Donald Fitzmaurice

List of Publications by Year
in descending order

90 papers	7,125 citations	61857 43 h-index	54797 84 g-index
97 all docs	97 docs citations	97 times ranked	6592 citing authors

#	Article	IF	Citations
1	Electron Transfer and Switching in Rigid [2]Rotaxanes Adsorbed on TiO₂ Nanoparticles. ChemPhysChem, 2012, 13, 797-810.	1.0	10
2	Introducing Negative Charges into Bisâ€pâ€phenylene Crown Ethers: A Study of Bipyridiniumâ€Based [2]Pseudorotaxanes and [2]Rotaxanes. Chemistry - A European Journal, 2008, 14, 1095-1106.	1.7	60
3	Quantitative Conformational Study of Redoxâ€Active [2]Rotaxanes, Part 1: Methodology and Application to a Model [2]Rotaxane. Chemistry - A European Journal, 2008, 14, 1107-1116.	1.7	16
4	Quantitative Conformational Study of Redoxâ€Active [2]Rotaxanes, Part 2: Switching in Flexible and Rigid Bistable [2]Rotaxanes. Chemistry - A European Journal, 2008, 14, 1117-1128.	1.7	24
5	Diameter-dependent evolution of failure current density of highly conducting DNA-templated gold nanowires. Nanotechnology, 2007, 18, 125205.	1.3	25
6	A Flexible Method for the Fabrication of Gold Nanostructures Using Oligonucleotide Derivatives. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1605-1609.	0.4	1
7	A Tripodal [2]Rotaxane on the Surface of Gold. Langmuir, 2007, 23, 12147-12153.	1.6	39
8	Preparation and Thermally Promoted Ripening of Water-Soluble Gold Nanoparticles Stabilized by Weakly Physisorbed Ligands. Langmuir, 2007, 23, 10262-10271.	1.6	27
9	Analysis of Scattering of Conduction Electrons in Highly Conducting Bamboolike DNA-Templated Gold Nanowires. Chemistry of Materials, 2007, 19, 1543-1545.	3.2	28
10	Evaluation of interactions between functionalised multi-walled carbon nanotubes and ligand-stabilised gold nanoparticles using surface element integration. Journal of Computer-Aided Materials Design, 2007, 14, 151-165.	0.7	9
11	DNA-templated assembly of nanoscale architectures for next-generation electronic devices. Faraday Discussions, 2006, 131, 155-165.	1.6	15
12	DNA-Templated Assembly of Conducting Gold Nanowires. Materials Research Society Symposia Proceedings, 2006, 921, 1.	0.1	0
13	DNA-templated assembly of nanoscale wires and switches (Invited Paper). , 2005, , .		0
14	DNA-templated assembly of nanoscale architectures. Nanotechnology, 2005, 16, 1905-1911.	1.3	14
15	DNA-templated Assembly of Nanowires and Protein-functionalized Nanocontacts. Supramolecular Chemistry, 2005, 17, 147-153.	1.5	2
16	DNA-Templated Assembly of Conducting Gold Nanowires between Gold Electrodes on a Silicon Oxide Substrate. Chemistry of Materials, 2005, 17, 1959-1964.	3.2	99
17	The Oxidation-State Dependent Structural Conformation and Supramolecular Function of a Redox-Active [2]Rotaxane in Solution. Journal of the American Chemical Society, 2005, 127, 8067-8076.	6.6	30
18	An Experimental and Theoretical Study of the Self-Assembly of Gold Nanoparticles at the Surface of Functionalized Multiwalled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 16310-16325.	1.2	53

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19	Light-Patterned and Recognition-Directed Adsorption of Nanoparticles at a Silicon Wafer Substrate. Nano Letters, 2004, 4, 573-575.	4.5	21
20	Templated Assembly of Semiconductor and Insulator Nanoparticles at the Surface of Covalently Modified Multiwalled Carbon Nanotubes. Chemistry of Materials, 2004, 16, 3780-3790.	3.2	83
21	Carbon-Nanotube-Templated and Pseudorotaxane-Formation-Driven Gold Nanowire Self-Assembly. Chemistry of Materials, 2004, 16, 2174-2179.	3.2	62
22	Gold Nanoparticle Patterning of Silicon Wafers Using Chemical e-Beam Lithography. Langmuir, 2004, 20, 3766-3768.	1.6	203
23	A Novel Example of X-Ray-Radiation-Induced Chemical Reduction of an Aromatic Nitro-Group-Containing Thin Film on SiO2 to an Aromatic Amine Film. ChemPhysChem, 2003, 4, 884-889.	1.0	82
24	Synthesis of Branched Oligonucleotides as Templates for the Assembly of Nanomaterials. Helvetica Chimica Acta, 2003, 86, 2814-2826.	1.0	22
25	Nanostructures from nanoparticles. Journal of Physics Condensed Matter, 2003, 15, S3047-S3063.	0.7	21
26	DNA-Controlled Assembly of Protein-Modified Gold Nanocrystals. Journal of Physical Chemistry B, 2003, 107, 470-477.	1.2	87
27	Assembly of an Electronically Switchable Rotaxane on the Surface of a Titanium Dioxide Nanoparticle. Journal of the American Chemical Society, 2003, 125, 15490-15498.	6.6	78
28	Templated Nanoparticle Assembly on the Surface of a Patterned Nanosphere. Nano Letters, 2003, 3, 51-53.	4.5	52
29	Self-Assembly of a Tripodal Pseudorotaxane on the Surface of a Titanium Dioxide Nanoparticle. Journal of the American Chemical Society, 2003, 125, 5152-5160.	6.6	52
30	Imaging the DNA and nanoparticle components of a self-assembled nanoscale architecture. Nanotechnology, 2003, 14, 447-452.	1.3	22
31	Synthesis of tripodal [2]rotaxanes: high concentration principleElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b209836a/. Chemical Communications, 2003, , 282-283.	2.2	21
32	Noncovalent Self-Assembly of Silver and Gold Nanocrystal Aggregates in Solution. Chemistry of Materials, 2002, 14, 3643-3650.	3.2	47
33	Programmed Assembly of Binary Nanostructures in Solution. Journal of Physical Chemistry B, 2002, 106, 5371-5377.	1.2	11
34	Studies of Dodecanethiol Capped Ag and Au Nanoparticles Using Synchrotron Radiation Based Photoelectron Spectroscopy. Langmuir, 2002, 18, 10372-10378.	1.6	6
35	Self-assembly of alkane capped silver and silica nanoparticles. Journal of Materials Chemistry, 2002, 12, 2762-2768.	6.7	15
36	Title is missing!. Helvetica Chimica Acta, 2002, 85, 2594-2607.	1.0	14

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37	Dialkyl Sulfides:â€‰ Novel Passivating Agents for Gold Nanoparticles. Langmuir, 2002, 18, 1791-1795.	1.6	75
38	Effects of Ligandâ^'Receptor Geometry and Stoichiometry on Protein-Induced Aggregation of Biotin-Modified Colloidal Gold. Journal of Physical Chemistry B, 2001, 105, 2222-2226.	1.2	55
39	Time-Resolved Optical Spectroscopy of Heterosupramolecular Assemblies Based on Nanostructured TiO2Films Modified by Chemisorption of Covalently Linked Ruthenium and Viologen Complex Components. Journal of Physical Chemistry B, 2001, 105, 2998-3004.	1.2	32
40	Elimination of Cross-Talk and Modulation of Function in an Organized Heterosupramolecular Assembly. Chemistry - A European Journal, 2001, 7, 1309-1320.	1.7	7
41	Photoelectrochromic heterosupramolecular assemblies. Journal of Materials Chemistry, 2000, 10, 685-692.	6.7	39
42	Characterization of Protein Aggregated Gold Nanocrystals. Journal of Physical Chemistry B, 2000, 104, 4765-4776.	1.2	54
43	Heterosupramolecular Chemistry:Â Recognition Initiated and Inhibited Silver Nanocrystal Aggregation by Pseudorotaxane Assembly. Journal of the American Chemical Society, 2000, 122, 6252-6257.	6.6	82
44	Noncovalent Self-Assembly of Silver Nanocrystal Aggregates in Solution. Journal of Physical Chemistry B, 2000, 104, 6164-6173.	1.2	42
45	Ultrafast Electrochromic Windows Based on Redox-Chromophore Modified Nanostructured Semiconducting and Conducting Films. Journal of Physical Chemistry B, 2000, 104, 11449-11459.	1.2	281
46	FUNCTION MODULATION IN A HETEROSUPRAMOLECULAR ASSEMBLY. , 2000, , .		0
47	Small-angle x-ray-scattering study of silver-nanocrystal disorder-order phase transitions. Physical Review B, 1999, 59, 14191-14201.	1.1	174
48	Coloured electrochromic windows based on nanostructured TiO2 films modified by adsorbed redox chromophores. Solar Energy Materials and Solar Cells, 1999, 57, 107-125.	3.0	190
49	Heterosupramolecular chemistry: toward the factory of the future. Coordination Chemistry Reviews, 1999, 185-186, 277-295.	9.5	18
50	Electron Accumulation in Nanostructured TiO2(Anatase) Electrodes. Journal of Physical Chemistry B, 1999, 103, 7860-7868.	1.2	189
51	Heterosupramolecular Chemistry: Programmed Pseudorotaxane Assembly at the Surface of a Nanocrystal. Angewandte Chemie - International Edition, 1999, 38, 1147-1150.	7.2	96
52	Spectroelectrochemical Investigation of Surface States in Nanostructured TiO2 Electrodes. Journal of Physical Chemistry B, 1999, 103, 2228-2231.	1.2	268
53	Heterosupramolecular optical writeâ€“readâ€“erase device. Journal of Materials Chemistry, 1999, 9, 2297-2299.	6.7	47
54	Spectroelectrochemistry of Highly Doped Nanostructured Tin Dioxide Electrodes. Journal of Physical Chemistry B, 1999, 103, 3093-3098.	1.2	94

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55	Potentiostatic Modulation of the Lifetime of Light-Induced Charge Separation in a Heterosupermolecule. Journal of Physical Chemistry B, 1999, 103, 8067-8079.	1.2	66
56	Programming a Gold Nanocrystal to Recognize and Selectively Bind a Molecular Substrate in Solution. Journal of Physical Chemistry B, 1999, 103, 1821-1825.	1.2	36
57	â€œMelting Transitionâ€•of a Quantum Dot Solid:â€‰ Collective Interactions Influence the Thermally-Induced Orderâ^'Disorder Transition of a Silver Nanocrystal Superlattice. Journal of the American Chemical Society, 1999, 121, 3533-3534.	6.6	41
58	Heterosupramolecular Chemistry: Synthetic strategies for the covalent and noncovalent assembly and organization of nanocrystals and molecules. Helvetica Chimica Acta, 1998, 81, 902-915.	1.0	16
59	Self-Assembly of Silver Nanocrystals into Two-Dimensional Nanowire Arrays. Advanced Materials, 1998, 10, 661-665.	11.1	290
60	Electrochromic windows based on viologen-modified nanostructured TiO2 films. Solar Energy Materials and Solar Cells, 1998, 55, 215-223.	3.0	156
61	Assembly and Self-Organization of Silver Nanocrystal Superlattices:â€‰ Ordered â€œSoft Spheresâ€• Journal of Physical Chemistry B, 1998, 102, 8379-8388.	1.2	461
62	A transparent nanostructured semiconductor membrane modified by an adsorbed electron donor and electron acceptor. Journal of Materials Chemistry, 1998, 8, 105-110.	6.7	10
63	Time-Resolved Small-Angle X-ray Scattering Studies of Nanocrystal Superlattice Self-Assembly. Journal of the American Chemical Society, 1998, 120, 2969-2970.	6.6	63
64	Potentiostatic Modulation of the Direction of Light-Induced Electron Transfer in a Heterosupermolecule. Journal of Physical Chemistry B, 1998, 102, 10272-10278.	1.2	26
65	Heterosupramolecular chemistry. Journal of Materials Chemistry, 1998, 8, 2157-2164.	6.7	20
66	Condensation of Ordered Nanocrystal Thin Films. Physical Review Letters, 1998, 80, 3531-3534.	2.9	135
67	Self-Assembly of Silver Nanocrystals into Two-Dimensional Nanowire Arrays. , 1998, 10, 661.		4
68	Structures of Monolayers of Long-Chain Aliphatic Acids Deposited on Metal, Conducting Glass, and Nanocrystalline Semiconductor Substrates Using Langmuirâ^'Blodgett Techniques. Langmuir, 1997, 13, 6769-6779.	1.6	19
69	Visible-Light-Induced and Long-Lived Charge Separation in a Transparent Nanostructured Semiconductor Membrane Modified by an Adsorbed Electron Donor and Electron Acceptor. Journal of Physical Chemistry B, 1997, 101, 10791-10800.	1.2	34
70	Heterosupramolecular Chemistry:Â Self-Assembly of an Electron Donor (TiO2Nanocrystallite)â^'Acceptor (Viologen) Complexâ€. Chemistry of Materials, 1997, 9, 1765-1772.	3.2	38
71	Self-Assembly of Monolayers of Semiconductor Nanocrystallites. Chemistry of Materials, 1997, 9, 2969-2982.	3.2	60
72	Self-Assembly of Heterosupermolecules. Chemistry of Materials, 1997, 9, 624-631.	3.2	30

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73	Self-Assembly and Subsequent Self-Organization of a Semiconductor Nanocrystallite Superlattice. Angewandte Chemie International Edition in English, 1997, 36, 848-851.	4.4	61
74	Selbstorganisation von Nanokristalliten zu einer Ãœberstruktur mit Halbleitereigenschaften. Angewandte Chemie, 1997, 109, 887-890.	1.6	8
75	Heterosupramolecular Chemistry: Selfâ€Assembly of an Electron Donor (TiO₂) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.7	38
76	Spectroscopic Determination of Electron and Hole Effective Masses in a Nanocrystalline Semiconductor Film. The Journal of Physical Chemistry, 1996, 100, 1027-1035.	2.9	331
77	Heterosupramolecular Chemistry: An Approach to Modulating Function in Molecular Devices. Chemistry - A European Journal, 1996, 2, 420-428.	1.7	37
78	Preparation and Characterization of Transparent Nanocrystalline TiO2 Films Possessing Well-Defined Morphologies. The Journal of Physical Chemistry, 1996, 100, 10732-10738.	2.9	41
79	Preparation, Characterization, and Potential-Dependent Optical Absorption Spectroscopy of Unsupported Large-Area Transparent Nanocrystalline TiO2 Membranes. The Journal of Physical Chemistry, 1995, 99, 8954-8958.	2.9	23
80	Heterosupramolecular chemistry and modulation of function in molecular devices. Journal of Chemical Sciences, 1995, 107, 673-689.	0.7	0
81	Spectroscopic determination of flatband potentials for polycrystalline TiO2 electrodes in mixed solvent systems. The Journal of Physical Chemistry, 1994, 98, 6195-6200.	2.9	199
82	Visible Light Sensitization by cis-Bis(thiocyanato)bis(2,2'-bipyridyl-4,4'-dicarboxylato)ruthenium(II) of a Transparent Nanocrystalline ZnO Film Prepared by Sol-Gel Techniques. Chemistry of Materials, 1994, 6, 686-691.	3.2	202
83	Heterodyads: Electron Transfer at a Semiconductor Electrode-Liquid Electrolyte Interface Modified by an Adsorbed Spacer-Acceptor Complex. Journal of the American Chemical Society, 1994, 116, 2629-2630.	6.6	80
84	Heterosupramolecular chemistry: long-lived charge trapping by vectorial electron flow in a heterotriad. Journal of the American Chemical Society, 1994, 116, 5017-5018.	6.6	63
85	Spectroscopic determination of flatband potentials for polycrystalline titania electrodes in nonaqueous solvents. The Journal of Physical Chemistry, 1993, 97, 1426-1430.	2.9	394
86	Effect of surface chelation on the energy of an intraband surface state of a nanocrystalline titania film. The Journal of Physical Chemistry, 1993, 97, 6951-6954.	2.9	159
87	Preparation and spectroscopic characterization of highly confined nanocrystallites of gallium arsenide in decane. The Journal of Physical Chemistry, 1993, 97, 10750-10755.	2.9	52
88	Spectroscopy of conduction band electrons in transparent metal oxide semiconductor films: optical determination of the flatband potential of colloidal titanium dioxide films. The Journal of Physical Chemistry, 1992, 96, 5983-5986.	2.9	525
89	Optical electrochemistry. 2. Real-time spectroscopy of conduction band electrons in a metal oxide semiconductor electrode. The Journal of Physical Chemistry, 1991, 95, 10525-10528.	2.9	95
90	Optical electrochemistry I: steady-state spectroscopy of conduction-band electrons in a metal oxide semiconductor electrode. Chemical Physics Letters, 1991, 183, 89-93.	1.2	208