

# Marco-Aurelio De Paoli

## List of Publications by Year in descending order

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79  
papers

3,987  
citations

147801

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docs citations

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times ranked

4288  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymers in dye sensitized solar cells: overview and perspectives. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1455-1468.	18.8	409
2	Dye-Sensitized Nanocrystalline Solar Cells Employing a Polymer Electrolyte. <i>Advanced Materials</i> , 2001, 13, 826-830.	21.0	368
3	Thermal properties of high density polyethylene composites with natural fibres: Coupling agent effect. <i>Polymer Degradation and Stability</i> , 2008, 93, 1770-1775.	5.8	273
4	New insights into dye-sensitized solar cells with polymer electrolytes. <i>Journal of Materials Chemistry</i> , 2009, 19, 5279.	6.7	264
5	Characterization of lignocellulosic curaua fibres. <i>Carbohydrate Polymers</i> , 2009, 77, 47-53.	10.2	236
6	Antistatic coating and electromagnetic shielding properties of a hybrid material based on polyaniline/organoclay nanocomposite and EPDM rubber. <i>Synthetic Metals</i> , 2006, 156, 1249-1255.	3.9	193
7	All polymeric solid state electrochromic devices. <i>Electrochimica Acta</i> , 1999, 44, 2983-2991.	5.2	137
8	Polyamide-6/vegetal fiber composite prepared by extrusion and injection molding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2404-2411.	7.6	99
9	Sulfonated polystyrene polymer humidity sensor: Synthesis and characterization. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 42-49.	7.8	90
10	Electrochemical and Structural Characterization of Polymer Gel Electrolytes Based on a PEO Copolymer and an Imidazolium-Based Ionic Liquid for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2870-2877.	8.0	89
11	Dye-sensitized solar cells based on TiO <sub>2</sub> nanotubes and a solid-state electrolyte. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 153-160.	3.9	86
12	Poly (ethylene terephthalate) thermo-mechanical and thermo-oxidative degradation mechanisms. <i>Polymer Degradation and Stability</i> , 2009, 94, 1849-1859.	5.8	82
13	Antistatic thermoplastic blend of polyaniline and polystyrene prepared in a double-screw extruder. <i>European Polymer Journal</i> , 2005, 41, 2867-2873.	5.4	74
14	A polymer gel electrolyte composed of a poly(ethylene oxide) copolymer and the influence of its composition on the dynamics and performance of dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2010, 195, 1246-1255.	7.8	71
15	A tecnologia da reciclagem de polímeros. <i>Química Nova</i> , 2005, 28, 65-72.	0.3	69
16	Solid-state dye-sensitized solar cell: Improved performance and stability using a plasticized polymer electrolyte. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 226-232.	3.9	69
17	Enhancement of photocurrent generation and open circuit voltage in dye-sensitized solar cells using Li <sup>+</sup> trapping species in the gel electrolyte. <i>Chemical Communications</i> , 2008, , 1121.	4.1	64
18	A conductive elastomer based on EPDM and polyaniline. <i>European Polymer Journal</i> , 2002, 38, 2459-2463.	5.4	63

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19	The role of gel electrolyte composition in the kinetics and performance of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2008, 53, 7166-7172.	5.2	60
20	Polyolefin composites with curaua fibres: Effect of the processing conditions on mechanical properties, morphology and fibres dimensions. <i>Composites Science and Technology</i> , 2010, 70, 29-35.	7.8	59
21	Biomicrofibrillar composites of high density polyethylene reinforced with curaua fibers: Mechanical, interfacial and morphological properties. <i>Composites Science and Technology</i> , 2010, 70, 1637-1644.	7.8	59
22	Cardanol-formaldehyde thermoset composites reinforced with buriti fibers: Preparation and characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010, 41, 1123-1129.	7.6	58
23	Photodegradation of polypropylene/polystyrene blends: Styrene-butadiene-styrene compatibilisation effect. <i>Polymer Degradation and Stability</i> , 2008, 93, 273-280.	5.8	50
24	Recycled polypropylene reinforced with curaua fibers by extrusion. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3686-3694.	2.6	49
25	Solar module using dye-sensitized solar cells with a polymer electrolyte. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1110-1114.	6.2	45
26	Polypropylene compounding with post-consumer material. <i>Polymer Degradation and Stability</i> , 2002, 78, 491-495.	5.8	41
27	Lignin as a green primary antioxidant for polypropylene. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	40
28	Application of a composite polymer electrolyte based on montmorillonite in dye-sensitized solar cells. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 688-696.	0.6	35
29	Conductive composites of polyamide-6 with polyaniline coated vegetal fiber. <i>Chemical Engineering Journal</i> , 2011, 174, 425-431.	12.7	35
30	Blends of polyaniline with nitrilic rubber. <i>Journal of Applied Polymer Science</i> , 2000, 75, 677-684.	2.6	34
31	Synthesis and characterization of aniline copolymers containing carboxylic groups and their application as sensitizer and hole conductor in solar cells. <i>Synthetic Metals</i> , 2009, 159, 2348-2354.	3.9	34
32	Photoelectronic and transport properties of polypyrrole doped with a dianionic dye. <i>Electrochimica Acta</i> , 2002, 47, 1351-1357.	5.2	31
33	Ageing of polyamide 11 used in the manufacture of flexible piping. <i>Journal of Applied Polymer Science</i> , 2009, 114, 1777-1783.	2.6	31
34	Photoelectrochemistry of polyaniline supported in a microporous cellulose acetate membrane. <i>Synthetic Metals</i> , 1998, 96, 49-54.	3.9	30
35	Photo-oxidation of polypropylene under load. <i>Polymer Degradation and Stability</i> , 1993, 40, 53-58.	5.8	28
36	High-density green polyethylene biocomposite reinforced with cellulose fibers and using lignin as antioxidant. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45219.	2.6	28

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37	Elastic polyaniline with EPDM and dodecylbenzenesulfonic acid as plasticizers. Journal of Applied Polymer Science, 2001, 82, 1768-1775.	2.6	26
38	Microwave absorption properties of a conductive thermoplastic blend based on polyaniline. Polymer Bulletin, 2004, 51, 321-326.	3.3	26
39	Use of postconsumer polyethylene in blends with polyamide 6: Effects of the extrusion method and the compatibilizer. Journal of Applied Polymer Science, 2008, 110, 1310-1317.	2.6	23
40	Chemical preparation of conductive elastomeric blends: Polypyrrole/EPDM. I. Oxidant particle-size effect. Journal of Polymer Science Part A, 1994, 32, 1001-1008.	2.3	22
41	Polypropylene compounding with recycled material I. Statistical response surface analysis. Polymer Degradation and Stability, 2001, 71, 293-298.	5.8	21
42	Polyamide-6 composites reinforced with cellulose fibers and fabricated by extrusion: Effect of fiber bleaching on mechanical properties and stability. Polymer Composites, 2017, 38, 299-308.	4.6	20
43	Electrochemical impedance spectroscopy of dodecylsulphate doped polypyrrole films in the dark and under illumination. Journal of the Brazilian Chemical Society, 2000, 11, 50-58.	0.6	19
44	Photo-oxidative degradation of poly(epichlorohydrin-co-ethylene oxide) elastomer at 254 nm. Polymer Degradation and Stability, 2002, 76, 219-225.	5.8	17
45	Microwave Absorbing Coatings Based on a Blend of Nitrile Rubber, EPDM Rubber and Polyaniline. Polymer Bulletin, 2005, 55, 299-307.	3.3	17
46	Poliolefinas reforçadas com fibras vegetais curtas: sisal – curauá. Polimeros, 2011, 21, 168-174.	0.7	17
47	Synthesis, characterization and introduction of a new ion-coordinating ruthenium sensitizer dye in quasi-solid state TiO <sub>2</sub> solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 185-191.	3.9	17
48	Kinetic competition in flexible dye sensitised solar cells employing a series of polymer electrolytes. Chemical Communications, 2006, , 877.	4.1	16
49	Polyamide-6/high-density polyethylene blend using recycled high-density polyethylene as compatibilizer: Morphology, mechanical properties, and thermal stability. Polymer Engineering and Science, 2009, 49, 2005-2014.	3.1	16
50	Fingerprinting of bottle-grade poly(ethylene terephthalate) via matrix-assisted laser desorption/ionization mass spectrometry. Polymer Degradation and Stability, 2010, 95, 666-671.	5.8	16
51	Distinguishing between virgin and post-consumption bottle-grade poly (ethylene terephthalate) using thermal properties. Polymer Testing, 2010, 29, 879-885.	4.8	16
52	Bio-based additives for thermoplastics. Polimeros, 2019, 29, .	0.7	16
53	Dye-sensitized solar cells and solar module using polymer electrolytes: Stability and performance investigations. International Journal of Photoenergy, 2006, 2006, 1-6.	2.5	15
54	New polyaniline/porous glass composite. Synthetic Metals, 1997, 84, 107-108.	3.9	14

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55	New functionalized 3-(alkyl)thiophene derivatives and spectroelectrochemical characterization of its polymers. <i>Synthetic Metals</i> , 2004, 145, 43-49.	3.9	14
56	Diffusion of amine stabilizers in vulcanized natural rubber compositions used in tires. <i>Journal of Applied Polymer Science</i> , 2000, 75, 670-676.	2.6	13
57	Action spectra of EE and SE illuminated polypyrrole-dodecylsulphate films in aqueous solutions. <i>Solar Energy Materials and Solar Cells</i> , 2000, 60, 73-83.	6.2	12
58	Reactive processing and evaluation of butadiene-styrene copolymer/polyaniline conductive blends. <i>Journal of Applied Polymer Science</i> , 2006, 101, 681-685.	2.6	12
59	Pilot plant scale preparation of dodecylbenzene sulfonic acid doped polyaniline in ethanol/water solution: Control of doping, reduction of purification time and of residues. <i>Synthetic Metals</i> , 2009, 159, 1968-1974.	3.9	12
60	Effect of conducting carbon black on the photostabilization of injection molded poly(propylene-co-ethylene) containing TiO <sub>2</sub> . <i>Polymer Degradation and Stability</i> , 2003, 82, 89-98.	5.8	11
61	Electrochromic properties of poly{3-[12-(p-methoxyphenoxy)dodecyl]thiophene}. <i>Electrochimica Acta</i> , 2004, 49, 2237-2242.	5.2	11
62	ABS composites with cellulose fibers: Towards fiber-matrix adhesion without surface modification. <i>Composites Part C: Open Access</i> , 2021, 5, 100142.	3.2	11
63	Determination of intrinsic viscosity of poly(ethylene terephthalate) using infrared spectroscopy and multivariate calibration method. <i>Talanta</i> , 2006, 69, 643-649.	5.5	10
64	Effect of the electrolyte cations and anions on the photocurrent of dodecylsulphate doped polypyrrole films. <i>Solar Energy Materials and Solar Cells</i> , 2002, 73, 235-247.	6.2	8
65	Evaluation of Stabilizing Additives Content in the Mechanical Properties of Elastomeric Compositions Subject to Environmental and Accelerated Aging. <i>Materials Research</i> , 2020, 23, .	1.3	8
66	Preparaço de eletrodos opticamente transparentes. <i>Quimica Nova</i> , 2005, 28, 345-349.	0.3	7
67	Presence of iron in polymers extruded with corrosive contaminants or abrasive fillers. <i>Polimeros</i> , 2019, 29, .	0.7	7
68	Low cost capillary rheometer, transfer molding and die-drawing module. <i>Polymer Testing</i> , 2006, 25, 197-202.	4.8	6
69	Analysing metals in bottle-grade poly(ethylene terephthalate) by X-ray fluorescence spectrometry. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2993-3000.	2.6	6
70	Nonisothermal crystallization of reprocessed poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2004, 91, 525-531.	2.6	5
71	Dynamic Vulcanization of Thermoplastic Elastomers Based on Poly(Epichlorohydrin-Co-Ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	5
72	Electropolymerization of Heterocycles on Poly(Vinylchloride) Coated Electrodes. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 219, 173-181.	0.3	4

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73	TiO <sub>2</sub> distribution in aged and injected isotactic polypropylene parts by synchrotron radiation X-ray microfluorescence. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 657-662.	2.1	3
74	Biocomposite of a multilayer film scrap and curau $\tilde{a}$ i fibers. <i>Journal of Thermoplastic Composite Materials</i> , 2017, 30, 225-240.	4.2	3
75	Structural analysis of polymer chain packing by semiempirical methods. <i>Computational and Theoretical Chemistry</i> , 1997, 394, 243-248.	1.5	1
76	<title>Artificial muscles working in aqueous solutions or in air</title>. , 1999, 3669, 98.		1
77	<title>Electrochromic properties of poly(pyrrrole)/dodecylbenzenesulfonate</title>. , 1991, , .		0
78	Polymer-electrolyte-film-based humidity sensor with integrated signal conditioner. , 2005, , .		0
79	Prof. Adhemar is retiring from Pol $\tilde{a}$ meros. <i>Polimeros</i> , 2021, 31, .	0.7	0