enhance heavy metals removal from water. Chemical Engineering Journal, 2020, 399, 125753.	12.7	13
49	Heterogenized Imidazolium-Based Ionic Liquids in Pebax <sup>®</sup> New. Thermal, Gas Transport and Antimicrobial Properties. Polymers, 2020, 12, 1419.	4.5	9
50	Superparamagnetic Iron Oxide Nanoparticle Nanodevices Based on Fe <sub>3</sub> O <sub>4</sub> Coated by Megluminic Ligands for the Adsorption of Metal Anions from Water. ACS Omega, 2022, 7, 10775-10788.	3.5	9
51	Carbon nanotubes-based nanohybrids for multifunctional nanocomposites. Journal of King Saud University - Science, 2017, 29, 502-509.	3.5	8
52	A Snapshot of Thermo-oxidative Degradation Products in Poly(bisphenol A carbonate) by Electrospray Ionization Mass Spectrometry and Matrix-Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry. Macromolecular Chemistry and Physics, 2011, 212, 2648-2666.	2.2	7
53	Polymeric platform for the growth of chemically anchored ZnO nanostructures by ALD. RSC Advances, 2018, 8, 521-530.	3.6	7
54	Innovative Polymeric Hybrid Nanocomposites for Application in Photocatalysis. Polymers, 2021, 13, 1184.	4.5	7

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55	Autonomous self-propelled MnO <sub>2</sub> micromotors for hormones removal and degradation. <i>Applied Materials Today</i> , 2022, 26, 101312.	4.3	7
56	Using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the characterization of functionalized carbon nanotubes. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1359-1366.	1.5	6
57	End-group rearrangements in poly(propylene sulfide) matrix-assisted laser desorption/ionization time-of-flight analysis. Experimental evidence and possible mechanisms. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2158-2164.	1.5	4
58	Immobilization of natural anti-oxidants on carbon nanotubes and aging behavior of ultra-high molecular weight polyethylene-based nanocomposites. , 2014, , .		4
59	The role of solvent on the formulation of graphene/polyporphyrin hybrid material versus photocatalytic activity. <i>Polymer Bulletin</i> , 2020, 77, 2073-2087.	3.3	4
60	Role of Organo-Modifier and Metal Impurities of Commercial Nanoclays in the Photo- and Thermo-Oxidation of Polyamide 11 Nanocomposites. <i>Polymers</i> , 2020, 12, 1034.	4.5	4
61	Preparation, characterization, and antimicrobial activity of ferrocene-containing polymeric materials. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49852.	2.6	4
62	Analysis of poly(bisphenol A carbonate) by size exclusion chromatography/matrix-assisted laser desorption/ionization. 1. End group and molar mass determination. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 2260-2267.	1.5	1
63	EVA Films Loaded with Layered Double Hydroxide (LDH) Modified with Methacrylic Anion: Effect of the Nanohybrid Filler on the Photodegradation Phenomena. <i>Polymers</i> , 2021, 13, 2525.	4.5	0