Francesco Zerbetto

List of Publications by Year
in descending order

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400 papers	19,508 citations	16451 64 h-index	17105 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.	13.8	2,428
2	Unidirectional rotation in a mechanically interlocked molecular rotor. Nature, 2003, 424, 174-179.	27.8	862
3	Macroscopic transport by synthetic molecular machines. Nature Materials, 2005, 4, 704-710.	27.5	685
4	Carbon Nanotubes in Electron Donorâ"Acceptor Nanocomposites. Accounts of Chemical Research, 2005, 38, 871-878.	15.6	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.	2.6	333
6	Interactions in Single Wall Carbon Nanotubes/Pyrene/Porphyrin Nanohybrids. Journal of the American Chemical Society, 2006, 128, 11222-11231.	13.7	320
7	Theoretical analysis of spectra of short polyenes. Chemical Reviews, 1991, 91, 867-891.	47.7	309
8	Influencing intramolecular motion with an alternating electric field. Nature, 2000, 406, 608-611.	27.8	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.	13.8	210
10	A Generic Basis for Some Simple Light-Operated Mechanical Molecular Machines. Journal of the American Chemical Society, 2004, 126, 12210-12211.	13.7	199
11	Information Storage Using Supramolecular Surface Patterns. Science, 2003, 299, 531-531.	12.6	193
12	Supramolecular self-assembled fullerene nanostructures. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5075-5080.	7.1	191
13	Remarkable Positional Discrimination in Bistable Light- and Heat-Switchable Hydrogen-Bonded Molecular Shuttles. Angewandte Chemie - International Edition, 2003, 42, 2296-2300.	13.8	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.	7.1	185
15	Pentagon adjacency as a determinant of fullerene stability. Physical Chemistry Chemical Physics, 1999, 1, 2913-2918.	2.8	178
16	Ordering Fullerene Materials at Nanometer Dimensions. Accounts of Chemical Research, 2005, 38, 38-43.	15.6	177
17	Interpretation of the vibrational structure of the emission and absorption spectra of C60. Journal of Chemical Physics, 1992, 97, 6496-6503.	3.0	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.	13.7	157

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19	Graphene Can Wreak Havoc with Cell Membranes. ACS Applied Materials & Interfaces, 2015, 7, 4406-4414.	8.0	142
20	Dualâ€Gate Organic Fieldâ€Effect Transistors as Potentiometric Sensors in Aqueous Solution. Advanced Functional Materials, 2010, 20, 898-905.	14.9	136
21	The Devil and Holy Water: Protein and Carbon Nanotube Hybrids. Accounts of Chemical Research, 2013, 46, 2454-2463.	15.6	136
22	Increasing cost of pentagon adjacency for larger fullerenes. Chemical Physics Letters, 1996, 250, 544-548.	2.6	130
23	Kinetics of Place-Exchange Reactions of Thiols on Gold Nanoparticles. Langmuir, 2003, 19, 5172-5174.	3.5	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.	13.7	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.	13.7	118
26	Modulating Charge-Transfer Interactions in Topologically Different Porphyrinâ€“C60 Dyads. Chemistry - A European Journal, 2003, 9, 4968-4979.	3.3	110
27	Baiting Proteins with C₆₀. ACS Nano, 2010, 4, 2283-2299.	14.6	104
28	Entropy-Driven Translational Isomerism: A Tristable Molecular Shuttle. Angewandte Chemie - International Edition, 2003, 42, 5886-5889.	13.8	103
29	Extremely Strong and Readily Accessible AAAâ€™DDD Triple Hydrogen Bond Complexes. Journal of the American Chemical Society, 2007, 129, 476-477.	13.7	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.	13.8	101
31	Singling out the Electrochemistry of Individual Single-Walled Carbon Nanotubes in Solution. Journal of the American Chemical Society, 2008, 130, 7393-7399.	13.7	99
32	A molecular dynamics investigation of structure and dynamics of SDS and SDBS micelles. Soft Matter, 2011, 7, 9148.	2.7	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.	31.5	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.	3.0	93
36	C36, a hexavalent building block for fullerene compounds and solids. Chemical Physics Letters, 1999, 300, 369-378.	2.6	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.	13.7	92
38	QCFF/PI vibrational frequencies of some spherical carbon clusters. Journal of the American Chemical Society, 1991, 113, 6037-6040.	13.7	87
39	Temperatureâ€Dependent Fluorescence of Cu₅ Metal Clusters: A Molecular Thermometer. Angewandte Chemie - International Edition, 2012, 51, 9662-9665.	13.8	87
40	Molecular Mechanism of Water Bridge Buildup: Field-Induced Formation of Nanoscale Menisci. Langmuir, 2008, 24, 6116-6120.	3.5	86
41	Charge-density oscillation on graphite induced by the interference of electron waves. Physical Review B, 2005, 71, .	3.2	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.	3.3	84
44	The Effect of Mechanical Interlocking on Crystal Packing:â€‰ Predictions and Testing. Journal of the American Chemical Society, 2002, 124, 225-233.	13.7	83
45	Effects of Electric Field Stress on a Î²-Amyloid Peptide. Journal of Physical Chemistry B, 2009, 113, 369-376.	2.6	83
46	Fast photodynamics of azobenzene probed by scanning excited-state potential energy surfaces using slow spectroscopy. Nature Communications, 2015, 6, 5860.	12.8	82
47	Cyclic Voltammetry and Bulk Electronic Properties of Soluble Carbon Nanotubes. Journal of the American Chemical Society, 2004, 126, 1646-1647.	13.7	80
48	Stability, Dynamics, and Lubrication of MoS₂ Platelets and Nanotubes. Langmuir, 2012, 28, 7393-7400.	3.5	80
49	Tackling the Challenges of Dynamic Experiments Using Liquid-Cell Transmission Electron Microscopy. Accounts of Chemical Research, 2018, 51, 3-11.	15.6	78
50	Wrapping Nanotubes with Micelles, Hemimicelles, and Cylindrical Micelles. Small, 2009, 5, 2191-2198.	10.0	77
51	Dynamics of molecular self-ordering in tetraphenyl porphyrin monolayers on metallic substrates. Nanotechnology, 2009, 20, 275602.	2.6	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.	13.7	74
54	Reducing Molecular Shuttling to a Single Dimension. Angewandte Chemie - International Edition, 2000, 39, 350-353.	13.8	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.	14.6	74
56	C₆₀@Lysozyme: Direct Observation by Nuclear Magnetic Resonance of a 1:1 Fullerene Protein Adduct. ACS Nano, 2014, 8, 1871-1877.	14.6	70
57	How Do Benzylic Amide [2]Catenane Rings Rotate?. Journal of the American Chemical Society, 1999, 121, 2364-2379.	13.7	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 Sm₃@I_h-C₈₀: Encapsulation of Three Metal Atoms in a Cage without a Nonmetallic Mediator. Journal of the American Chemical Society, 2013, 135, 4187-4190.	13.7	67
60	Low-lying electronic excited states of Buckminsterfullerene anions. Journal of the American Chemical Society, 1992, 114, 2909-2913.	13.7	66
61	Modulation of the Reduction Potentials of Fullerene Derivatives. Journal of the American Chemical Society, 2003, 125, 7139-7144.	13.7	66
62	Charging and equilibration of fullerene isomers. Chemical Physics Letters, 1995, 243, 36-41.	2.6	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.	3.0	64
65	Electrochemical Monitoring of Valence Bond Isomers Interconversion in Bipyridyl-C61 Anions. Journal of the American Chemical Society, 1995, 117, 6572-6580.	13.7	64
66	TheS0(1Ag)â€“S1(1B2u) vibronic transition in benzene: Anabinitiostudy. Journal of Chemical Physics, 1994, 100, 2458-2464.	3.0	60
67	Title is missing!. Angewandte Chemie, 2003, 115, 2398-2402.	2.0	60
68	The Erratic Emission of Pyrene on Gold Nanoparticles. ACS Nano, 2008, 2, 77-84.	14.6	60
69	A Carbon Nanoâ€Onionâ€“Ferrocene Donorâ€“Acceptor System: Synthesis, Characterization and Properties. Chemistry - A European Journal, 2009, 15, 4419-4427.	3.3	58
70	A Simple Road for the Transformation of Few-Layer Graphene into MWNTs. Journal of the American Chemical Society, 2012, 134, 13310-13315.	13.7	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.	6.5	58
72	Conformational Self-Recognition as the Origin of Dewetting in Bistable Molecular Surfaces. Journal of Physical Chemistry B, 2001, 105, 10826-10830.	2.6	57

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73	Modeling the Adsorption of Alkanes on an Au(111) Surface. Langmuir, 2003, 19, 7335-7340.	3.5	57
74	Electronic Structure of Carbon Nanotubes with Ultrahigh Curvature. ACS Nano, 2010, 4, 4515-4522.	14.6	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.	3.4	57
76	Circumstellar carbon chain molecules: A density function theory study of CnO, n=3â€“9. Journal of Chemical Physics, 1995, 103, 6343-6349.	3.0	56
77	Amyloid-Î² fibril disruption by C60â€”molecular guidance for rational drug design. Physical Chemistry Chemical Physics, 2012, 14, 8599.	2.8	56
78	Frequency-Dependent Second-Order Hyperpolarizability of Carbon Clusters: A Semiempirical Investigation. Journal of the American Chemical Society, 1995, 117, 6101-6108.	13.7	55
79	A Tight-Binding Treatment for13C NMR Spectra of Fullerenes. Journal of Physical Chemistry A, 1999, 103, 8738-8746.	2.5	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.	7.1	53
81	Molecular Dynamics of a Dendrimerâ^'Dye Guestâ^'Host System. Journal of the American Chemical Society, 2003, 125, 7388-7393.	13.7	53
82	A computational analysis of the insertion of carbon nanotubes into cellular membranes. Biomaterials, 2011, 32, 7079-7085.	11.4	53
83	Electronic and mechanical coupling between guest and host in carbon peapods. Physical Review B, 2004, 69, .	3.2	52
84	Modeling the Stability and the Motion of DNA Nucleobases on the Gold Surface. Langmuir, 2005, 21, 2512-2518.	3.5	52
85	The vibrational frequencies of C60. Chemical Physics Letters, 1992, 190, 174-178.	2.6	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.	3.0	50
87	The vibrational spectroscopy of C60H36: An experimental and theoretical study. Chemical Physics, 1998, 232, 75-94.	1.9	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.	3.3	50
89	The Stone-Wales map for C60. Chemical Physics Letters, 1995, 235, 146-151.	2.6	49
90	Rolling up a Graphene Sheet. ChemPhysChem, 2013, 14, 3447-3453.	2.1	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.	1.9	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.	13.7	47
94	Shape Governs the Motion of Chemically Propelled Janus Swimmers. Journal of Physical Chemistry C, 2012, 116, 592-598.	3.1	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.	13.7	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.	2.6	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.	1.1	44
100	The intramolecular vibrations of prototypical polythiophenes. Journal of Chemical Physics, 1996, 104, 9704-9718.	3.0	44
101	C36:Â The Best Fullerene for Covalent Bonding. Journal of the American Chemical Society, 1999, 121, 3218-3219.	13.7	44
102	Water-induced polaron formation at the pentacene surface: Quantum mechanical molecular mechanics simulations. Physical Review B, 2009, 79, .	3.2	44
103	Graphite Oxide and Aromatic Amines: Size Matters. Advanced Functional Materials, 2015, 25, 263-269.	14.9	44
104	Vibronic coupling in the benzyl radical. Chemical Physics Letters, 1985, 115, 253-258.	2.6	43
105	Nanopatterning of carbonaceous structures by field-induced carbon dioxide splitting with a force microscope. Applied Physics Letters, 2010, 96, .	3.3	43
106	In Silico Carborane Docking to Proteins and Potential Drug Targets. Journal of Chemical Information and Modeling, 2011, 51, 1882-1896.	5.4	43
107	The electronic structure and vibrational frequencies of the stable C76 isomer of D2 symmetry. Chemical Physics Letters, 1993, 208, 441-445.	2.6	42
108	Dynamics of Thiolate Chains on a Gold Nanoparticle. Small, 2007, 3, 386-388.	10.0	42

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109	An introduction to bubble dynamics. Physical Chemistry Chemical Physics, 2007, 9, 2447.	2.8	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.	3.0	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.	3.0	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.	5.6	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.	10.3	41
115	Blocking the Passage: C₆₀ Geometrically Clogs K⁺ Channels. ACS Nano, 2015, 9, 4827-4834.	14.6	41
116	Absolute intensities of CH-stretching overtones in chloroform and deuterochloroform. Chemical Physics Letters, 1989, 154, 273-279.	2.6	40
117	Dynamics of molecular inversion: An instanton approach. Journal of Chemical Physics, 1995, 102, 7024-7034.	3.0	40
118	Energetics of C20and C22Fullerene and Near-Fullerene Carbon Cages. Journal of Physical Chemistry A, 1997, 101, 8339-8344.	2.5	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.	2.6	40
120	Selective Enhancement of Photoluminescence in Filled Singleâ€Walled Carbon Nanotubes. Advanced Functional Materials, 2012, 22, 3202-3208.	14.9	40
121	Thermodynamics of Binding Between Proteins and Carbon Nanoparticles: The Case of C₆₀@Lysozyme. Journal of Physical Chemistry C, 2015, 119, 28077-28082.	3.1	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.	3.3	39
124	Simple models for hydrophobic hydration. Chemical Society Reviews, 2005, 34, 1012.	38.1	39
125	Application of the Poisson-Nernst-Planck Theory with Space-Dependent Diffusion Coefficients to KcsA. Biophysical Journal, 2006, 91, 3162-3169.	0.5	39
126	Electric Field Effects on Short Fibrils of AÎ² Amyloid Peptides. Journal of Chemical Theory and Computation, 2010, 6, 3516-3526.	5.3	39

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127	Inelastic neutron-scattering study of the intramolecular vibrations of the C70 fullerene. The Journal of Physical Chemistry, 1993, 97, 3641-3643.	2.9	38
128	What Is Adenine Doing in Photolyase?. Journal of Physical Chemistry B, 2010, 114, 4101-4106.	2.6	38
129	Mechanical Interactions in All-Carbon Peapods. Journal of Physical Chemistry B, 2003, 107, 6986-6990.	2.6	37
130	Molecular dynamics study of onset of water gelation around the collagen triple helix. Proteins: Structure, Function and Bioinformatics, 2006, 64, 711-718.	2.6	37
131	Pyridinedicarboxamide Strands Form Double Helices via an Activated Slippage Mechanism. Journal of the American Chemical Society, 2004, 126, 2362-2367.	13.7	36
132	On-the-Fly, Electric-Field-Driven, Coupled Electronâ^'Nuclear Dynamics. Journal of Physical Chemistry A, 2008, 112, 9650-9656.	2.5	36
133	Comparison of synchronous and asynchronous hydrogen transfer mechanisms in free-base porphyrins. Chemical Physics, 1989, 136, 285-295.	1.9	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.	3.0	35
135	Growth of p- and n-Dopable Films from Electrochemically Generated C₆₀ Cations. Journal of the American Chemical Society, 2008, 130, 3788-3796.	13.7	35
136	Splitting CO₂ with Electric Fields: A Computational Investigation. Journal of Physical Chemistry Letters, 2010, 1, 3256-3260.	4.6	34
137	Interaction Model for the Adsorption of Organic Molecules on the Silver Surface. Journal of Physical Chemistry B, 2006, 110, 5595-5601.	2.6	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.	1.9	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.	1.9	33
140	Relative stabilities of C76 isomers. A numerical test of the fullerene isolated-pentagon rule. Chemical Physics Letters, 1994, 226, 219-225.	2.6	33
141	A Density Functional Study of the Vibrations of Three Oligomers of Thiophene. Journal of Physical Chemistry A, 1997, 101, 7283-7291.	2.5	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.	3.3	33
143	Modelling of the Adsorption of C60 on the Au(110) Surface. ChemPhysChem, 2004, 5, 245-248.	2.1	33
144	Proteins as supramolecular hosts for C₆₀: a true solution of C₆₀ in water. Nanoscale, 2018, 10, 9908-9916.	5.6	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.	13.7	32
146	Controlled Hydrogenâ€Bond Breaking in a Rotaxane by Discrete Solvation. Angewandte Chemie - International Edition, 2010, 49, 3896-3900.	13.8	32
147	Calcite Single Crystals as Hosts for Atomicâ€Scale Entrapment and Slow Release of Drugs. Advanced Healthcare Materials, 2015, 4, 1510-1516.	7.6	32
148	The Collapse of Nanobubbles in Water. Journal of the American Chemical Society, 2005, 127, 8020-8021.	13.7	31
149	Unexpected Photophysical Properties of Symmetric Indolylmaleimide Derivatives. Journal of Physical Chemistry A, 2005, 109, 6440-6449.	2.5	31
150	Customizing Properties of Î²-Chitin in Squid Pen (Gladius) by Chemical Treatments. Marine Drugs, 2014, 12, 5979-5992.	4.6	31
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.	2.6	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.	3.0	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.	4.1	30
157	Graphene Oxide Promotes Site-Selective Allylic Alkylation of Thiophenes with Alcohols. Organic Letters, 2018, 20, 3705-3709.	4.6	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.	10.3	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.	3.0	29
160	Vibronic activity in trans,transâ€1,3,5,7 octatetraene: The S0â†'S1 spectrum. Journal of Chemical Physics, 1995, 103, 10492-10501.	3.0	29
161	Competition between Even and Odd Fullerenes:â€‰ C118, C119, and C120. Journal of Physical Chemistry A, 2000, 104, 9625-9629.	2.5	29
162	Shaping of a Conformationally Flexible Molecular Structure for Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 3174-3179.	13.8	29

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163	Cl^(â^) Exchange S_N2 Reaction inside Carbon Nanotubes: Câ€“HÂ·Â·Â·Ï€ and ClÂ·Â·Â·Ï€ Interactions Govern the Course of the Reaction. Journal of Physical Chemistry C, 2014, 118, 5032-5040.	3.1	29
164	Molecules on gold. Chemical Communications, 2010, 46, 667-676.	4.1	28
165	Crossover of two power laws in the anomalous diffusion of a two lipid membrane. Journal of Chemical Physics, 2015, 142, 215102.	3.0	28
166	Resonance Raman spectroscopy of the B1u region of benzene: Analysis in terms of pseudoâ€Jahnâ€“Teller distortion. Journal of Chemical Physics, 1992, 96, 2617-2628.	3.0	27
167	Ab initio scaling of the second hyperpolarizabilities of carbon cages. Journal of Chemical Physics, 1997, 107, 5072-5075.	3.0	27
168	Structural Predictions for the C116Molecule. Journal of Physical Chemistry A, 1998, 102, 6835-6841.	2.5	27
169	Third-Order Susceptibility of Li@C60. Advanced Materials, 1999, 11, 405-408.	21.0	27
170	Multistate Photo-Induced Relaxation and Photoisomerization Ability of Fumaramide Threads: A Computational and Experimental Study. Journal of the American Chemical Society, 2009, 131, 104-117.	13.7	27
171	Correlation between the frequency of the Franck-Condon active Cî—»C ag stretch vibration and the excitation energy of the 1Bu electronic state in polyenes. Chemical Physics Letters, 1987, 141, 138-142.	2.6	26
172	New assignment of the vibrational structure of the V â†•N transition in ethylene-d4. Chemical Physics Letters, 1990, 174, 119-125.	2.6	26
173	Vibrational spectrum and harmonic force field of trimethylphosphine. The Journal of Physical Chemistry, 1990, 94, 4820-4831.	2.9	26
174	Microwave spectrum and ab initio calculations of indazole. Journal of Molecular Spectroscopy, 1992, 155, 1-10.	1.2	26
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