Alessandro Gandini

List of Publications by Year
in descending order

45 papers	6,016 citations	218677 26 h-index	243625 44 g-index
54 all docs	54 docs citations	54 times ranked	6463 citing authors

#	Article	IF	Citations
1	Polymers from Renewable Resources: A Challenge for the Future of Macromolecular Materials. Macromolecules, 2008, 41, 9491-9504.	4.8	985
2	The irruption of polymers from renewable resources on the scene of macromolecular science and technology. Green Chemistry, 2011, 13, 1061.	9.0	610
3	Progress of Polymers from Renewable Resources: Furans, Vegetable Oils, and Polysaccharides. Chemical Reviews, 2016, 116, 1637-1669.	47.7	610
4	From monomers to polymers from renewable resources: Recent advances. Progress in Polymer Science, 2015, 48, 1-39.	24.7	530
5	Recent advances in surface-modified cellulose nanofibrils. Progress in Polymer Science, 2019, 88, 241-264.	24.7	447
6	The furan counterpart of poly(ethylene terephthalate): An alternative material based on renewable resources. Journal of Polymer Science Part A, 2009, 47, 295-298.	2.3	425
7	Synthesis and characterization of poly(2,5â€furan dicarboxylate)s based on a variety of diols. Journal of Polymer Science Part A, 2011, 49, 3759-3768.	2.3	305
8	Furans as offspring of sugars and polysaccharides and progenitors of a family of remarkable polymers: a review of recent progress. Polymer Chemistry, 2010, 1, 245-251.	3.9	264
9	Materials from renewable resources based on furan monomers and furan chemistry: work in progress. Journal of Materials Chemistry, 2009, 19, 8656.	6.7	224
10	Novel transparent nanocomposite films based on chitosan and bacterial cellulose. Green Chemistry, 2009, 11, 2023.	9.0	216
11	Turning polysaccharides into hydrophobic materials: a critical review. Part 1. Cellulose. Cellulose, 2010, 17, 875-889.	4.9	185
12	Turning polysaccharides into hydrophobic materials: a critical review. Part 2. Hemicelluloses, chitin/chitosan, starch, pectin and alginates. Cellulose, 2010, 17, 1045-1065.	4.9	146
13	Transparent bionanocomposites with improved properties prepared from acetylated bacterial cellulose and poly(lactic acid) through a simple approach. Green Chemistry, 2011, 13, 419.	9.0	126
14	Novel materials based on chitosan and cellulose. Polymer International, 2011, 60, 875-882.	3.1	89
15	N-(furfural) chitosan hydrogels based on Dielsâ€"Alder cycloadditions and application as microspheres for controlled drug release. Carbohydrate Polymers, 2015, 128, 220-227.	10.2	71
16	Reversible click chemistry at the service of macromolecular materials. 2. Thermoreversible polymers based on the Dielsâ€Alder reaction of an Aâ€B furan/maleimide monomer. Journal of Polymer Science Part A, 2010, 48, 2053-2056.	2.3	64
17	Continuous microfiber drawing by interfacial charge complexation between anionic cellulose nanofibers and cationic chitosan. Journal of Materials Chemistry A, 2017, 5, 13098-13103.	10.3	61
18	Reversible click chemistry at the service of macromolecular materials. Polymer Chemistry, 2011, 2, 1713.	3.9	48

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19	Novel suberinâ€based biopolyesters: From synthesis to properties. Journal of Polymer Science Part A, 2011, 49, 2281-2291.	2.3	48
20	The bulk oxypropylation of chitin and chitosan and the characterization of the ensuing polyols. Green Chemistry, 2008, 10, 93-97.	9.0	45
21	Reversible polymerization of novel monomers bearing furan and plant oil moieties: a double click exploitation of renewable resources. RSC Advances, 2012, 2, 2966.	3.6	44
22	Thermoreversible nonlinear dielsâ€alder polymerization of furan/plant oil monomers. Journal of Polymer Science Part A, 2013, 51, 2260-2270.	2.3	43
23	Reversible click chemistry at the service of macromolecular materials. Part 4: Dielsâ€"Alder non-linear polycondensations involving polyfunctional furan and maleimide monomers. Polymer Chemistry, 2013, 4, 1364-1371.	3.9	39
24	Furan Polymers: State of the Art and Perspectives. Macromolecular Materials and Engineering, 2022, 307, .	3.6	31
25	Self-reinforced composites obtained by the partial oxypropylation of cellulose fibers. 2. Effect of catalyst on the mechanical and dynamic mechanical properties. Cellulose, 2009, 16, 239-246.	4.9	27
26	Hydrogel synthesis by aqueous Dielsâ€Alder reaction between furan modified methacrylate and polyetheramineâ€based bismaleimides. Journal of Polymer Science Part A, 2015, 53, 699-708.	2.3	27
27	Furan-modified natural rubber: A substrate for its reversible crosslinking and for clicking it onto nanocellulose. International Journal of Biological Macromolecules, 2017, 95, 762-768.	7.5	25
28	Thermally reversible nanocellulose hydrogels synthesized via the furan/maleimide Diels-Alder click reaction in water. International Journal of Biological Macromolecules, 2019, 141, 493-498.	7.5	25
29	Furan Chemistry at the Service of Functional Macromolecular Materials: The Reversible Diels-Alder Reaction. ACS Symposium Series, 2007, , 280-295.	0.5	24
30	Furanâ€"chitosan hydrogels based on click chemistry. Iranian Polymer Journal (English Edition), 2015, 24, 349-357.	2.4	20
31	Polyimides based on furanic diamines and aromatic dianhydrides: synthesis, characterization and properties. Polymer Bulletin, 2011, 67, 1111-1122.	3.3	19
32	Enhancing strength and toughness of cellulose nanofibril network structures with an adhesive peptide. Carbohydrate Polymers, 2018, 181, 256-263.	10.2	19
33	A preliminary study of polyureas and poly(parabanic acid)s incorporating furan rings. Polymer Bulletin, 2006, 57, 43-50.	3.3	15
34	Thermoreversible crosslinked thermoplastic starch. Polymer International, 2015, 64, 1366-1372.	3.1	13
35	A minimalist furanâ€"maleimide AB-type monomer and its thermally reversible Dielsâ€"Alder polymerization. RSC Advances, 2016, 6, 45696-45700.	3.6	13
36	Unravelling the distinct crystallinity and thermal properties of suberin compounds from Quercus suber and Betula pendula outer barks. International Journal of Biological Macromolecules, 2016, 93, 686-694.	7.5	12

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37	A Novel Approach for the Synthesis of Thermoâ€Responsive Coâ€Polyesters Incorporating Reversible Dielsâ€"Alder Adducts. Macromolecular Chemistry and Physics, 2019, 220, 1900247.	2.2	12
38	Preparation of aqueous anionic poly(urethane-urea) dispersions. Influence of the incorporation of acrylic, polycarbonate and perfluoro-oligoether diols on the dispersion and polymer properties. Polymers for Advanced Technologies, 2005, 16, 840-845.	3.2	11
39	Effect of the molecular structure on the reactivity in a family of tetra-amine compounds derived from Jeffamines. Macromolecular Research, 2012, 20, 800-809.	2.4	9
40	The contribution of bisfurfurylamine to the development and properties of polyureas. Polymer International, 2020, 69, 688-692.	3.1	6
41	Acid-Catalyzed Polycondensation of 2-Acetoxymethyl-3,4-dimethylthiophene. Access to a Novel Poly(thienylene methine) with Alternating Aromatic- and Quinoid-like Structures. Macromolecules, 2009, 42, 2455-2461.	4.8	5
42	Crosslinking starch with dielsâ€alder reaction: <scp>Waterâ€Soluble</scp> materials and waterâ€mediated processes. Polymer International, 0, , .	3.1	4
43	Recent Contributions to the Realm of Polymers from Renewable Resources. ACS Symposium Series, 2007, , 48-60.	0.5	1
44	Surface and In-Depth Modification of Cellulose Fibers. ACS Symposium Series, 2007, , 93-106.	0.5	1
45	Unravelling the detailed microstructure of a semiconducting (quasiâ€metal) soluble polymer incorporating conjugated thienylene methine sequences. Journal of Polymer Science Part A, 2011, 49, 5227-5238.	2.3	1