Carlos Aleman

List of Publications by Year in Descending Order

621 papers	10,885 citations	46 h-index	65 g-index
647 ext. papers	11,889 ext. citations	4.2 avg, IF	6.55 L-index

#	Paper	IF	Citations
621	In silico study of substrate chemistry effect on the tethering of engineered antibodies for SARS-CoV-2 detection: Amorphous silica vs gold.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 213, 112400	6	
620	Novel Biobased Epoxy Thermosets and Coatings from Poly(limonene carbonate) Oxide and Synthetic Hardeners.. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 2708-2719	8.3	8
619	Computer simulations on oxidative stress-induced reactions in SARS-CoV-2 spike glycoprotein: a multi-scale approach.. *Molecular Diversity*, **2022**, 1	3.1	
618	Polypeptide hydrogel loaded with conducting polymer nanoparticles as electroresponsive delivery system of small hydrophobic drugs. *European Polymer Journal*, **2022**, 111199	5.2	0
617	Electrochemical multi-sensors obtained by applying an electric discharge treatment to 3D-printed poly(lactic acid). *Applied Surface Science*, **2022**, 153623	6.7	1
616	Self-assembly pathways in a triphenylalanine peptide capped with aromatic groups.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 216, 112522	6	2
615	Hydroxyapatite-based biphasic catalysts with plasticity properties and its potential in carbon dioxide fixation. *Chemical Engineering Journal*, **2021**, 433, 133512	14.7	1
614	Hybrid conducting alginate-based hydrogel for hydrogen peroxide detection from enzymatic oxidation of lactate. *International Journal of Biological Macromolecules*, **2021**, 193, 1237-1237	7.9	0
613	Efficient One-Pot Preparation of Thermoresponsive Polyurethanes with Lower Critical Solution Temperatures. *ChemPlusChem*, **2021**, 86, 1570-1576	2.8	
612	antibody engineering for SARS-CoV-2 detection. *Computational and Structural Biotechnology Journal*, **2021**, 19, 5525-5534	6.8	1
611	Unravelling the molecular interactions between the SARS-CoV-2 RBD spike protein and various specific monoclonal antibodies. *Biochimie*, **2021**,	4.6	2
610	Synthesis and characterization of a new benzobisoxazole/thiophene derivative polymer and the effect of the substituent on the push/pull properties. *Journal of Polymer Science*, **2021**, 59, 3167	2.4	
609	Controlled Anisotropic Growth of Hydroxyapatite by Additive-Free Hydrothermal Synthesis. *Crystal Growth and Design*, **2021**, 21, 748-756	3.5	3
608	Polymer infiltrated ceramic networks with biocompatible adhesive and 3D-printed highly porous scaffolds. *Additive Manufacturing*, **2021**, 39, 101850	6.1	4
607	Self-Healable and Eco-Friendly Hydrogels for Flexible Supercapacitors. *Advanced Sustainable Systems*, **2021**, 5, 2000273	5.9	3
606	Manufactured Flexible Electrodes for Dopamine Detection: Integration of Conducting Polymer in 3D-Printed Polylactic Acid. *Advanced Engineering Materials*, **2021**, 23, 2100002	3.5	6
605	Plasma-Functionalized Isotactic Polypropylene Assembled with Conducting Polymers for Bacterial Quantification by NADH Sensing. *Advanced Healthcare Materials*, **2021**, 10, e2100425	10.1	0

604	Electrical and Capacitive Response of Hydrogel Solid-Like Electrolytes for Supercapacitors. *Polymers*, **2021**, 13,	4.5	4
603	Study on the electrochromic properties of polypyrrole layers doped with different dye molecules. *Journal of Electroanalytical Chemistry*, **2021**, 886, 115113	4.1	2
602	Regulating the Superficial Vacancies and OH Orientations on Polarized Hydroxyapatite Electrocatalysts. *Advanced Materials Interfaces*, **2021**, 8, 2100163	4.6	6
601	Structural preferences of an anti-fouling peptide: From single chain to small molecular assemblies. *Biophysical Chemistry*, **2021**, 272, 106555	3.5	0
600	Optimization of permanently polarized hydroxyapatite catalyst. Implications for the electrophotosynthesis of amino acids by nitrogen and carbon fixation. *Journal of Catalysis*, **2021**, 397, 98-107	7.3	1
599	Effect of conducting/thermoresponsive polymer ratio on multitasking nanogels. *Materials Science and Engineering C*, **2021**, 119, 111598	8.3	4
598	Electroactive interpenetrated biohydrogels as hybrid materials based on conducting polymers. *Journal of Applied Polymer Science*, **2021**, 138, 50062	2.9	0
597	Nanotheranostic Interface Based on Antibiotic-Loaded Conducting Polymer Nanoparticles for Real-Time Monitoring of Bacterial Growth Inhibition. *Advanced Healthcare Materials*, **2021**, 10, e2001636	10.1	3
596	Self-standing, conducting and capacitive biomimetic hybrid nanomembranes for selective molecular ion separation. *Physical Chemistry Chemical Physics*, **2021**, 23, 16157-16164	3.6	2
595	Conducting polymer nanoparticles for a voltage-controlled release of pharmacological chaperones. *Soft Matter*, **2021**, 17, 3314-3321	3.6	0
594	Temperature effect on the SARS-CoV-2: A molecular dynamics study of the spike homotrimeric glycoprotein. *Computational and Structural Biotechnology Journal*, **2021**, 19, 1848-1862	6.8	9
593	Tuning multilayered polymeric self-standing films for controlled release of L-lactate by electrical stimulation. *Journal of Controlled Release*, **2021**, 330, 669-683	11.7	2
592	Green Nanocoatings Based on the Deposition of Zirconium Oxide: The Role of the Substrate. *Materials*, **2021**, 14,	3.5	3
591	Investigation of the mechanical properties and biocompatibility of planar and electrospun alkene-styrene copolymers against P(VDF-TrFE) and porcine skin: Potential use as second skin substrates. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 119, 104481	4.1	1
590	Immobilization of glucose oxidase on plasma-treated polyethylene for non-invasive glucose detection. *Journal of Electroanalytical Chemistry*, **2021**, 895, 115509	4.1	3
589	Aluminum Protection by Using Green Zirconium Oxide Layer and Organic Coating: An Efficient and Adherent Dual System. *Sustainability*, **2021**, 13, 9688	3.6	1
588	Remote Spatiotemporal Control of a Magnetic and Electroconductive Hydrogel Network via Magnetic Fields for Soft Electronic Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 42486-42501	9.5	1
587	Atmospheric pressure plasma liquid assisted deposition of polydopamine/acrylate copolymer on zirconia (Y-TZP) ceramics: a biocompatible and adherent nanofilm.. *RSC Advances*, **2021**, 11, 17360-17368	3.7	0

586	Permanently polarized hydroxyapatite for selective electrothermal catalytic conversion of carbon dioxide into ethanol. *Chemical Communications*, **2021**, 57, 5163-5166	5.8	5
585	Biobased Terpene Derivatives: Stiff and Biocompatible Compounds to Tune Biodegradability and Properties of Poly(butylene succinate).. *Polymers*, **2021**, 14,	4.5	2
584	Conductive, self-healable and reusable poly(3,4-ethylenedioxythiophene)-based hydrogels for highly sensitive pressure arrays. *Journal of Materials Chemistry C*, **2020**, 8, 8654-8667	7.1	16
583	Semi-Interpenetrated Hydrogels-Microfibers Electroactive Assemblies for Release and Real-Time Monitoring of Drugs. *Macromolecular Bioscience*, **2020**, 20, e2000074	5.5	1
582	Heterochirality Restricts the Self-Assembly of Phenylalanine Dipeptides Capped with Highly Aromatic Groups. *Journal of Physical Chemistry B*, **2020**, 124, 5913-5918	3.4	7
581	Analysis of nitrogen fixation by a catalyst capable of transforming N2, CO2 and CH4 into amino acids under mild reactions conditions. *Applied Catalysis A: General*, **2020**, 596, 117526	5.1	5
580	Toward the New Generation of Surgical Meshes with 4D Response: Soft, Dynamic, and Adaptable. *Advanced Functional Materials*, **2020**, 30, 2004145	15.6	6
579	Encapsulation and Storage of Therapeutic Fibrin-Homing Peptides using Conducting Polymer Nanoparticles for Programmed Release by Electrical Stimulation. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2135-2145	5.5	18
578	Free-standing flexible and biomimetic hybrid membranes for ions and ATP transport. *Journal of Membrane Science*, **2020**, 601, 117931	9.6	3
577	Polypropylene mesh for hernia repair with controllable cell adhesion/de-adhesion properties. *Journal of Materials Chemistry B*, **2020**, 8, 1049-1059	7.3	15
576	Thermoresponsive Shape-Memory Hydrogel Actuators Made by Phototriggered Click Chemistry. *Advanced Functional Materials*, **2020**, 30, 2001683	15.6	14
575	Aggregation propensity of therapeutic fibrin-homing pentapeptides: insights from experiments and molecular dynamics simulations. *Soft Matter*, **2020**, 16, 10169-10179	3.6	2
574	Spectroscopy investigations reveal unprecedented details in the corrosion of AISI 1012 UPN profiles installed in a modernist building of beginning of 20th century. *Journal of Cultural Heritage*, **2020**, 42, 240-248	2.9	
573	Biohydrogel from unsaturated polyesteramide: Synthesis, properties and utilization as electrolytic medium for electrochemical supercapacitors. *Polymer Testing*, **2020**, 82, 106300	4.5	4
572	Structural and functional characterization of Solanum tuberosum VDAC36. *Proteins: Structure, Function and Bioinformatics*, **2020**, 88, 729-739	4.2	3
571	Effect on the Conformation of a Terminally Blocked, () Unsaturated Amino Acid Residue Induced by Carbon Methylation. *Journal of Organic Chemistry*, **2020**, 85, 1513-1524	4.2	2
570	Electroresponsive Alginate-Based Hydrogels for Controlled Release of Hydrophobic Drugs. *ACS Biomaterials Science and Engineering*, **2020**, 6, 6228-6240	5.5	9
569	Tethering of the IgG1 Antibody to Amorphous Silica for Immunosensor Development: A Molecular Dynamics Study. *Langmuir*, **2020**, 36, 12658-12667	4	2

568	Molecular dynamics simulations on self-healing behavior of ionene polymer-based nanostructured hydrogels. *Polymer*, **2020**, 211, 123072	3.9	5
567	Breaking-down the catalyst used for the electrophotosynthesis of amino acids by nitrogen and carbon fixation. *Journal of Catalysis*, **2020**, 389, 646-656	7.3	5
566	Recycled Low-Density Polyethylene for Noninvasive Glucose Monitoring: A Proposal for Plastic Recycling that Adds Technological Value. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12554-12560	8.3	2
565	The effect of dodecylbenzenesulfonic acid molecules on poly(4,4-diphenylether-5,5-dibenzimidazole) films. *Journal of Polymer Research*, **2020**, 27, 1	2.7	
564	Advanced Functional Hydrogel Biomaterials Based on Dynamic B-O Bonds and Polysaccharide Building Blocks. *Biomacromolecules*, **2020**, 21, 3984-3996	6.9	21
563	Nanofeatures affect the thermal transitions of polymer thin films: a microcantilever-based investigation. *Materials Advances*, **2020**, 1, 2084-2094	3.3	1
562	Doped photo-crosslinked polyesteramide hydrogels as solid electrolytes for supercapacitors. *Soft Matter*, **2020**, 16, 8033-8046	3.6	2
561	Smart design for a flexible, functionalized and electroresponsive hybrid platform based on poly(3,4-ethylenedioxythiophene) derivatives to improve cell viability. *Journal of Materials Chemistry B*, **2020**, 8, 8864-8877	7.3	2
560	Revisiting the Self-Assembly of Highly Aromatic Phenylalanine Homopeptides. *Molecules*, **2020**, 25,	4.8	10
559	2,7-Linked N-methylcarbazole copolymers by combining the macromonomer approach and the oxidative electrochemical polymerization. *Polymer Bulletin*, **2020**, 77, 1233-1253	2.4	2
558	Electrochemical Sensor for Bacterial Metabolism Based on the Detection of NADH by Polythiophene Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 22181-22190	3.8	10
557	Antimicrobial activity of poly(3,4-ethylenedioxythiophene) n-doped with a pyridinium-containing polyelectrolyte. *Soft Matter*, **2019**, 15, 7695-7703	3.6	9
556	Cell Responses to Electrical Pulse Stimulation for Anticancer Drug Release. *Materials*, **2019**, 12,	3.5	7
555	Study on the control of porosity in films of polythiophene derivatives. *Polymer*, **2019**, 182, 121858	3.9	
554	Influence of the atmosphere conditions in the structure, properties and solubility of fluorine-substituted hydroxyapatites. *Materials Chemistry and Physics*, **2019**, 226, 279-289	4.4	4
553	Tailoring the self-assembly of a tripeptide for the formation of antimicrobial surfaces. *Nanoscale*, **2019**, 11, 8752-8759	7.7	17
552	Scaffolds for Sustained Release of Ambroxol Hydrochloride, a Pharmacological Chaperone That Increases the Activity of Misfolded □Glucocerebrosidase. *Macromolecular Bioscience*, **2019**, 19, e1900130	5.5	3
551	Amyloid fibrils from organic solutions of an amphiphilic dipeptide. *Chemical Communications*, **2019**, 55, 8556-8559	5.8	3

550	Hydrogels for flexible and compressible free standing cellulose supercapacitors. *European Polymer Journal*, **2019**, 118, 347-357	5.2	18
549	Interface porosity in multilayered all-conducting polymer electrodes. *Polymer Engineering and Science*, **2019**, 59, 1624-1635	2.3	1
548	Main-chain scission of individual macromolecules induced by solvent swelling. *Chemical Science*, **2019**, 10, 6125-6139	9.4	9
547	Peptide-polymer conjugate material: Understanding its conformational preferences as a function of the degree of solvation. *Chemical Physics*, **2019**, 522, 163-170	2.3	3
546	The mechanism of adhesion and graft polymerization of a PNIPAAm thermoresponsive hydrogel to polypropylene meshes. *Soft Matter*, **2019**, 15, 3432-3442	3.6	8
545	Biomimetic hybrid membranes: incorporation of transport proteins/peptides into polymer supports. *Soft Matter*, **2019**, 15, 2722-2736	3.6	9
544	Peptide Self-Assembly into Hydrogels for Biomedical Applications Related to Hydroxyapatite. *Gels*, **2019**, 5,	4.2	28
543	A molecular dynamics study on glucose molecular recognition by a non-enzymatic selective sensor based on a conducting polymer. *Physical Chemistry Chemical Physics*, **2019**, 21, 8099-8107	3.6	9
542	Electrospun Conducting and Biocompatible Uniaxial and Core-Shell Fibers Having Poly(lactic acid), Poly(ethylene glycol), and Polyaniline for Cardiac Tissue Engineering. *ACS Omega*, **2019**, 4, 3660-3672	3.9	43
541	Perforated polyester nanomebranes as templates of electroactive and robust free-standing films. *European Polymer Journal*, **2019**, 114, 213-222	5.2	5
540	An amphiphilic, heterografted polythiophene copolymer containing biocompatible/biodegradable side chains for use as an (electro)active surface in biomedical applications. *Polymer Chemistry*, **2019**, 10, 5010-5022	4.9	12
539	Biominerals Formed by DNA and Calcium Oxalate or Hydroxyapatite: A Comparative Study. *Langmuir*, **2019**, 35, 11912-11922	4	3
538	Free-Standing Faradaic Motors Based on Biocompatible Nanoperforated Poly(lactic Acid) Layers and Electropolymerized Poly(3,4-ethylenedioxythiophene). *ACS Applied Materials & Interfaces*, **2019**, 11, 29427-29435	9.5	6
537	Drug delivery systems based on intrinsically conducting polymers. *Journal of Controlled Release*, **2019**, 309, 244-264	11.7	47
536	Expanding the limits of amide-triazole isosteric substitution in bisamide-based physical gels.. *RSC Advances*, **2019**, 9, 20841-20851	3.7	7
535	Electrically Polarized Hydroxyapatite: Influence of the Polarization Process on the Microstructure and Properties. *Langmuir*, **2019**, 35, 14782-14790	4	10
534	Incorporation of Chloramphenicol Loaded Hydroxyapatite Nanoparticles into Polylactide. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
533	Electrochromic Self-Electrostabilized Polypyrrole Films Doped with Surfactant and Azo Dye. *Polymers*, **2019**, 11,	4.5	4

532	Phage-Display-Derived Peptide Binds to Human CD206 and Modeling Reveals a New Binding Site on the Receptor. *Journal of Physical Chemistry B*, **2019**, 123, 1973-1982	3.4	11
531	Polyaniline coated core-shell polyacrylates: Control of film formation and coating application for corrosion protection. *Progress in Organic Coatings*, **2019**, 128, 40-51	4.8	21
530	3D structure of a porin: molecular modelling in lipid membranes. *Journal of Biomolecular Structure and Dynamics*, **2019**, 37, 3923-3935	3.6	5
529	Self-Assembly of Lipopeptides Containing Short Peptide Fragments Derived from the Gastrointestinal Hormone PYY: From Micelles to Amyloid Fibrils. *Journal of Physical Chemistry B*, **2019**, 123, 614-621	3.4	14
528	Ion-Ion Repulsions and Charge-Shielding Effects Dominate the Permeation Mechanism through the OmpF Porin Channel. *Journal of Physical Chemistry B*, **2019**, 123, 86-94	3.4	4
527	Hybrid organophosphonic-silane coating for corrosion protection of magnesium alloy AZ91: The influence of acid and alkali pre-treatments. *Surface and Coatings Technology*, **2019**, 357, 728-739	4.4	16
526	Dual-Functionalization Device for Therapy through Dopamine Release and Monitoring. *Macromolecular Bioscience*, **2018**, 18, e1800014	5.5	7
525	Hydroxyapatite with Permanent Electrical Polarization: Preparation, Characterization, and Response against Inorganic Adsorbates. *ChemPhysChem*, **2018**, 19, 1746-1755	3.2	15
524	The fully-extended conformation in peptides and proteins. *Peptide Science*, **2018**, 110, e23100	3	5
523	The Conformation and Aggregation of Proline-Rich Surfactant-Like Peptides. *Journal of Physical Chemistry B*, **2018**, 122, 1826-1835	3.4	11
522	Massive quantum regions for simulations on bio-nanomaterials: synthetic ferritin nanocages. *Chemical Communications*, **2018**, 54, 2118-2121	5.8	5
521	Designing Stainless Steel Surfaces with Anti-Pitting Properties Applying Laser Ablation and Organofluorine Coatings. *Advanced Engineering Materials*, **2018**, 20, 1700814	3.5	7
520	Sustainable synthesis of amino acids by catalytic fixation of molecular dinitrogen and carbon dioxide. *Green Chemistry*, **2018**, 20, 685-693	10	17
519	Grafting of Hydroxyapatite for Biomedical Applications **2018**, 45-80		4
518	Flexible Electrodes for Supercapacitors Based on the Supramolecular Assembly of Biohydrogel and Conducting Polymer. *Journal of Physical Chemistry C*, **2018**, 122, 1078-1090	3.8	33
517	Influence of the surrounding environment in re-naturalized β-barrel membrane proteins. *Biophysical Chemistry*, **2018**, 234, 6-15	3.5	3
516	Specific Interactions Between Electroactive Conducting Polymers and DNA Bases. *Materials and Energy*, **2018**, 115-138		
515	Prototyping flexible supercapacitors produced with biohydrogel. *Materials Today Communications*, **2018**, 16, 60-70	2.5	6

514	Sustainable Solid-State Supercapacitors Made of 3D-Poly(3,4-ethylenedioxythiophene) and Carrageenan Biohydrogel. *Advanced Engineering Materials*, **2018**, 20, 1800018	3.5	6
513	Cationic ionene as an n-dopant agent of poly(3,4-ethylenedioxythiophene). *Physical Chemistry Chemical Physics*, **2018**, 20, 9855-9864	3.6	6
512	Plasma-treated polyethylene as electrochemical mediator for enzymatic glucose sensors: Toward bifunctional glucose and dopamine sensors. *Plasma Processes and Polymers*, **2018**, 15, 1700133	3.4	10
511	Multifunctional coatings based on silicone matrix and propolis extract. *Progress in Organic Coatings*, **2018**, 123, 223-231	4.8	17
510	Loading of Antibiotic into Biocoated Hydroxyapatite Nanoparticles: Smart Antitumor Platforms with Regulated Release. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3234-3245	5.5	18
509	Hybrid Polypeptide/Polylactide Copolymers with Short Phenylalanine Blocks. *Macromolecular Chemistry and Physics*, **2018**, 219, 1800168	2.6	7
508	Isomeric cationic ionenes as n-dopant agents of poly(3,4-ethylenedioxythiophene) for in situ gelation. *Soft Matter*, **2018**, 14, 6374-6385	3.6	8
507	Thermomechanical Response of a Representative Porin for Biomimetics. *ACS Omega*, **2018**, 3, 7856-7867	3.9	11
506	Amphiphilic polypyrrole-poly(Schiff base) copolymers with poly(ethylene glycol) side chains: synthesis, properties and applications. *Polymer Chemistry*, **2018**, 9, 4218-4232	4.9	16
505	Detailed Description of the Molecular Organization behind AFM Images of Polymer Coatings: A Molecular Modeling Approach. *Journal of Physical Chemistry C*, **2018**, 122, 20261-20270	3.8	1
504	Pastes and hydrogels from carboxymethyl cellulose sodium salt as supporting electrolyte of solid electrochemical supercapacitors. *Carbohydrate Polymers*, **2018**, 200, 456-467	10.3	21
503	Modeling of a C-end rule peptide adsorbed onto gold nanoparticles. *Journal of Peptide Science*, **2018**, 24, e3057	2.1	3
502	2. Close Contacts at the interface: Experimental-computational synergies for solving complexity problems **2018**, 53-80		
501	Amyloid-like Fibrils from a Diphenylalanine Capped with an Aromatic Fluorenyl. *Langmuir*, **2018**, 34, 15551-15559	3.9	
500	Close contacts at the interface: Experimental-computational synergies for solving complexity problems. *ChemistrySelect*, **2018**, 3,	1.8	1
499	Assembly of Conducting Polymer and Biohydrogel for the Release and Real-Time Monitoring of Vitamin K3. *Gels*, **2018**, 4,	4.2	3
498	Smart Drug Delivery from Electrospun Fibers through Electroresponsive Polymeric Nanoparticles.. *ACS Applied Bio Materials*, **2018**, 1, 1594-1605	4.1	29
497	Plasma surface modification of polymers for sensor applications. *Journal of Materials Chemistry B*, **2018**, 6, 6515-6533	7.3	19

496	Impact of Protein-Polymer Interactions in the Antimicrobial Activity of Lysozyme/Poly(3,4-ethylenedioxythiophene) Biocapacitors. *ChemistrySelect*, **2018**, 3, 9714-9724	1.8	1
495	Properties of Omp2a-Based Supported Lipid Bilayers: Comparison with Polymeric Bioinspired Membranes. *ACS Omega*, **2018**, 3, 9003-9019	3.9	7
494	Poly-Eglutamic Acid Hydrogels as Electrolyte for Poly(3,4-ethylenedioxythiophene)-Based Supercapacitors. *Journal of Physical Chemistry C*, **2017**, 121, 3182-3193	3.8	22
493	Protective Coatings for Aluminum Alloy Based on Hyperbranched 1,4-Polytriazoles. *ACS Applied Materials & Interfaces*, **2017**, 9, 4231-4243	9.5	24
492	Conformational analysis of a modified RGD adhesive sequence. *Journal of Peptide Science*, **2017**, 23, 172-181	1.8	2
491	Surface Mediated Hierarchical Assemblies of Highly Hydrophobic Phenylalanine-Based Peptides. *ChemistrySelect*, **2017**, 2, 1133-1139	1.8	7
490	Preparation and Characterization of Poly(N-Methylpyrrole)/MoO3 Hybrid Composites. *Polymer-Plastics Technology and Engineering*, **2017**, 56, 1704-1712		4
489	Biodegradable nanofibrous scaffolds as smart delivery vehicles for amino acids. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	4
488	En route towards the peptide helix: X-ray diffraction analyses and conformational energy calculations of Adm-rich short peptides. *Journal of Peptide Science*, **2017**, 23, 346-362	2.1	8
487	Improving the fabrication of all-polythiophene supercapacitors. *Polymer Science - Series B*, **2017**, 59, 194-201	2.1	6
486	Influence of pH in the synthesis of ferric tannate pigment for application in antifouling coatings **2017**, 14, 945-953		4
485	A Protocol for the Design of Protein and Peptide Nanostructure Self-Assemblies Exploiting Synthetic Amino Acids. *Methods in Molecular Biology*, **2017**, 1529, 323-352	1.4	0
484	Corrosion rate evaluation by gravimetric and electrochemical techniques applied to the metallic reinforcing structures of a historic building. *Journal of Cultural Heritage*, **2017**, 27, 153-163	2.9	9
483	Properties of In situ polymerized poly(3,4-ethylenedioxythiophene)/alumina composites for energy storage applications. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 1131-1141	2.6	5
482	Aromatic ionene topology and counterion-tuned gelation of acidic aqueous solutions. *Soft Matter*, **2017**, 13, 3031-3041	3.6	14
481	Distribution of dopant ions around poly(3,4-ethylenedioxythiophene) chains: a theoretical study. *Physical Chemistry Chemical Physics*, **2017**, 19, 9889-9899	3.6	5
480	Effect of Solvent Choice on the Self-Assembly Properties of a Diphenylalanine Amphiphile Stabilized by an Ion Pair. *ChemPhysChem*, **2017**, 18, 1888-1896	3.2	14
479	Diversity and Hierarchy in Supramolecular Assemblies of Triphenylalanine: From Laminated Helical Ribbons to Toroids. *Langmuir*, **2017**, 33, 4036-4048	4	23

478	Plasma functionalized surface of commodity polymers for dopamine detection. *Applied Surface Science*, **2017**, 399, 638-647	6.7	13
477	Nanophase-segregation in the dielectric layer enhances the charge storage capacity of polymeric electrochemical supercapacitors. *Organic Electronics*, **2017**, 51, 322-331	3.5	4
476	Self-assembly of diphenylalanine with preclick components as capping groups. *Physical Chemistry Chemical Physics*, **2017**, 19, 27038-27051	3.6	7
475	The biocompatible polythiophene-g-polycaprolactone copolymer as an efficient dopamine sensor platform. *Polymer Chemistry*, **2017**, 8, 6112-6122	4.9	17
474	Composites Based on Hydroxyapatite and Biodegradable Polylactide **2017**, 183-214		
473	Electrostimulated Release of Neutral Drugs from Polythiophene Nanoparticles: Smart Regulation of Drug-Polymer Interactions. *Advanced Healthcare Materials*, **2017**, 6, 1700453	10.1	29
472	Paradigm Shift for Preparing Versatile M-Free Gels from Unmodified Sodium Alginate. *Biomacromolecules*, **2017**, 18, 2967-2979	6.9	25
471	Weighing biointeractions between fibrin(ogen) and clot-binding peptides using microcantilever sensors. *Journal of Peptide Science*, **2017**, 23, 162-171	2.1	7
470	Intramolecular backbone□backbone hydrogen bonds in polypeptide conformations. The other way around: e-turn. *Biopolymers*, **2017**, 108, e22911	2.2	6
469	Biodegradable and Biocompatible Systems Based on Hydroxyapatite Nanoparticles. *Applied Sciences (Switzerland)*, **2017**, 7, 60	2.6	55
468	Antimicrobial Electrospun Fibers of Polyester Loaded with Engineered Cyclic Gramicidin Analogues. *Fibers*, **2017**, 5, 34	3.7	3
467	Confinement of a □barrel protein in nanoperforated free-standing nanomembranes for ion transport. *Nanoscale*, **2016**, 8, 16922-16935	7.7	16
466	Development of Novel Biobased Epoxy Films with Aliphatic and Aromatic Amine Hardeners for the Partial Replacement of Bisphenol a in Primer Coatings **2016**, 121-148		1
465	Fibrin Association at Hybrid Biointerfaces Made of Clot-Binding Peptides and Polythiophene. *Macromolecular Bioscience*, **2016**, 16, 1461-1474	5.5	9
464	Nanometric polythiophene films with electrocatalytic activity for non-enzymatic detection of glucose. *European Polymer Journal*, **2016**, 79, 132-139	5.2	13
463	Dissolving Hydroxyolite: A DNA Molecule into Its Hydroxyapatite Mold. *Chemistry - A European Journal*, **2016**, 22, 6631-6	4.8	11
462	Nanoperforations in poly(lactic acid) free-standing nanomembranes to promote interactions with cell filopodia. *European Polymer Journal*, **2016**, 75, 552-564	5.2	17
461	Fmoc-RGDS based fibrils: atomistic details of their hierarchical assembly. *Physical Chemistry Chemical Physics*, **2016**, 18, 1265-78	3.6	13

460	Towards sustainable solid-state supercapacitors: electroactive conducting polymers combined with biohydrogels. *Journal of Materials Chemistry A*, **2016**, 4, 1792-1805	13	79
459	Semiconducting, biodegradable and bioactive fibers for drug delivery. *EXPRESS Polymer Letters*, **2016**, 10, 628-646	3.4	14
458	Properties of Cu nanoparticles/poly(N-methylpyrrole) composites. *Polymer Composites*, **2016**, 37, 594-601	3	1
457	Enhanced dielectric performance of a block copolymer-polythiophene nanocomposite. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 1896-1905	2.6	5
456	Composites based on epoxy resins and poly(3-thiophene methyl acetate) nanoparticles: mechanical and electrical properties. *Polymer Composites*, **2016**, 37, 734-745	3	
455	Self-assembled fibrillar networks of a multifaceted chiral squaramide: supramolecular multistimuli-responsive alcogels. *Soft Matter*, **2016**, 12, 4361-74	3.6	31
454	Solvatochromism of dye-labeled dendronized polymers of generation numbers 1-4: comparison to dendrimers. *Chemical Science*, **2016**, 7, 4644-4652	9.4	9
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