# Francesco Zerbetto

List of Publications by Year
in descending order



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|---|---|---|---|
| 399 papers | 19,508 citations | 16411 64 h-index | 17055 122 g-index |
| 422 all docs | 422 docs citations | 422 times ranked | 16033 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthetic Molecular Motors and Mechanical Machines. Angewandte Chemie - International Edition, 2007, 46, 72-191. | 7.2 | 2,428 |
| 2 | Unidirectional rotation in a mechanically interlocked molecular rotor. Nature, 2003, 424, 174-179. | 13.7 | 862 |
| 3 | Macroscopic transport by synthetic molecular machines. Nature Materials, 2005, 4, 704-710. | 13.3 | 685 |
| 4 | Carbon Nanotubes in Electron Donorâ"Acceptor Nanocomposites. Accounts of Chemical Research, 2005, 38, 871-878. | 7.6 | 453 |
| 5 | Quantum-chemical investigation of Franck-Condon and Jahn-Teller activity in the electronic spectra of Buckminsterfullerene. Chemical Physics Letters, 1988, 144, 31-37. | 1.2 | 333 |
| 6 | Interactions in Single Wall Carbon Nanotubes/Pyrene/Porphyrin Nanohybrids. Journal of the American Chemical Society, 2006, 128, 11222-11231. | 6.6 | 320 |
| 7 | Theoretical analysis of spectra of short polyenes. Chemical Reviews, 1991, 91, 867-891. | 23.0 | 309 |
| 8 | Influencing intramolecular motion with an alternating electric field. Nature, 2000, 406, 608-611. | 13.7 | 223 |
| 9 | Patterning through Controlled Submolecular Motion: Rotaxane-Based Switches and Logic Gates that Function in Solution and Polymer Films. Angewandte Chemie - International Edition, 2005, 44, 3062-3067. | 7.2 | 210 |
| 10 | A Generic Basis for Some Simple Light-Operated Mechanical Molecular Machines. Journal of the American Chemical Society, 2004, 126, 12210-12211. | 6.6 | 199 |
| 11 | Information Storage Using Supramolecular Surface Patterns. Science, 2003, 299, 531-531. | 6.0 | 193 |
| 12 | Supramolecular self-assembled fullerene nanostructures. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5075-5080. | 3.3 | 191 |
| 13 | Remarkable Positional Discrimination in Bistable Light- and Heat-Switchable Hydrogen-Bonded Molecular Shuttles. Angewandte Chemie - International Edition, 2003, 42, 2296-2300. | 7.2 | 187 |
| 14 | Photoisomerization of a rotaxane hydrogen bonding template: Light-induced acceleration of a large amplitude rotational motion. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10-14. | 3.3 | 185 |
| 15 | Pentagon adjacency as a determinant of fullerene stability. Physical Chemistry Chemical Physics, 1999, 1, 2913-2918. | 1.3 | 178 |
| 16 | Ordering Fullerene Materials at Nanometer Dimensions. Accounts of Chemical Research, 2005, 38, 38-43. | 7.6 | 177 |
| 17 | Interpretation of the vibrational structure of the emission and absorption spectra of C60. Journal of Chemical Physics, 1992, 97, 6496-6503. | 1.2 | 165 |
| 18 | Parallel (Face-to-Face) Versus Perpendicular (Edge-to-Face) Alignment of Electron Donors and Acceptors in Fullerene Porphyrin Dyads:Â The Importance of Orientation in Electron Transfer. Journal of the American Chemical Society, 2001, 123, 9166-9167. | 6.6 | 157 |

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| 19 | Graphene Can Wreak Havoc with Cell Membranes. ACS Applied Materials & Interfaces, 2015, 7, 4406-4414. | 4.0 | 142 |
| 20 | Dualâ€Gate Organic Fieldâ€Effect Transistors as Potentiometric Sensors in Aqueous Solution. Advanced Functional Materials, 2010, 20, 898-905. | 7.8 | 136 |
| 21 | The Devil and Holy Water: Protein and Carbon Nanotube Hybrids. Accounts of Chemical Research, 2013, 46, 2454-2463. | 7.6 | 136 |
| 22 | Increasing cost of pentagon adjacency for larger fullerenes. Chemical Physics Letters, 1996, 250, 544-548. | 1.2 | 130 |
| 23 | Kinetics of Place-Exchange Reactions of Thiols on Gold Nanoparticles. Langmuir, 2003, 19, 5172-5174. | 1.6 | 119 |
| 24 | Switching â€œOnâ€•and â€œOffâ€•the Expression of Chirality in Peptide Rotaxanes. Journal of the American Chemical Society, 2002, 124, 2939-2950. | 6.6 | 118 |
| 25 | Directly Observing Micelle Fusion and Growth in Solution by Liquid-Cell Transmission Electron Microscopy. Journal of the American Chemical Society, 2017, 139, 17140-17151. | 6.6 | 118 |
| 26 | Modulating Charge-Transfer Interactions in Topologically Different Porphyrinâ€“C60 Dyads. Chemistry - A European Journal, 2003, 9, 4968-4979. | 1.7 | 110 |
| 27 | Baiting Proteins with C<sub>60</sub>. ACS Nano, 2010, 4, 2283-2299. | 7.3 | 104 |
| 28 | Entropy-Driven Translational Isomerism: A Tristable Molecular Shuttle. Angewandte Chemie - International Edition, 2003, 42, 5886-5889. | 7.2 | 103 |
| 29 | Extremely Strong and Readily Accessible AAAâ€²DDD Triple Hydrogen Bond Complexes. Journal of the American Chemical Society, 2007, 129, 476-477. | 6.6 | 103 |
| 30 | Cadiotâ€“Chodkiewicz Active Template Synthesis of Rotaxanes and Switchable Molecular Shuttles with Weak Intercomponent Interactions. Angewandte Chemie - International Edition, 2008, 47, 4392-4396. | 7.2 | 101 |
| 31 | Singling out the Electrochemistry of Individual Single-Walled Carbon Nanotubes in Solution. Journal of the American Chemical Society, 2008, 130, 7393-7399. | 6.6 | 99 |
| 32 | A molecular dynamics investigation of structure and dynamics of SDS and SDBS micelles. Soft Matter, 2011, 7, 9148. | 1.2 | 99 |
| 33 | C62:â€‰ Theoretical Evidence for a Nonclassical Fullerene with a Heptagonal Ring. The Journal of Physical Chemistry, 1996, 100, 15634-15636. | 2.9 | 97 |
| 34 | Mechanochemistry: targeted delivery of single molecules. Nature Nanotechnology, 2006, 1, 122-125. | 15.6 | 95 |
| 35 | Theoretical study of the force fields of the three lowest singlet electronic states of linear polyenes. Journal of Chemical Physics, 1988, 89, 3681-3688. | 1.2 | 93 |
| 36 | C36, a hexavalent building block for fullerene compounds and solids. Chemical Physics Letters, 1999, 300, 369-378. | 1.2 | 93 |

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| 37 | Controlling the Frequency of Macrocyclic Ring Rotation in Benzylic Amide [2]Catenanes. Journal of the American Chemical Society, 1998, 120, 6458-6467. | 6.6 | 92 |
| 38 | QCFF/PI vibrational frequencies of some spherical carbon clusters. Journal of the American Chemical Society, 1991, 113, 6037-6040. | 6.6 | 87 |
| 39 | Temperatureâ€Dependent Fluorescence of Cu<sub>5</sub> Metal Clusters: A Molecular Thermometer. Angewandte Chemie - International Edition, 2012, 51, 9662-9665. | 7.2 | 87 |
| 40 | Molecular Mechanism of Water Bridge Buildup: Field-Induced Formation of Nanoscale Menisci. Langmuir, 2008, 24, 6116-6120. | 1.6 | 86 |
| 41 | Charge-density oscillation on graphite induced by the interference of electron waves. Physical Review B, 2005, 71, . | 1.1 | 85 |
| 42 | Energetics of Fullerenes with Four-Membered Rings. The Journal of Physical Chemistry, 1996, 100, 6984-6991. | 2.9 | 84 |
| 43 | Probing the Structure of Lysozymeâ€“Carbonâ€Nanotube Hybrids with Molecular Dynamics. Chemistry - A European Journal, 2012, 18, 4308-4313. | 1.7 | 84 |
| 44 | The Effect of Mechanical Interlocking on Crystal Packing:â€‰ Predictions and Testing. Journal of the American Chemical Society, 2002, 124, 225-233. | 6.6 | 83 |
| 45 | Effects of Electric Field Stress on a Î²-Amyloid Peptide. Journal of Physical Chemistry B, 2009, 113, 369-376. | 1.2 | 83 |
| 46 | Fast photodynamics of azobenzene probed by scanning excited-state potential energy surfaces using slow spectroscopy. Nature Communications, 2015, 6, 5860. | 5.8 | 82 |
| 47 | Cyclic Voltammetry and Bulk Electronic Properties of Soluble Carbon Nanotubes. Journal of the American Chemical Society, 2004, 126, 1646-1647. | 6.6 | 80 |
| 48 | Stability, Dynamics, and Lubrication of MoS<sub>2</sub> Platelets and Nanotubes. Langmuir, 2012, 28, 7393-7400. | 1.6 | 80 |
| 49 | Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. Accounts of Chemical Research, 2018, 51, 3-11. | 7.6 | 78 |
| 50 | Wrapping Nanotubes with Micelles, Hemimicelles, and Cylindrical Micelles. Small, 2009, 5, 2191-2198. | 5.2 | 77 |
| 51 | Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. Nanotechnology, 2009, 20, 275602. | 1.3 | 75 |
| 52 | Vibrational spectrum and harmonic force field of trimethylamine. The Journal of Physical Chemistry, 1993, 97, 581-595. | 2.9 | 74 |
| 53 | Electronic Absorption Spectra of Some Alkoxyl Radicals. An Experimental and Theoretical Study. Journal of the American Chemical Society, 1995, 117, 2711-2718. | 6.6 | 74 |
| 54 | Reducing Molecular Shuttling to a Single Dimension. Angewandte Chemie - International Edition, 2000, 39, 350-353. | 7.2 | 74 |

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| 55 | Role of Substrate in Directing the Self-Assembly of Multicomponent Supramolecular Networks at the Liquidâ€“Solid Interface. ACS Nano, 2012, 6, 8381-8389. | 7.3 | 74 |
| 56 | C<sub>60</sub>@Lysozyme: Direct Observation by Nuclear Magnetic Resonance of a 1:1 Fullerene Protein Adduct. ACS Nano, 2014, 8, 1871-1877. | 7.3 | 70 |
| 57 | How Do Benzylic Amide [2]Catenane Rings Rotate?. Journal of the American Chemical Society, 1999, 121, 2364-2379. | 6.6 | 69 |
| 58 | Light-induced oxygen incision of C60. Journal of the Chemical Society Chemical Communications, 1993, , 220. | 2.0 | 67 |
| 59 | An Experimentally Observed Trimetallofullerene Sm<sub>3</sub>@I<sub>h</sub>-C<sub>80</sub>: Encapsulation of Three Metal Atoms in a Cage without a Nonmetallic Mediator. Journal of the American Chemical Society, 2013, 135, 4187-4190. | 6.6 | 67 |
| 60 | Low-lying electronic excited states of Buckminsterfullerene anions. Journal of the American Chemical Society, 1992, 114, 2909-2913. | 6.6 | 66 |
| 61 | Modulation of the Reduction Potentials of Fullerene Derivatives. Journal of the American Chemical Society, 2003, 125, 7139-7144. | 6.6 | 66 |
| 62 | Charging and equilibration of fullerene isomers. Chemical Physics Letters, 1995, 243, 36-41. | 1.2 | 65 |
| 63 | Energetics of fullerenes with heptagonal rings. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2203. | 1.7 | 65 |
| 64 | The missing fluorescence of sâ€trans butadiene. Journal of Chemical Physics, 1990, 93, 1235-1245. | 1.2 | 64 |
| 65 | Electrochemical Monitoring of Valence Bond Isomers Interconversion in Bipyridyl-C61 Anions. Journal of the American Chemical Society, 1995, 117, 6572-6580. | 6.6 | 64 |
| 66 | TheS0(1Ag)â€“S1(1B2u) vibronic transition in benzene: Anabinitiostudy. Journal of Chemical Physics, 1994, 100, 2458-2464. | 1.2 | 60 |
| 67 | Title is missing!. Angewandte Chemie, 2003, 115, 2398-2402. | 1.6 | 60 |
| 68 | The Erratic Emission of Pyrene on Gold Nanoparticles. ACS Nano, 2008, 2, 77-84. | 7.3 | 60 |
| 69 | A Carbon Nanoâ€Onionâ€“Ferrocene Donorâ€“Acceptor System: Synthesis, Characterization and Properties. Chemistry - A European Journal, 2009, 15, 4419-4427. | 1.7 | 58 |
| 70 | A Simple Road for the Transformation of Few-Layer Graphene into MWNTs. Journal of the American Chemical Society, 2012, 134, 13310-13315. | 6.6 | 58 |
| 71 | Biorecognition in Organic Field Effect Transistors Biosensors: The Role of the Density of States of the Organic Semiconductor. Analytical Chemistry, 2016, 88, 12330-12338. | 3.2 | 58 |
| 72 | Conformational Self-Recognition as the Origin of Dewetting in Bistable Molecular Surfaces. Journal of Physical Chemistry B, 2001, 105, 10826-10830. | 1.2 | 57 |

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| 73 | Modeling the Adsorption of Alkanes on an Au(111) Surface. Langmuir, 2003, 19, 7335-7340. | 1.6 | 57 |
| 74 | Electronic Structure of Carbon Nanotubes with Ultrahigh Curvature. ACS Nano, 2010, 4, 4515-4522. | 7.3 | 57 |
| 75 | Conformational Selection and Folding-upon-binding of Intrinsically Disordered Protein CP12 Regulate Photosynthetic Enzymes Assembly. Journal of Biological Chemistry, 2012, 287, 21372-21383. | 1.6 | 57 |
| 76 | Circumstellar carbon chain molecules: A density function theory study of CnO, n=3â€“9. Journal of Chemical Physics, 1995, 103, 6343-6349. | 1.2 | 56 |
| 77 | Amyloid-Î² fibril disruption by C60â€”molecular guidance for rational drug design. Physical Chemistry Chemical Physics, 2012, 14, 8599. | 1.3 | 56 |
| 78 | Frequency-Dependent Second-Order Hyperpolarizability of Carbon Clusters: A Semiempirical Investigation. Journal of the American Chemical Society, 1995, 117, 6101-6108. | 6.6 | 55 |
| 79 | A Tight-Binding Treatment for13C NMR Spectra of Fullerenes. Journal of Physical Chemistry A, 1999, 103, 8738-8746. | 1.1 | 55 |
| 80 | From reactants to products via simple hydrogen-bonding networks: Information transmission in chemical reactions. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4967-4971. | 3.3 | 53 |
| 81 | Molecular Dynamics of a Dendrimerâ^'Dye Guestâ^'Host System. Journal of the American Chemical Society, 2003, 125, 7388-7393. | 6.6 | 53 |
| 82 | A computational analysis of the insertion of carbon nanotubes into cellular membranes. Biomaterials, 2011, 32, 7079-7085. | 5.7 | 53 |
| 83 | Electronic and mechanical coupling between guest and host in carbon peapods. Physical Review B, 2004, 69, . | 1.1 | 52 |
| 84 | Modeling the Stability and the Motion of DNA Nucleobases on the Gold Surface. Langmuir, 2005, 21, 2512-2518. | 1.6 | 52 |
| 85 | The vibrational frequencies of C60. Chemical Physics Letters, 1992, 190, 174-178. | 1.2 | 51 |
| 86 | Theoretical study of the force field of the lowest singlet electronic states of long polyenes. Journal of Chemical Physics, 1989, 91, 6215-6224. | 1.2 | 50 |
| 87 | The vibrational spectroscopy of C60H36: An experimental and theoretical study. Chemical Physics, 1998, 232, 75-94. | 0.9 | 50 |
| 88 | The Mechanism of Formation of Amide-Based Interlocked Compounds: Prediction of a New Rotaxane-Forming Motif. Chemistry - A European Journal, 2004, 10, 4960-4969. | 1.7 | 50 |
| 89 | The Stone-Wales map for C60. Chemical Physics Letters, 1995, 235, 146-151. | 1.2 | 49 |
| 90 | Rolling up a Graphene Sheet. ChemPhysChem, 2013, 14, 3447-3453. | 1.0 | 49 |

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| 91 | Vibronic coupling in polyenes: The frequency increase of the active Cî—»C ag stretching mode in the absorption spectra. Chemical Physics, 1986, 108, 187-195. | 0.9 | 48 |
| 92 | Theoretical analysis of the force field of the lowest excited singlet state of trans-stilbene. The Journal of Physical Chemistry, 1989, 93, 5124-5128. | 2.9 | 48 |
| 93 | Incorporation of Fullerene Derivatives into Smectite Clays:Â A New Family of Organicâ"Inorganic Nanocomposites. Journal of the American Chemical Society, 2004, 126, 8561-8568. | 6.6 | 47 |
| 94 | Shape Governs the Motion of Chemically Propelled Janus Swimmers. Journal of Physical Chemistry C, 2012, 116, 592-598. | 1.5 | 47 |
| 95 | Structural Motifs and the Stability of Fullerenes. The Journal of Physical Chemistry, 1995, 99, 8076-8081. | 2.9 | 46 |
| 96 | Clayâ"Fulleropyrrolidine Nanocomposites. Journal of the American Chemical Society, 2006, 128, 6154-6163. | 6.6 | 46 |
| 97 | Experimental and Theoretical Study of the Infrared, Raman, and Electronic Spectra of Two Isomers of C78ofC2vSymmetry. The Journal of Physical Chemistry, 1996, 100, 13399-13407. | 2.9 | 45 |
| 98 | The hyperpolarisability of an endohedral fullerene: Li@C60. Chemical Physics Letters, 1998, 288, 131-137. | 1.2 | 45 |
| 99 | Assignment and vibrational analysis of the 600â€,nm absorption band in the phenoxyl radical and some of its derivatives. Canadian Journal of Chemistry, 1993, 71, 1655-1662. | 0.6 | 44 |
| 100 | The intramolecular vibrations of prototypical polythiophenes. Journal of Chemical Physics, 1996, 104, 9704-9718. | 1.2 | 44 |
| 101 | C36:Â The Best Fullerene for Covalent Bonding. Journal of the American Chemical Society, 1999, 121, 3218-3219. | 6.6 | 44 |
| 102 | Water-induced polaron formation at the pentacene surface: Quantum mechanical molecular mechanics simulations. Physical Review B, 2009, 79, . | 1.1 | 44 |
| 103 | Graphite Oxide and Aromatic Amines: Size Matters. Advanced Functional Materials, 2015, 25, 263-269. | 7.8 | 44 |
| 104 | Vibronic coupling in the benzyl radical. Chemical Physics Letters, 1985, 115, 253-258. | 1.2 | 43 |
| 105 | Nanopatterning of carbonaceous structures by field-induced carbon dioxide splitting with a force microscope. Applied Physics Letters, 2010, 96, . | 1.5 | 43 |
| 106 | In Silico Carborane Docking to Proteins and Potential Drug Targets. Journal of Chemical Information and Modeling, 2011, 51, 1882-1896. | 2.5 | 43 |
| 107 | The electronic structure and vibrational frequencies of the stable C76 isomer of D2 symmetry. Chemical Physics Letters, 1993, 208, 441-445. | 1.2 | 42 |
| 108 | Dynamics of Thiolate Chains on a Gold Nanoparticle. Small, 2007, 3, 386-388. | 5.2 | 42 |

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| 109 | An introduction to bubble dynamics. Physical Chemistry Chemical Physics, 2007, 9, 2447. | 1.3 | 42 |
| 110 | Vibronic coupling in polyenes and their derivatives. Interpretation of the absorption and emission spectra of a derivative of dodecahexaene. Journal of Chemical Physics, 1987, 87, 2505-2512. | 1.2 | 41 |
| 111 | Quantum chemical and vibronic analysis of the 1â€‰2B2â†”1â€‰2A2, 2â€‰2B2transition in benzylâ€h7and benzylâ€d7radicals. Journal of Chemical Physics, 1990, 93, 600-608. | 1.2 | 41 |
| 112 | Infrared fingerprints of nine fullerene C82 isomers: a semiempirical prediction. The Journal of Physical Chemistry, 1993, 97, 13575-13579. | 2.9 | 41 |
| 113 | Fullerene sorting proteins. Nanoscale, 2011, 3, 2873. | 2.8 | 41 |
| 114 | Atomistic molecular dynamics simulations reveal insights into adsorption, packing, and fluxes of molecules with carbon nanotubes. Journal of Materials Chemistry A, 2014, 2, 12123-12135. | 5.2 | 41 |
| 115 | Blocking the Passage: C<sub>60</sub> Geometrically Clogs K<sup>+</sup> Channels. ACS Nano, 2015, 9, 4827-4834. | 7.3 | 41 |
| 116 | Absolute intensities of CH-stretching overtones in chloroform and deuterochloroform. Chemical Physics Letters, 1989, 154, 273-279. | 1.2 | 40 |
| 117 | Dynamics of molecular inversion: An instanton approach. Journal of Chemical Physics, 1995, 102, 7024-7034. | 1.2 | 40 |
| 118 | Energetics of C20and C22Fullerene and Near-Fullerene Carbon Cages. Journal of Physical Chemistry A, 1997, 101, 8339-8344. | 1.1 | 40 |
| 119 | Adsorption of a Benzylic Amide Macrocycle on a Solid Substrate:â€‰ XPS and HREELS Characterization of Thin Films Grown on Au(111). Journal of Physical Chemistry B, 2002, 106, 8739-8746. | 1.2 | 40 |
| 120 | Selective Enhancement of Photoluminescence in Filled Singleâ€Walled Carbon Nanotubes. Advanced Functional Materials, 2012, 22, 3202-3208. | 7.8 | 40 |
| 121 | Thermodynamics of Binding Between Proteins and Carbon Nanoparticles: The Case of C<sub>60</sub>@Lysozyme. Journal of Physical Chemistry C, 2015, 119, 28077-28082. | 1.5 | 40 |
| 122 | New Assignments in the 600 nm Region of C60:Â The Origins of the T1gand GgTransitions. The Journal of Physical Chemistry, 1996, 100, 10849-10853. | 2.9 | 39 |
| 123 | Large Enhancement of the Nonlinear Optical Response of Reduced Fullerene Derivatives. Chemistry - A European Journal, 2003, 9, 1529-1534. | 1.7 | 39 |
| 124 | Simple models for hydrophobic hydration. Chemical Society Reviews, 2005, 34, 1012. | 18.7 | 39 |
| 125 | Application of the Poisson-Nernst-Planck Theory with Space-Dependent Diffusion Coefficients to KcsA. Biophysical Journal, 2006, 91, 3162-3169. | 0.2 | 39 |
| 126 | Electric Field Effects on Short Fibrils of AÎ² Amyloid Peptides. Journal of Chemical Theory and Computation, 2010, 6, 3516-3526. | 2.3 | 39 |

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| 128 | What Is Adenine Doing in Photolyase?. Journal of Physical Chemistry B, 2010, 114, 4101-4106. | 1.2 | 38 |
| 129 | Mechanical Interactions in All-Carbon Peapods. Journal of Physical Chemistry B, 2003, 107, 6986-6990. | 1.2 | 37 |
| 130 | Molecular dynamics study of onset of water gelation around the collagen triple helix. Proteins: Structure, Function and Bioinformatics, 2006, 64, 711-718. | 1.5 | 37 |
| 131 | Pyridinedicarboxamide Strands Form Double Helices via an Activated Slippage Mechanism. Journal of the American Chemical Society, 2004, 126, 2362-2367. | 6.6 | 36 |
| 132 | On-the-Fly, Electric-Field-Driven, Coupled Electronâ^'Nuclear Dynamics. Journal of Physical Chemistry A, 2008, 112, 9650-9656. | 1.1 | 36 |
| 133 | Comparison of synchronous and asynchronous hydrogen transfer mechanisms in free-base porphyrins. Chemical Physics, 1989, 136, 285-295. | 0.9 | 35 |
| 134 | Theoretical study of the vibronic structure of the 1â€‰1A1â†'1â€‰1B2 and 1â€‰1A1â†'1â€‰3B2 electronic transitions in cyclopentadiene. Journal of Chemical Physics, 1993, 99, 3721-3729. | 1.2 | 35 |
| 135 | Growth of p- and n-Dopable Films from Electrochemically Generated C<sub>60</sub> Cations. Journal of the American Chemical Society, 2008, 130, 3788-3796. | 6.6 | 35 |
| 136 | Splitting CO<sub>2</sub> with Electric Fields: A Computational Investigation. Journal of Physical Chemistry Letters, 2010, 1, 3256-3260. | 2.1 | 34 |
| 137 | Interaction Model for the Adsorption of Organic Molecules on the Silver Surface. Journal of Physical Chemistry B, 2006, 110, 5595-5601. | 1.2 | 34 |
| 138 | Quantum-chemical analysis of vibrational intensity distributions in the S0-S1 absorption spectra and raman excitation profiles of azulene. Chemical Physics, 1986, 110, 421-430. | 0.9 | 33 |
| 139 | Theoretical analysis of Franck-Condon and vibronic activity of the ag and b3g modes in the S0â†" S1 transitions in anthracene. Chemical Physics, 1988, 127, 17-29. | 0.9 | 33 |
| 140 | Relative stabilities of C76 isomers. A numerical test of the fullerene isolated-pentagon rule. Chemical Physics Letters, 1994, 226, 219-225. | 1.2 | 33 |
| 141 | A Density Functional Study of the Vibrations of Three Oligomers of Thiophene. Journal of Physical Chemistry A, 1997, 101, 7283-7291. | 1.1 | 33 |
| 142 | The Effect of Guest Inclusion on the Crystal Packing of p-tert-Butylcalix[4]arenes. Chemistry - A European Journal, 2002, 8, 4854-4866. | 1.7 | 33 |
| 143 | Modelling of the Adsorption of C60 on the Au(110) Surface. ChemPhysChem, 2004, 5, 245-248. | 1.0 | 33 |
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| 145 | Intermolecular Repulsion through Interfacial Attraction: Toward Engineering of Polymorphs. Journal of the American Chemical Society, 2009, 131, 15655-15659. | 6.6 | 32 |
| 146 | Controlled Hydrogenâ€Bond Breaking in a Rotaxane by Discrete Solvation. Angewandte Chemie - International Edition, 2010, 49, 3896-3900. | 7.2 | 32 |
| 147 | Calcite Single Crystals as Hosts for Atomicâ€Scale Entrapment and Slow Release of Drugs. Advanced Healthcare Materials, 2015, 4, 1510-1516. | 3.9 | 32 |
| 148 | The Collapse of Nanobubbles in Water. Journal of the American Chemical Society, 2005, 127, 8020-8021. | 6.6 | 31 |
| 149 | Unexpected Photophysical Properties of Symmetric Indolylmaleimide Derivatives. Journal of Physical Chemistry A, 2005, 109, 6440-6449. | 1.1 | 31 |
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| 151 | Observation and modeling of the recombination kinetics of diphenylmethyl radicals in the cavities of Na-X zeolite. The Journal of Physical Chemistry, 1991, 95, 10018-10024. | 2.9 | 30 |
| 152 | The infrared and Raman active vibrational frequencies of C60 hexaanion. Chemical Physics Letters, 1992, 196, 303-310. | 1.2 | 30 |
| 153 | The Franckâ€“Condon structure of the 1Aâ†'1B transition of cisâ€•and transâ€hexatriene: An ab initio modeling. Journal of Chemical Physics, 1993, 98, 4822-4829. | 1.2 | 30 |
| 154 | Molecular Structure of Stilbene in the T1 State. Transient Resonance Raman Spectra of Stilbene Isotopomers and Quantum Chemical Calculations. The Journal of Physical Chemistry, 1994, 98, 2254-2265. | 2.9 | 30 |
| 155 | Energetics and isomerisation pathways of a lower fullerene. The Stoneâ€“Wales map for C40. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1421-1423. | 1.7 | 30 |
| 156 | Playing peekaboo with graphene oxide: a scanning electrochemical microscopy investigation. Chemical Communications, 2014, 50, 13117-13120. | 2.2 | 30 |
| 157 | Graphene Oxide Promotes Site-Selective Allylic Alkylation of Thiophenes with Alcohols. Organic Letters, 2018, 20, 3705-3709. | 2.4 | 30 |
| 158 | Identification and preparation of stable water dispersions of protein - Carbon nanotube hybrids and efficient design of new functional materials. Carbon, 2019, 147, 70-82. | 5.4 | 30 |
| 159 | Franckâ€“Condon modeling of the structure of the S0â†'S2 transition of trans, transâ€, cis, transâ€, and cis, cisâ€octatetraene. Journal of Chemical Physics, 1994, 101, 1842-1851. | 1.2 | 29 |
| 160 | Vibronic activity in trans,transâ€1,3,5,7 octatetraene: The S0â†'S1 spectrum. Journal of Chemical Physics, 1995, 103, 10492-10501. | 1.2 | 29 |
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