Antonino Pollicino

List of Publications by Year
in descending order

120 papers	2,131 citations	218677 26 h-index	315739 38 g-index
120 all docs	120 docs citations	120 times ranked	2053 citing authors

#	Article	IF	Citations
1	Green LSPR Sensors Based on Thin Bacterial Cellulose Waveguides for Disposable Biosensor Implementation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	4
2	Investigation on the Role of Ionic Liquids in the Output Signal Produced by Bacterial Cellulose-Based Mechanoelectrical Transducers. Sensors, 2021, 21, 1295.	3.8	5
3	A Green Deformation Sensor Based on Bacterial Cellulose and Bio-Derived Ionic Liquids. , 2021, , .		3
4	Functionalisable Epoxy-rich Electrospun Fibres Based on Renewable Terpene for Multi-Purpose Applications. Polymers, 2021, 13, 1804.	4.5	12
5	Conditioning of Bacterial Cellulose-based Motion Sensors. , 2021, , .		0
6	Investigation of Bacterial Cellulose-based Fractional Order Element behaviour. , 2021, , .		0
7	Towards Environmentally Friendly Accelerometers Based on Bacterial Cellulose. Applied Sciences (Switzerland), 2021, 11, 7903.	2.5	5
8	Performance Characterization of a Biodegradable Deformation Sensor Based on Bacterial Cellulose. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2561-2569.	4.7	33
9	A Generating All-Polymeric Touching Sensing System. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4545-4554.	4.7	7
10	Green Energy Harvester from Vibrations Based on Bacterial Cellulose. Sensors, 2020, 20, 136.	3.8	8
11	Green Fractional Order Elements Based on Bacterial Cellulose and Ionic Liquids. , 2020, , .		2
12	An LSPR Sensor based on a thin slab waveguide of bacterial cellulose. , 2020, , .		1
13	Green Nonlinear Energy Harvester from Vibrations based on Bacterial Cellulose. , 2020, , .		0
14	Geometrical and thermal influences on a bacterial cellulose based sensing element for acceleration measurements. Acta IMEKO (2012), 2020, 9, 151.	0.7	5
15	â€œGreenâ€•Sensors Based on Bacterial Cellulose. Lecture Notes in Electrical Engineering, 2020, , 301-304.	0.4	0
16	Geometrical Analysis of a Bacterial Cellulose-Based Sensing Element. , 2019, , .		1
17	Green Inertial Sensors based on Bacterial Cellulose. , 2019, , .		18
18	The evolution of ionic polymer metal composites towards greener transducers. IEEE Instrumentation and Measurement Magazine, 2019, 22, 30-35.	1.6	8

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19	Realization of green fractional order devices by using bacterial cellulose. AEU - International Journal of Electronics and Communications, 2019, 112, 152927.	2.9	19
20	A Bacterial Cellulose Based Mass Sensor. , 2019, , .		10
21	Low Cost Inkjet Printed Sensors: From Physical to Chemical Sensors. Lecture Notes in Electrical Engineering, 2019, , 297-308.	0.4	1
22	Direct Printing of a Multi-Layer Sensor on Pet Substrate for CO2 Detection. Energies, 2019, 12, 557.	3.1	13
23	Thermal, Mechanical and Electrical Investigation of Elastomer-Carbon Black Nanocomposite Piezoresistivity. Lecture Notes in Electrical Engineering, 2019, , 237-250.	0.4	0
24	An Eco-Friendly Disposable Plasmonic Sensor Based on Bacterial Cellulose and Gold. Sensors, 2019, 19, 4894.	3.8	16
25	â€œPaperâ€Based Sensor for Deformation Measurements. , 2019, , .		11
26	Extrinsic plasmonic optical fiber sensors based on POFs and bacterial cellulose slab waveguides. , 2019, , .		1
27	Carbon Black based capacitive Fractional Order Element towards a new electronic device. AEU - International Journal of Electronics and Communications, 2018, 84, 307-312.	2.9	38
28	Realization and characterization of carbon black based fractional order element. Microelectronics Journal, 2018, 82, 22-28.	2.0	23
29	Peptide Modified Electrospun Glycopolymer Fibers. Macromolecular Bioscience, 2017, 17, 1600327.	4.1	5
30	Properties of Polystyrene Clay Nanocomposites Prepared Using Two New Imidazolium Surfactants. Journal of Nanomaterials, 2017, 2017, 1-11.	2.7	10
31	Ionic polymer-metal composites (IPMCs) and ionic polymer-polymer composites (IP²Cs): Effects of electrode on mechanical, thermal and electromechanical behaviour. AIMS Materials Science, 2017, 4, 1062-1077.	1.4	6
32	Deposition of Plasmaâ€Polymerized Polyacrylic Acid Coatings by a Nonâ€Equilibrium Atmospheric Pressure Nanopulsed Plasma Jet. Plasma Processes and Polymers, 2016, 13, 375-386.	3.0	27
33	Study of an ionic polymer-metal composite based flowmeter. , 2016, , .		1
34	A new class of ionic electroactive polymers based on green synthesis. Sensors and Actuators A: Physical, 2016, 249, 32-44.	4.1	23
35	Coâ€Deposition of Plasmaâ€Polymerized Polyacrylic Acid and Silver Nanoparticles for the Production of Nanocomposite Coatings Using a Nonâ€Equilibrium Atmospheric Pressure Plasma Jet. Plasma Processes and Polymers, 2016, 13, 623-632.	3.0	27
36	Plasma Processing of Electrospun Liâ€Ion Battery Separators to Improve Electrolyte Uptake. Plasma Processes and Polymers, 2016, 13, 124-133.	3.0	18

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37	A vortex-shedding flowmeter based on IPMCs. Smart Materials and Structures, 2016, 25, 015011.	3.5	14
38	Electrospun Fibers Containing Bioâ€Based Ricinoleic Acid: Effect of Amount and Distribution of Ricinoleic Acid Unit on Antibacterial Properties. Macromolecular Materials and Engineering, 2015, 300, 1085-1095.	3.6	8
39	Ultrathin perfluoropolyether coatings for silicon wafers: a XPS study. Progress in Organic Coatings, 2015, 78, 480-487.	3.9	12
40	An Inkjet Printed CO2 Gas Sensor. Procedia Engineering, 2015, 120, 628-631.	1.2	38
41	<scp>PMMA</scp>/oâ€<scp>MMT</scp> nanocomposites obtained using thermally stable surfactants. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
42	An investigation of the structureâ€“property relationships in ionic polymer polymer composites (IP²Cs) manufactured by polymerizationin situof PEDOT/PSS on Nafion^{Â®}117. Smart Materials and Structures, 2014, 23, 035018.	3.5	19
43	Advantages of Surfaceâ€Initiated ATRP (SIâ€ATRP) for the Functionalization of Electrospun Materials. Macromolecular Rapid Communications, 2013, 34, 51-56.	3.9	32
44	Water resistance improvement of filter paper by a UV-grafting modification with a fluoromonomer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 418, 52-59.	4.7	23
45	Ionic electroactive polymer metal composites: Fabricating, modeling, and applications of postsilicon smart devices. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 699-734.	2.1	50
46	Ca₃(PO₄)₂â€incorporated poly(ethylene oxide)â€based nanocomposite electrolytes for lithium batteries. Part II. Interfacial properties investigated by XPS and a.c. impedance studies. Journal of Applied Polymer Science, 2012, 124, 3255-3263.	2.6	8
47	UV light-induced grafting of fluorinated monomer onto cellulose sheets. Cellulose, 2011, 18, 117-126.	4.9	25
48	A study on IP²C actuators using ethylene glycol or EmI-Tf as solvent. Smart Materials and Structures, 2011, 20, 045014.	3.5	20
49	Tridimensional ionic polymer metal composites: optimization of the manufacturing techniques. Smart Materials and Structures, 2010, 19, 055002.	3.5	21
50	Influence of montmorillonite nano-dispersion on polystyrene photo-oxidation. Polymer Degradation and Stability, 2009, 94, 369-374.	5.8	34
51	Surface-Initiated ATRP Modification of Tissue Culture Substrates: Poly(glycerol monomethacrylate) as an Antifouling Surface. Biomacromolecules, 2009, 10, 3130-3140.	5.4	41
52	New perfluoropolyether urethane methacrylates as surface modifiers: Effect of molecular weight and end group structure. Reactive and Functional Polymers, 2008, 68, 189-200.	4.1	53
53	Kinetic study of the thermal degradation of PS/MMT nanocomposites preparedwith imidazolium surfactants. Journal of Thermal Analysis and Calorimetry, 2008, 91, 681-686.	3.6	33
54	Study of the organicâ€“inorganic phase interactions in polyesterâ€“titania hybrids. Polymer, 2008, 49, 5215-5224.	3.8	23

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55	Surface and barrier properties of hybrid nanocomposites containing silica and PEO segments. Journal of Applied Polymer Science, 2007, 103, 4107-4115.	2.6	8
56	Thermochemical properties of copper forms of zeolite ZSM5 containing dimethylethylenediamine. Thermochimica Acta, 2007, 452, 13-19.	2.7	6
57	Surface modification of polyethylene for improving the adhesion of a highly fluorinated UV-cured coating. European Polymer Journal, 2007, 43, 3787-3794.	5.4	20
58	Thermochemical properties of composites of synthetic zeolite ZSM5 and silver iodide. Journal of Thermal Analysis and Calorimetry, 2006, 84, 721-726.	3.6	5
59	Kinetics of the isothermal degradation of model polymers containing ether, ketone and sulfone groups. Polymer Degradation and Stability, 2005, 87, 271-278.	5.8	32
60	Synthesis of functionalized polyhedral oligomeric silsesquioxane (POSS) macromers by microwave assisted 1,3-dipolar cycloaddition. Tetrahedron, 2005, 61, 7986-7993.	1.9	35
61	Surface properties of cationic ultraviolet-curable coatings containing a siloxane structure. Journal of Applied Polymer Science, 2004, 93, 584-589.	2.6	10
62	Reactive microspheres as active fillers for epoxy resins. Journal of Applied Polymer Science, 2004, 93, 2031-2044.	2.6	25
63	Chemical modifications, mechanical properties and surface photo-oxidation of films of polystyrene (PS). Polymer Testing, 2004, 23, 405-411.	4.8	48
64	A study on chemical modifications, mechanical properties and surface photo-oxidation of films of polystyrene (PS) stabilised by hindered amines (HAS). Polymer Testing, 2004, 23, 779-789.	4.8	20
65	Synthesis and Characterization of New Copoly(arylene ether)s Containing Naphthalene or Naphthalene/1,3,4-Oxadiazole Units. Polymer Bulletin, 2003, 51, 31-38.	3.3	1
66	Polystyrene-Clay Nanocomposites Prepared with Polymerizable Imidazolium Surfactants. Macromolecular Rapid Communications, 2003, 24, 1079-1084.	3.9	96
67	Fluorinated epoxides as surface modifying agents of UV-curable systems. Journal of Applied Polymer Science, 2003, 89, 1524-1529.	2.6	54
68	Evaluation of the influence of various (ether, ketone and sulfone) groups on the apparent activation energy values of polymer degradation. Polymer Degradation and Stability, 2003, 80, 333-338.	5.8	26
69	Fluorinated vinyl ethers as new surface agents in the photocationic polymerization of vinyl ether resins. Journal of Polymer Science Part A, 2003, 41, 2890-2897.	2.3	25
70	Effects of the structure on the properties of new poly(arylene ether sulfone)s containing naphthalene units. European Polymer Journal, 2003, 39, 2203-2208.	5.4	9
71	Synthesis and Characterization of an Epoxy Ended Poly(Ether Sulphone)/Poly(Ether Ether Sulfphone) Copolymer. Journal of Polymer Engineering, 2002, 22, .	1.4	2
72	Natural Ageing of Automotive Polymer Components: Characterisation of New and Used Poly(propylene) based Car Bumpers. Macromolecular Materials and Engineering, 2002, 287, 404.	3.6	25

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73	The isothermal degradation of some polyetherketones: a comparative kinetic study between long-term and short-term experiments. Polymer Degradation and Stability, 2002, 75, 465-471.	5.8	34
74	Determination of degradation apparent activation energy values of polymers. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 70, 63-73.	1.4	24
75	Synthesis and characterisation of new polyamides containing 6,6â€²-oxy or 6,6â€²-carbonyldiquinoline units. Polymer, 2001, 42, 3323-3332.	3.8	26
76	Effect of the structural parameters of a series of fluoromonoacrylates on the surface properties of cured films. Journal of Polymer Science Part A, 2001, 39, 4227-4235.	2.3	50
77	A Kinetic Study of the Thermal and Oxidative Degradations of a New Poly(arylene)ether Copolymer. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2001, 65, 373-380.	1.4	22
78	Kinetic study of the thermal degradation of some poly(arylenether)s containing naphthalene units. Polymer, 2000, 41, 959-964.	3.8	15
79	Synthesis and characterization of new poly(arylene ether 1,3,4-oxadiazole)s based on dihydroxynaphthalene isomers. Polymer Bulletin, 2000, 45, 345-350.	3.3	4
80	Kinetic study of the thermal and oxidative degradations of poly(arylenether)s containing quinoline units. Polymer, 1999, 40, 2719-2726.	3.8	13
81	Synthesis and characterization of new polyamides and copolyamides containing 6,6'-sulfonediquinoline units. Polymer Bulletin, 1999, 42, 519-526.	3.3	6
82	New fluorinated acrylic monomers for the surface modification of UV-curable systems. Journal of Polymer Science Part A, 1999, 37, 77-87.	2.3	67
83	Synthesis and characterization of novel poly(arylene ether)s containing 1,3,4-oxadiazole units. Macromolecular Rapid Communications, 1999, 20, 405-409.	3.9	18
84	Surface properties and adhesion of maleinized polyethylene films. Journal of Materials Science, 1998, 33, 1461-1464.	3.7	21
85	XPS Study on Surface Segregation in Poly(ethylene-iso/terephthalate)â^'Perfluoropolyether Block Copolymers. Macromolecules, 1998, 31, 7814-7819.	4.8	38
86	Paper preservation by poly(cyclohexene oxide) deposition - an XPS study. Macromolecular Rapid Communications, 1998, 19, 553-556.	3.9	1
87	Perfluoropolyether structures as surface modifying agents of UV-curable systems. Macromolecular Chemistry and Physics, 1998, 199, 1099-1105.	2.2	61
88	Surface photostabilization of polystyrene by Tinuvin 1577. Journal of Applied Polymer Science, 1998, 69, 1251-1256.	2.6	9
89	Synthesis and characterization of new poly(arylene ether)s based on dihydroxynaphthalene isomers. Polymer, 1998, 39, 3199-3203.	3.8	15
90	Synthesis and characterization of new polyamides containing 6,6â€²-methylenediquinoline units. Polymer, 1998, 39, 4949-4954.	3.8	9

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91	Paper preservation by poly(cyclohexene oxide) deposition â€“ an XPS study. Macromolecular Rapid Communications, 1998, 19, 553-556.	3.9	1
92	The preparation by a solid-solid interaction route of aromatic polyamide materials containing sulphone, ether and ketone linkages. Journal of Theoretical Biology, 1997, 50, 633-646.	1.7	3
93	Thermal behavior of some polyarylene ethers: A comparative study of the kinetics of degradation. Macromolecular Chemistry and Physics, 1997, 198, 1437-1454.	2.2	16
94	UV-curable systems containing perfluoropolyether structures: Synthesis and characterisation. Macromolecular Chemistry and Physics, 1997, 198, 1893-1907.	2.2	84
95	Properties of films obtained by UV-curing 4,4'-hexafluoroisopropylidenediphenoldihydroxyethylether diacrylate and its mixtures with the hydrogenated homologue. Journal of Applied Polymer Science, 1997, 63, 979-983.	2.6	20
96	Surface characterisation of collagen-based bioartificial polymeric materials. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 917-924.	3.5	12
97	New aromatic polyamide materials containing sulfone, ether and ketone linkages. Polymer, 1996, 37, 2877-2881.	3.8	28
98	Synthesis and properties of new poly(ether sulfone)amides. Journal of Polymer Science Part A, 1996, 34, 1305-1310.	2.3	10
99	High resolution XPS of recycled polyethylene. Polymer Degradation and Stability, 1996, 54, 85-88.	5.8	10
100	Leucopur EGM influence on the surface photooxidation of poly(ethylene terephthalate) and poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.8	7
101	Dehydro-thermally cross-linked collagen-poly(vinyl alcohol) blends: mechanical, biological and surface properties. Journal of Materials Science: Materials in Medicine, 1996, 7, 297-300.	3.6	10
102	Thermal stability of a novel poly(ether ether Ketone Ketone) (PK99). Polymer Engineering and Science, 1996, 36, 1782-1788.	3.1	30
103	Surface Properties of Networks Containing Fluorinated Acrylic Monomers. Polymers for Advanced Technologies, 1996, 7, 403-408.	3.2	2
104	X-ray photoelectron spectroscopy (XPS) and time-of-flight secondary ion mass spectrometry (ToF-SIMS) analysis of UV-exposed polystyrene. Macromolecular Chemistry and Physics, 1995, 196, 3695-3705.	2.2	8
105	ESCA surface study of polystyrene photodegradation accelerated by 2-(2-methoxy-5-methylphenyl)-2H-benzotriazole. Macromolecular Rapid Communications, 1995, 16, 799-806.	3.9	3
106	X-ray photoelectron spectroscopic study of poly[4,4â€²-isopropylidenebis(1,4-phenyleneoxyethylene) diacrylate] photocured in the presence of a fluorine containing monomer. Macromolecular Rapid Communications, 1995, 16, 807-812.	3.9	5
107	Synthesis and characterization of new poly(arylene)ethers containing heterocyclic unitsâ€”I. European Polymer Journal, 1995, 31, 35-38.	5.4	16
108	Synthesis and Properties of Aromatic Poly(Ether Sulfone)s and Poly(Etherketone)s Containing Naphthalene or Quinoline Units, and Methyl-Substituted Biphenyl-4,4â€²-Diols. Journal of Macromolecular Science - Pure and Applied Chemistry, 1995, 32, 1947-1955.	2.2	4

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109	Synthesis and characterization of new poly(arylene ether)s containing heterocyclic units. II.. Journal of Polymer Science Part A, 1995, 33, 843-847.	2.3	10
110	The surface photo-oxidation of polystyrene. Part II: The application of ToF-SIMS to monitor changes in the surface chemistry of neat polystyrene films. Surface and Interface Analysis, 1992, 18, 667-672.	1.8	8
111	The surface photo-oxidation of polystyrene: Part Iâ€"The application of ToF-SIMS to monitor changes in polymer chain length. Polymer Degradation and Stability, 1992, 38, 147-154.	5.8	18
112	Synthesis, characterization and study of the thermal properties of new polyarylene ethers. Polymer, 1992, 33, 1976-1981.	3.8	40
113	Surface photo-stabilization of styrene/2-(2-hydroxy-5-vinyl phenyl)-2H-benzotriazole copolymers by the use of hindered amine light stabilizer (HALS). Polymer Degradation and Stability, 1991, 32, 71-77.	5.8	7
114	Surface investigation by ESCA of poly(ethylene terephthalate)-perfluoro polyether block copolymers. Macromolecules, 1990, 23, 348-350.	4.8	22
115	Synthesis of 2-(2-hydroxyphenyl)-2H-benzotriazole monomers and studies of the surface photostabilization of the related copolymers. Macromolecules, 1990, 23, 2662-2666.	4.8	9
116	Synthesis and characterization of new quinoline monomers. Journal of Heterocyclic Chemistry, 1989, 26, 929-931.	2.6	11
117	Aspects of the surface photo-oxidation of poly 2-(2-hydroxy-3-vinyl-5-methylphenyl)-benzotriazole. Polymer Degradation and Stability, 1989, 23, 19-24.	5.8	5
118	Thermal decomposition processes in polyhydrazides and polyoxamides investigated by mass spectrometry. Polymer, 1987, 28, 139-146.	3.8	11
119	An ESCA investigation of the surface photooxidation of Styrene/2-(2-Hydroxy-3-Vinyl-5-Methylphenyl)-Benzotriazole copolymers. Polymer Degradation and Stability, 1987, 17, 185-190.	5.8	7
120	A preliminary investigation of the surface photo-oxidation of copolymers of styrene and 2-(2-hydroxy-3-vinyl-5-methylphenyl)-benzotriazole. Polymer Degradation and Stability, 1986, 15, 161-172.	5.8	13