# Carlos Aleman

List of Publications by Year
in descending order

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|---|---|---|---|
| 616 papers | 13,001 citations | 41258 49 h-index | 82410 72 g-index |
| 647 all docs | 647 docs citations | 647 times ranked | 11568 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Corrosion protection with polyaniline and polypyrrole as anticorrosive additives for epoxy paint. Corrosion Science, 2008, 50, 721-728. | 3.0 | 240 |
| 2 | Powering the future: application of cellulose-based materials for supercapacitors. Green Chemistry, 2016, 18, 5930-5956. | 4.6 | 196 |
| 3 | Crystal Structure of the Î±-Form of Poly(l-lactide). Macromolecules, 2001, 34, 4795-4801. | 2.2 | 191 |
| 4 | Why Î´-Valerolactone Polymerizes and Î³-Butyrolactone Does Not. Journal of Organic Chemistry, 2008, 73, 2674-2678. | 1.7 | 152 |
| 5 | Nanoparticle-induced vascular blockade in human prostate cancer. Blood, 2010, 116, 2847-2856. | 0.6 | 149 |
| 6 | Symmetric Supercapacitors Based on Multilayers of Conducting Polymers. Journal of Physical Chemistry C, 2011, 115, 8430-8438. | 1.5 | 139 |
| 7 | 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. | 1.9 | 128 |
| 8 | Marine paint fomulations: Conducting polymers as anticorrosive additives. Progress in Organic Coatings, 2007, 59, 46-52. | 1.9 | 125 |
| 9 | Cellular adhesion and proliferation on poly(3,4-ethylenedioxythiophene): Benefits in the electroactivity of the conducting polymer. European Polymer Journal, 2007, 43, 2342-2349. | 2.6 | 116 |
| 10 | Electrochemical Synthesis of Poly(3,4-ethylenedioxythiophene) on Steel Electrodes: Properties and Characterization. Journal of Polymer Research, 2006, 13, 193-200. | 1.2 | 108 |
| 11 | Polyaniline, polypyrrole and poly(3,4-ethylenedioxythiophene) as additives of organic coatings to prevent corrosion. Surface and Coatings Technology, 2009, 203, 3763-3769. | 2.2 | 103 |
| 12 | Towards sustainable solid-state supercapacitors: electroactive conducting polymers combined with biohydrogels. Journal of Materials Chemistry A, 2016, 4, 1792-1805. | 5.2 | 97 |
| 13 | Diradical Dications ofm- andp-Phenylenebis[2,5-di(2-thienyl)-1-pyrrole]:Â Weakly Coupled Diradicals. Journal of Organic Chemistry, 2001, 66, 4058-4061. | 1.7 | 95 |
| 14 | Reviewing Extrapolation Procedures of the Electronic Properties on the Ï€-Conjugated Polymer Limit. Journal of Physical Chemistry A, 2012, 116, 7571-7583. | 1.1 | 92 |
| 15 | Nanomembranes and Nanofibers from Biodegradable Conducting Polymers. Polymers, 2013, 5, 1115-1157. | 2.0 | 90 |
| 16 | Current status and challenges of biohydrogels for applications as supercapacitors and secondary batteries. Journal of Materials Chemistry A, 2016, 4, 8952-8968. | 5.2 | 89 |
| 17 | Drug delivery systems based on intrinsically conducting polymers. Journal of Controlled Release, 2019, 309, 244-264. | 4.8 | 89 |
| 18 | Measuring the Proton Conductivity of Ion-Exchange Membranes Using Electrochemical Impedance Spectroscopy and Through-Plane Cell. Journal of Physical Chemistry B, 2014, 118, 1102-1112. | 1.2 | 81 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Biodegradable and Biocompatible Systems Based on Hydroxyapatite Nanoparticles. Applied Sciences (Switzerland), 2017, 7, 60. | 1.3 | 81 |
| 20 | Ï€ Conjugation in 2,2â€˜-Bithiophene and Its Dimethyl Derivatives:Â Model Compounds of Organic Conducting Polymers Based on Thiophene Rings. The Journal of Physical Chemistry, 1996, 100, 1524-1529. | 2.9 | 78 |
| 21 | Thermodynamic Control of the Polymerizability of Five-, Six-, and Seven-Membered Lactones. Journal of Organic Chemistry, 2009, 74, 6237-6244. | 1.7 | 74 |
| 22 | Electrospun Conducting and Biocompatible Uniaxial and Coreâ€“Shell Fibers Having Poly(lactic acid), Poly(ethylene glycol), and Polyaniline for Cardiac Tissue Engineering. ACS Omega, 2019, 4, 3660-3672. | 1.6 | 74 |
| 23 | Solvation of cytosine and thymine using a combined Discrete/SCRF model. Chemical Physics Letters, 1999, 302, 461-470. | 1.2 | 72 |
| 24 | The ketoâ€“amino/enol tautomerism of cytosine in aqueous solution. A theoretical study using combined discrete/self-consistent reaction field models. Chemical Physics, 2000, 253, 13-19. | 0.9 | 68 |
| 25 | Calculated and Experimental NMR Chemical Shifts ofp-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, 3775-3782. | 1.7 | 68 |
| 26 | Comparative Theoretical Study of Heterocyclic Conducting Oligomers:â€‰ Neutral and Oxidized Forms. Journal of Physical Chemistry C, 2007, 111, 4823-4830. | 1.5 | 67 |
| 27 | Binding of a C-End Rule Peptide to the Neuropilin-1 Receptor: A Molecular Modeling Approach. Biochemistry, 2011, 50, 1755-1762. | 1.2 | 67 |
| 28 | New Sulfonated Polystyrene and Styreneâ€“Ethylene/Butyleneâ€“Styrene Block Copolymers for Applications in Electrodialysis. Journal of Physical Chemistry B, 2012, 116, 11767-11779. | 1.2 | 63 |
| 29 | Suitability of the PM3-derived molecular electrostatic potentials. Journal of Computational Chemistry, 1993, 14, 799-808. | 1.5 | 62 |
| 30 | Cellular Adhesion, Proliferation and Viability on Conducting Polymer Substrates. Macromolecular Bioscience, 2008, 8, 1144-1151. | 2.1 | 62 |
| 31 | On the Ability of Modified Peptide Links to Form Hydrogen Bonds. Journal of Physical Chemistry A, 2001, 105, 6717-6723. | 1.1 | 61 |
| 32 | Partial replacement of metallic zinc dust in heavy duty protective coatings by conducting polymer. Progress in Organic Coatings, 2010, 69, 26-30. | 1.9 | 61 |
| 33 | A synergistic combination of tetraethylorthosilicate and multiphosphonic acid offers excellent corrosion protection to AA1100 aluminum alloy. Applied Surface Science, 2013, 273, 758-768. | 3.1 | 61 |
| 34 | Sequence dependence of C-end rule peptides in binding and activation of neuropilin-1 receptor. Journal of Structural Biology, 2013, 182, 78-86. | 1.3 | 58 |
| 35 | Molecular and Electronic Structures of Heteroaromatic Oligomers:Â Model Compounds of Polymers with Quantum-Well Structures. Journal of Organic Chemistry, 1998, 63, 1041-1048. | 1.7 | 57 |
| 36 | Hydration of cytosine using combined discrete/SCRF models: influence of the number of discrete solvent molecules. Chemical Physics, 1999, 244, 151-162. | 0.9 | 57 |

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| 37 | Application of a polythiophene derivative as anticorrosive additive for paints. Progress in Organic Coatings, 2005, 53, 217-224. | 1.9 | 57 |
| 38 | Ultrathin Films of Polypyrrole Derivatives for Dopamine Detection. Journal of Physical Chemistry C, 2011, 115, 14933-14941. | 1.5 | 57 |
| 39 | Self-assembly of Fmoc-tetrapeptides based on the RGDS cell adhesion motif. Soft Matter, 2011, 7, 11405. | 1.2 | 56 |
| 40 | 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. | 3.2 | 56 |
| 41 | On the helical conformation of un-ionized poly(Î³-d-glutamic acid). International Journal of Biological Macromolecules, 1998, 23, 175-184. | 3.6 | 55 |
| 42 | Nanostructured conducting polymer for dopamine detection. Journal of Materials Chemistry, 2010, 20, 10652. | 6.7 | 55 |
| 43 | Retromodified Residues: Small Peptides and Polymers. Interactions, Force-Field Parametrization and Conformational Analyses. Journal of Organic Chemistry, 1995, 60, 910-924. | 1.7 | 54 |
| 44 | Selective Detection of Dopamine Combining Multilayers of Conducting Polymers with Gold Nanoparticles. Journal of Physical Chemistry B, 2014, 118, 4669-4682. | 1.2 | 54 |
| 45 | Conformational Properties of Î±-Amino Acids Disubstituted at the Î±-Carbon. Journal of Physical Chemistry B, 1997, 101, 5046-5050. | 1.2 | 53 |
| 46 | On the molecular properties of polyaniline: A comprehensive theoretical study. Polymer, 2008, 49, 5169-5176. | 1.8 | 53 |
| 47 | Polyaniline Emeraldine Salt in the Amorphous Solid State: Polaron versus Bipolaron. Journal of Physical Chemistry B, 2014, 118, 11552-11562. | 1.2 | 52 |
| 48 | Principles of nanostructure design with protein building blocks. Proteins: Structure, Function and Bioinformatics, 2007, 68, 1-12. | 1.5 | 51 |
| 49 | 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. | 1.7 | 50 |
| 50 | Structural and electronic properties of 3,4-ethylenedioxythiophene, 3,4-ethylenedisulfanylfurane and thiophene oligomers: A theoretical investigation. Synthetic Metals, 2005, 149, 151-156. | 2.1 | 50 |
| 51 | 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. | 0.9 | 50 |
| 52 | Exploiting Molecular Selfâ€Assembly: From Ureaâ€Based Organocatalysts to Multifunctional Supramolecular Gels. Chemistry - A European Journal, 2014, 20, 10720-10731. | 1.7 | 50 |
| 53 | A Rigid, Chiral, Dendronized Polymer with a Thermally Stable, Rightâ€Handed Helical Conformation. Chemistry - A European Journal, 2008, 14, 6924-6934. | 1.7 | 49 |
| 54 | Ab initio calculations on Ï€-stacked thiophene dimer, trimer, and tetramer: Structure, interaction energy, cooperative effects, and intermolecular electronic parameters. Journal of Computational Chemistry, 2008, 29, 69-78. | 1.5 | 49 |

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| 55 | Hybrid polythiopheneâ€“clay exfoliated nanocomposites for ultracapacitor devices. Journal of Materials Chemistry, 2012, 22, 13110. | 6.7 | 49 |
| 56 | All-polythiophene rechargeable batteries. Organic Electronics, 2014, 15, 40-46. | 1.4 | 49 |
| 57 | Modified tannin extracted from black wattle tree as an environmentally friendly antifouling pigment. Industrial Crops and Products, 2015, 65, 506-514. | 2.5 | 49 |
| 58 | Conformation of the helical polyamide poly(Î±-isobutyl L-aspartate). Macromolecules, 1992, 25, 5225-5230. | 2.2 | 48 |
| 59 | Theoretical Investigation of the 3,4-Ethylenedioxythiophene Dimer and Unsubstituted Heterocyclic Derivatives. Journal of Physical Chemistry A, 2004, 108, 1440-1447. | 1.1 | 48 |
| 60 | Insulating and semiconducting polymeric free-standing nanomembranes with biomedical applications. Journal of Materials Chemistry B, 2015, 3, 5904-5932. | 2.9 | 48 |
| 61 | Study of epoxy and alkyd coatings modified with emeraldine base form of polyaniline. Progress in Organic Coatings, 2007, 58, 316-322. | 1.9 | 47 |
| 62 | Flexible Electrodes for Supercapacitors Based on the Supramolecular Assembly of Biohydrogel and Conducting Polymer. Journal of Physical Chemistry C, 2018, 122, 1078-1090. | 1.5 | 47 |
| 63 | Smart Drug Delivery from Electrospun Fibers through Electroresponsive Polymeric Nanoparticles. ACS Applied Bio Materials, 2018, 1, 1594-1605. | 2.3 | 47 |
| 64 | Paradigm Shift for Preparing Versatile M<sup>2+</sup>-Free Gels from Unmodified Sodium Alginate. Biomacromolecules, 2017, 18, 2967-2979. | 2.6 | 46 |
| 65 | Advanced Functional Hydrogel Biomaterials Based on Dynamic Bâ€“O Bonds and Polysaccharide Building Blocks. Biomacromolecules, 2020, 21, 3984-3996. | 2.6 | 46 |
| 66 | Thermoplastic Polyurethane:Polythiophene Nanomembranes for Biomedical and Biotechnological Applications. ACS Applied Materials & Interfaces, 2014, 6, 9719-9732. | 4.0 | 45 |
| 67 | Selfâ€Assembly of Tetraphenylalanine Peptides. Chemistry - A European Journal, 2015, 21, 16895-16905. | 1.7 | 45 |
| 68 | Characterization of the Quinoid Structure for the 2,2â€˜-Bithiophene and 2,2â€˜,5â€˜,2â€˜â€˜-Terthiophene Dications. The Journal of Physical Chemistry, 1996, 100, 14661-14664. | 2.9 | 44 |
| 69 | Evaluation of an environmentally friendly anticorrosive pigment for alkyd primer. Progress in Organic Coatings, 2012, 73, 321-329. | 1.9 | 44 |
| 70 | Conformational analysis of succinamide analogs. Journal of Organic Chemistry, 1995, 60, 6135-6140. | 1.7 | 43 |
| 71 | Influence of the Phenyl Side Chain on the Conformation of Cyclopropane Analogues of Phenylalanine. Journal of Physical Chemistry B, 2002, 106, 11849-11858. | 1.2 | 43 |
| 72 | Phosphonic acid/silica-based films: A potential treatment for corrosion protection. Corrosion Science, 2012, 60, 173-180. | 3.0 | 43 |

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| 73 | A rational design for the selective detection of dopamine using conducting polymers. Physical Chemistry Chemical Physics, 2014, 16, 7850-7861. | 1.3 | 43 |
| 74 | Plasma surface modification of polymers for sensor applications. Journal of Materials Chemistry B, 2018, 6, 6515-6533. | 2.9 | 43 |
| 75 | A molecular mechanical study of the structure of poly(Î±-aminoisobutyric acid). Biopolymers, 1992, 32, 621-631. | 1.2 | 42 |
| 76 | On the use of conducting polymers to improve the resistance against corrosion of paints based on polyurethane resins. Materials and Corrosion - Werkstoffe Und Korrosion, 2006, 57, 683-688. | 0.8 | 42 |
| 77 | Conformational Preferences of Î±-Substituted Proline Analogues. Journal of Organic Chemistry, 2008, 73, 3418-3427. | 1.7 | 42 |
| 78 | 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 |
| 79 | Peptide Self-Assembly into Hydrogels for Biomedical Applications Related to Hydroxyapatite. Gels, 2019, 5, 14. | 2.1 | 42 |
| 80 | De Novo Tubular Nanostructure Design Based on Self-Assembly of Î²-Helical Protein Motifs. Structure, 2006, 14, 1137-1148. | 1.6 | 41 |
| 81 | Bioactive and electroactive response of flexible polythiophene:polyester nanomembranes for tissue engineering. Polymer Chemistry, 2012, 3, 979. | 1.9 | 41 |
| 82 | DNA adsorbed on hydroxyapatite surfaces. Journal of Materials Chemistry B, 2014, 2, 6953-6966. | 2.9 | 41 |
| 83 | Conformational analysis of helical poly(Î²-L- aspartate)s by IR dichroism. Biopolymers, 1995, 36, 263-271. | 1.2 | 40 |
| 84 | 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. | 2.6 | 40 |
| 85 | Hexaazatriphenylene (HAT) versus triâ€HAT: The Bigger the Better?. Chemistry - A European Journal, 2011, 17, 10312-10322. | 1.7 | 40 |
| 86 | Ultraporous poly(3,4-ethylenedioxythiophene) for nanometric electrochemical supercapacitor. Thin Solid Films, 2012, 520, 4402-4409. | 0.8 | 40 |
| 87 | A new strategy for the evaluation of force parameters from quantum mechanical computations. Journal of Computational Chemistry, 1991, 12, 664-674. | 1.5 | 39 |
| 88 | Folding of Methylene Groups in Linear Glutaramide Analogs. Journal of the American Chemical Society, 1995, 117, 7307-7310. | 6.6 | 39 |
| 89 | Helical preferences of alanine, glycine, and aminoisobutyric homopeptides. , 1997, 28, 83-93. | | 39 |
| 90 | 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. | 1.3 | 39 |

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| 91 | Mineralization of DNA into nanoparticles of hydroxyapatite. Dalton Transactions, 2014, 43, 317-327. | 1.6 | 39 |
| 92 | Elucidating the mechanism of interaction between peptides and inorganic surfaces. Physical Chemistry Chemical Physics, 2015, 17, 15305-15315. | 1.3 | 39 |
| 93 | Structural Study on Poly(Î²-l-aspartate)s with Short Alkyl Side Chains:Â Helical and Extended Crystal Forms. Macromolecules, 1996, 29, 8449-8459. | 2.2 | 38 |
| 94 | Examining the Planarity of Poly(3,4-ethylenedioxythiophene): Consideration of Self-Rigidification, Electronic, and Geometric Effects. Journal of Physical Chemistry A, 2010, 114, 1023-1028. | 1.1 | 38 |
| 95 | Structure by design: from single proteins and their building blocks to nanostructures. Trends in Biotechnology, 2006, 24, 449-454. | 4.9 | 37 |
| 96 | Nanostructure Design Using Protein Building Blocks Enhanced by Conformationally Constrained Synthetic Residuesâ€. Biochemistry, 2007, 46, 1205-1218. | 1.2 | 37 |
| 97 | Solâ€“gel hybrid films based on organosilane and montmorillonite for corrosion inhibition of AA2024. Journal of Colloid and Interface Science, 2014, 426, 308-313. | 5.0 | 37 |
| 98 | Protective Coatings for Aluminum Alloy Based on Hyperbranched 1,4-Polytriazoles. ACS Applied Materials & Interfaces, 2017, 9, 4231-4243. | 4.0 | 37 |
| 99 | Pastes and hydrogels from carboxymethyl cellulose sodium salt as supporting electrolyte of solid electrochemical supercapacitors. Carbohydrate Polymers, 2018, 200, 456-467. | 5.1 | 37 |
| 100 | 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. | 2.7 | 36 |
| 101 | Computational tool to model the packing of polycyclic chains: Structural analysis of amorphous polythiophene. Journal of Computational Chemistry, 2007, 28, 1743-1749. | 1.5 | 35 |
| 102 | Properties of nanometric and submicrometric multilayered films of poly(3,4-ethylenedioxythiophene) and poly(N-methylpyrrole). European Polymer Journal, 2008, 44, 1323-1330. | 2.6 | 35 |
| 103 | An assessment of the corrosion protection of AA2024-T3 treated with vinyltrimethoxysilane/(3-glycidyloxypropyl)trimethoxysilane. Corrosion Science, 2015, 92, 200-208. | 3.0 | 35 |
| 104 | Electrostimulated Release of Neutral Drugs from Polythiophene Nanoparticles: Smart Regulation of Drugâ€“Polymer Interactions. Advanced Healthcare Materials, 2017, 6, 1700453. | 3.9 | 35 |
| 105 | Hydrogels for flexible and compressible free standing cellulose supercapacitors. European Polymer Journal, 2019, 118, 347-357. | 2.6 | 35 |
| 106 | A quantum mechanical study of the intrinsic helix-forming tendency of Î±-aminoisobutyric acid and dehydroalanine residues. Biopolymers, 1994, 34, 841-847. | 1.2 | 34 |
| 107 | Analysis of the Helical Conformations in Poly (.beta.-L-aspartate)s: Poly(.alpha.-n-butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4487-4494. | 2.2 | 34 |
| 108 | Silane and epoxy coatings: A bilayer system to protect AA2024 alloy. Progress in Organic Coatings, 2015, 81, 47-57. | 1.9 | 34 |

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| 109 | Simulation of dense amorphous polymers by generating representative atomistic models. Journal of Chemical Physics, 2003, 119, 2915-2922. | 1.2 | 33 |
| 110 | Poly(2-thiophen-3-yl-malonic acid), a Polythiophene with Two Carboxylic Acids Per Repeating Unit. Journal of Physical Chemistry B, 2010, 114, 6281-6290. | 1.2 | 33 |
| 111 | Incorporation of a Clot-Binding Peptide into Polythiophene: Properties of Composites for Biomedical Applications. ACS Applied Materials & Interfaces, 2014, 6, 11940-11954. | 4.0 | 33 |
| 112 | Study of the Amide.cntdot..cntdot..cntdot.Ester Hydrogen Bond in Small Molecules and Its Influence on the Conformation of Polypeptides and Related Polymers. The Journal of Physical Chemistry, 1995, 99, 17653-17661. | 2.9 | 32 |
| 113 | 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. | 1.2 | 32 |
| 114 | N-Acetyl-Nâ€˜-methylamide Derivative of (2S,3S)-1-Amino-2,3-diphenylcyclopropanecarboxylic Acid: Theoretical Analysis of the Conformational Impact Produced by the Incorporation of the Second Phenyl Group to the Cyclopropane Analogue of Phenylalanine. Journal of Organic Chemistry, 2003, 68, 7088-7091. | 1.7 | 32 |
| 115 | Influence of the solvation model and the solvent on the gauche-trans equilibrium of 1,1,2-trichloroethane. Chemical Physics, 2004, 302, 77-83. | 0.9 | 32 |
| 116 | Hybrid materials consisting of an all-conjugated polythiophene backbone and grafted hydrophilic poly(ethylene glycol) chains. Polymer Chemistry, 2013, 4, 2709. | 1.9 | 32 |
| 117 | Self-assembled fibrillar networks of a multifaceted chiral squaramide: supramolecular multistimuli-responsive alcogels. Soft Matter, 2016, 12, 4361-4374. | 1.2 | 32 |
| 118 | Polyaniline coated core-shell polyacrylates: Control of film formation and coating application for corrosion protection. Progress in Organic Coatings, 2019, 128, 40-51. | 1.9 | 32 |
| 119 | Electroresponsive Alginate-Based Hydrogels for Controlled Release of Hydrophobic Drugs. ACS Biomaterials Science and Engineering, 2020, 6, 6228-6240. | 2.6 | 32 |
| 120 | Helical Poly(Î²-peptides):â€‰ The Helixâ^'Coil Transition of Poly(Î±-alkyl-Î²-aspartate)s in Solution. Macromolecules, 1999, 32, 3257-3263. | 2.2 | 31 |
| 121 | A simple model to describe the thixotropic behavior of paints. Progress in Organic Coatings, 2006, 57, 229-235. | 1.9 | 31 |
| 122 | Conducting Polymer Actuator Mechanism Based on the Conformational Flexibility of Calix[4]arene. Angewandte Chemie - International Edition, 2006, 45, 1103-1105. | 7.2 | 31 |
| 123 | Morphology and growing of nanometric multilayered films formed by alternated layers of poly(3,4-ethylenedioxythiophene) and poly(N-methylpyrrole). Thin Solid Films, 2010, 518, 4203-4210. | 0.8 | 31 |
| 124 | Detection of Dopamine Using Chemically Synthesized Multilayered Hollow Microspheres. Journal of Physical Chemistry B, 2014, 118, 4702-4709. | 1.2 | 31 |
| 125 | Diversity and Hierarchy in Supramolecular Assemblies of Triphenylalanine: From Laminated Helical Ribbons to Toroids. Langmuir, 2017, 33, 4036-4048. | 1.6 | 31 |
| 126 | Conformational Behavior of Macromolecules in Solution. Homopolypeptides of Î±-Aminoisobutyric Acid as Test Cases. Macromolecules, 2001, 34, 7550-7557. | 2.2 | 30 |

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|---|---|---|---|
| 127 | Copolymers ofN-methylpyrrole and 3,4-ethylenedioxythiophene: structural, physical and electronic properties. Polymer International, 2007, 56, 803-809. | 1.6 | 30 |
| 128 | The Energy Landscape of a Selective Tumor-Homing Pentapeptide. Journal of Physical Chemistry B, 2008, 112, 8692-8700. | 1.2 | 30 |
| 129 | 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. | 2.2 | 30 |
| 130 | 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. | 0.9 | 29 |
| 131 | Structural and electronic effects induced by carboxylic acid substitution in isomeric 2,2â€²-bithiophenes and oligothiophenes: A computational study. Polymer, 2005, 46, 9452-9460. | 1.8 | 29 |
| 132 | Cross-linking in polypyrrole and poly(N-methylpyrrole): Comparative experimental and theoretical studies. Polymer, 2008, 49, 1066-1075. | 1.8 | 29 |
| 133 | A comprehensive study of the interactions between DNA and poly(3,4-ethylenedioxythiophene). Polymer, 2009, 50, 1965-1974. | 1.8 | 29 |
| 134 | Linear Viscoelastic Response of Dendronized Polymers. Macromolecules, 2012, 45, 8813-8823. | 2.2 | 29 |
| 135 | Bioactive nanomembranes of semiconductor polythiophene and thermoplastic polyurethane: thermal, nanostructural and nanomechanical properties. Polymer Chemistry, 2013, 4, 568-583. | 1.9 | 29 |
| 136 | Effect of the graft ratio on the properties of polythiopheneâ€‹gâ€‹poly(ethylene glycol). Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 239-252. | 2.4 | 29 |
| 137 | Polypropylene mesh for hernia repair with controllable cell adhesion/de-adhesion properties. Journal of Materials Chemistry B, 2020, 8, 1049-1059. | 2.9 | 29 |
| 138 | Thermoresponsive Shapeâ€‹Memory Hydrogel Actuators Made by Phototriggered Click Chemistry. Advanced Functional Materials, 2020, 30, 2001683. | 7.8 | 29 |
| 139 | Synthesis, Properties, and X-ray Structure of 6-Aza-5,7,12,14-tetrathiapentacene as a Novel Polyheterocyclic Electron Donor, and Related Compounds. Journal of Organic Chemistry, 1994, 59, 6200-6207. | 1.7 | 28 |
| 140 | Solvation of chromone using combined Discrete/SCRF models. Chemical Physics, 1998, 232, 151-159. | 0.9 | 28 |
| 141 | Structure and morphology of nylon 46 lamellar crystals: Electron microscopy and energy calculations. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 41-52. | 2.4 | 28 |
| 142 | DNAâ^'Conducting Polymer Complexes:â€‰ A Computational Study of the Hydrogen Bond between Building Blocks. Journal of Physical Chemistry B, 2008, 112, 3222-3230. | 1.2 | 28 |
| 143 | Modeling biominerals formed by apatites and DNA. Biointerphases, 2013, 8, 10. | 0.6 | 28 |
| 144 | An electroactive and biologically responsive hybrid conjugate based on chemical similarity. Polymer Chemistry, 2013, 4, 1412-1424. | 1.9 | 28 |

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| 145 | 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. | 2.2 | 27 |
| 146 | Synergistic Computationalâ€Experimental Approach to Improve Ionene Polymerâ€Based Functional Hydrogels. Advanced Functional Materials, 2014, 24, 4893-4904. | 7.8 | 27 |
| 147 | Poly(Î±-butyl Î²-L-aspartate): A second alkoxycarbonyl nylon-3 derivative in helical conformation. Macromolecular Chemistry and Physics, 1995, 196, 253-268. | 1.1 | 26 |
| 148 | Helical Nylons 3. Synthesis and Crystal Structure of Poly(Î²-l-aspartate)s with Branched Alkyl Side Chains. Macromolecules, 1998, 31, 124-134. | 2.2 | 26 |
| 149 | Use of Constrained Synthetic Amino Acids in Î²-Helix Proteins for Conformational Control. Journal of Physical Chemistry B, 2007, 111, 3236-3242. | 1.2 | 26 |
| 150 | Computer simulation of dendronized polymers: organization and characterization at the atomistic level. RSC Advances, 2013, 3, 126-140. | 1.7 | 26 |
| 151 | Electroactive polymerâ€“peptide conjugates for adhesive biointerfaces. Biomaterials Science, 2015, 3, 1395-1405. | 2.6 | 26 |
| 152 | Hierarchical self-assembly of di-, tri- and tetraphenylalanine peptides capped with two fluorenyl functionalities: from polymorphs to dendrites. Soft Matter, 2016, 12, 5475-5488. | 1.2 | 26 |
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