J Fraser Stoddart

List of Publications by Citations

1,273 papers	107,376 citations	158 h-index	277 g-index
1,376 ext. papers	115,962 ext. citations	11.1 avg, IF	8.46 L-index

#	Paper	IF	Citations
1273	Artificial Molecular Machines. *Angewandte Chemie - International Edition*, **2000**, 39, 3348-3391	16.4	2027
1272	Dynamic covalent chemistry. *Angewandte Chemie - International Edition*, **2002**, 41, 898-952	16.4	1903
1271	Self-Assembly in Natural and Unnatural Systems. *Angewandte Chemie International Edition in English* , **1996**, 35, 1154-1196		1647
1270	Mesoporous silica nanoparticles in biomedical applications. *Chemical Society Reviews*, **2012**, 41, 2590-605	58.5	1480
1269	Large-pore apertures in a series of metal-organic frameworks. *Science*, **2012**, 336, 1018-23	33.3	1425
1268	Interlocked and Intertwined Structures and Superstructures. *Chemical Reviews*, **1995**, 95, 2725-2828	68.1	1387
1267	Electronically configurable molecular-based logic gates. *Science*, **1999**, 285, 391-4	33.3	1311
1266	A. *Science*, **2000**, 289, 1172-5	33.3	1195
1265	A 160-kilobit molecular electronic memory patterned at 10(11) bits per square centimetre. *Nature*, **2007**, 445, 414-7	50.4	1078
1264	A chemically and electrochemically switchable molecular shuttle. *Nature*, **1994**, 369, 133-137	50.4	1035
1263	A molecular elevator. *Science*, **2004**, 303, 1845-9	33.3	929
1262	Preparation and Properties of Polymer-Wrapped Single-Walled Carbon Nanotubes We would like to acknowledge the following agencies and foundations for supporting various aspects of this work: the polymer synthesis and spectroscopic characterization of the nanotube-polymer complex was funded by ONR; the chemical preparation and AFM analysis of these materials was supported by the NSF; device fabrication and charge-transport measurements were funded by DARPA and ONR; and the nonlinear microscopy experiments wer. *Angewandte Chemie - International Edition*, **2001**, 40, 1721-1725	16.4	840
1261	Cyclodextrin-Based Catenanes and Rotaxanes. *Chemical Reviews*, **1998**, 98, 1959-1976	68.1	802
1260	Dynamic imine chemistry. *Chemical Society Reviews*, **2012**, 41, 2003-24	58.5	758
1259	Great expectations: can artificial molecular machines deliver on their promise?. *Chemical Society Reviews*, **2012**, 41, 19-30	58.5	723
1258	Switching devices based on interlocked molecules. *Accounts of Chemical Research*, **2001**, 34, 433-44	24.3	689
1257	Molecular borromean rings. *Science*, **2004**, 304, 1308-12	33.3	674

1256	Molecular Machines. *Accounts of Chemical Research*, **1998**, 31, 405-414	24.3	671
1255	Molecular meccano. 1. [2]Rotaxanes and a [2]catenane made to order. *Journal of the American Chemical Society*, **1992**, 114, 193-218	16.4	671
1254	Interlocked Macromolecules. *Chemical Reviews*, **1999**, 99, 1643-1664	68.1	648
1253	Synthesis, structure, and metalation of two new highly porous zirconium metal-organic frameworks. *Inorganic Chemistry*, **2012**, 51, 6443-5	5.1	629
1252	Chemical topology: complex molecular knots, links, and entanglements. *Chemical Reviews*, **2011**, 111, 5434-64	68.1	626
1251	Linear artificial molecular muscles. *Journal of the American Chemical Society*, **2005**, 127, 9745-59	16.4	617
1250	Noncovalent functionalization of single-walled carbon nanotubes. *Accounts of Chemical Research*, **2009**, 42, 1161-71	24.3	589
1249	Synthetic Supramolecular Chemistry. *Accounts of Chemical Research*, **1997**, 30, 393-401	24.3	574
1248	A molecular shuttle. *Journal of the American Chemical Society*, **1991**, 113, 5131-5133	16.4	574
1247	Multivalency and cooperativity in supramolecular chemistry. *Accounts of Chemical Research*, **2005**, 38, 723-32	24.3	567
1246	The chemistry of the mechanical bond. *Chemical Society Reviews*, **2009**, 38, 1802-20	58.5	550
1245	Enzyme-responsive snap-top covered silica nanocontainers. *Journal of the American Chemical Society*, **2008**, 130, 2382-3	16.4	544
1244	DendrimersBranching out from curiosities into new technologies. *Progress in Polymer Science*, **1998**, 23, 1-56	29.6	543
1243	Noninvasive remote-controlled release of drug molecules in vitro using magnetic actuation of mechanized nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 10623-5	16.4	539
1242	Mechanized silica nanoparticles: a new frontier in theranostic nanomedicine. *Accounts of Chemical Research*, **2011**, 44, 903-13	24.3	533
1241	Starched carbon nanotubes. *Angewandte Chemie - International Edition*, **2002**, 41, 2508-12	16.4	529
1240	Covalent Organic Frameworks with High Charge Carrier Mobility. *Chemistry of Materials*, **2011**, 23, 4094-4097	9.0	524
1239	Autonomous in vitro anticancer drug release from mesoporous silica nanoparticles by pH-sensitive nanovalves. *Journal of the American Chemical Society*, **2010**, 132, 12690-7	16.4	511

1238	Photo-driven molecular devices. *Chemical Society Reviews*, **2007**, 36, 77-92	58.5	509
1237	Mechanically Interlocked Molecules (MIMs)-Molecular Shuttles, Switches, and Machines (Nobel Lecture). *Angewandte Chemie - International Edition*, **2017**, 56, 11094-11125	16.4	506
1236	Nanoscale molecular-switch crossbar circuits. *Nanotechnology*, **2003**, 14, 462-468	3.4	476
1235	Logic Operations at the Molecular Level. An XOR Gate Based on a Molecular Machine. *Journal of the American Chemical Society*, **1997**, 119, 2679-2681	16.4	463
1234	Dynamische kovalente Chemie. *Angewandte Chemie*, **2002**, 114, 938-993	3.6	456
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1232	Two-dimensional molecular electronics circuits. *ChemPhysChem*, **2002**, 3, 519-25	3.2	450
1231	Mechanised nanoparticles for drug delivery. *Nanoscale*, **2009**, 1, 16-39	7.7	448
1230	Nanoparticles functionalised with reversible molecular and supramolecular switches. *Chemical Society Reviews*, **2010**, 39, 2203-37	58.5	447
1229	Template-directed synthesis employing reversible imine bond formation. *Chemical Society Reviews*, **2007**, 36, 1705-23	58.5	446
1228	Cyclobis(paraquat-p-phenylene). A Tetracationic Multipurpose Receptor. *Angewandte Chemie International Edition in English*, **1988**, 27, 1547-1550		432
1227	Surveying macrocyclic chemistry: from flexible crown ethers to rigid cyclophanes. *Chemical Society Reviews*, **2017**, 46, 2459-2478	58.5	426
1226	Metal-organic frameworks from edible natural products. *Angewandte Chemie - International Edition*, **2010**, 49, 8630-4	16.4	426
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1224	Chemistry. Whence molecular electronics?. *Science*, **2004**, 306, 2055-6	33.3	424
1223	A reversible molecular valve. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 10029-34	11.5	422
1222	Autonomous artificial nanomotor powered by sunlight. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 1178-83	11.5	418
1221	An operational supramolecular nanovalve. *Journal of the American Chemical Society*, **2004**, 126, 3370-1	16.4	417

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1218	Rotaxane-based molecular muscles. *Accounts of Chemical Research*, **2014**, 47, 2186-99	24.3	393
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1214	Supported Monolayers Containing Preformed Binding Sites. Synthesis and Interfacial Binding Properties of a Thiolated .beta.-Cyclodextrin Derivative. *Journal of the American Chemical Society*, **1995**, 117, 336-343	16.4	375
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1212	Design and optimization of molecular nanovalves based on redox-switchable bistable rotaxanes. *Journal of the American Chemical Society*, **2007**, 129, 626-34	16.4	367
1211	INTERACTIONS IN SELF-ASSEMBLY. *Journal of Physical Organic Chemistry*, **1997**, 10, 254-272	2.1	344
1210	Dialkylammonium Ion/Crown Ether Complexes: The Forerunners of a New Family of Interlocked Molecules. *Angewandte Chemie International Edition in English*, **1995**, 34, 1865-1869		338
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