Duncan R Stewart

List of Publications by Citations

32 papers	16,579 citations	25 h-index	33 g-index
33 ext. papers	19,119 ext. citations	10.5 avg, IF	6.68 L-index

#	Paper	IF	Citations
32	The missing memristor found. *Nature*, **2008**, 453, 80-3	50.4	7042
31	Memristive devices for computing. *Nature Nanotechnology*, **2013**, 8, 13-24	28.7	2406
30	Memristive switching mechanism for metal/oxide/metal nanodevices. *Nature Nanotechnology*, **2008**, 3, 429-33	28.7	2239
29	Memristive switches enable stateful logic operations via material implication. *Nature*, **2010**, 464, 873-6	50.4	1405
28	The mechanism of electroforming of metal oxide memristive switches. *Nanotechnology*, **2009**, 20, 215203	3.4	591
27	Switching dynamics in titanium dioxide memristive devices. *Journal of Applied Physics*, **2009**, 106, 074508	2.5	506
26	Nanoscale molecular-switch crossbar circuits. *Nanotechnology*, **2003**, 14, 462-468	3.4	476
25	Nanoscale molecular-switch devices fabricated by imprint lithography. *Applied Physics Letters*, **2003**, 82, 1610-1612	3.4	223
24	A hybrid nanomemristor/transistor logic circuit capable of self-programming. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 1699-703	11.5	213
23	Direct Observation of Nanoscale Switching Centers in Metal/Molecule/Metal Structures. *Nano Letters*, **2004**, 4, 569-572	11.5	209
22	A Family of Electronically Reconfigurable Nanodevices. *Advanced Materials*, **2009**, 21, 3754-3758	24	195
21	Writing to and reading from a nano-scale crossbar memory based on memristors. *Nanotechnology*, **2009**, 20, 425204	3.4	183
20	The crossbar latch: Logic value storage, restoration, and inversion in crossbar circuits. *Journal of Applied Physics*, **2005**, 97, 034301	2.5	127
19	Diffusion of adhesion layer metals controls nanoscale memristive switching. *Advanced Materials*, **2010**, 22, 4034-8	24	95
18	Tracing electronic pathways in molecules by using inelastic tunneling spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14255-9	11.5	88
17	Electrical transport and thermometry of electroformed titanium dioxide memristive switches. *Journal of Applied Physics*, **2009**, 106, 124504	2.5	81
16	Radiation Hardness of ${rm TiO}_{2}$ Memristive Junctions. *IEEE Transactions on Nuclear Science*, **2010**, 57, 1640-1643	1.7	58

List of Publications

15	Study of SERS chemical enhancement factors using buffer layer assisted growth of metal nanoparticles on self-assembled monolayers. *Journal of the American Chemical Society*, **2009**, 131, 6310-1	16.4	56
14	Structural and chemical characterization of TiO2 memristive devices by spatially-resolved NEXAFS. *Nanotechnology*, **2009**, 20, 485701	3.4	52
13	Ultra-flat platinum surfaces from template-stripping of sputter deposited films. *Surface Science*, **2003**, 546, 87-96	1.8	49
12	Surface properties of platinum thin films as a function of plasma treatment conditions. *Surface Science*, **2003**, 529, 410-418	1.8	46
11	Molecular transport junctions: asymmetry in inelastic tunneling processes. *Journal of Physical Chemistry B*, **2005**, 109, 8519-22	3.4	42
10	Oxide and carbide formation at titanium/organic monolayer interfaces. *Journal of the American Chemical Society*, **2008**, 130, 4041-7	16.4	30
9	Internal Structure of a Molecular Junction Device: Chemical Reduction of PtO2 by Ti Evaporation onto an Interceding Organic Monolayer. *Journal of Physical Chemistry C*, **2007**, 111, 16-20	3.8	30
8	High integrity metal/organic device interfaces via low temperature buffer layer assisted metal atom nucleation. *Applied Physics Letters*, **2010**, 96, 173109	3.4	16
7	Quantum conductance oscillations in metal/molecule/metal switches at room temperature. *Physical Review Letters*, **2008**, 101, 016802	7.4	16
6	Scanning tunneling microscopy of template-stripped Au surfaces and highly ordered self-assembled monolayers. *Langmuir*, **2008**, 24, 5984-7	4	16
5	. *IEEE Nanotechnology Magazine*, **2007**, 6, 280-290	2.6	11
4	In-situ infrared spectroscopy of buried organic monolayers: influence of the substrate on titanium reactivity with a Langmuir-Blodgett film. *Langmuir*, **2007**, 23, 7620-5	4	9
3	Metallic nanocrystals near ultrasmooth metallic films for surface-enhanced Raman scattering application. *Nanotechnology*, **2008**, 19, 415702	3.4	8
2	Origin of inverse tunneling magnetoresistance in a symmetric junction revealed by delaminating the buried electronic interface. *Applied Physics Letters*, **2009**, 95, 233117	3.4	4
1	A Novel Non-destructive Interfacing Technique for Molecular Scale Switching Junctions. *Materials Research Society Symposia Proceedings*, **2006**, 938, 1		