# Celso P De Melo

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 148 papers | 2,992 citations | 172457 29 h-index | 214800 47 g-index |
| 150 all docs | 150 docs citations | 150 times ranked | 3084 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Electrospun polystyrene/graphene oxide fibers applied to the remediation of dye wastewater. Materials Chemistry and Physics, 2022, 276, 125356. | 4.0 | 22 |
| 2 | Kinetics and thermodynamic studies of Methyl Orange removal by polyvinylidene fluoride-PEDOT mats. Journal of Environmental Sciences, 2021, 100, 62-73. | 6.1 | 30 |
| 3 | (Maghemite/Chitosan/Polypyrrole) nanocomposites for the efficient removal of Cr (VI) from aqueous media. Journal of Environmental Chemical Engineering, 2021, 9, 104893. | 6.7 | 27 |
| 4 | A new biocompatible silver/polypyrrole composite with in vitro antitumor activity. Materials Science and Engineering C, 2021, 128, 112314. | 7.3 | 3 |
| 5 | DNA purification using a novel Î³-Fe2O3/PEDOT hybrid nanocomposite. Analytica Chimica Acta, 2021, 1178, 338762. | 5.4 | 6 |
| 6 | Polypyrrole-coated electrospun polystyrene films as humidity sensors. Talanta, 2021, 234, 122636. | 5.5 | 15 |
| 7 | Intrinsically conductive polymers hybrid bilayer films for the fluorescence molecular diagnosis of the Zika virus. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112120. | 5.0 | 2 |
| 8 | Immunotherapy for cancer: effects of iron oxide nanoparticles on polarization of tumor-associated macrophages. Nanomedicine, 2021, 16, 2633-2650. | 3.3 | 27 |
| 9 | Supercapacitors based on (carbon nanostructure)/PEDOT/(eggshell membrane) electrodes. Journal of Electroanalytical Chemistry, 2020, 856, 113658. | 3.8 | 25 |
| 10 | Metal-polymer hybrid nanomaterial for impedimetric detection of human papillomavirus in cervical specimens. Journal of Pharmaceutical and Biomedical Analysis, 2020, 185, 113249. | 2.8 | 21 |
| 11 | Spinel Cobalt Ferrite Nanoparticles for Sensing Phosphate Ions in Aqueous Media and Biological Samples. Langmuir, 2020, 36, 2920-2929. | 3.5 | 22 |
| 12 | Use of PMMA/(rice husk ash)/polypyrrole membranes for the removal of dyes and heavy metal ions. Journal of the Taiwan Institute of Chemical Engineers, 2020, 110, 8-20. | 5.3 | 42 |
| 13 | Extraction of plasmid DNA by use of a magnetic maghemite-polyaniline nanocomposite. Analytical Biochemistry, 2019, 575, 27-35. | 2.4 | 13 |
| 14 | Preparation and characterization of polypyrrole/organophilic montmorillonite nanofibers obtained by electrospinning. Journal of Molecular Liquids, 2019, 275, 452-462. | 4.9 | 22 |
| 15 | A novel nucleic acid fluorescent sensing platform based on nanostructured films of intrinsically conducting polymers. Analytica Chimica Acta, 2019, 1047, 214-224. | 5.4 | 15 |
| 16 | Electrospun polystyrene-(emeraldine base) mats as high-performance materials for dye removal from aqueous media. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 300-311. | 5.3 | 21 |
| 17 | Preparation and characterization of nanofibers of polyvinyl alcohol/polyaniline-montmorillonite clay. Journal of Molecular Liquids, 2018, 272, 1070-1076. | 4.9 | 21 |
| 18 | Multifunctional polyaniline hybrid nanofiber with YVO4 (Er2%;Yb8%). Journal of Molecular Liquids, 2018, 271, 970-975. | 4.9 | 2 |

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| 19 | Generalized Breit-Wigner treatment of molecular transport: Charging effects in a single decanedithiol molecule. Journal of Chemical Physics, 2018, 148, 194304. | 3.0 | 2 |
| 20 | Magnetic extraction and purification of DNA from whole human blood using a Î³-Fe2O3@Chitosan@Polyaniline hybrid nanocomposite. Carbohydrate Polymers, 2018, 197, 100-108. | 10.2 | 20 |
| 21 | Use of magnetically disentangled thiolated carbon nanotubes as a label-free impedimetric genosensor for detecting canine Leishmania spp. infection. Carbon, 2017, 117, 33-40. | 10.3 | 14 |
| 22 | Real-time monitoring of amyloid fibrillation by electrical impedance spectroscopy. Colloids and Surfaces B: Biointerfaces, 2017, 160, 724-731. | 5.0 | 3 |
| 23 | Simple and Fast Picomolar Detection of Ochratoxin A Using a Reusable Label Free Aptasensor Built with a Layerâ€byâ€layer Procedure. Electroanalysis, 2017, 29, 2268-2275. | 2.9 | 4 |
| 24 | Entanglement and Electronic Correlation in Polycyclic Aromatic Molecules. Brazilian Journal of Physics, 2017, 47, 575-582. | 1.4 | 1 |
| 25 | Fabrication of Highly Flexible Hierarchical Polypyrrole/Carbon Nanotube on Eggshell Membranes for Supercapacitors. ACS Omega, 2017, 2, 2866-2877. | 3.5 | 56 |
| 26 | Synthesis of ZnO Nanoparticles Doped with Cobalt: Influence of Doping on the Magnetic and Fluorescent Properties. Materials Science Forum, 2016, 869, 982-986. | 0.3 | 0 |
| 27 | Vertical assembly of few-layer graphene decorated with iron oxide nanoparticles on gold surfaces. RSC Advances, 2016, 6, 94256-94262. | 3.6 | 2 |
| 28 | Attomolar electrochemical detection of the BCR/ABL fusion gene based on an amplifying self-signal metal nanoparticle-conducting polymer hybrid composite. Colloids and Surfaces B: Biointerfaces, 2016, 148, 576-584. | 5.0 | 25 |
| 29 | Polyanilineâ€“polystyrene membrane for simple and efficient retrieval of double-stranded DNA from aqueous media. RSC Advances, 2016, 6, 104566-104574. | 3.6 | 4 |
| 30 | Electrical impedance monitoring of protein unfolding. RSC Advances, 2016, 6, 107644-107652. | 3.6 | 6 |
| 31 | Impedimetric sensor forLeishmania infantumgenome based on gold nanoparticles dispersed in polyaniline matrix. Journal of Chemical Technology and Biotechnology, 2016, 91, 2810-2816. | 3.2 | 14 |
| 32 | Association between p21 Ser31Arg polymorphism and the development of cervical lesion in women infected with high risk HPV. Tumor Biology, 2016, 37, 10935-10941. | 1.8 | 4 |
| 33 | Study of the Efficiency of Polypyrrole/ZnO Nanocomposites as Additives in Anticorrosion Coatings. Materials Research, 2015, 18, 273-278. | 1.3 | 37 |
| 34 | DNA/polyaniline/gold nanocomposites: An electrical overview. , 2015, , . | | 0 |
| 35 | Efficient removal of Cr (VI) and Cu (II) ions from aqueous media by use of polypyrrole/maghemite and polyaniline/maghemite magnetic nanocomposites. Chemical Engineering Journal, 2015, 281, 826-836. | 12.7 | 196 |
| 36 | Nanostructured sensor based on carbon nanotubes and clavanin A for bacterial detection. Colloids and Surfaces B: Biointerfaces, 2015, 135, 833-839. | 5.0 | 60 |

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| 37 | A dielectric study of interpolymer complexes of polyaniline and DNA. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 139-147. | 4.7 | 8 |
| 38 | Hierarchical Composite Polyanilineâ€“(Electrospun Polystyrene) Fibers Applied to Heavy Metal Remediation. ACS Applied Materials & Interfaces, 2015, 7, 7231-7240. | 8.0 | 111 |
| 39 | Elucidating the Reaction Kinetics of Hydrophobic Porphyrin Nanoaggregates Dispersed in PVA Films Exposed to HCl Vapors. International Journal of Chemical Kinetics, 2015, 47, 113-123. | 1.6 | 1 |
| 40 | Use of magnetic and fluorescent polystyrene/tetraphenylporphyrin/maghemite nanocomposites for the photoinactivation of pathogenic bacteria. Reactive and Functional Polymers, 2015, 96, 39-43. | 4.1 | 10 |
| 41 | On the separability of the extended molecule: Constructing the best localized molecular orbitals for an organic molecule bridging two model electrodes. Journal of Chemical Physics, 2014, 141, 124712. | 3.0 | 1 |
| 42 | Dielectric study of the adhesion of mesenchymal stem cells from human umbilical cord on a sugarcane biopolymer. Journal of Materials Science: Materials in Medicine, 2014, 25, 229-237. | 3.6 | 18 |
| 43 | Biosensor based on hybrid nanocomposite and CramoLL lectin for detection of dengue glycoproteins in real samples. Synthetic Metals, 2014, 194, 102-108. | 3.9 | 33 |
| 44 | Elucidation of mechanisms of interaction of a multifunctional peptide Pa-MAP with lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2899-2909. | 2.6 | 10 |
| 45 | Use of magnetic polyaniline/maghemite nanocomposite for DNA retrieval from aqueous solutions. Journal of Colloid and Interface Science, 2014, 434, 167-174. | 9.4 | 34 |
| 46 | Impedimetric sensor of bacterial toxins based on mixed (Concanavalin A)/polyaniline films. Colloids and Surfaces B: Biointerfaces, 2014, 117, 549-554. | 5.0 | 32 |
| 47 | Synthesis of fluorescent PVA/polypyrrole-ZnO nanofibers. Journal of Materials Science, 2013, 48, 3652-3658. | 3.7 | 32 |
| 48 | Preparation and characterization of hydrophobic porphyrin nanoaggregates dispersed in polyvinyl alcohol films. Journal of Porphyrins and Phthalocyanines, 2013, 17, 283-288. | 0.8 | 8 |
| 49 | LnMOF@PVA nanofiber: energy transfer and multicolor light-emitting devices. Journal of Materials Chemistry C, 2013, 1, 7574. | 5.5 | 33 |
| 50 | Preparation of fluorescent polyaniline nanoparticles in aqueous solutions. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 16 |
| 51 | Visible luminescence in polyaniline/(gold nanoparticle) composites. Journal of Nanoparticle Research, 2013, 15, 1. | 1.9 | 13 |
| 52 | Gas sensor based on montmorillonite/polypyrrole composites prepared by in situ polymerization in aqueous medium. Sensors and Actuators B: Chemical, 2013, 177, 1115-1121. | 7.8 | 23 |
| 53 | Impedimetric sensor for toxigenic Penicillium sclerotigenum detection in yam based on magnetite-poly(allylamine hydrochloride) composite. Journal of Colloid and Interface Science, 2013, 396, 258-263. | 9.4 | 10 |
| 54 | A Simple HPV 18 Detection Method Based on Ultra Specific Primer Immobilized on Glass Slides. Journal of Clinical Laboratory Analysis, 2013, 27, 143-147. | 2.1 | 2 |

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| 55 | Magnetite/Polypyrrole Hybrid Nanocomposites as a Promising Magnetic Resonance Imaging Contrast Material. Journal of Applied Polymer Science, 2013, 128, 3170-3176. | 2.6 | 18 |
| 56 | Mechanistic Aspects of Peptide-Membrane Interactions Determined by Optical, Dielectric and Piezoelectric Techniques: An Overview. Current Protein and Peptide Science, 2013, 14, 543-555. | 1.4 | 11 |
| 57 | A quantum chemical approach to the molecular conductance problem. , 2012, , . | | 0 |
| 58 | Ultrafast dephasing of localized surface plasmons in colloidal silver nanoparticles: the influence of stabilizing agents. Applied Physics B: Lasers and Optics, 2012, 108, 9-16. | 2.2 | 16 |
| 59 | Preparation and characterization of SDS-stabilized hydrophobic porphyrinic nanoaggregates in water. Journal of Porphyrins and Phthalocyanines, 2012, 16, 267-272. | 0.8 | 10 |
| 60 | Non-Coherent Charge Transport in Donorâ€“Acceptor Systems: A Self-Consistent Description of the Intramolecular Charge Flow. Journal of Physical Chemistry C, 2012, 116, 3122-3131. | 3.1 | 3 |
| 61 | Characterization of ZnO/polyaniline nanocomposites prepared by using surfactant solutions as polymerization media. Journal of Applied Polymer Science, 2012, 125, E141. | 2.6 | 19 |
| 62 | Ab Initio Study of the Anomalous Solvatochromic Behavior of Large Betaines. Journal of Physical Chemistry A, 2011, 115, 7994-8002. | 2.5 | 8 |
| 63 | Use of Electrical Impedance Spectroscopy as a Practical Method of Investigating the Formation of Aggregates in Aqueous Solutions of Dyes and Surfactants. Journal of Physical Chemistry B, 2011, 115, 6903-6908. | 2.6 | 12 |
| 64 | Protein unfolding studied by fluorescence methods and electrical impedance spectroscopy: The cases of Cratylia mollis and Concanavalin A. Colloids and Surfaces B: Biointerfaces, 2011, 88, 100-107. | 5.0 | 6 |
| 65 | Development of impedimetric and optical calcium biosensor by using modified gold electrode with porcine S100A12 protein. Colloids and Surfaces B: Biointerfaces, 2011, 82, 365-370. | 5.0 | 14 |
| 66 | An impedimetric biosensor for detection of dengue serotype at picomolar concentration based on gold nanoparticles-polyaniline hybrid composites. Colloids and Surfaces B: Biointerfaces, 2011, 86, 414-419. | 5.0 | 58 |
| 67 | Diagnosis of dengue infection using a modified gold electrode with hybrid organicâ€“inorganic nanocomposite and Bauhinia monandra lectin. Journal of Colloid and Interface Science, 2011, 362, 517-523. | 9.4 | 35 |
| 68 | Thermodynamic investigation of mixed monolayers of trans-dehydrocrotonin and phospholipids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 358, 42-49. | 4.7 | 4 |
| 69 | Comparison of the interfacial properties of Eugenia uniflora and Triticum vulgaris lectins. Colloids and Surfaces B: Biointerfaces, 2009, 68, 7-12. | 5.0 | 3 |
| 70 | Electrical impedance spectroscopy investigation of surfactantâ€“magnetiteâ€“polypyrrole particles. Journal of Colloid and Interface Science, 2008, 319, 441-449. | 9.4 | 38 |
| 71 | Inverse photoinduced electron transfer in large betaine molecules. Chemical Physics Letters, 2008, 463, 172-177. | 2.6 | 7 |
| 72 | On the fluorescence of pyrrole derivative oligomer. Materials Science and Engineering C, 2008, 28, 1076-1081. | 7.3 | 5 |

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| 73 | Thermal effects on the electrical properties of (methyl orange)/ (polyvinyl alcohol) composites. Journal of Applied Physics, 2007, 101, 084113. | 2.5 | 5 |
| 74 | A new class of pushâ€“pull molecules for molecular electronics. Optical Materials, 2007, 29, 1010-1013. | 3.6 | 7 |
| 75 | Kinetics of polymerization of polypyrrole in dielectric matrices probed by electrical impedance spectroscopy. Synthetic Metals, 2006, 156, 215-218. | 3.9 | 8 |
| 76 | Sensors of volatile compounds based on the dielectric relaxation of organic molecules. Sensors and Actuators B: Chemical, 2006, 115, 542-546. | 7.8 | 1 |
| 77 | Thermodynamic characterization of the prevailing molecular interactions in mixed floating monolayers of phospholipids and usnic acid. Journal of Colloid and Interface Science, 2006, 298, 145-153. | 9.4 | 16 |
| 78 | Aggregation of methyl orange probed by electrical impedance spectroscopy. Journal of Colloid and Interface Science, 2006, 303, 444-449. | 9.4 | 38 |
| 79 | Use of conducting polypyrrole blends as gas sensors. Sensors and Actuators B: Chemical, 2005, 109, 348-354. | 7.8 | 60 |
| 80 | Dielectric properties of Bauhinia monandra and Concanavalin A lectin monolayers, part I. Journal of Colloid and Interface Science, 2005, 289, 371-378. | 9.4 | 11 |
| 81 | Dielectric characterization of colloidal solutions of retinoic acid embedded in microspheres of polyvinyl alcohol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 257-258, 3-7. | 4.7 | 9 |
| 82 | Influence of the nature of the surface of polypyrrole films upon their interaction with volatile organic compounds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 257-258, 99-103. | 4.7 | 10 |
| 83 | Mixed monolayers of Bauhinia monandra and Concanavalin A lectins with phospholipids, part II. Journal of Colloid and Interface Science, 2005, 289, 379-385. | 9.4 | 13 |
| 84 | Theoretical and experimental investigation of the second hyperpolarizabilities of methyl orange. Journal of Chemical Physics, 2005, 122, 104506. | 3.0 | 46 |
| 85 | Optical and dielectric properties of polypyrrole nanoparticles in a polyvinylalcohol matrix. Synthetic Metals, 2005, 155, 631-634. | 3.9 | 12 |
| 86 | Preparation and electrical and dielectric characterization of PVA/PPY blends. Materials Characterization, 2003, 50, 223-226. | 4.4 | 43 |
| 87 | Quantum chemistry calculation of resveratrol and related stilbenes. Optical Materials, 2003, 21, 455-460. | 3.6 | 9 |
| 88 | Investigation of the excited states of resveratrol and related molecules. International Journal of Quantum Chemistry, 2003, 95, 213-218. | 2.0 | 9 |
| 89 | Free-grown polypyrrole thin films as aroma sensors. Sensors and Actuators B: Chemical, 2003, 88, 246-259. | 7.8 | 34 |
| 90 | Electrical properties of PVA/PPY blends. Synthetic Metals, 2003, 135-136, 447-448. | 3.9 | 27 |

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| 91 | Dielectric anisotropy and photoinduced voltage in Langmuirâ€“Blodgett films of retinal derivatives. Journal of Applied Physics, 2003, 93, 2198-2201. | 2.5 | 3 |
| 92 | Dielectric spectroscopy of blends of polyvinylalcohol and polypyrrole. Journal of Applied Physics, 2003, 93, 2723-2727. | 2.5 | 19 |
| 93 | Photoisomerization Studies in Langmuir Films of Retinal Derivatives. Molecular Crystals and Liquid Crystals, 2002, 374, 549-554. | 0.9 | 5 |
| 94 | Temperature and Frequency Dependence of the Electrical Properties of Thin Organic Films. Molecular Crystals and Liquid Crystals, 2002, 374, 527-536. | 0.9 | 0 |
| 95 | Low-temperature electrical anisotropy of self-assembled organic films. Physical Review B, 2002, 65, . | 3.2 | 7 |
| 96 | Ultrathin Conducting Polymer Films as Sensors of Volatile Compounds. Molecular Crystals and Liquid Crystals, 2002, 374, 543-548. | 0.9 | 5 |
| 97 | Semiempirical/CI of the Excited States Characterization of Retinal Molecules. Molecular Crystals and Liquid Crystals, 2002, 374, 555-560. | 0.9 | 1 |
| 98 | Photovoltaic Response of Ultrathin Films of Retinal Derivatives. Physica Status Solidi (B): Basic Research, 2002, 232, 50-55. | 1.5 | 6 |
| 99 | Polypyrrole thin films gas sensors. Synthetic Metals, 2001, 119, 383-384. | 3.9 | 22 |
| 100 | Low temperature behavior of the resistivity of thin organic films. Synthetic Metals, 2001, 121, 1429-1430. | 3.9 | 2 |
| 101 | Study of the interface effects of a free-grown polypyrrole layer in PPV OLEDs. Synthetic Metals, 2001, 121, 1727-1728. | 3.9 | 1 |
| 102 | Semiempirical and ab initio investigation of defects in PPV oligomers. Synthetic Metals, 2001, 121, 1741-1742. | 3.9 | 12 |
| 103 | Molecular hyperpolarizabilities of retinal derivatives. Journal of Chemical Physics, 1999, 111, 5102-5106. | 3.0 | 11 |
| 104 | Polypyrrole based aroma sensor. Synthetic Metals, 1999, 102, 1296-1299. | 3.9 | 35 |
| 105 | Doping effect upon the molecular order of thin films of conducting polymers. Synthetic Metals, 1999, 101, 385. | 3.9 | 1 |
| 106 | A comparative study of the hyperpolarizabilities of solitonic chains. Synthetic Metals, 1999, 102, 1584. | 3.9 | 1 |
| 107 | Electroluminescent devices made of LB deposited poly(3-hexadecylthiophene). Synthetic Metals, 1999, 102, 1131. | 3.9 | 3 |
| 108 | Thin Films of a New Polar Substituted Polypyrrole. Langmuir, 1999, 15, 3273-3278. | 3.5 | 15 |

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| 109 | <title>Nonlinear optical properties of organic materials</title>. , 1999, , . | | 4 |
| 110 | Langmuirâ"Blodgett Films of Retinal Derivatives. Langmuir, 1998, 14, 490-496. | 3.5 | 6 |
| 111 | Comment on â€œThe hyperpolarizability of trans-butadiene: A critical test case for quantum chemical modelsâ€•[J. Chem. Phys. 106, 1827 (1997)]. Journal of Chemical Physics, 1998, 108, 4355-4357. | 3.0 | 12 |
| 112 | Saturation effects in the nonlinear-optical susceptibility of poly(3-hexadecylthiophene). Journal of the Optical Society of America B: Optical Physics, 1997, 14, 609. | 2.1 | 18 |
| 113 | Polarizabilities of defect-bearing polyenic chains. Synthetic Metals, 1997, 85, 1085-1086. | 3.9 | 4 |
| 114 | Z-scan measurements of the nonlinear refraction in retinal derivatives. Chemical Physics Letters, 1997, 276, 445-449. | 2.6 | 18 |
| 115 | Hartreeâ€"Fock static longitudinal (hyper)polarizability of polyyne. Journal of Chemical Physics, 1996, 104, 8586-8592. | 3.0 | 68 |
| 116 | Ab initio polarizabilities of polyenic chains with conformational defects. Chemical Physics Letters, 1996, 261, 28-34. | 2.6 | 29 |
| 117 | Spin-polarization effects in (AB2)npolymeric chains. Physical Review B, 1996, 53, 16258-16264. | 3.2 | 2 |
| 118 | Timeâ€resolved picosecond optical nonlinearity and allâ€optical Kerr gate in poly (3â€hexadecylthiophene). Applied Physics Letters, 1996, 69, 2166-2168. | 3.3 | 21 |
| 119 | Ab initio finite oligomer method for nonlinear optical properties of conjugated polymers. Effect of electron correlation on the static longitudinal hyperpolarizability of polyacetylene. Chemical Physics Letters, 1995, 244, 59-64. | 2.6 | 95 |
| 120 | A comparative study of the effect of electron correlation in the hyperpolarizability of polyyne, polyacetylene and polypyrrole oligomers. Chemical Physics Letters, 1995, 245, 660-664. | 2.6 | 46 |
| 121 | Abinitio polarizability study of polypyrrole. Journal of Chemical Physics, 1995, 102, 8048-8052. | 3.0 | 34 |
| 122 | Ab Initio nonlinear optical properties of polyacetylene from finite oligomer calculations. Synthetic Metals, 1995, 71, 1671-1674. | 3.9 | 9 |
| 123 | Alternative electrostatic potential formalism for the polarizabilities of long finite chains of conjugated polymers. Synthetic Metals, 1995, 71, 1695-1696. | 3.9 | 2 |
| 124 | Magnetic impurities in (AB2)n polymeric chains. Synthetic Metals, 1995, 71, 1805-1806. | 3.9 | 1 |
| 125 | Preparation and characterization of mixed character Langmuir-Blodgett films of poly-hexa-decylthiophene. Synthetic Metals, 1995, 71, 2083-2084. | 3.9 | 5 |
| 126 | Non variable range hopping transport on doped polypyrrole films. Synthetic Metals, 1995, 69, 347-348. | 3.9 | 1 |

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| 127 | Ab initio studies of the polarizabilities of retinal analogs. Journal of Chemical Physics, 1994, 101, 3945-3951. | 3.0 | 15 |
| 128 | Semi-empirical calculations of hyperpolarizabilities of polyaniline oligomers. Synthetic Metals, 1991, 43, 3751-3754. | 3.9 | 7 |
| 129 | Charge transfer versus isomerization effects on the polarizabilities of retinal analogs. Chemical Physics Letters, 1991, 180, 105-108. | 2.6 | 8 |
| 130 | GalvÃ£oet al. reply. Physical Review Letters, 1990, 65, 527-527. | 7.8 | 8 |
| 131 | Role of disorder in the conduction mechanism in polyanilines. Physical Review Letters, 1989, 63, 786-789. | 7.8 | 103 |
| 132 | Electronic properties of polyacene. Physical Review B, 1988, 38, 5430-5437. | 3.2 | 23 |
| 133 | Variationalâ€“perturbational treatment for the polarizabilities of conjugated chains. I. Theory and linearâ€polarizabilities results for polyenes. Journal of Chemical Physics, 1988, 88, 2558-2566. | 3.0 | 82 |
| 134 | Comparison between local space approximation and finite cluster treatments of chemisorption on metals. Journal of Chemical Physics, 1988, 88, 1019-1025. | 3.0 | 24 |
| 135 | Variationalâ€“perturbational treatment for the polarizabilities of conjugated chains. II. Hyperpolarizabilities of polyenic chains. Journal of Chemical Physics, 1988, 88, 2567-2571. | 3.0 | 117 |
| 136 | Local-space approximation for treatment of chemisorption: Application to a model transition-metal system. Physical Review B, 1987, 35, 7847-7856. | 3.2 | 14 |
| 137 | Local space approximation for treatment of impurities in polymers. Solitons in polyacetylene. Journal of Chemical Physics, 1987, 86, 1624-1631. | 3.0 | 18 |
| 138 | Self-consistent calculation of solitons in polyacetylene. Synthetic Metals, 1987, 17, 23-26. | 3.9 | 2 |
| 139 | Non-linear polamzabilities of conjugated chains: regular polyenes, solitons, and polarons. Chemical Physics Letters, 1987, 140, 537-541. | 2.6 | 107 |
| 140 | Accurate local-space treatment of hydrogen bonding in large systems. International Journal of Quantum Chemistry, 1986, 29, 1209-1222. | 2.0 | 12 |
| 141 | Unified treatment of the electronic structure of organic conjugated polymers. International Journal of Quantum Chemistry, 1986, 30, 109-118. | 2.0 | 9 |
| 142 | An MNDO study of the CnNH carbenes. Computational and Theoretical Chemistry, 1985, 121, 109-114. | 1.5 | 9 |
| 143 | Polarons in organic conjugated polymers. Solid State Communications, 1984, 52, 99-102. | 1.9 | 10 |
| 144 | Comparative study of the electronic structure of conjugated polymers. Solid State Communications, 1984, 50, 389-392. | 1.9 | 19 |

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| 145 | Localized states in polyacetylene. Solid State Communications, 1982, 44, 37-39. | 1.9 | 13 |
| 146 | Density matrix treatment of localized electronic interactions in molecules and solids. Journal of Chemical Physics, 1981, 75, 4592-4602. | 3.0 | 60 |
| 147 | Pattern recognition of gases of petroleum based on RBF model. , 0, , . | | 1 |
| 148 | Study of the Efficiency of Ag-SiO<sub>2</sub> Nanoparticles as Additives in Anticorrosion Coatings. Materials Science Forum, 0, 869, 663-668. | 0.3 | 0 |