Sanjeev Gambhir

List of Publications by Citations

40 papers	2,103 citations	25 h-index	40 g-index
40 ext. papers	2,401 ext. citations	9.7 avg, IF	4.7 L-index

#	Paper	IF	Citations
40	Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. *Nature Communications*, **2012**, 3, 650	17.4	322
39	Covalently linked biocompatible graphene/polycaprolactone composites for tissue engineering. *Carbon*, **2013**, 52, 296-304	10.4	193
38	Electrochemically Synthesized Polypyrrole/Graphene Composite Film for Lithium Batteries. *Advanced Energy Materials*, **2012**, 2, 266-272	21.8	137
37	Development of the Biopen: a handheld device for surgical printing of adipose stem cells at a chondral wound site. *Biofabrication*, **2016**, 8, 015019	10.5	136
36	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
35	Highly Conductive Carbon Nanotube-Graphene Hybrid Yarn. *Advanced Functional Materials*, **2014**, 24, 5859-5865	15.6	95
34	A multiswitchable poly(terthiophene) bearing a spiropyran functionality: understanding photo- and electrochemical control. *Journal of the American Chemical Society*, **2011**, 133, 5453-62	16.4	86
33	Reduced graphene oxide and polypyrrole/reduced graphene oxide composite coated stretchable fabric electrodes for supercapacitor application. *Electrochimica Acta*, **2015**, 172, 12-19	6.7	85
32	Energy efficient electrochemical reduction of CO2 to CO using a three-dimensional porphyrin/graphene hydrogel. *Energy and Environmental Science*, **2019**, 12, 747-755	35.4	76
31	Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. *Soft Matter*, **2018**, 14, 2142-2151	3.6	76
30	A spectroscopic and DFT study of thiophene-substituted metalloporphyrins as dye-sensitized solar cell dyes. *Physical Chemistry Chemical Physics*, **2009**, 11, 5598-607	3.6	67
29	Liquid Crystallinity and Dimensions of Surfactant-Stabilized Sheets of Reduced Graphene Oxide. *Journal of Physical Chemistry Letters*, **2012**, 3, 2425-30	6.4	58
28	Chemically converted graphene: scalable chemistries to enable processing and fabrication. *NPG Asia Materials*, **2015**, 7, e186-e186	10.3	57
27	Capillary zone electrophoresis of graphene oxide and chemically converted graphene. *Journal of Chromatography A*, **2010**, 1217, 7593-7	4.5	44
26	Novel carbon materials for thermal energy harvesting. *Journal of Thermal Analysis and Calorimetry*, **2012**, 109, 1229-1235	4.1	40
25	3D printable conducting hydrogels containing chemically converted graphene. *Nanoscale*, **2017**, 9, 2038-2050	7.7	39
24	Carbon nanohorns as integrative materials for efficient dye-sensitized solar cells. *Advanced Materials*, **2013**, 25, 6513-8	24	39

23	A facile approach for fabrication of mechanically strong graphene/polypyrrole films with large areal capacitance for supercapacitor applications. *RSC Advances*, **2015**, 5, 102643-102651	3.7	35
22	Fabrication of a graphene coated nonwoven textile for industrial applications. *RSC Advances*, **2016**, 6, 73203-73209	3.7	33
21	Aqueous dispersions of reduced graphene oxide and multi wall carbon nanotubes for enhanced glucose oxidase bioelectrode performance. *Carbon*, **2013**, 61, 467-475	10.4	33
20	Weavable asymmetric carbon nanotube yarn supercapacitor for electronic textiles.. *RSC Advances*, **2018**, 8, 13112-13120	3.7	32
19	Self-healing graphene oxide-based composite for electromagnetic interference shielding. *Carbon*, **2019**, 155, 499-505	10.4	31
18	Microsecond dye regeneration kinetics in efficient solid state dye-sensitized solar cells using a photoelectrochemically deposited PEDOT hole conductor. *Journal of the American Chemical Society*, **2010**, 132, 9543-5	16.4	29
17	A "Tandem" Strategy to Fabricate Flexible Graphene/Polypyrrole Nanofiber Film Using the Surfactant-Exfoliated Graphene for Supercapacitors. *ACS Applied Materials & Interfaces*, **2018**, 10, 22031-22041	9.5	27
16	Indanedione-Substituted Poly(terthiophene)s: Processable Conducting Polymers with Intramolecular Charge Transfer Interactions. *Macromolecules*, **2010**, 43, 3817-3827	5.5	26
15	Evaluation of sterilisation methods for bio-ink components: gelatin, gelatin methacryloyl, hyaluronic acid and hyaluronic acid methacryloyl. *Biofabrication*, **2019**, 11, 035003	10.5	24
14	Anhydrous organic dispersions of highly reduced chemically converted graphene. *Carbon*, **2014**, 76, 368-377	10.4	23
13	Flexible and compressible Goretex-PEDOT membrane electrodes for solid-state dye-sensitized solar cells. *Langmuir*, **2010**, 26, 1452-5	4	22
12	Self-Healing Electrode with High Electrical Conductivity and Mechanical Strength for Artificial Electronic Skin. *ACS Applied Materials & Interfaces*, **2019**, 11, 46026-46033	9.5	19
11	Advancement in liquid exfoliation of graphite through simultaneously oxidizing and ultrasonicating. *Journal of Materials Chemistry A*, **2014**, 2, 20382-20392	13	19
10	Molecular interactions and forces of adhesion between single human neural stem cells and gelatin methacrylate hydrogels of varying stiffness. *Acta Biomaterialia*, **2020**, 106, 156-169	10.8	17
9	Electrically Induced Disassembly of Electroactive Multilayer Films Fabricated from Water Soluble Polythiophenes. *Advanced Functional Materials*, **2012**, 22, 5020-5027	15.6	17
8	Towards functionalised terthiophene-based polymers. *Synthetic Metals*, **2005**, 154, 117-120	3.6	14
7	Electro-mechano responsive properties of gelatin methacrylate (GelMA) hydrogel on conducting polymer electrodes quantified using atomic force microscopy. *Soft Matter*, **2017**, 13, 4761-4772	3.6	11
6	Physicochemical study of spiropyran-terthiophene derivatives: photochemistry and thermodynamics. *Physical Chemistry Chemical Physics*, **2012**, 14, 9112-20	3.6	11

5	Bio-Inspired Stretchable and Contractible Tough Fiber by the Hybridization of GO/MWNT/Polyurethane. *ACS Applied Materials & Interfaces*, **2019**, 11, 31162-31168	9.5	10
4	Optical switching of protein interactions on photosensitive-electroactive polymers measured by atomic force microscopy. *Journal of Materials Chemistry B*, **2013**, 1, 2162-2168	7.3	9
3	A contactless approach for monitoring the mechanical properties of swollen hydrogels. *Soft Matter*, **2018**, 14, 7228-7236	3.6	5
2	Bioprinting of Chondrocyte Stem Cell Co-Cultures for Auricular Cartilage Regeneration.. *ACS Omega*, **2022**, 7, 5908-5920	3.9	2
1	Biodegradable Conducting Polymer Coating to Mitigate Early Stage Degradation of Magnesium in Simulated Biological Fluid: An Electrochemical Mechanistic Study. *ChemElectroChem*, **2019**, 6, 4893-4901	4.3	0