

Pau Turon Dols

List of Publications by Year in descending order

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71
papers

977
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471061

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525886

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times ranked

1400
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Incorporation of Functionalized Calcium Phosphate Nanoparticles in Living Cells. <i>Journal of Cluster Science</i> , 2022, 33, 2781-2795.	1.7	3
5	Polarized Hydroxyapatite: New Insights and Future Perspectives Through Systematic Electrical Characterization at the Interface. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	8
6	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
7	Permanently polarized hydroxyapatite, an outstanding catalytic material for carbon and nitrogen fixation. <i>Materials Horizons</i> , 2022, 9, 1566-1576.	6.4	7
8	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
9	Tailorable Nanoporous Hydroxyapatite Scaffolds for Electrothermal Catalysis. <i>ACS Applied Nano Materials</i> , 2022, 5, 8526-8536.	2.4	2
10	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
11	Nanotheranostic 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
12	<i>In vivo</i> soft tissue reinforcement with bacterial nanocellulose. <i>Biomaterials Science</i> , 2021, 9, 3040-3050.	2.6	20
13	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
14	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
15	Regulating the Superficial Vacancies and OH [~] Orientations on Polarized Hydroxyapatite Electrocatalysts. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100163.	1.9	16
16	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
17	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
18	Enhanced CO ₂ Conversion into Ethanol by Permanently Polarized Hydroxyapatite through C-C Coupling. <i>ChemCatChem</i> , 2021, 13, 5025-5033.	1.8	12

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19	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
20	Permanently polarized hydroxyapatite for selective electrothermal catalytic conversion of carbon dioxide into ethanol. <i>Chemical Communications</i> , 2021, 57, 5163-5166.	2.2	14
21	Controlled Anisotropic Growth of Hydroxyapatite by Additive-Free Hydrothermal Synthesis. <i>Crystal Growth and Design</i> , 2021, 21, 748-756.	1.4	18
22	In silico antibody engineering for SARS-CoV-2 detection. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5525-5534.	1.9	2
23	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
24	Microstructural Changes during Degradation of Biobased Poly(4-hydroxybutyrate) Sutures. <i>Polymers</i> , 2020, 12, 2024.	2.0	2
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	Analysis of nitrogen fixation by a catalyst capable of transforming N ₂ , CO ₂ and CH ₄ into amino acids under mild reactions conditions. <i>Applied Catalysis A: General</i> , 2020, 596, 117526.	2.2	9
27	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
28	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
29	Isothermal Crystallization Kinetics of Poly(4-hydroxybutyrate) Biopolymer. <i>Materials</i> , 2019, 12, 2488.	1.3	10
30	Biomaterials Formed by DNA and Calcium Oxalate or Hydroxyapatite: A Comparative Study. <i>Langmuir</i> , 2019, 35, 11912-11922.	1.6	4
31	Electrically Polarized Hydroxyapatite: Influence of the Polarization Process on the Microstructure and Properties. <i>Langmuir</i> , 2019, 35, 14782-14790.	1.6	18
32	Incorporation of Chloramphenicol Loaded Hydroxyapatite Nanoparticles into Polylactide. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5056.	1.8	11
33	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
34	Non-Isothermal Crystallization Kinetics of Poly(4-Hydroxybutyrate) Biopolymer. <i>Molecules</i> , 2019, 24, 2840.	1.7	14
35	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
36	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

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37	Plasmon-Based Biofilm Inhibition on Surgical Implants. Nano Letters, 2019, 19, 2524-2529.	4.5	49
38	Hydroxyapatite with Permanent Electrical Polarization: Preparation, Characterization, and Response against Inorganic Adsorbates. ChemPhysChem, 2018, 19, 1746-1755.	1.0	21
39	Sustainable synthesis of amino acids by catalytic fixation of molecular dinitrogen and carbon dioxide. Green Chemistry, 2018, 20, 685-693.	4.6	26
40	Grafting of Hydroxyapatite for Biomedical Applications. , 2018, , 45-80.		8
41	Tunable Drug Loading and Reinforcement of Polycaprolactone Films by Means of Electrospun Nanofibers of Glycolide Segmented Copolymers. Macromolecular Materials and Engineering, 2018, 303, 1700401.	1.7	3
42	Macromol. Mater. Eng. 2/2018. Macromolecular Materials and Engineering, 2018, 303, 1870007.	1.7	0
43	On the feasibility of the computational modelling of the endoluminal vacuum-assisted closure of an oesophageal anastomotic leakage. Royal Society Open Science, 2018, 5, 171289.	1.1	1
44	2. Close Contacts at the interface: Experimental-computational synergies for solving complexity problems. , 2018, , 53-80.		0
45	Close contacts at the interface: Experimental-computational synergies for solving complexity problems. ChemistrySelect, 2018, 3, .	0.7	1
46	Scaffolds with Tunable Properties Constituted by Electrospun Nanofibers of Polyglycolide and Poly(μ -caprolactone). Macromolecular Materials and Engineering, 2018, 303, 1800100.	1.7	9
47	Loading of Antibiotic into Biocoated Hydroxyapatite Nanoparticles: Smart Antitumor Platforms with Regulated Release. ACS Biomaterials Science and Engineering, 2018, 4, 3234-3245.	2.6	22
48	Incorporation of chloramphenicol and captopril into poly(GL)-b-poly(GL-co-TMC-co-CL)-b-poly(GL) monofilament surgical sutures. Journal of Applied Polymer Science, 2017, 134, .		0
49	Incorporation of biguanide compounds into poly(GL)-b-poly(GL-co-TMC-co-CL)-b-poly(GL) monofilament surgical sutures. Materials Science and Engineering C, 2017, 71, 629-640.	3.8	10
50	Biodegradable and Biocompatible Systems Based on Hydroxyapatite Nanoparticles. Applied Sciences (Switzerland), 2017, 7, 60.	1.3	81
51	Poly(μ -caprolactone) films reinforced with chlorhexidine loaded electrospun polylactide microfibers. EXPRESS Polymer Letters, 2017, 11, 674-689.	1.1	13
52	Study of Non-Isothermal Crystallization of Polydioxanone and Analysis of Morphological Changes Occurring during Heating and Cooling Processes. Polymers, 2016, 8, 351.	2.0	18
53	Introduction of Flexible Cyanoacrylates in Sutureless Gastric Closure. Surgical Innovation, 2016, 23, 490-497.	0.4	3
54	Effects of hydroxyapatite (0001) Ca ²⁺ /Mg ²⁺ substitution on adsorbed d-ribose ring puckering. RSC Advances, 2016, 6, 69634-69640.	1.7	3

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55	Dissolving Hydroxylite: A DNA Molecule into Its Hydroxyapatite Mold. Chemistry - A European Journal, 2016, 22, 6631-6636.	1.7	13
56	Surviving Mass Extinctions through Biomineralized DNA. Chemistry - A European Journal, 2015, 21, 18892-18898.	1.7	6
57	Synergistic Approach to Elucidate the Incorporation of Magnesium Ions into Hydroxyapatite. Chemistry - A European Journal, 2015, 21, 2537-2546.	1.7	24
58	Influence of pH on Morphology and Structure during Hydrolytic Degradation of the Segmented GL-b-[GL-co-TMC-co-CL]-b-GL Copolymer. Fibers, 2015, 3, 348-372.	1.8	8
59	An experimental-computer modeling study of inorganic phosphates surface adsorption on hydroxyapatite particles. Dalton Transactions, 2015, 44, 9980-9991.	1.6	15
60	Nanostructured medical sutures with antibacterial properties. Biomaterials, 2015, 52, 291-300.	5.7	103
61	Towards non-invasive imaging of surgical suture degradation with photoacoustic microscopy. Proceedings of SPIE, 2015, , .	0.8	0
62	Spherulitic morphologies of the triblock Poly(GL)-b-poly(GL-co-TMC-co-CL)-b-poly(GL) copolymer: Isothermal and non-isothermal crystallization studies. European Polymer Journal, 2015, 73, 222-236.	2.6	4
63	Towards non-invasive imaging of surgical suture degradation with photoacoustic microscopy. , 2015, , .		0
64	DNA adsorbed on hydroxyapatite surfaces. Journal of Materials Chemistry B, 2014, 2, 6953-6966.	2.9	41
65	Mineralization of DNA into nanoparticles of hydroxyapatite. Dalton Transactions, 2014, 43, 317-327.	1.6	39
66	Restricted Puckering of Mineralized RNA-Like Riboses. Journal of Physical Chemistry B, 2014, 118, 5075-5081.	1.2	5
67	Isothermal and non-isothermal crystallization kinetics of a polyglycolide copolymer having a tricomponent middle soft segment. Thermochimica Acta, 2014, 585, 71-80.	1.2	14
68	The potential of photoacoustic microscopy as a tool to characterize the in vivo degradation of surgical sutures. Biomedical Optics Express, 2014, 5, 2856.	1.5	6
69	Modeling biominerals formed by apatites and DNA. Biointerphases, 2013, 8, 10.	0.6	28
70	Study on the hydrolytic degradation of the segmented GL-b-[GL-co-TMC-co-CL]-b-GL copolymer with application as monofilament surgical suture. Polymer Degradation and Stability, 2013, 98, 2709-2721.	2.7	7
71	A low memory cost model based reconstruction algorithm exploiting translational symmetry for photoacoustic microscopy. Biomedical Optics Express, 2013, 4, 2813.	1.5	16