

Duncan R Stewart

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Memristive devices for computing. <i>Nature Nanotechnology</i> , 2013 , 8, 13-24	28.7	2406
31	Memristive switches enable stateful logic operations via material implication. <i>Nature</i> , 2010 , 464, 873-650.4	50.4	1405
30	Radiation Hardness of TiO_2 Memristive Junctions. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1640-1643	1.7	58
29	High integrity metal/organic device interfaces via low temperature buffer layer assisted metal atom nucleation. <i>Applied Physics Letters</i> , 2010 , 96, 173109	3.4	16
28	Diffusion of adhesion layer metals controls nanoscale memristive switching. <i>Advanced Materials</i> , 2010 , 22, 4034-8	24	95
27	Origin of inverse tunneling magnetoresistance in a symmetric junction revealed by delaminating the buried electronic interface. <i>Applied Physics Letters</i> , 2009 , 95, 233117	3.4	4
26	Electrical transport and thermometry of electroformed titanium dioxide memristive switches. <i>Journal of Applied Physics</i> , 2009 , 106, 124504	2.5	81
25	A hybrid nanomemristor/transistor logic circuit capable of self-programming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1699-703	11.5	213
24	Structural and chemical characterization of TiO_2 memristive devices by spatially-resolved NEXAFS. <i>Nanotechnology</i> , 2009 , 20, 485701	3.4	52
23	A Family of Electronically Reconfigurable Nanodevices. <i>Advanced Materials</i> , 2009 , 21, 3754-3758	24	195
22	The mechanism of electroforming of metal oxide memristive switches. <i>Nanotechnology</i> , 2009 , 20, 215203.4	3.4	591
21	Study of SERS chemical enhancement factors using buffer layer assisted growth of metal nanoparticles on self-assembled monolayers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6310-16.4	16.4	56
20	Switching dynamics in titanium dioxide memristive devices. <i>Journal of Applied Physics</i> , 2009 , 106, 074508.5	8.5	506
19	Writing to and reading from a nano-scale crossbar memory based on memristors. <i>Nanotechnology</i> , 2009 , 20, 425204	3.4	183
18	The missing memristor found. <i>Nature</i> , 2008 , 453, 80-3	50.4	7042
17	Memristive switching mechanism for metal/oxide/metal nanodevices. <i>Nature Nanotechnology</i> , 2008 , 3, 429-33	28.7	2239
16	Oxide and carbide formation at titanium/organic monolayer interfaces. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4041-7	16.4	30

15	Quantum conductance oscillations in metal/molecule/metal switches at room temperature. <i>Physical Review Letters</i> , 2008 , 101, 016802	7.4	16
14	Scanning tunneling microscopy of template-stripped Au surfaces and highly ordered self-assembled monolayers. <i>Langmuir</i> , 2008 , 24, 5984-7	4	16
13	Metallic nanocrystals near ultrasmooth metallic films for surface-enhanced Raman scattering application. <i>Nanotechnology</i> , 2008 , 19, 415702	3.4	8
12	. <i>IEEE Nanotechnology Magazine</i> , 2007 , 6, 280-290	2.6	11
11	Internal Structure of a Molecular Junction Device: Chemical Reduction of PtO ₂ by Ti Evaporation onto an Interceding Organic Monolayer. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16-20	3.8	30
10	In-situ infrared spectroscopy of buried organic monolayers: influence of the substrate on titanium reactivity with a Langmuir-Blodgett film. <i>Langmuir</i> , 2007 , 23, 7620-5	4	9
9	Tracing electronic pathways in molecules by using inelastic tunneling spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14255-9	11.5	88
8	A Novel Non-destructive Interfacing Technique for Molecular Scale Switching Junctions. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 938, 1		
7	The crossbar latch: Logic value storage, restoration, and inversion in crossbar circuits. <i>Journal of Applied Physics</i> , 2005 , 97, 034301	2.5	127
6	Molecular transport junctions: asymmetry in inelastic tunneling processes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8519-22	3.4	42
5	Direct Observation of Nanoscale Switching Centers in Metal/Molecule/Metal Structures. <i>Nano Letters</i> , 2004 , 4, 569-572	11.5	209
4	Ultra-flat platinum surfaces from template-stripping of sputter deposited films. <i>Surface Science</i> , 2003 , 546, 87-96	1.8	49
3	Surface properties of platinum thin films as a function of plasma treatment conditions. <i>Surface Science</i> , 2003 , 529, 410-418	1.8	46
2	Nanoscale molecular-switch crossbar circuits. <i>Nanotechnology</i> , 2003 , 14, 462-468	3.4	476
1	Nanoscale molecular-switch devices fabricated by imprint lithography. <i>Applied Physics Letters</i> , 2003 , 82, 1610-1612	3.4	223