

# Gareth Redmond

## List of Publications by Year in descending order

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61  
papers

2,487  
citations

236612

25  
h-index

197535

49  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3838  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microcavity effects and optically pumped lasing in single conjugated polymer nanowires. <i>Nature Nanotechnology</i> , 2007, 2, 180-184.	15.6	379
2	Oxidative stress and toxicity of gold nanoparticles in <i>Mytilus edulis</i> . <i>Aquatic Toxicology</i> , 2010, 100, 178-186.	1.9	264
3	Fabrication of Nanopore Array Electrodes by Focused Ion Beam Milling. <i>Analytical Chemistry</i> , 2007, 79, 3048-3055.	3.2	192
4	Effect of surface chelation on the energy of an intraband surface state of a nanocrystalline titania film. <i>The Journal of Physical Chemistry</i> , 1993, 97, 6951-6954.	2.9	159
5	Melt-Processed Polyfluorene Nanowires as Active Waveguides. <i>Small</i> , 2007, 3, 1178-1183.	5.2	133
6	DNA-Templated Assembly of Conducting Gold Nanowires between Gold Electrodes on a Silicon Oxide Substrate. <i>Chemistry of Materials</i> , 2005, 17, 1959-1964.	3.2	99
7	Nanoscale Piezoelectric Properties of Self-Assembled Fmoc-FF Peptide Fibrous Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12702-12707.	4.0	69
8	Biomimetic Nanostructure Fabrication: A Nonlithographic Lateral Patterning and Self-Assembly of Functional Bacterial S-Layers at Silicon Supports. <i>Nano Letters</i> , 2003, 3, 315-319.	4.5	60
9	A potential and ion switched molecular photonic logic gate. <i>Chemical Communications</i> , 2005, , 3918.	2.2	58
10	Exposure of the blue mussel, <i>Mytilus edulis</i> , to gold nanoparticles and the pro-oxidant menadione. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 151, 167-174.	1.3	57
11	Alignment and Dynamic Manipulation of Conjugated Polymer Nanowires in Nematic Liquid Crystal Hosts. <i>Advanced Materials</i> , 2008, 20, 2497-2502.	11.1	54
12	Insulator-to-Metal Transition in Nanocrystal Assemblies Driven by in Situ Mild Thermal Annealing. <i>Nano Letters</i> , 2004, 4, 1289-1293.	4.5	52
13	Narrow bandwidth red electroluminescence from solution-processed lanthanide-doped polymer thin films. <i>Thin Solid Films</i> , 2005, 491, 264-269.	0.8	49
14	Highly Anisotropic Luminescence from Poly(9,9-dioctylfluorene) Nanowires Doped with Orientationally Ordered I <sup>2</sup> -Phase Polymer Chains. <i>Chemistry of Materials</i> , 2008, 20, 6501-6508.	3.2	43
15	Template Synthesis of Highly Oriented Polyfluorene Nanotube Arrays. <i>Chemistry of Materials</i> , 2008, 20, 996-1003.	3.2	42
16	Formation and Characterization of DNA Microarrays at Silicon Nitride Substrates. <i>Langmuir</i> , 2005, 21, 395-402.	1.6	40
17	Heterosupramolecular Chemistry: An Approach to Modulating Function in Molecular Devices. <i>Chemistry - A European Journal</i> , 1996, 2, 420-428.	1.7	37
18	Synthesis of Pentacene Nanotubes by Melt-Assisted Template Wetting. <i>Chemistry of Materials</i> , 2007, 19, 338-340.	3.2	35

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19	Synthesis of a neodymium-quinolate complex for near-infrared electroluminescence applications. <i>Thin Solid Films</i> , 2008, 516, 5098-5102.	0.8	33
20	Field Configured Assembly: Programmed Manipulation and Self-assembly at the Mesoscale. <i>Nano Letters</i> , 2004, 4, 761-765.	4.5	32
21	Manipulating the Charging Energy of Nanocrystal Arrays. <i>Small</i> , 2005, 1, 613-618.	5.2	32
22	Oriented Growth of Single-Crystalline Bi <sub>2</sub> S <sub>3</sub> Nanowire Arrays. <i>ChemPhysChem</i> , 2007, 8, 235-240.	1.0	32
23	Near-Field Optical Addressing of Luminescent Photoswitchable Supramolecular Systems Embedded in Inert Polymer Matrices. <i>Nano Letters</i> , 2004, 4, 835-839.	4.5	31
24	Polythiophene mesowires: synthesis by template wetting and local electrical characterisation of single wires. <i>Journal of Materials Chemistry</i> , 2006, 16, 3237.	6.7	31
25	Template Assembly of Spin Crossover One-Dimensional Nanowires. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11995-11999.	7.2	28
26	3D-Printed Peptide-Hydrogel Nanoparticle Composites for Surface-Enhanced Raman Spectroscopy Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 5029-5034.	2.4	26
27	Analysis of charge transport in arrays of 28 kDa nanocrystal gold molecules. <i>Journal of Materials Chemistry</i> , 2005, 15, 4403.	6.7	25
28	A sustained release formulation of novel quininib-hyaluronan microneedles inhibits angiogenesis and retinal vascular permeability in vivo. <i>Journal of Controlled Release</i> , 2016, 233, 198-207.	4.8	25
29	Labeling the Structural Integrity of Nanoparticles for Advanced In Situ Tracking in Bionanotechnology. <i>ACS Nano</i> , 2016, 10, 4660-4671.	7.3	25
30	Charge Transport in Weakly Coupled CoPt <sub>3</sub> Nanocrystal Assemblies. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9564-9567.	1.2	23
31	Microporous silicon and biosensor development: structural analysis, electrical characterisation and biocapacity evaluation. <i>Biosensors and Bioelectronics</i> , 2005, 21, 282-292.	5.3	23
32	Luminescent Conjugated Polymer Nanowire Y-junctions with On-Branch Molecular Anisotropy. <i>Advanced Materials</i> , 2009, 21, 1160-1165.	11.1	23
33	Triazolylidene Metal Complexes Tagged with a Bodipy Chromophore: Synthesis and Monitoring of Ligand Exchange Reactions. <i>Organometallics</i> , 2017, 36, 1469-1478.	1.1	20
34	Templated microwave synthesis of luminescent carbon nanofibers. <i>RSC Advances</i> , 2018, 8, 12907-12917.	1.7	18
35	Hybridization and Melting Behavior of Peptide Nucleic Acid (PNA) Oligonucleotide Chimeras Conjugated to Gold Nanoparticles. <i>Helvetica Chimica Acta</i> , 2004, 87, 2727-2734.	1.0	16
36	Sub-picomole colorimetric single nucleotide polymorphism discrimination using oligonucleotide-nanoparticle conjugates. <i>Analyst</i> , The, 2004, 129, 970-974.	1.7	16

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37	Polyfluorene nanowire active waveguides as sub-wavelength polarized light sources. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2468-2473.	1.3	16
38	Encapsulation of MEH-PPV:PCBM Hybrids in the Cores of Block Copolymer Micellar Assemblies: Photoinduced Electron Transfer in a Nanoscale Donor-acceptor System. <i>Langmuir</i> , 2016, 32, 329-337.	1.6	16
39	Polyfluorene nanowires with pronounced axial texturing prepared by melt-assisted template wetting. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 147, 298-302.	1.7	15
40	Reversible modulation of photoluminescence from conjugated polymer nanotubes by incorporation of photochromic spirooxazine molecules. <i>Chemical Communications</i> , 2011, 47, 9170.	2.2	15
41	Title is missing!. <i>Helvetica Chimica Acta</i> , 2002, 85, 2594-2607.	1.0	14
42	Multi-colour emission from dye doped polymeric nanotubes by host-guest energy transfer. <i>Journal of Materials Chemistry</i> , 2011, 21, 15995.	6.7	14
43	Surfactant-free, low band gap conjugated polymer nanoparticles and polymer:fullerene nanohybrids with potential for organic photovoltaics. <i>Nanotechnology</i> , 2016, 27, 245601.	1.3	13
44	Photophysical Probing of Dye Microenvironment, Diffusion Dynamics, and Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6900-6911.	1.5	13
45	Hysteresis of Charge Tunneling in Assemblies of Carboxylic Acid-Modified Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8718-8722.	1.2	12
46	Luminescent Optical Detection of Volatile Electron Deficient Compounds by Conjugated Polymer Nanofibers. <i>Analytical Chemistry</i> , 2015, 87, 4421-4428.	3.2	12
47	Artificial atom solids based on metal nanocrystals: Formation and electrical properties. <i>Progress in Solid State Chemistry</i> , 2005, 33, 263-277.	3.9	9
48	Highly Polarized Luminescence from $\beta$ -Phase-Rich Poly(9,9-dioctylfluorene) Nanofibers. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5437-5442.	1.1	9
49	Optical detection and discrimination of cystic fibrosis-related genetic mutations using oligonucleotide-nanoparticle conjugates. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1122-1129.	1.9	8
50	Synthesis, optical properties and alignment of poly(9,9-dioctylfluorene) nanofibers. <i>Nanotechnology</i> , 2014, 25, 435607.	1.3	7
51	Template-Assisted Synthesis of Luminescent Carbon Nanofibers from Beverage-Related Precursors by Microwave Heating. <i>Molecules</i> , 2019, 24, 1455.	1.7	7
52	Detection of nitroaromatic compounds based on photoluminescent side chain polymers. , 2005, 5990, 195.		5
53	Making Electrical Nanocontacts to Nanocrystal Assemblies: Mapping of Room-Temperature Coulomb-Blockade Thresholds in Arrays of 28-kDa Gold Nanocrystals. <i>Small</i> , 2006, 2, 261-266.	5.2	3
54	Factors influencing the electronic properties of arrays of ligand-stabilized gold nanocrystals. <i>Surface Science</i> , 2007, 601, 2740-2745.	0.8	3

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55	Nano-€lightsticks: polymer nanotubes with embedded chemiluminescent dopants. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2240-2244.	0.8	3
56	Colour-Coded Photoluminescence and Chemiluminescence of Fluorene Polymer-Based Organic Nanowires in Random and Organised Arrangements. Journal of Nanoscience and Nanotechnology, 2013, 13, 5194-5202.	0.9	3
57	Polymer materials science and processing technologies for planar lightwave circuit manufacture. , 2005, 5731, 39.		1
58	Polymer Nanoparticles Microenvironment: Using Photophysical Probes to Investigate Internal Porosity and Polarity. Journal of Physical Chemistry C, 2018, 122, 28977-28989.	1.5	1
59	Biodiversity: an archive of opportunity for nanodevices. , 2006, , 283-296.		0
60	DNA-Templated Assembly of Conducting Gold Nanowires. Materials Research Society Symposia Proceedings, 2006, 921, 1.	0.1	0
61	Heterosupramolecular chemistry and modulation of function in molecular devices. Journal of Chemical Sciences, 1995, 107, 673-689.	0.7	0