Mary B Chan-Park

List of Publications by Citations

266 papers	13,009 citations	55 h-index	104 g-index
273 ext. papers	14,331 ext. citations	7.8 avg, IF	6.47 L-index

#	Paper	IF	Citations
266	3D graphene-cobalt oxide electrode for high-performance supercapacitor and enzymeless glucose detection. *ACS Nano*, **2012**, 6, 3206-13	16.7	1371
265	Single-crystalline NiCo2O4 nanoneedle arrays grown on conductive substrates as binder-free electrodes for high-performance supercapacitors. *Energy and Environmental Science*, **2012**, 5, 9453	35.4	709
264	A polycationic antimicrobial and biocompatible hydrogel with microbe membrane suctioning ability. *Nature Materials*, **2011**, 10, 149-56	27	588
263	Macroporous and monolithic anode based on polyaniline hybridized three-dimensional graphene for high-performance microbial fuel cells. *ACS Nano*, **2012**, 6, 2394-400	16.7	469
262	Superhydrophobic and superoleophilic hybrid foam of graphene and carbon nanotube for selective removal of oils or organic solvents from the surface of water. *Chemical Communications*, **2012**, 48, 10660-2	5.8	436
261	Hybrid structure of zinc oxide nanorods and three dimensional graphene foam for supercapacitor and electrochemical sensor applications. *RSC Advances*, **2012**, 2, 4364	3.7	253
260	Hydrogel based on interpenetrating polymer networks of dextran and gelatin for vascular tissue engineering. *Biomaterials*, **2009**, 30, 196-207	15.6	212
259	Cationic peptidopolysaccharides show excellent broad-spectrum antimicrobial activities and high selectivity. *Advanced Materials*, **2012**, 24, 4130-7	24	193
258	Hollow fiber membrane decorated with Ag/MWNTs: toward effective water disinfection and biofouling control. *ACS Nano*, **2011**, 5, 10033-40	16.7	193
257	Synthesis of a MnO2/graphene foam hybrid with controlled MnO2 particle shape and its use as a supercapacitor electrode. *Carbon*, **2012**, 50, 4865-4870	10.4	184
256	Synthesis of graphene–carbon nanotube hybrid foam and its use as a novel three-dimensional electrode for electrochemical sensing. *Journal of Materials Chemistry*, **2012**, 22, 17044		181
255	Esophageal epithelium regeneration on fibronectin grafted poly(L-lactide-co-caprolactone) (PLLC) nanofiber scaffold. *Biomaterials*, **2007**, 28, 861-8	15.6	178
254	A photopolymerized antimicrobial hydrogel coating derived from epsilon-poly-L-lysine. *Biomaterials* , **2011**, 32, 2704-12	15.6	173
253	A biomimetic hydrogel based on methacrylated dextran-graft-lysine and gelatin for 3D smooth muscle cell culture. *Biomaterials*, **2010**, 31, 1158-70	15.6	165
252	One-step growth of graphene–carbon nanotube hybrid materials by chemical vapor deposition. *Carbon*, **2011**, 49, 2944-2949	10.4	162
251	Advances in carbon-nanotube assembly. *Small*, **2007**, 3, 24-42	11	162
250	Deposition of Silver Nanoparticles on Multiwalled Carbon Nanotubes Grafted with Hyperbranched Poly(amidoamine) and Their Antimicrobial Effects. *Journal of Physical Chemistry C*, **2008**, 112, 18754-18759	3.8	138

249	High-Performance Thin-Film Transistors from Solution-Processed Dithienothiophene Polymer Semiconductor Nanoparticles. *Chemistry of Materials*, **2008**, 20, 2057-2059	9.6	132
248	High potency and broad-spectrum antimicrobial peptides synthesized via ring-opening polymerization of alpha-aminoacid-N-carboxyanhydrides. *Biomacromolecules*, **2010**, 11, 60-7	6.9	125
247	The formation of a carbon nanotube–graphene oxide core–shell structure and its possible applications. *Carbon*, **2011**, 49, 5071-5078	10.4	118
246	Supercapacitor electrode based on three-dimensional graphene–polyaniline hybrid. *Materials Chemistry and Physics*, **2012**, 134, 576-580	4.4	116
245	Biomimetic control of vascular smooth muscle cell morphology and phenotype for functional tissue-engineered small-diameter blood vessels. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 1104-21	5.4	112
244	Selective synthesis of (9,8) single walled carbon nanotubes on cobalt incorporated TUD-1 catalysts. *Journal of the American Chemical Society*, **2010**, 132, 16747-9	16.4	107
243	The aggregation behavior of O-carboxymethylchitosan in dilute aqueous solution. *Colloids and Surfaces B: Biointerfaces*, **2005**, 43, 143-9	6	106
242	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. *Energy and Environmental Science*, **2011**, 4, 4220	35.4	105
241	Effect of exposure dose on the replication fidelity and profile of very high aspect ratio microchannels in SU-8. *Lab on A Chip*, **2004**, 4, 646-53	7.2	102
240	Flexible 3D Nanoporous Graphene for Desalination and Bio-decontamination of Brackish Water via Asymmetric Capacitive Deionization. *ACS Applied Materials & Interfaces*, **2016**, 8, 25313-25	9.5	99
239	Protein bonding on biodegradable poly(L-lactide-co-caprolactone) membrane for esophageal tissue engineering. *Biomaterials*, **2006**, 27, 68-78	15.6	98
238	Individually Dispersing Single-Walled Carbon Nanotubes with Novel Neutral pH Water-Soluble Chitosan Derivatives. *Journal of Physical Chemistry C*, **2008**, 112, 7579-7587	3.8	96
237	High Interlaminar Shear Strength Enhancement of Carbon Fiber/Epoxy Composite through Fiber- and Matrix-Anchored Carbon Nanotube Networks. *ACS Applied Materials & Interfaces*, **2017**, 9, 8960-8966	9.5	94
236	The molecular basis of distinct aggregation pathways of islet amyloid polypeptide. *Journal of Biological Chemistry*, **2011**, 286, 6291-300	5.4	94
235	Enhanced ex vivo expansion of adult mesenchymal stem cells by fetal mesenchymal stem cell ECM. *Biomaterials*, **2014**, 35, 4046-57	15.6	93
234	Covalent immobilization of nisin on multi-walled carbon nanotubes: superior antimicrobial and anti-biofilm properties. *Nanoscale*, **2011**, 3, 1874-80	7.7	92
233	Varying the ionic functionalities of conjugated polyelectrolytes leads to both p- and n-type carbon nanotube composites for flexible thermoelectrics. *Energy and Environmental Science*, **2015**, 8, 2341-2346	35.4	89
232	A Novel Polyimide Dispersing Matrix for Highly Electrically Conductive Solution-Cast Carbon Nanotube-Based Composite. *Chemistry of Materials*, **2011**, 23, 4149-4157	9.6	87

231	Combining cell sheet technology and electrospun scaffolding for engineered tubular, aligned, and contractile blood vessels. *Biomaterials*, **2014**, 35, 2713-9	15.6	83
230	High capacitive performance of flexible and binder-free graphene-polypyrrole composite membrane based on in situ reduction of graphene oxide and self-assembly. *Nanoscale*, **2013**, 5, 9860-6	7.7	82
229	Block Copolymer Nanoparticles Remove Biofilms of Drug-Resistant Gram-Positive Bacteria by Nanoscale Bacterial Debridement. *Nano Letters*, **2018**, 18, 4180-4187	11.5	81
228	Fabrication of High Aspect Ratio Poly(ethylene glycol)-Containing Microstructures by UV Embossing. *Langmuir*, **2003**, 19, 4371-4380	4	80
227	Real-time detection of wound-induced HO signalling waves in plants with optical nanosensors. *Nature Plants*, **2020**, 6, 404-415	11.5	78
226	Three-dimensional microchannels in biodegradable polymeric films for control orientation and phenotype of vascular smooth muscle cells. *Tissue Engineering*, **2006**, 12, 2229-40		76
225	High-Performance Capacitive Deionization Disinfection of Water with Graphene Oxide-graft-Quaternized Chitosan Nanohybrid Electrode Coating. *ACS Nano*, **2015**, 9, 10142-57	16.7	74
224	Effect of argon-plasma treatment on proliferation of human-skin-derived fibroblast on chitosan membrane in vitro. *Journal of Biomedical Materials Research - Part A*, **2005**, 73, 264-74	5.4	74
223	Chitosan-Based Peptidopolysaccharides as Cationic Antimicrobial Agents and Antibacterial Coatings. *Biomacromolecules*, **2018**, 19, 2156-2165	6.9	73
222	A graphene nanoribbon network and its biosensing application. *Nanoscale*, **2011**, 3, 5156-60	7.7	72
221	In Vivo Anti-Biofilm and Anti-Bacterial Non-Leachable Coating Thermally Polymerized on Cylindrical Catheter. *ACS Applied Materials & Interfaces*, **2017**, 9, 36269-36280	9.5	69
220	High-strength carbon nanotube buckypaper composites as applied to free-standing electrodes for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 4057	13	69
219	Epoxy Composite Fibers Reinforced with Aligned Single-Walled Carbon Nanotubes Functionalized with Generation 0 Dendritic Poly(amidoamine). *Chemistry of Materials*, **2009**, 21, 1471-1479	9.6	69
218	Ethanol-assisted graphene oxide-based thin film formation at pentane-water interface. *Langmuir*, **2011**, 27, 9174-81	4	66
217	Magnetic nanochain integrated microfluidic biochips. *Nature Communications*, **2018**, 9, 1743	17.4	60
216	Degradable Conjugated Polymers: Synthesis and Applications in Enrichment of Semiconducting Single-Walled Carbon Nanotubes. *Advanced Functional Materials*, **2011**, 21, 1643-1651	15.6	60
215	Toward High-Performance Solution-Processed Carbon Nanotube Network Transistors by Removing Nanotube Bundles. *Journal of Physical Chemistry C*, **2008**, 112, 12089-12091	3.8	59
214	Modulating Antimicrobial Activity and Mammalian Cell Biocompatibility with Glucosamine-Functionalized Star Polymers. *Biomacromolecules*, **2016**, 17, 1170-8	6.9	58

213	Regulating orientation and phenotype of primary vascular smooth muscle cells by biodegradable films patterned with arrays of microchannels and discontinuous microwalls. *Biomaterials*, **2010**, 31, 6228-38	15.6	57
212	Increasing bacterial affinity and cytocompatibility with four-arm star glycopolymers and antimicrobial □-polylysine. *Polymer Chemistry*, **2017**, 8, 3364-3373	4.9	55
211	Three-Dimensional Macroporous Graphene Foam Filled with Mesoporous Polyaniline Network for High Areal Capacitance. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2291-2296	8.3	55
210	Selective enrichment of (6,5) and (8,3) single-walled carbon nanotubes via cosurfactant extraction from narrow (n,m) distribution samples. *Journal of Physical Chemistry B*, **2008**, 112, 2771-4	3.4	54
209	Nanoparticles of Short Cationic Peptidopolysaccharide Self-Assembled by Hydrogen Bonding with Antibacterial Effect against Multidrug-Resistant Bacteria. *ACS Applied Materials & Interfaces*, **2017**, 9, 38288-38303	9.5	53
208	Enantiomeric glycosylated cationic block co-beta-peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. *Nature Communications*, **2019**, 10, 4792	17.4	53
207	Novel short antibacterial and antifungal peptides with low cytotoxicity: Efficacy and action mechanisms. *Biochemical and Biophysical Research Communications*, **2010**, 398, 594-600	3.4	52
206	Fabrication of large SU-8 mold with high aspect ratio microchannels by UV exposure dose reduction. *Sensors and Actuators B: Chemical*, **2004**, 101, 175-182	8.5	50
205	Use of Polyimide-graft-Bisphenol A Diglyceryl Acrylate as a Reactive Noncovalent Dispersant of Single-Walled Carbon Nanotubes for Reinforcement of Cyanate Ester/Epoxy Composite. *Chemistry of Materials*, **2010**, 22, 6542-6554	9.6	49
204	Energy Transfer from Photo-Excited Fluorene Polymers to Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2009**, 113, 14946-14952	3.8	49
203	Solution-processable carbon nanotubes for semiconducting thin-film transistor devices. *Advanced Materials*, **2010**, 22, 1278-82	24	48
202	High internal phase emulsion templating with self-emulsifying and thermoresponsive chitosan-graft-PNIPAM-graft-oligoproline. *Biomacromolecules*, **2014**, 15, 1777-87	6.9	47
201	Surface enhanced Raman scattering by graphene-nanosheet-gapped plasmonic nanoparticle arrays for multiplexed DNA detection. *Nanoscale*, **2015**, 7, 12606-13	7.7	46
200	Semiconductive Polymers Containing Dithieno[3,2-b:2?,3?-d]pyrrole for Organic Thin-Film Transistors. *Macromolecules*, **2008**, 41, 8953-8955	5.5	42
199	Synthesis and Antibacterial Study of Sulfobetaine/Quaternary Ammonium-Modified Star-Shaped Poly[2-(dimethylamino)ethyl methacrylate]-Based Copolymers with an Inorganic Core. *Biomacromolecules*, **2017**, 18, 44-55	6.9	41
198	Selective Surface Charge Sign Reversal on Metallic Carbon Nanotubes for Facile Ultrahigh Purity Nanotube Sorting. *ACS Nano*, **2016**, 10, 3222-32	16.7	41
197	Solution-Processable Barium Titanate and Strontium Titanate Nanoparticle Dielectrics for Low-Voltage Organic Thin-Film Transistors. *Chemistry of Materials*, **2009**, 21, 3153-3161	9.6	41
196	Injectable, interconnected, high-porosity macroporous biocompatible gelatin scaffolds made by surfactant-free emulsion templating. *Macromolecular Rapid Communications*, **2015**, 36, 364-72	4.8	40

195	Antimicrobial Peptide-Reduced Gold Nanoclusters with Charge-Reversal Moieties for Bacterial Targeting and Imaging. *Biomacromolecules*, **2019**, 20, 2922-2933	6.9	40
194	Nitrogen-doped carbon nanotube-based bilayer thin film as transparent counter electrode for dye-sensitized solar cells (DSSCs). *Chemistry - an Asian Journal*, **2012**, 7, 541-5	4.5	40
193	Systematic studies of covalent functionalization of carbon nanotubes via argon plasma-assisted UV grafting. *Nanotechnology*, **2007**, 18, 115712	3.4	40
192	Interaction between O-carboxymethylchitosan and dipalmitoyl-sn-glycero-3-phosphocholine bilayer. *Biomaterials*, **2005**, 26, 6873-9	15.6	40
191	Enzymeless multi-sugar fuel cells with high power output based on 3D graphene-Co3O4 hybrid electrodes. *Physical Chemistry Chemical Physics*, **2013**, 15, 9170-6	3.6	39
190	Effect of particle shape on phagocytosis of CdTe quantum dot□ystine composites. *MedChemComm* , **2010**, 1, 84	5	39
189	CF4 plasma treatment of poly(dimethylsiloxane): effect of fillers and its application to high-aspect-ratio UV embossing. *Langmuir*, **2005**, 21, 8905-12	4	39
188	Carbon Nanotube Driver Circuit for 6 □6 Organic Light Emitting Diode Display. *Scientific Reports*, **2015**, 5, 11755	4.9	38
187	Cationic polycarbonate-grafted superparamagnetic nanoparticles with synergistic dual-modality antimicrobial activity. *Biomaterials Science*, **2016**, 4, 871-9	7.4	38
186	High Refractive Index Inorganic□Organic Interpenetrating Polymer Network (IPN) Hydrogel Nanocomposite toward Artificial Cornea Implants. *ACS Macro Letters*, **2012**, 1, 876-881	6.6	37
185	Single-Walled Carbon Nanotube Based Real-Time Organophosphate Detector. *Electroanalysis*, **2007** , 19, 616-619	3	37
184	Adhesion contact dynamics of 3T3 fibroblasts on poly (lactide-co-glycolide acid) surface modified by photochemical immobilization of biomacromolecules. *Biomaterials*, **2006**, 27, 2566-76	15.6	37
183	Conjugation of Polyphosphoester and Antimicrobial Peptide for Enhanced Bactericidal Activity and Biocompatibility. *Biomacromolecules*, **2016**, 17, 4037-4044	6.9	36
182	Development of high refractive ZnS/PVP/PDMAA hydrogel nanocomposites for artificial cornea implants. *Acta Biomaterialia*, **2014**, 10, 1167-76	10.8	35
181	All-printed carbon nanotube finFETs on plastic substrates for high-performance flexible electronics. *Advanced Materials*, **2012**, 24, 358-61	24	35
180	Density quantification of collagen grafted on biodegradable polyester: its application to esophageal smooth muscle cell. *Analytical Biochemistry*, **2007**, 363, 119-27	3.1	35
179	A Glycosylated Cationic Block Poly(□peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gram-Negative Bacteria. *Angewandte Chemie - International Edition*, **2020**, 59, 6819-6826	16.4	35
178	Cytocompatible Hydrogels Based on Photocrosslinkable Methacrylated O-Carboxymethylchitosan with Tunable Charge: Synthesis and Characterization. *Advanced Functional Materials*, **2007**, 17, 2139-2150	15.6	34

177	UV-embossed microchannel in biocompatible polymeric film: application to control of cell shape and orientation of muscle cells. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2006**, 77, 423-30	3.5	34
176	Novel photopolymerizable biodegradable triblock polymers for tissue engineering scaffolds: synthesis and characterization. *Macromolecular Bioscience*, **2004**, 4, 665-73	5.5	34
175	Hydrogel Effects Rapid Biofilm Debridement with ex situ Contact-Kill to Eliminate Multidrug Resistant Bacteria in vivo. *ACS Applied Materials & Interfaces*, **2018**, 10, 20356-20367	9.5	34
174	Scalable and effective enrichment of semiconducting single-walled carbon nanotubes by a dual selective naphthalene-based azo dispersant. *Journal of the American Chemical Society*, **2013**, 135, 5569-81	16.4	33
173	Magnetism in oxidized graphenes with hydroxyl groups. *Nanotechnology*, **2011**, 22, 105702	3.4	33
172	Exciton dissociation in organic light emitting diodes at the donor-acceptor interface. *Physical Review Letters*, **2007**, 98, 176403	7.4	33
171	Electrochemical Detection of Uric Acid on Exfoliated Nanosheets of Graphitic-Like Carbon Nitride (g-C3N4) Based Sensor. *Journal of the Electrochemical Society*, **2019**, 166, B3163-B3170	3.9	31
170	Covalent cum noncovalent functionalizations of carbon nanotubes for effective reinforcement of a solution cast composite film. *ACS Applied Materials & Interfaces*, **2012**, 4, 2065-73	9.5	31
169	Hydrogels based on dual curable chitosan-graft-polyethylene glycol-graft-methacrylate: application to layer-by-layer cell encapsulation. *ACS Applied Materials & Interfaces*, **2010**, 2, 2012-25	9.5	31
168	A magnetically responsive material of single-walled carbon nanotubes functionalized with magnetic ionic liquid. *Carbon*, **2010**, 48, 2501-2505	10.4	31
167	. *Journal of Microelectromechanical Systems*, **2006**, 15, 84-93	2.5	31
166	Synthesis, characterization, and in vitro degradation of a biodegradable photo-cross-linked film from liquid poly(epsilon-caprolactone-co-lactide-co-glycolide) diacrylate. *Biomacromolecules*, **2007**, 8, 376-85	6.9	30
165	Development of Biodegradable and Antimicrobial Electrospun Zein Fibers for Food Packaging. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15354-15365	8.3	30
164	Impact of endothelial cells on 3D cultured smooth muscle cells in a biomimetic hydrogel. *ACS Applied Materials & Interfaces*, **2012**, 4, 1378-87	9.5	29
163	TiO2 composing with pristine, metallic or semiconducting single-walled carbon nanotubes: which gives the best performance for a dye-sensitized solar cell. *ChemPhysChem*, **2012**, 13, 2566-72	3.2	29
162	Effect of side-chain structure of rigid polyimide dispersant on mechanical properties of single-walled carbon nanotube/cyanate ester composite. *ACS Applied Materials & Interfaces*, **2011**, 3, 1702-12	9.5	29
161	Solution-processable semiconducting thin-film transistors using single-walled carbon nanotubes chemically modified by organic radical initiators. *Chemical Communications*, **2009**, 7182-4	5.8	29
160	Functionalization of carbon nanotubes by argon plasma-assisted ultraviolet grafting. *Applied Physics Letters*, **2005**, 87, 213101	3.4	29

159	Simulation and investigation of factors affecting high aspect ratio UV embossing. *Langmuir*, **2005**, 21, 2000-7	4	28
158	Design of experiment for optimization of plasma-polymerized octafluorocyclobutane coating on very high aspect ratio silicon molds. *Langmuir*, **2006**, 22, 10196-203	4	28
157	Organic Thin-Film Transistors Processed from Relatively Nontoxic, Environmentally Friendlier Solvents. *Chemistry of Materials*, **2010**, 22, 5747-5753	9.6	27
156	Enrichment of (8,4) single-walled carbon nanotubes through coextraction with heparin. *Small*, **2010**, 6, 110-8	11	27
155	Synthesis and Characterization of Functionalizable and Photopatternable Poly(ε-caprolactone-co-RS-β-malic acid). *Macromolecules*, **2005**, 38, 8227-8234	5.5	27
154	The growth improvement of porcine esophageal smooth muscle cells on collagen-grafted poly(DL-lactide-co-glycolide) membrane. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2005**, 75, 193-9	3.5	27
153	Biguanide-Derived Polymeric Nanoparticles Kill MRSA Biofilm and Suppress Infection. *ACS Applied Materials & Interfaces*, **2020**, 12, 21231-21241	9.5	26
152	High Selectivity cum Yield Gel Electrophoresis Separation of Single-Walled Carbon Nanotubes Using a Chemically Selective Polymer Dispersant. *Journal of Physical Chemistry C*, **2012**, 116, 10266-10273	3.8	26
151	Large-scale submicron horizontally aligned single-walled carbon nanotube surface arrays on various substrates produced by a fluidic assembly method. *Nanotechnology*, **2006**, 17, 5696-701	3.4	26
150	High-performance inkjet printed carbon nanotube thin film transistors with high-k HfO2 dielectric on plastic substrate. *Small*, **2012**, 8, 2941-7	11	25
149	Transfer printing of submicrometer patterns of aligned carbon nanotubes onto functionalized electrodes. *Small*, **2007**, 3, 616-21	11	25
148	Self-assembled monolayers mediated charge injection for high performance bottom-contact poly(3,3???-didodecylquaterthiophene) thin-film transistors. *Organic Electronics*, **2008**, 9, 936-943	3.5	25
147	Ultraviolet embossing for patterning high aspect ratio polymeric microstructures. *Microsystem Technologies*, **2003**, 9, 501-506	1.7	25
146	Synthesis of Antibacterial Glycosylated Polycaprolactones Bearing Imidazoliums with Reduced Hemolytic Activity. *Biomacromolecules*, **2019**, 20, 949-958	6.9	25
145	Lateral assembly of oxidized graphene flakes into large-scale transparent conductive thin films with a three-dimensional surfactant 4-sulfocalix[4]arene. *Scientific Reports*, **2015**, 5, 10716	4.9	24
144	Template-free synthesis of large anisotropic gold nanostructures on reduced graphene oxide. *Nanoscale*, **2012**, 4, 3055-9	7.7	24
143	Reactive Spinning of Cyanate Ester Fibers Reinforced with Aligned Amino-Functionalized Single Wall Carbon Nanotubes. *Advanced Functional Materials*, **2008**, 18, 888-897	15.6	24
142	Quick layer-by-layer assembly of aligned multilayers of vascular smooth muscle cells in deep microchannels. *Tissue Engineering*, **2007**, 13, 1003-12		24

141	Antimicrobial Effect of a Novel Chitosan Derivative and Its Synergistic Effect with Antibiotics. *ACS Applied Materials & Interfaces*, **2021**, 13, 3237-3245	9.5	24
140	Addition of beta-malic acid-containing poly(ethylene glycol) dimethacrylate to form biodegradable and biocompatible hydrogels. *Biomacromolecules*, **2009**, 10, 2043-52	6.9	23
139	Synthesis and Degradation of Biodegradable Photo-Cross-Linked Poly(□malic acid)-Based Hydrogel. *Chemistry of Materials*, **2006**, 18, 3946-3955	9.6	23
138	Solution-processed flexible transparent conductors based on carbon nanotubes and silver grid hybrid films. *Nanoscale*, **2014**, 6, 4560-5	7.7	22
137	Solution-prepared hybrid-nanoparticle dielectrics for high-performance low-voltage organic thin-film transistors. *ACS Applied Materials & Interfaces*, **2009**, 1, 2230-6	9.5	22
136	Real-Time Nitrophenol Detection Using Single-Walled Carbon Nanotube Based Devices. *Electroanalysis*, **2008**, 20, 558-562	3	22
135	Totally embedded hybrid thin films of carbon nanotubes and silver nanowires as flat homogenous flexible transparent conductors. *Scientific Reports*, **2016**, 6, 38453	4.9	22
134	A minimalist approach to stereoselective glycosylation with unprotected donors. *Nature Communications*, **2017**, 8, 1146	17.4	21
133	High-performance partially aligned semiconductive single-walled carbon nanotube transistors achieved with a parallel technique. *Small*, **2013**, 9, 2960-9	11	21
132	Solution-processable organic-capped titanium oxide nanoparticle dielectrics for organic thin-film transistors. *Applied Physics Letters*, **2008**, 93, 113304	3.4	21
131	Foldable micropatterned hydrogel film made from biocompatible PCL-b-PEG-b-PCL diacrylate by UV embossing. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2006**, 76, 76-84	3.5	21
130	UV Embossing of Sub-micrometer Patterns on Biocompatible Polymeric Films Using a Focused Ion Beam Fabricated TiN Mold. *Chemistry of Materials*, **2004**, 16, 956-958	9.6	21
129	Combined Efficacy of an Antimicrobial Cationic Peptide Polymer with Conventional Antibiotics to Combat Multidrug-Resistant Pathogens. *ACS Infectious Diseases*, **2020**, 6, 1228-1237	5.5	20
128	Argon-plasma-induced ultrathin thermal grafting of thermoresponsive pNIPAm coating for contractile patterned human SMC sheet engineering. *Macromolecular Bioscience*, **2012**, 12, 937-45	5.5	20
127	Nanotopographic Carbon Nanotube Thin-Film Substrate Freezes Lateral Motion of Secretory Vesicles. *Advanced Materials*, **2009**, 21, 790-793	24	20
126	Aligned single-walled carbon nanotube patterns with nanoscale width, micron-scale length and controllable pitch. *Nanotechnology*, **2007**, 18, 455302	3.4	20
125	UV embossed polymeric chip for protein separation and identification based on capillary isoelectric focusing and MALDI-TOF-MS. *Analytical Chemistry*, **2006**, 78, 3249-56	7.8	20
124	Argon Plasma Modification of SU-8 for Very High Aspect Ratio and Dense Copper Electroforming. *Journal of the Electrochemical Society*, **2005**, 152, C716	3.9	20

123	Charge Transfer between Metal Clusters and Growing Carbon Structures in Chirality-Controlled Single-Walled Carbon Nanotube Growth. *Journal of Physical Chemistry Letters*, **2011**, 2, 1009-1014	6.4	19
122	Influence of Triton X-100 on the characteristics of carbon nanotube field-effect transistors. *Nanotechnology*, **2006**, 17, 668-673	3.4	19
121	Novel polymer composite to eliminate background matrix ions in matrix assisted laser desorption/ionization-mass spectrometry. *Analyst, The*, **2007**, 132, 1223-30	5	19
120	Thermal graft copolymerization of 4-vinyl pyridine on polyimide to improve adhesion to copper. *International Journal of Adhesion and Adhesives*, **2002**, 22, 471-475	3.4	19
119	Adhesion contact dynamics of fibroblasts on biomacromolecular surfaces. *Macromolecular Bioscience*, **2005**, 5, 1022-31	5.5	19
118	Regenerating the cell resistance of micromolded PEG hydrogels. *Lab on A Chip*, **2015**, 15, 2073-89	7.2	18
117	Precisely Structured Nitric-Oxide-Releasing Copolymer Brush Defeats Broad-Spectrum Catheter-Associated Biofilm Infections. *ACS Central Science*, **2020**, 6, 2031-2045	16.8	18
116	Synthesis and characterization of functionalized biodegradable poly(DL-lactide-co-RS-beta-malic acid). *Journal of Biomedical Materials Research - Part A*, **2008**, 87, 254-63	5.4	18
115	Electroless nickel-plated UV-embossed microstructured surface with very high aspect ratio channels. *Langmuir*, **2004**, 20, 1031-5	4	18
114	A New Model and Measurement Technique for Dynamic Shrinkage during Photopolymerization of Multi-Acrylates. *Macromolecular Rapid Communications*, **2005**, 26, 1008-1013	4.8	18
113	The Mechanisms and the Applications of Antibacterial Polymers in Surface Modification on Medical Devices. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 910	5.8	18
112	Synthesis and antitumor activity of lapathoside D and its analogs. *European Journal of Medicinal Chemistry*, **2012**, 53, 1-12	6.8	17
111	Binding Modes of Teixobactin to Lipid II: Molecular Dynamics Study. *Scientific Reports*, **2017**, 7, 17197	4.9	17
110	Gel electrophoresis using a selective radical for the separation of single-walled carbon nanotubes. *Faraday Discussions*, **2014**, 173, 351-63	3.6	17
109	Use of a chondroitin sulfate isomer as an effective and removable dispersant of single-walled carbon nanotubes. *Small*, **2011**, 7, 2758-68	11	17
108	Large area UV casting using diverse polyacrylates of microchannels separated by high aspect ratio microwalls. *Lab on A Chip*, **2005**, 5, 512-8	7.2	17
107	Metabolic Labeling Mediated Targeting and Thermal Killing of Gram-Positive Bacteria by Self-Reporting Janus Magnetic Nanoparticles. *Small*, **2021**, 17, e2006357	11	17
106	Finely dispersed single-walled carbon nanotubes for polysaccharide hydrogels. *ACS Applied Materials & Interfaces*, **2012**, 4, 4610-5	9.5	16

105	Simulation of carbon nanotube based p□ junction diodes. *Carbon*, **2006**, 44, 3087-3090	10.4	16
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