

Francesco Zerbetto

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398
papers

17,452
citations

60
h-index

116
g-index

421
ext. papers

18,363
ext. citations

7.2
avg, IF

6.57
L-index

#	Paper	IF	Citations
398	Synthetic molecular motors and mechanical machines. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 72-191	16.4	2241
397	Unidirectional rotation in a mechanically interlocked molecular rotor. <i>Nature</i> , 2003 , 424, 174-9	50.4	760
396	Macroscopic transport by synthetic molecular machines. <i>Nature Materials</i> , 2005 , 4, 704-10	27	639
395	Synthetische molekulare Motoren und mechanische Maschinen. <i>Angewandte Chemie</i> , 2007 , 119, 72-196	3.6	583
394	Carbon nanotubes in electron donor-acceptor nanocomposites. <i>Accounts of Chemical Research</i> , 2005 , 38, 871-8	24.3	429
393	Quantum-chemical investigation of Franck-Condon and Jahn-Teller activity in the electronic spectra of Buckminsterfullerene. <i>Chemical Physics Letters</i> , 1988 , 144, 31-37	2.5	315
392	Interactions in single wall carbon nanotubes/pyrene/porphyrin nanohybrids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11222-31	16.4	300
391	Theoretical analysis of spectra of short polyenes. <i>Chemical Reviews</i> , 1991 , 91, 867-891	68.1	291
390	Patterning through controlled submolecular motion: rotaxane-based switches and logic gates that function in solution and polymer films. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3062-7	16.4	199
389	Influencing intramolecular motion with an alternating electric field. <i>Nature</i> , 2000 , 406, 608-11	50.4	199
388	A generic basis for some simple light-operated mechanical molecular machines. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12210-1	16.4	187
387	Information storage using supramolecular surface patterns. <i>Science</i> , 2003 , 299, 531	33.3	176
386	Supramolecular self-assembled fullerene nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5075-80	11.5	176
385	Ordering fullerene materials at nanometer dimensions. <i>Accounts of Chemical Research</i> , 2005 , 38, 38-43	24.3	169
384	Pentagon adjacency as a determinant of fullerene stability. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 2913-2918	3.6	167
383	Photoisomerization of a rotaxane hydrogen bonding template: light-induced acceleration of a large amplitude rotational motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 10-4	11.5	163
382	Remarkable positional discrimination in bistable light- and heat-switchable hydrogen-bonded molecular shuttles. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2296-300	16.4	162

381	Interpretation of the vibrational structure of the emission and absorption spectra of C60. <i>Journal of Chemical Physics</i> , 1992 , 97, 6496-6503	3.9	152
380	Parallel (face-to-face) versus perpendicular (edge-to-face) alignment of electron donors and acceptors in fullerene porphyrin dyads: the importance of orientation in electron transfer. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9166-7	16.4	142
379	Dual-Gate Organic Field-Effect Transistors as Potentiometric Sensors in Aqueous Solution. <i>Advanced Functional Materials</i> , 2010 , 20, 898-905	15.6	122
378	The devil and holy water: protein and carbon nanotube hybrids. <i>Accounts of Chemical Research</i> , 2013 , 46, 2454-63	24.3	120
377	Increasing cost of pentagon adjacency for larger fullerenes. <i>Chemical Physics Letters</i> , 1996 , 250, 544-548	2.5	118
376	Graphene can wreak havoc with cell membranes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4406-14	5	115
375	Kinetics of Place-Exchange Reactions of Thiols on Gold Nanoparticles. <i>Langmuir</i> , 2003 , 19, 5172-5174	4	107
374	Modulating charge-transfer interactions in topologically different porphyrin-C60 dyads. <i>Chemistry - A European Journal</i> , 2003 , 9, 4968-79	4.8	102
373	Switching "on" and "off" the expression of chirality in peptide rotaxanes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2939-50	16.4	99
372	Extremely strong and readily accessible AAA-DDD triple hydrogen bond complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 476-7	16.4	98
371	Entropy-driven translational isomerism: a tristable molecular shuttle. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5886-9	16.4	95
370	Baiting proteins with C60. <i>ACS Nano</i> , 2010 , 4, 2283-99	16.7	94
369	Singling out the electrochemistry of individual single-walled carbon nanotubes in solution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7393-9	16.4	93
368	Cadiot-Chodkiewicz active template synthesis of rotaxanes and switchable molecular shuttles with weak intercomponent interactions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4392-6	16.4	92
367	C62: Theoretical Evidence for a Nonclassical Fullerene with a Heptagonal Ring. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15634-15636		89
366	Theoretical study of the force fields of the three lowest singlet electronic states of linear polyenes. <i>Journal of Chemical Physics</i> , 1988 , 89, 3681-3688	3.9	89
365	C36, a hexavalent building block for fullerene compounds and solids. <i>Chemical Physics Letters</i> , 1999 , 300, 369-378	2.5	85
364	Mechanochemistry: targeted delivery of single molecules. <i>Nature Nanotechnology</i> , 2006 , 1, 122-5	28.7	84

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- 361 QCFF/PI vibrational frequencies of some spherical carbon clusters. *Journal of the American Chemical Society*, **1991**, 113, 6037-6040 16.4 83
- 360 Directly Observing Micelle Fusion and Growth in Solution by Liquid-Cell Transmission Electron Microscopy. *Journal of the American Chemical Society*, **2017**, 139, 17140-17151 16.4 81
- 359 Controlling the Frequency of Macrocyclic Ring Rotation in Benzylic Amide [2]Catenanes. *Journal of the American Chemical Society*, **1998**, 120, 6458-6467 16.4 79
- 358 Energetics of Fullerenes with Four-Membered Rings. *The Journal of Physical Chemistry*, **1996**, 100, 6984-6991 77
- 357 Temperature-dependent fluorescence of Cu₅ metal clusters: a molecular thermometer. *Angewandte Chemie - International Edition*, **2012**, 51, 9662-5 16.4 76
- 356 Probing the structure of lysozyme-carbon-nanotube hybrids with molecular dynamics. *Chemistry - A European Journal*, **2012**, 18, 4308-13 4.8 76
- 355 Wrapping nanotubes with micelles, hemimicelles, and cylindrical micelles. *Small*, **2009**, 5, 2191-8 11 75
- 354 Cyclic voltammetry and bulk electronic properties of soluble carbon nanotubes. *Journal of the American Chemical Society*, **2004**, 126, 1646-7 16.4 75
- 353 The effect of mechanical interlocking on crystal packing: predictions and testing. *Journal of the American Chemical Society*, **2002**, 124, 225-33 16.4 74
- 352 Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. *Nanotechnology*, **2009**, 20, 275602 3.4 72
- 351 Stability, dynamics, and lubrication of MoS₂ platelets and nanotubes. *Langmuir*, **2012**, 28, 7393-400 4 71
- 350 Molecular mechanism of water bridge buildup: field-induced formation of nanoscale menisci. *Langmuir*, **2008**, 24, 6116-20 4 71
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- 348 Electronic Absorption Spectra of Some Alkoxy Radicals. An Experimental and Theoretical Study. *Journal of the American Chemical Society*, **1995**, 117, 2711-2718 16.4 70
- 347 Fast photodynamics of azobenzene probed by scanning excited-state potential energy surfaces using slow spectroscopy. *Nature Communications*, **2015**, 6, 5860 17.4 69
- 346 Role of substrate in directing the self-assembly of multicomponent supramolecular networks at the liquid-solid interface. *ACS Nano*, **2012**, 6, 8381-9 16.7 69

- 345 Effects of electric field stress on a beta-amyloid peptide. *Journal of Physical Chemistry B*, **2009**, 113, 369-374 68
- 344 Reducing Molecular Shuttling to a Single Dimension. *Angewandte Chemie - International Edition*, **2000**, 39, 350-353 16.4 65
- 343 Modulation of the reduction potentials of fullerene derivatives. *Journal of the American Chemical Society*, **2003**, 125, 7139-44 16.4 63
- 342 Low-lying electronic excited states of Buckminsterfullerene anions. *Journal of the American Chemical Society*, **1992**, 114, 2909-2913 16.4 62
- 341 The missing fluorescence of s-trans butadiene. *Journal of Chemical Physics*, **1990**, 93, 1235-1245 3.9 62
- 340 C60@Lysozyme: direct observation by nuclear magnetic resonance of a 1:1 fullerene protein adduct. *ACS Nano*, **2014**, 8, 1871-7 16.7 61
- 339 Charging and equilibration of fullerene isomers. *Chemical Physics Letters*, **1995**, 243, 36-41 2.5 60
- 338 How Do Benzylic Amide [2]Catenane Rings Rotate?. *Journal of the American Chemical Society*, **1999**, 121, 2364-2379 16.4 58
- 337 Energetics of fullerenes with heptagonal rings. *Journal of the Chemical Society, Faraday Transactions*, **1996**, 92, 2203 58
- 336 Light-induced oxygen incision of C60. *Journal of the Chemical Society Chemical Communications*, **1993**, 220 58
- 335 Patterning through Controlled Submolecular Motion: Rotaxane-Based Switches and Logic Gates that Function in Solution and Polymer Films. *Angewandte Chemie*, **2005**, 117, 3122-3127 3.6 56
- 334 The erratic emission of pyrene on gold nanoparticles. *ACS Nano*, **2008**, 2, 77-84 16.7 55
- 333 An experimentally observed trimetallofullerene Sm₃@I(h)-C80: encapsulation of three metal atoms in a cage without a nonmetallic mediator. *Journal of the American Chemical Society*, **2013**, 135, 4187-90 16.4 54
- 332 Frequency-Dependent Second-Order Hyperpolarizability of Carbon Clusters: A Semiempirical Investigation. *Journal of the American Chemical Society*, **1995**, 117, 6101-6108 16.4 54
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- 330 A simple road for the transformation of few-layer graphene into MWNTs. *Journal of the American Chemical Society*, **2012**, 134, 13310-5 16.4 53
- 329 Modeling the Adsorption of Alkanes on an Au(111) Surface. *Langmuir*, **2003**, 19, 7335-7340 4 53
- 328 Conformational Self-Recognition as the Origin of Dewetting in Bistable Molecular Surfaces. *Journal of Physical Chemistry B*, **2001**, 105, 10826-10830 3.4 53

327	Electrochemical Monitoring of Valence Bond Isomers Interconversion in Bipyridyl-C61 Anions. <i>Journal of the American Chemical Society</i> , 1995 , 117, 6572-6580	16.4	53
326	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. <i>Accounts of Chemical Research</i> , 2018 , 51, 3-11	24.3	53
325	The vibrational frequencies of C60. <i>Chemical Physics Letters</i> , 1992 , 190, 174-178	2.5	51
324	Molecular dynamics of a dendrimer-dye guest-host system. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7388-93	16.4	50
323	Electronic structure of carbon nanotubes with ultrahigh curvature. <i>ACS Nano</i> , 2010 , 4, 4515-22	16.7	49
322	The mechanism of formation of amide-based interlocked compounds: prediction of a new rotaxane-forming motif. <i>Chemistry - A European Journal</i> , 2004 , 10, 4960-9	4.8	49
321	Circumstellar carbon chain molecules: A density function theory study of C _n O, n=39. <i>Journal of Chemical Physics</i> , 1995 , 103, 6343-6349	3.9	49
320	Conformational selection and folding-upon-binding of intrinsically disordered protein CP12 regulate photosynthetic enzymes assembly. <i>Journal of Biological Chemistry</i> , 2012 , 287, 21372-83	5.4	48
319	A computational analysis of the insertion of carbon nanotubes into cellular membranes. <i>Biomaterials</i> , 2011 , 32, 7079-85	15.6	48
318	A carbon nano-onion-ferrocene donor-acceptor system: synthesis, characterization and properties. <i>Chemistry - A European Journal</i> , 2009 , 15, 4419-27	4.8	48
317	Remarkable Positional Discrimination in Bistable Light- and Heat-Switchable Hydrogen-Bonded Molecular Shuttles. <i>Angewandte Chemie</i> , 2003 , 115, 2398-2402	3.6	48
316	Amyloid-Fibril disruption by C60-molecular guidance for rational drug design. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8599-607	3.6	47
315	From reactants to products via simple hydrogen-bonding networks: Information transmission in chemical reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4967-71	11.5	47
314	Theoretical study of the force field of the lowest singlet electronic states of long polyenes. <i>Journal of Chemical Physics</i> , 1989 , 91, 6215-6224	3.9	47
313	Electronic and mechanical coupling between guest and host in carbon peapods. <i>Physical Review B</i> , 2004 , 69,	3.3	46
312	A Tight-Binding Treatment for ¹³ C NMR Spectra of Fullerenes. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 8738-8746	2.8	46
311	Theoretical analysis of the force field of the lowest excited singlet state of trans-stilbene. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 5124-5128		46
310	Biorecognition in Organic Field Effect Transistors Biosensors: The Role of the Density of States of the Organic Semiconductor. <i>Analytical Chemistry</i> , 2016 , 88, 12330-12338	7.8	45

309	The vibrational spectroscopy of C ₆₀ H ₃₆ : An experimental and theoretical study. <i>Chemical Physics</i> , 1998 , 232, 75-94	2.3	45
308	Modeling the stability and the motion of DNA nucleobases on the gold surface. <i>Langmuir</i> , 2005 , 21, 2512-8		45
307	Incorporation of fullerene derivatives into smectite clays: a new family of organic-inorganic nanocomposites. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8561-8	16.4	45
306	The Stone-Wales map for C ₆₀ . <i>Chemical Physics Letters</i> , 1995 , 235, 146-151	2.5	45
305	Experimental and Theoretical Study of the Infrared, Raman, and Electronic Spectra of Two Isomers of C ₇₈ of C _{2v} Symmetry. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 13399-13407		44
304	Vibronic coupling in polyenes: The frequency increase of the active C=C stretching mode in the absorption spectra. <i>Chemical Physics</i> , 1986 , 108, 187-195	2.3	44
303	Clay-fulleropyrrolidine nanocomposites. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6154-63	16.4	43
302	Water-induced polaron formation at the pentacene surface: Quantum mechanical molecular mechanics simulations. <i>Physical Review B</i> , 2009 , 79,	3.3	42
301	Assignment and vibrational analysis of the 600 nm absorption band in the phenoxyl radical and some of its derivatives. <i>Canadian Journal of Chemistry</i> , 1993 , 71, 1655-1662	0.9	42
300	Vibronic coupling in the benzyl radical. <i>Chemical Physics Letters</i> , 1985 , 115, 253-258	2.5	42
299	Shape Governs the Motion of Chemically Propelled Janus Swimmers. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 592-598	3.8	41
298	Dynamics of thiolate chains on a gold nanoparticle. <i>Small</i> , 2007 , 3, 386-8	11	41
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296	Nanopatterning of carbonaceous structures by field-induced carbon dioxide splitting with a force microscope. <i>Applied Physics Letters</i> , 2010 , 96, 143110	3.4	40
295	Quantum chemical and vibronic analysis of the 1 2B ₂ - \rightarrow 1 2A ₂ , 2 2B ₂ transition in benzyl-h ₇ and benzyl-d ₇ radicals. <i>Journal of Chemical Physics</i> , 1990 , 93, 600-608	3.9	40
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290	The intramolecular vibrations of prototypical polythiophenes. <i>Journal of Chemical Physics</i> , 1996 , 104, 9704-9718	3.9	39
289	Absolute intensities of CH-stretching overtones in chloroform and deuteriochloroform. <i>Chemical Physics Letters</i> , 1989 , 154, 273-279	2.5	39
288	Rolling up a graphene sheet. <i>ChemPhysChem</i> , 2013 , 14, 3447-53	3.2	38
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286	What is adenine doing in photolyase?. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 4101-6	3.4	37
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275	Inelastic neutron-scattering study of the intramolecular vibrations of the C70 fullerene. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 3641-3643		35
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272	A Density Functional Study of the Vibrations of Three Oligomers of Thiophene. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 7283-7291	2.8	33
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270	Comparison of synchronous and asynchronous hydrogen transfer mechanisms in free-base porphyrins. <i>Chemical Physics</i> , 1989 , 136, 285-295	2.3	33
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265	Growth of p- and n-dopable films from electrochemically generated C60 cations. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3788-96	16.4	32
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257	The effect of guest inclusion on the crystal packing of p-tert-butylcalix[4]arenes. <i>Chemistry - A European Journal</i> , 2002 , 8, 4854-66	4.8	31
256	Controlled hydrogen-bond breaking in a rotaxane by discrete solvation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3896-900	16.4	30

255	Entropy-Driven Translational Isomerism: A Tristable Molecular Shuttle. <i>Angewandte Chemie</i> , 2003 , 115, 6066-6069	3.6	30
254	Electric Field Effects on Short Fibrils of β -Amyloid Peptides. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 3516-26	6.4	29
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243	Ab initio scaling of the second hyperpolarizabilities of carbon cages. <i>Journal of Chemical Physics</i> , 1997 , 107, 5072-5075	3.9	27
242	Reducing Molecular Shuttling to a Single Dimension. <i>Angewandte Chemie</i> , 2000 , 112, 358-361	3.6	27
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239	Playing peekaboo with graphene oxide: a scanning electrochemical microscopy investigation. <i>Chemical Communications</i> , 2014 , 50, 13117-20	5.8	26
238	Cl ⁻ Exchange S _N 2 Reaction inside Carbon Nanotubes: C ₆₀ and C ₇₀ Interactions Govern the Course of the Reaction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5032-5040	3.8	26

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236	Third-Order Susceptibility of Li@C60. <i>Advanced Materials</i> , 1999 , 11, 405-408	24	26
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232	Customizing properties of Chitin in squid pen (gladius) by chemical treatments. <i>Marine Drugs</i> , 2014 , 12, 5979-92	6	25
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