Carlos Aleman

List of Publications by Citations

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	Corrosion protection with polyaniline and polypyrrole as anticorrosive additives for epoxy paint. *Corrosion Science*, **2008**, 50, 721-728	6.8	200
620	Crystal Structure of the Form of Poly(l-lactide). *Macromolecules*, **2001**, 34, 4795-4801	5.5	176
619	Powering the future: application of cellulose-based materials for supercapacitors. *Green Chemistry*, **2016**, 18, 5930-5956	10	142
618	Nanoparticle-induced vascular blockade in human prostate cancer. *Blood*, **2010**, 116, 2847-56	2.2	130
617	Why delta-valerolactone polymerizes and gamma-butyrolactone does not. *Journal of Organic Chemistry*, **2008**, 73, 2674-8	4.2	130
616	Symmetric Supercapacitors Based on Multilayers of Conducting Polymers. *Journal of Physical Chemistry C*, **2011**, 115, 8430-8438	3.8	125
615	Cellular adhesion and proliferation on poly(3,4-ethylenedioxythiophene): Benefits in the electroactivity of the conducting polymer. *European Polymer Journal*, **2007**, 43, 2342-2349	5.2	110
614	Marine paint fomulations: Conducting polymers as anticorrosive additives. *Progress in Organic Coatings*, **2007**, 59, 46-52	4.8	106
613	Anticorrosion performances of epoxy coatings modified with polyaniline: A comparison between the emeraldine base and salt forms. *Progress in Organic Coatings*, **2009**, 65, 88-93	4.8	105
612	Electrochemical Synthesis of Poly(3,4-ethylenedioxythiophene) on Steel Electrodes: Properties and Characterization. *Journal of Polymer Research*, **2006**, 13, 193-200	2.7	99
611	Diradical dications of m- and p-phenylenebis[2,5-di(2-thienyl)-1-pyrrole]: weakly coupled diradicals. *Journal of Organic Chemistry*, **2001**, 66, 4058-61	4.2	92
610	Polyaniline, polypyrrole and poly(3,4-ethylenedioxythiophene) as additives of organic coatings to prevent corrosion. *Surface and Coatings Technology*, **2009**, 203, 3763-3769	4.4	89
609	Reviewing extrapolation procedures of the electronic properties on the conjugated polymer limit. *Journal of Physical Chemistry A*, **2012**, 116, 7571-83	2.8	84
608	Towards sustainable solid-state supercapacitors: electroactive conducting polymers combined with biohydrogels. *Journal of Materials Chemistry A*, **2016**, 4, 1792-1805	13	79
607	Conjugation in 2,2Bithiophene and Its Dimethyl Derivatives:´ Model Compounds of Organic Conducting Polymers Based on Thiophene Rings. *The Journal of Physical Chemistry*, **1996**, 100, 1524-1529		75
606	Solvation of cytosine and thymine using a combined Discrete/SCRF model. *Chemical Physics Letters*, **1999**, 302, 461-470	2.5	68
605	The ketoEmino/enol tautomerism of cytosine in aqueous solution. A theoretical study using combined discrete/self-consistent reaction field models. *Chemical Physics*, **2000**, 253, 13-19	2.3	67

604	Measuring the proton conductivity of ion-exchange membranes using electrochemical impedance spectroscopy and through-plane cell. *Journal of Physical Chemistry B*, **2014**, 118, 1102-12	3.4	66
603	Nanomembranes and Nanofibers from Biodegradable Conducting Polymers. *Polymers*, **2013**, 5, 1115-1157	4.5	66
602	Comparative Theoretical Study of Heterocyclic Conducting Oligomers: Neutral and Oxidized Forms. *Journal of Physical Chemistry C*, **2007**, 111, 4823-4830	3.8	65
601	Calculated and experimental NMR chemical shifts of p-menthane-3,9-diols. A combination of molecular dynamics and quantum mechanics to determine the structure and the solvent effects. *Journal of Organic Chemistry*, **2001**, 66, 3775-82	4.2	64
600	Current status and challenges of biohydrogels for applications as supercapacitors and secondary batteries. *Journal of Materials Chemistry A*, **2016**, 4, 8952-8968	13	62
599	Cellular adhesion, proliferation and viability on conducting polymer substrates. *Macromolecular Bioscience*, **2008**, 8, 1144-51	5.5	59
598	Binding of a C-end rule peptide to the neuropilin-1 receptor: a molecular modeling approach. *Biochemistry*, **2011**, 50, 1755-62	3.2	58
597	Thermodynamic control of the polymerizability of five-, six-, and seven-membered lactones. *Journal of Organic Chemistry*, **2009**, 74, 6237-44	4.2	58
596	Hydration of cytosine using combined discrete/SCRF models: influence of the number of discrete solvent molecules. *Chemical Physics*, **1999**, 244, 151-162	2.3	57
595	Suitability of the PM3-derived molecular electrostatic potentials. *Journal of Computational Chemistry*, **1993**, 14, 799-808	3.5	56
594	Biodegradable and Biocompatible Systems Based on Hydroxyapatite Nanoparticles. *Applied Sciences (Switzerland)*, **2017**, 7, 60	2.6	55
593	Ultrathin Films of Polypyrrole Derivatives for Dopamine Detection. *Journal of Physical Chemistry C*, **2011**, 115, 14933-14941	3.8	54
592	On the Ability of Modified Peptide Links to Form Hydrogen Bonds. *Journal of Physical Chemistry A*, **2001**, 105, 6717-6723	2.8	54
591	Molecular and Electronic Structures of Heteroaromatic Oligomers: Model Compounds of Polymers with Quantum-Well Structures. *Journal of Organic Chemistry*, **1998**, 63, 1041-1048	4.2	53
590	A synergistic combination of tetraethylorthosilicate and multiphosphonic acid offers excellent corrosion protection to AA1100 aluminum alloy. *Applied Surface Science*, **2013**, 273, 758-768	6.7	52
589	Partial replacement of metallic zinc dust in heavy duty protective coatings by conducting polymer. *Progress in Organic Coatings*, **2010**, 69, 26-30	4.8	52
588	On the helical conformation of un-ionized poly(gamma-D-glutamic acid). *International Journal of Biological Macromolecules*, **1998**, 23, 175-84	7.9	52
587	Retromodified Residues: Small Peptides and Polymers. Interactions, Force-Field Parametrization and Conformational Analyses. *Journal of Organic Chemistry*, **1995**, 60, 910-924	4.2	52

586	New sulfonated polystyrene and styrene-ethylene/butylene-styrene block copolymers for applications in electrodialysis. *Journal of Physical Chemistry B*, **2012**, 116, 11767-79	3.4	51
585	Self-assembly of Fmoc-tetrapeptides based on the RGDS cell adhesion motif. *Soft Matter*, **2011**, 7, 11405	3.6	51
584	Nanostructured conducting polymer for dopamine detection. *Journal of Materials Chemistry*, **2010**, 20, 10652		50
583	Hybrid polythiophene□clay exfoliated nanocomposites for ultracapacitor devices. *Journal of Materials Chemistry*, **2012**, 22, 13110		49
582	Conformational Properties of □Amino Acids Disubstituted at the □Carbon. *Journal of Physical Chemistry B*, **1997**, 101, 5046-5050	3.4	49
581	Principles of nanostructure design with protein building blocks. *Proteins: Structure, Function and Bioinformatics*, **2007**, 68, 1-12	4.2	49
580	Application of a polythiophene derivative as anticorrosive additive for paints. *Progress in Organic Coatings*, **2005**, 53, 217-224	4.8	49
579	Drug delivery systems based on intrinsically conducting polymers. *Journal of Controlled Release*, **2019**, 309, 244-264	11.7	47
578	A rigid, chiral, dendronized polymer with a thermally stable, right-handed helical conformation. *Chemistry - A European Journal*, **2008**, 14, 6924-34	4.8	47
577	Electrochemical characteristics of copolymers electrochemically synthesized from N-methylpyrrole and 3,4-ethylenedioxythiophene on steel electrodes: Comparison with homopolymers. *Chemical Physics*, **2006**, 328, 299-306	2.3	47
576	Theoretical Investigation of the 3,4-Ethylenedioxythiophene Dimer and Unsubstituted Heterocyclic Derivatives. *Journal of Physical Chemistry A*, **2004**, 108, 1440-1447	2.8	47
575	Selective detection of dopamine combining multilayers of conducting polymers with gold nanoparticles. *Journal of Physical Chemistry B*, **2014**, 118, 4669-82	3.4	46
574	Structural and electronic properties of 3,4-ethylenedioxythiophene, 3,4-ethylenedisulfanylfurane and thiophene oligomers: A theoretical investigation. *Synthetic Metals*, **2005**, 149, 151-156	3.6	46
573	Conformation of the helical polyamide poly(□sobutyl L-aspartate). *Macromolecules*, **1992**, 25, 5225-5230	5.5	46
572	Exploiting molecular self-assembly: from urea-based organocatalysts to multifunctional supramolecular gels. *Chemistry - A European Journal*, **2014**, 20, 10720-31	4.8	45
571	Ab initio calculations on pi-stacked thiophene dimer, trimer, and tetramer: structure, interaction energy, cooperative effects, and intermolecular electronic parameters. *Journal of Computational Chemistry*, **2008**, 29, 69-78	3.5	45
570	On the molecular properties of polyaniline: A comprehensive theoretical study. *Polymer*, **2008**, 49, 5169-5176	3.9	45
569	2,2□Bithienyl derivatives: EPR investigation of their radical ions in solution, electrochemical properties, and crystal structure. *Journal of Organic Chemistry*, **1993**, 58, 3091-3099	4.2	45

568	Novel Epoxy Coating Based on DMSO as a Green Solvent, Reducing Drastically the Volatile Organic Compound Content and Using Conducting Polymers As a Nontoxic Anticorrosive Pigment. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 1609-1618	8.3	44
567	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
566	Sequence dependence of C-end rule peptides in binding and activation of neuropilin-1 receptor. *Journal of Structural Biology*, **2013**, 182, 78-86	3.4	42
565	Influence of the Phenyl Side Chain on the Conformation of Cyclopropane Analogues of Phenylalanine. *Journal of Physical Chemistry B*, **2002**, 106, 11849-11858	3.4	42
564	Polyaniline emeraldine salt in the amorphous solid state: polaron versus bipolaron. *Journal of Physical Chemistry B*, **2014**, 118, 11552-62	3.4	41
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561	Biodegradable free-standing nanomembranes of conducting polymer:polyester blends as bioactive platforms for tissue engineering. *Journal of Materials Chemistry*, **2012**, 22, 585-594		40
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558	A molecular mechanical study of the structure of poly(alpha-aminoisobutyric acid). *Biopolymers*, **1992**, 32, 621-31	2.2	40
557	Insulating and semiconducting polymeric free-standing nanomembranes with biomedical applications. *Journal of Materials Chemistry B*, **2015**, 3, 5904-5932	7.3	39
556	Conformational preferences of alpha-substituted proline analogues. *Journal of Organic Chemistry*, **2008**, 73, 3418-27	4.2	39
555	De novo tubular nanostructure design based on self-assembly of beta-helical protein motifs. *Structure*, **2006**, 14, 1137-48	5.2	39
554	Thermoplastic polyurethane:polythiophene nanomembranes for biomedical and biotechnological applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 9719-32	9.5	38
553	Evaluation of an environmentally friendly anticorrosive pigment for alkyd primer. *Progress in Organic Coatings*, **2012**, 73, 321-329	4.8	38
552	Modified tannin extracted from black wattle tree as an environmentally friendly antifouling pigment. *Industrial Crops and Products*, **2015**, 65, 506-514	5.9	38
551	Helical preferences of alanine, glycine, and aminoisobutyric homopeptides **1997**, 28, 83-93		38

550	Electroactivity, electrochemical stability and electrical conductivity of multilayered films containing poly(3,4-ethylendioxythiophene) and poly(N-methylpyrrole). *European Polymer Journal*, **2007**, 43, 1876-1882	5.2	38
549	Study of epoxy and alkyd coatings modified with emeraldine base form of polyaniline. *Progress in Organic Coatings*, **2007**, 58, 316-322	4.8	38
548	Conformational analysis of helical poly(beta-L-aspartate)s by IR dichroism. *Biopolymers*, **1995**, 36, 263-71	2.2	38
547	Ultraporous poly(3,4-ethylenedioxythiophene) for nanometric electrochemical supercapacitor. *Thin Solid Films*, **2012**, 520, 4402-4409	2.2	37
546	Folding of Methylene Groups in Linear Glutaramide Analogs. *Journal of the American Chemical Society*, **1995**, 117, 7307-7310	16.4	37
545	Self-Assembly of Tetraphenylalanine Peptides. *Chemistry - A European Journal*, **2015**, 21, 16895-905	4.8	36
544	Structure by design: from single proteins and their building blocks to nanostructures. *Trends in Biotechnology*, **2006**, 24, 449-54	15.1	36
543	Application of electrochemically produced and oxidized poly(3,4-ethylenedioxythiophene) as anticorrosive additive for paints: Influence of the doping level. *Journal of Applied Polymer Science*, **2006**, 102, 1592-1599	2.9	36
542	A new strategy for the evaluation of force parameters from quantum mechanical computations. *Journal of Computational Chemistry*, **1991**, 12, 664-674	3.5	36
541	A rational design for the selective detection of dopamine using conducting polymers. *Physical Chemistry Chemical Physics*, **2014**, 16, 7850-61	3.6	35
540	Phosphonic acid/silica-based films: A potential treatment for corrosion protection. *Corrosion Science*, **2012**, 60, 173-180	6.8	35
539	Examining the planarity of poly(3,4-ethylenedioxythiophene): consideration of self-rigidification, electronic, and geometric effects. *Journal of Physical Chemistry A*, **2010**, 114, 1023-8	2.8	35
538	Nanostructure design using protein building blocks enhanced by conformationally constrained synthetic residues. *Biochemistry*, **2007**, 46, 1205-18	3.2	35
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535	Structural Study on Poly(□-aspartate)s with Short Alkyl Side Chains:´ Helical and Extended Crystal Forms. *Macromolecules*, **1996**, 29, 8449-8459	5.5	34
534	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
533	Sol-gel hybrid films based on organosilane and montmorillonite for corrosion inhibition of AA2024. *Journal of Colloid and Interface Science*, **2014**, 426, 308-13	9.3	33

532	Mineralization of DNA into nanoparticles of hydroxyapatite. *Dalton Transactions*, **2014**, 43, 317-27	4.3	33
531	A quantum mechanical study of the intrinsic helix-forming tendency of □aminoisobutyric acid and dehydroalanine residues. *Biopolymers*, **1994**, 34, 841-847	2.2	33
530	DNA adsorbed on hydroxyapatite surfaces. *Journal of Materials Chemistry B*, **2014**, 2, 6953-6966	7.3	32
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526	Computational tool to model the packing of polycyclic chains: structural analysis of amorphous polythiophene. *Journal of Computational Chemistry*, **2007**, 28, 1743-9	3.5	31
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520	Conformational Preferences of the Asparagine Residue. Gas-Phase, Aqueous Solution, and Chloroform Solution Calculations on the Model Dipeptide. *Journal of Physical Chemistry B*, **1997**, 101, 3441-3446	3.4	30
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516	Electrostimulated Release of Neutral Drugs from Polythiophene Nanoparticles: Smart Regulation of Drug-Polymer Interactions. *Advanced Healthcare Materials*, **2017**, 6, 1700453	10.1	29
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511	Smart Drug Delivery from Electrospun Fibers through Electroresponsive Polymeric Nanoparticles.. *ACS Applied Bio Materials*, **2018**, 1, 1594-1605	4.1	29
510	Peptide Self-Assembly into Hydrogels for Biomedical Applications Related to Hydroxyapatite. *Gels*, **2019**, 5,	4.2	28
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506	Hybrid materials consisting of an all-conjugated polythiophene backbone and grafted hydrophilic poly(ethylene glycol) chains. *Polymer Chemistry*, **2013**, 4, 2709	4.9	28
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503	Structural and electronic effects induced by carboxylic acid substitution in isomeric 2,2?-bithiophenes and oligothiophenes: A computational study. *Polymer*, **2005**, 46, 9452-9460	3.9	28
502	Ab initio SCF and force-field calculations on low-energy conformers of 2-acetylamino-2,N-dimethylpropanamide. *Journal of the Chemical Society Perkin Transactions II*, **1994**, 563-568		28
501	An electroactive and biologically responsive hybrid conjugate based on chemical similarity. *Polymer Chemistry*, **2013**, 4, 1412-1424	4.9	27
500	Cross-linking in polypyrrole and poly(N-methylpyrrole): Comparative experimental and theoretical studies. *Polymer*, **2008**, 49, 1066-1075	3.9	27
499	Stereocopolyamides Derived from 2,3-Di-O-Methyl-d- and -l-Tartaric Acids and Hexamethylenediamine. 2. Influence of the Configurational Composition on the Crystal Structure of Optically Compensated Systems. *Macromolecules*, **1996**, 29, 8413-8424	5.5	27
498	Effect of the graft ratio on the properties of polythiophene-g-poly(ethylene glycol). *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 239-252	2.6	26
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496	Linear Viscoelastic Response of Dendronized Polymers. *Macromolecules*, **2012**, 45, 8813-8823	5.5	26
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480	Diversity and Hierarchy in Supramolecular Assemblies of Triphenylalanine: From Laminated Helical Ribbons to Toroids. *Langmuir*, **2017**, 33, 4036-4048	4	23
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475	A simple model to describe the thixotropic behavior of paints. *Progress in Organic Coatings*, **2006**, 57, 229-235	4.8	23
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473	Conformational analysis of a cyclopropane analogue of phenylalanine with two geminal phenyl substituents. *Journal of Physical Chemistry B*, **2006**, 110, 5762-6	3.4	23
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