

# Pau Turon Dols

## List of Publications by Year in descending order

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71  
papers

977  
citations

471061

17  
h-index

525886

27  
g-index

74  
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74  
docs citations

74  
times ranked

1400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured medical sutures with antibacterial properties. <i>Biomaterials</i> , 2015, 52, 291-300.	5.7	103
2	Biodegradable and Biocompatible Systems Based on Hydroxyapatite Nanoparticles. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 60.	1.3	81
3	Plasmon-Based Biofilm Inhibition on Surgical Implants. <i>Nano Letters</i> , 2019, 19, 2524-2529.	4.5	49
4	DNA adsorbed on hydroxyapatite surfaces. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6953-6966.	2.9	41
5	Mineralization of DNA into nanoparticles of hydroxyapatite. <i>Dalton Transactions</i> , 2014, 43, 317-327.	1.6	39
6	Polypropylene mesh for hernia repair with controllable cell adhesion/de-adhesion properties. <i>Journal of Materials Chemistry B</i> , 2020, 8, 1049-1059.	2.9	29
7	Modeling biominerals formed by apatites and DNA. <i>Biointerphases</i> , 2013, 8, 10.	0.6	28
8	Sustainable synthesis of amino acids by catalytic fixation of molecular dinitrogen and carbon dioxide. <i>Green Chemistry</i> , 2018, 20, 685-693.	4.6	26
9	Synergistic Approach to Elucidate the Incorporation of Magnesium Ions into Hydroxyapatite. <i>Chemistry - A European Journal</i> , 2015, 21, 2537-2546.	1.7	24
10	The mechanism of adhesion and graft polymerization of a PNIPAAm thermoresponsive hydrogel to polypropylene meshes. <i>Soft Matter</i> , 2019, 15, 3432-3442.	1.2	24
11	Loading of Antibiotic into Biocoated Hydroxyapatite Nanoparticles: Smart Antitumor Platforms with Regulated Release. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3234-3245.	2.6	22
12	Toward the New Generation of Surgical Meshes with 4D Response: Soft, Dynamic, and Adaptable. <i>Advanced Functional Materials</i> , 2020, 30, 2004145.	7.8	22
13	Hydroxyapatite with Permanent Electrical Polarization: Preparation, Characterization, and Response against Inorganic Adsorbates. <i>ChemPhysChem</i> , 2018, 19, 1746-1755.	1.0	21
14	<i>In vivo</i> soft tissue reinforcement with bacterial nanocellulose. <i>Biomaterials Science</i> , 2021, 9, 3040-3050.	2.6	20
15	Study of Non-Isothermal Crystallization of Polydioxanone and Analysis of Morphological Changes Occurring during Heating and Cooling Processes. <i>Polymers</i> , 2016, 8, 351.	2.0	18
16	Electrically Polarized Hydroxyapatite: Influence of the Polarization Process on the Microstructure and Properties. <i>Langmuir</i> , 2019, 35, 14782-14790.	1.6	18
17	Controlled Anisotropic Growth of Hydroxyapatite by Additive-Free Hydrothermal Synthesis. <i>Crystal Growth and Design</i> , 2021, 21, 748-756.	1.4	18
18	A low memory cost model based reconstruction algorithm exploiting translational symmetry for photoacoustic microscopy. <i>Biomedical Optics Express</i> , 2013, 4, 2813.	1.5	16

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19	Electrochemical Sensor for Bacterial Metabolism Based on the Detection of NADH by Polythiophene Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22181-22190.	1.5	16
20	Temperature effect on the SARS-CoV-2: A molecular dynamics study of the spike homotrimeric glycoprotein. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1848-1862.	1.9	16
21	Regulating the Superficial Vacancies and OH <sup>-</sup> Orientations on Polarized Hydroxyapatite Electrocatalysts. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100163.	1.9	16
22	An experimental-computer modeling study of inorganic phosphates surface adsorption on hydroxyapatite particles. <i>Dalton Transactions</i> , 2015, 44, 9980-9991.	1.6	15
23	Isothermal and non-isothermal crystallization kinetics of a polyglycolide copolymer having a tricomponent middle soft segment. <i>Thermochimica Acta</i> , 2014, 585, 71-80.	1.2	14
24	Non-Isothermal Crystallization Kinetics of Poly(4-Hydroxybutyrate) Biopolymer. <i>Molecules</i> , 2019, 24, 2840.	1.7	14
25	Smart design for a flexible, functionalized and electroresponsive hybrid platform based on poly(3,4-ethylenedioxythiophene) derivatives to improve cell viability. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8864-8877.	2.9	14
26	Permanently polarized hydroxyapatite for selective electrothermal catalytic conversion of carbon dioxide into ethanol. <i>Chemical Communications</i> , 2021, 57, 5163-5166.	2.2	14
27	Dissolving Hydroxyolite: A DNA Molecule into Its Hydroxyapatite Mold. <i>Chemistry - A European Journal</i> , 2016, 22, 6631-6636.	1.7	13
28	Poly( $\mu$ -caprolactone) films reinforced with chlorhexidine loaded electrospun polylactide microfibers. <i>EXPRESS Polymer Letters</i> , 2017, 11, 674-689.	1.1	13
29	Breaking-down the catalyst used for the electrophotosynthesis of amino acids by nitrogen and carbon fixation. <i>Journal of Catalysis</i> , 2020, 389, 646-656.	3.1	12
30	Enhanced CO <sub>2</sub> Conversion into Ethanol by Permanently Polarized Hydroxyapatite through C <sup>+</sup> C Coupling. <i>ChemCatChem</i> , 2021, 13, 5025-5033.	1.8	12
31	Incorporation of Chloramphenicol Loaded Hydroxyapatite Nanoparticles into Polylactide. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5056.	1.8	11
32	Hydrolytic and enzymatic degradation of biobased poly(4-hydroxybutyrate) films. Selective etching of spherulites. <i>Polymer Degradation and Stability</i> , 2021, 183, 109451.	2.7	11
33	Incorporation of biguanide compounds into poly(GL)-b-poly(GL-co-TMC-co-CL)-b-poly(GL) monofilament surgical sutures. <i>Materials Science and Engineering C</i> , 2017, 71, 629-640.	3.8	10
34	Isothermal Crystallization Kinetics of Poly(4-hydroxybutyrate) Biopolymer. <i>Materials</i> , 2019, 12, 2488.	1.3	10
35	Nanotherapeutic Interface Based on Antibiotic-Loaded Conducting Polymer Nanoparticles for Real-Time Monitoring of Bacterial Growth Inhibition. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001636.	3.9	10
36	Optimization of permanently polarized hydroxyapatite catalyst. Implications for the electrophotosynthesis of amino acids by nitrogen and carbon fixation. <i>Journal of Catalysis</i> , 2021, 397, 98-107.	3.1	10

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37	Scaffolds with Tunable Properties Constituted by Electrospun Nanofibers of Polyglycolide and Poly( $\epsilon$ -caprolactone). <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800100.	1.7	9
38	Analysis of nitrogen fixation by a catalyst capable of transforming N <sub>2</sub> , CO <sub>2</sub> and CH <sub>4</sub> into amino acids under mild reactions conditions. <i>Applied Catalysis A: General</i> , 2020, 596, 117526.	2.2	9
39	Influence of pH on Morphology and Structure during Hydrolytic Degradation of the Segmented GL-b-[GL-co-TMC-co-CL]-b-GL Copolymer. <i>Fibers</i> , 2015, 3, 348-372.	1.8	8
40	Grafting of Hydroxyapatite for Biomedical Applications. , 2018, , 45-80.		8
41	Influence of the atmosphere conditions in the structure, properties and solubility of fluorine-substituted hydroxyapatites. <i>Materials Chemistry and Physics</i> , 2019, 226, 279-289.	2.0	8
42	Hydroxyapatite-based biphasic catalysts with plasticity properties and its potential in carbon dioxide fixation. <i>Chemical Engineering Journal</i> , 2022, 433, 133512.	6.6	8
43	Polarized Hydroxyapatite: New Insights and Future Perspectives Through Systematic Electrical Characterization at the Interface. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	8
44	Study on the hydrolytic degradation of the segmented GL-b-[GL-co-TMC-co-CL]-b-GL copolymer with application as monofilament surgical suture. <i>Polymer Degradation and Stability</i> , 2013, 98, 2709-2721.	2.7	7
45	Plasma-Functionalized Isotactic Polypropylene Assembled with Conducting Polymers for Bacterial Quantification by NADH Sensing. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100425.	3.9	7
46	Unravelling the Encapsulation of DNA and Other Biomolecules in HAp Microcalcifications of Human Breast Cancer Tissues by Raman Imaging. <i>Cancers</i> , 2021, 13, 2658.	1.7	7
47	Permanently polarized hydroxyapatite, an outstanding catalytic material for carbon and nitrogen fixation. <i>Materials Horizons</i> , 2022, 9, 1566-1576.	6.4	7
48	The potential of photoacoustic microscopy as a tool to characterize the in vivo degradation of surgical sutures. <i>Biomedical Optics Express</i> , 2014, 5, 2856.	1.5	6
49	Surviving Mass Extinctions through Biomineralized DNA. <i>Chemistry - A European Journal</i> , 2015, 21, 18892-18898.	1.7	6
50	Unravelling the molecular interactions between the SARS-CoV-2 RBD spike protein and various specific monoclonal antibodies. <i>Biochimie</i> , 2022, 193, 90-102.	1.3	6
51	Fine-tuning of polarized hydroxyapatite for the catalytic conversion of dinitrogen to ammonium under mild conditions. <i>Chemical Engineering Journal</i> , 2022, 446, 137440.	6.6	6
52	Restricted Puckering of Mineralized RNA-Like Riboses. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5075-5081.	1.2	5
53	Spherulitic morphologies of the triblock Poly(GL)-b-poly(GL-co-TMC-co-CL)-b-poly(GL) copolymer: Isothermal and non-isothermal crystallization studies. <i>European Polymer Journal</i> , 2015, 73, 222-236.	2.6	4
54	Biominerals Formed by DNA and Calcium Oxalate or Hydroxyapatite: A Comparative Study. <i>Langmuir</i> , 2019, 35, 11912-11922.	1.6	4

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55	Introduction of Flexible Cyanoacrylates in Sutureless Gastric Closure. <i>Surgical Innovation</i> , 2016, 23, 490-497.	0.4	3
56	Effects of hydroxyapatite (0001) Ca <sup>2+</sup> /Mg <sup>2+</sup> substitution on adsorbed d-ribose ring puckering. <i>RSC Advances</i> , 2016, 6, 69634-69640.	1.7	3
57	Tunable Drug Loading and Reinforcement of Polycaprolactone Films by Means of Electrospun Nanofibers of Glycolide Segmented Copolymers. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700401.	1.7	3
58	Electrospun scaffolds for wound healing applications from poly(4-hydroxybutyrate): A biobased and biodegradable linear polymer with high elastomeric properties. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51447.	1.3	3
59	Incorporation of Functionalized Calcium Phosphate Nanoparticles in Living Cells. <i>Journal of Cluster Science</i> , 2022, 33, 2781-2795.	1.7	3
60	Microstructural Changes during Degradation of Biobased Poly(4-hydroxybutyrate) Sutures. <i>Polymers</i> , 2020, 12, 2024.	2.0	2
61	In silico antibody engineering for SARS-CoV-2 detection. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5525-5534.	1.9	2
62	Tailorable Nanoporous Hydroxyapatite Scaffolds for Electrothermal Catalysis. <i>ACS Applied Nano Materials</i> , 2022, 5, 8526-8536.	2.4	2
63	On the feasibility of the computational modelling of the endoluminal vacuum-assisted closure of an oesophageal anastomotic leakage. <i>Royal Society Open Science</i> , 2018, 5, 171289.	1.1	1
64	Close contacts at the interface: Experimental-computational synergies for solving complexity problems. <i>ChemistrySelect</i> , 2018, 3, .	0.7	1
65	In silico study of substrate chemistry effect on the tethering of engineered antibodies for SARS-CoV-2 detection: Amorphous silica vs gold. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 213, 112400.	2.5	1
66	Towards non-invasive imaging of surgical suture degradation with photoacoustic microscopy. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
67	Incorporation of chloramphenicol and captopril into poly(GL) <sub>100</sub> -b-poly(GL) <sub>100</sub> -b-poly(GL) <sub>100</sub> -b-poly(GL) <sub>100</sub> multifilamentary sutures. <i>Journal of Applied Polymer Science</i> , 2017, 134, .		0
68	Macromol. Mater. Eng. 2/2018. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1870007.	1.7	0
69	2. Close Contacts at the interface: Experimental-computational synergies for solving complexity problems. , 2018, , 53-80.		0
70	Towards non-invasive imaging of surgical suture degradation with photoacoustic microscopy. , 2015, , .		0
71	Computer simulations on oxidative stress-induced reactions in SARS-CoV-2 spike glycoprotein: a multi-scale approach. <i>Molecular Diversity</i> , 2022, , 1.	2.1	0