Gordon G Wallace

List of Publications by Citations

1,194 papers	64,472 citations	112 h-index	206 g-index
1,262 ext. papers	70,541 ext. citations	7.2 avg, IF	8 L-index

#	Paper	IF	Citations
1194	Processable aqueous dispersions of graphene nanosheets. *Nature Nanotechnology*, **2008**, 3, 101-5	28.7	7729
1193	Carbon nanotube actuators. *Science*, **1999**, 284, 1340-4	33.3	2040
1192	Mechanically Strong, Electrically Conductive, and Biocompatible Graphene Paper. *Advanced Materials*, **2008**, 20, 3557-3561	24	1665
1191	Use of ionic liquids for pi-conjugated polymer electrochemical devices. *Science*, **2002**, 297, 983-7	33.3	1058
1190	Artificial muscles from fishing line and sewing thread. *Science*, **2014**, 343, 868-72	33.3	724
1189	Conducting polymers for neural interfaces: challenges in developing an effective long-term implant. *Biomaterials*, **2008**, 29, 3393-9	15.6	609
1188	Electrochemical Properties of Graphene Paper Electrodes Used in Lithium Batteries. *Chemistry of Materials*, **2009**, 21, 2604-2606	9.6	514
1187	Electroactive conducting polymers for corrosion control. *Journal of Solid State Electrochemistry*, **2002**, 6, 73-84	2.6	474
1186	Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. *Nature Communications*, **2013**, 4, 1970	17.4	429
1185	Electrostatic catalysis of a Diels-Alder reaction. *Nature*, **2016**, 531, 88-91	50.4	422
1184	Torsional carbon nanotube artificial muscles. *Science*, **2011**, 334, 494-7	33.3	407
1183	Electroactive conducting polymers for corrosion control. *Journal of Solid State Electrochemistry*, **2002**, 6, 85-100	2.6	386
1182	Bio-ink properties and printability for extrusion printing living cells. *Biomaterials Science*, **2013**, 1, 763-773	7.4	371
1181	Dispersing carbon nanotubes with graphene oxide in water and synergistic effects between graphene derivatives. *Chemistry - A European Journal*, **2010**, 16, 10653-8	4.8	327
1180	Harvesting waste thermal energy using a carbon-nanotube-based thermo-electrochemical cell. *Nano Letters*, **2010**, 10, 838-46	11.5	323
1179	Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. *Nature Communications*, **2012**, 3, 650	17.4	322
1178	Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles. *Advanced Functional Materials*, **2013**, 23, 5345-5354	15.6	303

1177	High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. *ACS Nano*, **2014**, 8, 2456-66	16.7	290
1176	Performance evaluation of CNT/polypyrrole/MnO2 composite electrodes for electrochemical capacitors. *Electrochimica Acta*, **2007**, 52, 7377-7385	6.7	287
1175	3D printing of layered brain-like structures using peptide modified gellan gum substrates. *Biomaterials*, **2015**, 67, 264-73	15.6	283
1174	Biosensors Based on Aligned Carbon Nanotubes Coated with Inherently Conducting Polymers. *Electroanalysis*, **2003**, 15, 1089-1094	3	247
1173	Use of Ionic Liquids as Electrolytes in Electromechanical Actuator Systems Based on Inherently Conducting Polymers. *Chemistry of Materials*, **2003**, 15, 2392-2398	9.6	247
1172	Carbon-Nanotube-Reinforced Polyaniline Fibers for High-Strength Artificial Muscles. *Advanced Materials*, **2006**, 18, 637-640	24	242
1171	Bioactive coatings for orthopaedic implants-recent trends in development of implant coatings. *International Journal of Molecular Sciences*, **2014**, 15, 11878-921	6.3	239
1170	Mechanism of electromechanical actuation in polypyrrole. *Synthetic Metals*, **1995**, 73, 247-256	3.6	239
1169	Polypyrrole-coated electrodes for the delivery of charge and neurotrophins to cochlear neurons. *Biomaterials*, **2009**, 30, 2614-24	15.6	238
1168	Functional 3D Neural Mini-Tissues from Printed Gel-Based Bioink and Human Neural Stem Cells. *Advanced Healthcare Materials*, **2016**, 5, 1429-38	10.1	237
1167	A Single Component Conducting Polymer Hydrogel as a Scaffold for Tissue Engineering. *Advanced Functional Materials*, **2012**, 22, 2692-2699	15.6	231
1166	Polypyrrole-heparin composites as stimulus-responsive substrates for endothelial cell growth. *Journal of Biomedical Materials Research Part B*, **1999**, 44, 121-9		231
1165	Graphene oxide dispersions: tuning rheology to enable fabrication. *Materials Horizons*, **2014**, 1, 326-331	14.4	223
1164	Aligned Coaxial Nanowires of Carbon Nanotubes Sheathed with Conducting Polymers M.G. is grateful for a joint scholarship from Wollongong University and CSIRO; S.H. and L.D. thank the support from the Department of Industry, Science, and Technology (DIST), Australia; R.P.G. and Z.L.W. thank the support of US NSF grants (DMR-9733160), and the NSF of China. *Angewandte*	16.4	218
1163	Electrochemical studies of single-wall carbon nanotubes in aqueous solutions. *Journal of Electroanalytical Chemistry*, **2000**, 488, 92-98	4.1	218
1162	Organic material in the global troposphere. *Reviews of Geophysics*, **1983**, 21, 921	23.1	218
1161	Investigation of ionic liquids as electrolytes for carbon nanotube electrodes. *Electrochemistry Communications*, **2004**, 6, 22-27	5.1	206
1160	Knitted Strain Sensor Textiles of Highly Conductive All-Polymeric Fibers. *ACS Applied Materials & Interfaces*, **2015**, 7, 21150-8	9.5	204

1159	Polymeric Material with Metal-Like Conductivity for Next Generation Organic Electronic Devices. *Chemistry of Materials*, **2012**, 24, 3998-4003	9.6	202
1158	Flexible, Aligned Carbon Nanotube/Conducting Polymer Electrodes for a Lithium-Ion Battery. *Chemistry of Materials*, **2007**, 19, 3595-3597	9.6	199
1157	The effect of polypyrrole with incorporated neurotrophin-3 on the promotion of neurite outgrowth from auditory neurons. *Biomaterials*, **2007**, 28, 513-23	15.6	199
1156	Porphyrins for dye-sensitised solar cells: new insights into efficiency-determining electron transfer steps. *Chemical Communications*, **2012**, 48, 4145-62	5.8	197
1155	A novel carbon nanotube modified scaffold as an efficient biocathode material for improved microbial electrosynthesis. *Journal of Materials Chemistry A*, **2014**, 2, 13093-13102	13	195
1154	High-Performance Flexible All-Solid-State Supercapacitor from Large Free-Standing Graphene-PEDOT/PSS Films. *Scientific Reports*, **2015**, 5, 17045	4.9	195
1153	Buckled, stretchable polypyrrole electrodes for battery applications. *Advanced Materials*, **2011**, 23, 3580-4	14	194
1152	Chiral conducting polymers. *Chemical Society Reviews*, **2010**, 39, 2545-76	58.5	194
1151	Covalently linked biocompatible graphene/polycaprolactone composites for tissue engineering. *Carbon*, **2013**, 52, 296-304	10.4	193
1150	Strain-Responsive Polyurethane/PEDOT:PSS Elastomeric Composite Fibers with High Electrical Conductivity. *Advanced Functional Materials*, **2014**, 24, 2957-2966	15.6	193
1149	Organic solvent-based graphene oxide liquid crystals: a facile route toward the next generation of self-assembled layer-by-layer multifunctional 3D architectures. *ACS Nano*, **2013**, 7, 3981-90	16.7	191
1148	Conducting polymers, dual neurotrophins and pulsed electrical stimulation--dramatic effects on neurite outgrowth. *Journal of Controlled Release*, **2010**, 141, 161-7	11.7	191
1147	Skeletal muscle cell proliferation and differentiation on polypyrrole substrates doped with extracellular matrix components. *Biomaterials*, **2009**, 30, 5292-304	15.6	187
1146	High Acetic Acid Production Rate Obtained by Microbial Electrosynthesis from Carbon Dioxide. *Environmental Science & Technology*, **2015**, 49, 13566-74	10.3	183
1145	Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. *Advanced Energy Materials*, **2015**, 5, 1500959	21.8	183
1144	Optimising the incorporation and release of a neurotrophic factor using conducting polypyrrole. *Journal of Controlled Release*, **2006**, 116, 285-94	11.7	181
1143	Liquid Crystals of DNA-Stabilized Carbon Nanotubes. *Advanced Materials*, **2005**, 17, 1673-1676	24	181
1142	Biofabrication: an overview of the approaches used for printing of living cells. *Applied Microbiology and Biotechnology*, **2013**, 97, 4243-58	5.7	180

1141	Polypyrrole coated nylon lycra fabric as stretchable electrode for supercapacitor applications. *Electrochimica Acta*, **2012**, 68, 18-24	6.7	179
1140	Electrochemical synthesis of polypyrrole in ionic liquids. *Polymer*, **2004**, 45, 1447-1453	3.9	178
1139	A comparison of reactive robot chemotaxis algorithms. *Robotics and Autonomous Systems*, **2003**, 45, 83-97	3.5	175
1138	Compositional effects of PEDOT-PSS/single walled carbon nanotube films on supercapacitor device performance. *Journal of Materials Chemistry*, **2011**, 21, 15987		174
1137	Fabrication of an ammonia gas sensor using inkjet-printed polyaniline nanoparticles. *Talanta*, **2008**, 77, 710-717	6.2	171
1136	Nanotechnology-based disinfectants and sensors for SARS-CoV-2. *Nature Nanotechnology*, **2020**, 15, 618-621	28.7	171
1135	Tunable and Efficient Tin Modified Nitrogen-Doped Carbon Nanofibers for Electrochemical Reduction of Aqueous Carbon Dioxide. *Advanced Energy Materials*, **2018**, 8, 1702524	21.8	170
1134	Pneumatic Carbon Nanotube Actuators. *Advanced Materials*, **2002**, 14, 1728-1732	24	170
1133	Smart Nanotextiles: A Review of Materials and Applications. *MRS Bulletin*, **2007**, 32, 434-442	3.2	169
1132	Zn-Zn porphyrin dimer-sensitized solar cells: toward 3-D light harvesting. *Journal of the American Chemical Society*, **2009**, 131, 15621-3	16.4	165
1131	Carbon nanotube and polyaniline composite actuators*. *Smart Materials and Structures*, **2003**, 12, 626-632	3.4	165
1130	Strain Response from Polypyrrole Actuators under Load. *Advanced Functional Materials*, **2002**, 12, 437-440	13.6	164
1129	Development of polypyrrole-based electromechanical actuators. *Synthetic Metals*, **2000**, 113, 121-127	3.6	163
1128	Bio-sensing textile based patch with integrated optical detection system for sweat monitoring. *Sensors and Actuators B: Chemical*, **2009**, 139, 231-236	8.5	161
1127	Self-Assembly of Flexible Free-Standing 3D Porous MoS2-Reduced Graphene Oxide Structure for High-Performance Lithium-Ion Batteries. *Advanced Functional Materials*, **2017**, 27, 1700234	15.6	160
1126	The use of electropolymerization to produce new sensing surfaces: A review emphasizing electrode position of heteroaromatic compounds. *Electroanalysis*, **1991**, 3, 879-889	3	160
1125	Vapor Phase Polymerization of Pyrrole and Thiophene Using Iron(III) Sulfonates as Oxidizing Agents. *Macromolecules*, **2004**, 37, 5930-5935	5.5	158
1124	Fast trilayer polypyrrole bending actuators for high speed applications. *Synthetic Metals*, **2006**, 156, 1017-1022	3.6	157

1123	In situ handheld three-dimensional bioprinting for cartilage regeneration. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 611-621	4.4	155
1122	Intrinsically stretchable supercapacitors composed of polypyrrole electrodes and highly stretchable gel electrolyte. *ACS Applied Materials & Interfaces*, **2013**, 5, 9008-14	9.5	155
1121	Monolithic Actuators from Flash-Welded Polyaniline Nanofibers. *Advanced Materials*, **2008**, 20, 155-158	24	154
1120	Enantioselective electropolymerization of aniline in the presence of (+)- or (−)-camphorsulfonate ion: a facile route to conducting polymers with preferred one-screw-sense helicity. *Polymer*, **1994**, 35, 3113-3115	3.9	154
1119	Bio-ink for on-demand printing of living cells. *Biomaterials Science*, **2013**, 1, 224-230	7.4	153
1118	Sustained solar hydrogen generation using a dye-sensitised NiO photocathode/BiVO4 tandem photo-electrochemical device. *Energy and Environmental Science*, **2012**, 5, 9472	35.4	153
1117	Direct Growth of Flexible Carbon Nanotube Electrodes. *Advanced Materials*, **2008**, 20, 566-570	24	153
1116	Three dimensional (3D) printed electrodes for interdigitated supercapacitors. *Electrochemistry Communications*, **2014**, 41, 20-23	5.1	150
1115	Knitted Carbon-Nanotube-Sheath/Spandex-Core Elastomeric Yarns for Artificial Muscles and Strain Sensing. *ACS Nano*, **2016**, 10, 9129-9135	16.7	147
1114	Processable conducting graphene/chitosan hydrogels for tissue engineering. *Journal of Materials Chemistry B*, **2015**, 3, 481-490	7.3	146
1113	Conducting polymer coated lycra. *Synthetic Metals*, **2005**, 155, 698-701	3.6	142
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1111	Dye-Sensitized Solar Cell with Integrated Triplet-Triplet Annihilation Upconversion System. *Journal of Physical Chemistry Letters*, **2013**, 4, 2073-8	6.4	139
1110	Properties of Carbon Nanotube Fibers Spun from DNA-Stabilized Dispersions. *Advanced Functional Materials*, **2004**, 14, 133-138	15.6	139
1109	Electrochemically Synthesized Polypyrrole/Graphene Composite Film for Lithium Batteries. *Advanced Energy Materials*, **2012**, 2, 266-272	21.8	137
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1106	Conductive Electroactive Polymers		136

1105	Electrochemical Characterization of Single-Walled Carbon Nanotube Electrodes. *Journal of the Electrochemical Society*, **2000**, 147, 4580	3.9	134
1104	Extrusion printing of ionic-covalent entanglement hydrogels with high toughness. *Journal of Materials Chemistry B*, **2013**, 1, 4939-4946	7.3	133
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1102	Carbon nanotube - reduced graphene oxide composites for thermal energy harvesting applications. *Advanced Materials*, **2013**, 25, 6602-6	24	130
1101	One-Step Wet-Spinning Process of Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) Fibers and the Origin of Higher Electrical Conductivity. *Advanced Functional Materials*, **2011**, 21, 3363-3370	15.6	130
1100	Evidence for persistence of infectious agents in isolated human populations. *American Journal of Epidemiology*, **1974**, 100, 230-50	3.8	129
1099	Recent progress in 2D materials for flexible supercapacitors. *Journal of Energy Chemistry*, **2018**, 27, 57-72	12	129
1098	Superelastic Hybrid CNT/Graphene Fibers for Wearable Energy Storage. *Advanced Energy Materials*, **2018**, 8, 1702047	21.8	126
1097	Carbon nanotube/graphene nanocomposite as efficient counter electrodes in dye-sensitized solar cells. *Nanotechnology*, **2012**, 23, 085201	3.4	125
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1095	A conducting-polymer platform with biodegradable fibers for stimulation and guidance of axonal growth. *Advanced Materials*, **2009**, 21, 4393-7	24	121
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1093	High performance conducting polymer actuators utilising a tubular geometry and helical wire interconnects. *Synthetic Metals*, **2003**, 138, 391-398	3.6	120
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1091	High-power biofuel cell textiles from woven biscrolled carbon nanotube yarns. *Nature Communications*, **2014**, 5, 3928	17.4	117
1090	Direct Electrodeposition of Polypyrrole on Aluminum and Aluminum Alloy by Electron Transfer Mediation. *Journal of the Electrochemical Society*, **2002**, 149, C173	3.9	117
1089	Fibronectin and bovine serum albumin adsorption and conformational dynamics on inherently conducting polymers: a QCM-D study. *Langmuir*, **2012**, 28, 8433-45	4	116
1088	Comparison of polyaniline primers prepared with different dopants for corrosion protection of steel. *Progress in Organic Coatings*, **2003**, 48, 43-49	4.8	116

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1086	Glucose sensors based on glucose-oxidase-containing polypyrrole/aligned carbon nanotube coaxial nanowire electrodes. *Synthetic Metals*, **2003**, 137, 1393-1394	3.6	114
1085	Conducting polymers - bridging the bionic interface. *Soft Matter*, **2007**, 3, 665-671	3.6	113
1084	Development of Graphene Oxide/Polyaniline Inks for High Performance Flexible Microsupercapacitors via Extrusion Printing. *Advanced Functional Materials*, **2018**, 28, 1706592	15.6	112
1083	Preparation and characterization of processable electroactive polyaniline–polyvinyl alcohol composite. *Polymer*, **2003**, 44, 3523-3528	3.9	112
1082	The nanostructure of three-dimensional scaffolds enhances the current density of microbial bioelectrochemical systems. *Energy and Environmental Science*, **2013**, 6, 1291	35.4	110
1081	Nano-Carbon Electrodes for Thermal Energy Harvesting. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 1-14	1.3	109
1080	Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. *Scientific Reports*, **2017**, 7, 5837	4.9	109
1079	Two-dimensional transition metal dichalcogenides in supercapacitors and secondary batteries. *Energy Storage Materials*, **2019**, 19, 408-423	19.4	109
1078	Biopolymers for Antitumor Implantable Drug Delivery Systems: Recent Advances and Future Outlook. *Advanced Materials*, **2018**, 30, e1706665	24	109
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1074	Chemical generation of optically active polyaniline via the doping of emeraldine base with (+)- or (?)-camphorsulfonic acid. *Polymer*, **1995**, 36, 3597-3599	3.9	107
1073	Inkjet printable polyaniline nanoformulations. *Langmuir*, **2007**, 23, 8569-74	4	105
1072	Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO2 Reduction to CO. *ACS Energy Letters*, **2019**, 4, 666-672	20.1	104
1071	Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. *Sensors and Actuators B: Chemical*, **2006**, 115, 678-684	8.5	104
1070	Tin nanoparticles decorated copper oxide nanowires for selective electrochemical reduction of aqueous CO2 to CO. *Journal of Materials Chemistry A*, **2016**, 4, 10710-10718	13	102

1069	Modified gellan gum hydrogels for tissue engineering applications. *Soft Matter*, **2013**, 9, 3705	3.6	102
1068	Liquid crystal behavior of single-walled carbon nanotubes dispersed in biological hyaluronic acid solutions. *Journal of the American Chemical Society*, **2007**, 129, 9452-7	16.4	100
1067	3D Bioprinting Human Induced Pluripotent Stem Cell Constructs for In Situ Cell Proliferation and Successive Multilineage Differentiation. *Advanced Healthcare Materials*, **2017**, 6, 1700175	10.1	99
1066	3-dimensional (3D) fabricated polymer based drug delivery systems. *Journal of Controlled Release*, **2014**, 193, 27-34	11.7	99
1065	Carbon nanotube network modified carbon fibre paper for Li-ion batteries. *Energy and Environmental Science*, **2009**, 2, 393	35.4	99
1064	Mechanical properties of carbon nanotube paper in ionic liquid and aqueous electrolytes. *Carbon*, **2005**, 43, 1891-1896	10.4	99
1063	The influence of carbon nanotubes on mechanical and electrical properties of polyaniline fibers. *Synthetic Metals*, **2005**, 152, 77-80	3.6	98
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1061	Graphite Oxide to Graphene. Biomaterials to Bionics. *Advanced Materials*, **2015**, 27, 7563-82	24	96
1060	Molecular recognition using conducting polymers: basis of an electrochemical sensing technology—plenary lecture. *Analyst, The*, **1993**, 118, 329-334	5	96
1059	Conductive Electroactive Polymers		96
1058	SWEATCH—A Wearable Platform for Harvesting and Analysing Sweat Sodium Content. *Electroanalysis*, **2016**, 28, 1283-1289	3	95
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1038	Investigation of protein adsorption and electrochemical behavior at a gold electrode. *Journal of Colloid and Interface Science*, **2003**, 261, 312-9	9.3	88
1037	A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroin Ionic Liquid Polymer Electrolyte. *ACS Energy Letters*, **2017**, 2, 831-836	20.1	87
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1027	Electrofunctional polymers: their role in the development of new analytical systems. *Analyst, The*, **1999**, 124, 213-219	5	84
1026	An Amperometric Enzyme Biosensor Fabricated from Polyaniline Nanoparticles. *Electroanalysis*, **2005**, 17, 423-430	3	83
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1024	Injection Limitations in a Series of Porphyrin Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 3276-3279	3.8	82
1023	Novel biosensor fabrication methodology based on processable conducting polyaniline nanoparticles. *Electrochemistry Communications*, **2005**, 7, 317-322	5.1	82
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