Maria M PÃ©rez-Madrigal

List of Publications by Year
in descending order

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53 papers	1,804 citations	279798 23 h-index	276875 41 g-index
54 all docs	54 docs citations	54 times ranked	2595 citing authors

#	Article	IF	Citations
1	Organocatalysis for depolymerisation. Polymer Chemistry, 2019, 10, 172-186.	3.9	207
2	Powering the future: application of cellulose-based materials for supercapacitors. Green Chemistry, 2016, 18, 5930-5956.	9.0	196
3	Towards sustainable solid-state supercapacitors: electroactive conducting polymers combined with biohydrogels. Journal of Materials Chemistry A, 2016, 4, 1792-1805.	10.3	97
4	Controlling the Size of Two-Dimensional Polymer Platelets for Water-in-Water Emulsifiers. ACS Central Science, 2018, 4, 63-70.	11.3	94
5	Nanomembranes and Nanofibers from Biodegradable Conducting Polymers. Polymers, 2013, 5, 1115-1157.	4.5	90
6	Current status and challenges of biohydrogels for applications as supercapacitors and secondary batteries. Journal of Materials Chemistry A, 2016, 4, 8952-8968.	10.3	89
7	Nonswelling Thiolâ€“Yne Cross-Linked Hydrogel Materials as Cytocompatible Soft Tissue Scaffolds. Biomacromolecules, 2018, 19, 1378-1388.	5.4	67
8	3D Printing for the Clinic: Examining Contemporary Polymeric Biomaterials and Their Clinical Utility. Biomacromolecules, 2020, 21, 1037-1059.	5.4	61
9	The influence of Ag+, Zn2+ and Cu2+ exchanged zeolite on antimicrobial and long term in vitro stability of medical grade polyether polyurethane. EXPRESS Polymer Letters, 2011, 5, 1028-1040.	2.1	55
10	Insulating and semiconducting polymeric free-standing nanomembranes with biomedical applications. Journal of Materials Chemistry B, 2015, 3, 5904-5932.	5.8	48
11	Robust alginate/hyaluronic acid thiolâ€“yne click-hydrogel scaffolds with superior mechanical performance and stability for load-bearing soft tissue engineering. Biomaterials Science, 2020, 8, 405-412.	5.4	48
12	Paradigm Shift for Preparing Versatile M²⁺-Free Gels from Unmodified Sodium Alginate. Biomacromolecules, 2017, 18, 2967-2979.	5.4	46
13	Advanced Functional Hydrogel Biomaterials Based on Dynamic Bâ€“O Bonds and Polysaccharide Building Blocks. Biomacromolecules, 2020, 21, 3984-3996.	5.4	46
14	Thermoplastic Polyurethane:Polythiophene Nanomembranes for Biomedical and Biotechnological Applications. ACS Applied Materials & Interfaces, 2014, 6, 9719-9732.	8.0	45
15	Selfâ€Assembly of Tetraphenylalanine Peptides. Chemistry - A European Journal, 2015, 21, 16895-16905.	3.3	45
16	Biodegradable free-standing nanomembranes of conducting polymer:polyester blends as bioactive platforms for tissue engineering. Journal of Materials Chemistry, 2012, 22, 585-594.	6.7	42
17	Bioactive and electroactive response of flexible polythiophene:polyester nanomembranes for tissue engineering. Polymer Chemistry, 2012, 3, 979.	3.9	41
18	Pastes and hydrogels from carboxymethyl cellulose sodium salt as supporting electrolyte of solid electrochemical supercapacitors. Carbohydrate Polymers, 2018, 200, 456-467.	10.2	37

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19	Hydrogels for flexible and compressible free standing cellulose supercapacitors. European Polymer Journal, 2019, 118, 347-357.	5.4	35
20	Self-healing, stretchable and robust interpenetrating network hydrogels. Biomaterials Science, 2018, 6, 2932-2937.	5.4	31
21	Bioactive nanomembranes of semiconductor polythiophene and thermoplastic polyurethane: thermal, nanostructural and nanomechanical properties. Polymer Chemistry, 2013, 4, 568-583.	3.9	29
22	Hierarchical self-assembly of di-, tri- and tetraphenylalanine peptides capped with two fluorenyl functionalities: from polymorphs to dendrites. Soft Matter, 2016, 12, 5475-5488.	2.7	26
23	Poly-Î³-glutamic Acid Hydrogels as Electrolyte for Poly(3,4-ethylenedioxythiophene)-Based Supercapacitors. Journal of Physical Chemistry C, 2017, 121, 3182-3193.	3.1	26
24	Modular Functionalization of Laminarin to Create Value-Added Naturally Derived Macromolecules. Journal of the American Chemical Society, 2020, 142, 19689-19697.	13.7	26
25	Electronic, electric and electrochemical properties of bioactive nanomembranes made of polythiophene:thermoplastic polyurethane. Polymer Chemistry, 2014, 5, 1248-1257.	3.9	24
26	Synthesis of aliphatic polycarbonates with a tuneable thermal response. Polymer Chemistry, 2017, 8, 5082-5090.	3.9	21
27	Polypyrrole-Supported Membrane Proteins for Bio-Inspired Ion Channels. ACS Applied Materials & Interfaces, 2015, 7, 1632-1643.	8.0	20
28	Microfibres of conducting polythiophene and biodegradable poly(ester urea) for scaffolds. Polymer Chemistry, 2015, 6, 925-937.	3.9	20
29	Hybrid nanofibers from biodegradable polylactide and polythiophene for scaffolds. RSC Advances, 2014, 4, 15245.	3.6	19
30	Electrical and Capacitive Response of Hydrogel Solid-Like Electrolytes for Supercapacitors. Polymers, 2021, 13, 1337.	4.5	17
31	Nanometric ultracapacitors fabricated using multilayer of conducting polymers on self-assembled octanethiol monolayers. Organic Electronics, 2013, 14, 1483-1495.	2.6	16
32	Confinement of a Î²-barrel protein in nanoperforated free-standing nanomembranes for ion transport. Nanoscale, 2016, 8, 16922-16935.	5.6	16
33	Semiconducting, biodegradable and bioactive fibers for drug delivery. EXPRESS Polymer Letters, 2016, 10, 628-646.	2.1	15
34	Using Stereochemistry to Control Mechanical Properties in Thiolâ€“Yne Clickâ€Hydrogels. Angewandte Chemie - International Edition, 2021, 60, 25856-25864.	13.8	13
35	Sensitive thermal transitions of nanoscale polymer samples using the bimetallic effect: Application to ultra-thin polythiophene. Review of Scientific Instruments, 2013, 84, 053904.	1.3	11
36	DNA-Catalyzed Henry Reaction in Pure Water and the Striking Influence of Organic Buffer Systems. Molecules, 2015, 20, 4136-4147.	3.8	9

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37	Electroactive and bioactive films of random copolymers containing terthiophene, carboxyl and Schiff base functionalities in the main chain. Polymer Chemistry, 2015, 6, 4319-4335.	3.9	9
38	Hybrid Polypeptide/Polylactide Copolymers with Short Phenylalanine Blocks. Macromolecular Chemistry and Physics, 2018, 219, 1800168.	2.2	9
39	Weighing biointeractions between fibrin(ogen) and clotâ€binding peptides using microcantilever sensors. Journal of Peptide Science, 2017, 23, 162-171.	1.4	8
40	Customized Fading Scaffolds: Strong Polyorthoester Networks via Thiolâ€"Ene Cross-linking for Cytocompatible Surface-Eroding Materials in 3D Printing. Biomacromolecules, 2021, 22, 1472-1483.	5.4	7
41	Plasmaâ€Functionalized Isotactic Polypropylene Assembled with Conducting Polymers for Bacterial Quantification by NADH Sensing. Advanced Healthcare Materials, 2021, 10, e2100425.	7.6	7
42	Electrospray loading and release of hydrophobic gramicidin in polyester microparticles. RSC Advances, 2016, 6, 73045-73055.	3.6	6
43	Enhanced dielectric performance of a block copolymer-polythiophene nanocomposite. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1896-1905.	2.1	5
44	Biodegradable nanofibrous scaffolds as smart delivery vehicles for amino acids. Journal of Applied Polymer Science, 2017, 134, .	2.6	4
45	Nanofeatures affect the thermal transitions of polymer thin films: a microcantilever-based investigation. Materials Advances, 2020, 1, 2084-2094.	5.4	4
46	Self-assembly pathways in a triphenylalanine peptide capped with aromatic groups. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112522.	5.0	4
47	Thermally Switching On/Off the Hardening of Soaked Nanocomposite Materials. ACS Central Science, 2017, 3, 817-819.	11.3	3
48	Antimicrobial Electrospun Fibers of Polyester Loaded with Engineered Cyclic Gramicidin Analogues. Fibers, 2017, 5, 34.	4.0	3
49	Semiâ€Interpenetrated Hydrogelsâ€Microfibers Electroactive Assemblies for Release and Realâ€Time Monitoring of Drugs. Macromolecular Bioscience, 2020, 20, e2000074.	4.1	3
50	Preparation, Surface Characterization and Anticorrosive Behavior of Polyaniline and Poly(3,4-ethylenedioxythiophene) Deposited on Aluminum Alloy AA2024-T3. Surface Engineering and Applied Electrochemistry, 2018, 54, 297-306.	0.8	1
51	Porous Poly(3,4â€ethylenedioxythiophene)â€Based Electrodes for Detecting Stress Biomarkers in Artificial Urine and Sweat. Macromolecular Materials and Engineering, 0, , 2200269.	3.6	1
52	Composites based on epoxy resins and poly(3â€thiophene methyl acetate) nanoparticles: mechanical and electrical properties. Polymer Composites, 2016, 37, 734-745.	4.6	0
53	Using Stereochemistry to Control Mechanical Properties in Thiolâ€"Yne Clickâ€Hydrogels. Angewandte Chemie, 2021, 133, 26060-26068.	2.0	0