Mary B Chan-Park

List of Publications by Year in Descending Order

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	Polymers as advanced antibacterial and antibiofilm agents for direct and combination therapies.. *Chemical Science*, **2022**, 13, 345-364	9.4	5
265	Caging Cationic Polymer Brush Coated Plasmonic Nanostructures for Traceable Selective Antimicrobial Activities.. *Macromolecular Rapid Communications*, **2022**, e2100812	4.8	0
264	Robust non-toxic macroscale beads with antibacterial and contaminant scavenging properties for aquaculture. *Aquaculture*, **2022**, 738442	4.4	
263	Enzyme- and Relative Humidity-Responsive Antimicrobial Fibers for Active Food Packaging. *ACS Applied Materials & Interfaces*, **2021**, 13, 50298-50308	9.5	5
262	Synthesis of dimeric and tetrameric trithiomannoside clusters through convenient photoinitiated thiol-ene click protocol for efficient inhibition of gram-negative bacteria. *Journal of Carbohydrate Chemistry*, **2021**, 40, 83-96	1.7	
261	DNA-derived nanostructures selectively capture gram-positive bacteria. *Drug Delivery and Translational Research*, **2021**, 11, 1438-1450	6.2	0
260	Cyanine-Dyad Molecular Probe for the Simultaneous Profiling of the Evolution of Multiple Radical Species During Bacterial Infections. *Angewandte Chemie*, **2021**, 133, 17037-17042	3.6	2
259	Cyanine-Dyad Molecular Probe for the Simultaneous Profiling of the Evolution of Multiple Radical Species During Bacterial Infections. *Angewandte Chemie - International Edition*, **2021**, 60, 16900-16905	16.4	12
258	Mixed-charge pseudo-zwitterionic copolymer brush as broad spectrum antibiofilm coating. *Biomaterials*, **2021**, 273, 120794	15.6	7
257	High-Density Three-Dimensional Network of Covalently Linked Nitric Oxide Donors to Achieve Antibacterial and Antibiofilm Surfaces. *ACS Applied Materials & Interfaces*, **2021**, 13, 33745-33755	9.5	5
256	Metabolic Labeling Mediated Targeting and Thermal Killing of Gram-Positive Bacteria by Self-Reporting Janus Magnetic Nanoparticles. *Small*, **2021**, 17, e2006357	11	17
255	Nontoxic Antimicrobial Cationic Peptide Nanoconstructs with Bacteria-Displaceable Polymeric Counteranions. *Nano Letters*, **2021**, 21, 899-906	11.5	4
254	Antimicrobial Effect of a Novel Chitosan Derivative and Its Synergistic Effect with Antibiotics. *ACS Applied Materials & Interfaces*, **2021**, 13, 3237-3245	9.5	24
253	Nanosensor Detection of Synthetic Auxins using Corona Phase Molecular Recognition. *ACS Sensors*, **2021**, 6, 3032-3046	9.2	8
252	Antibiofilm Activity of Gallium(III) Complexed Anionic Polymers in Combination with Antibiotics. *Macromolecular Rapid Communications*, **2021**, 42, e2100255	4.8	0
251	Smart nanomicelles with bacterial infection-responsive disassembly for selective antimicrobial applications. *Biomaterials Science*, **2021**, 9, 1627-1638	7.4	3
250	Cationic Glycosylated Block Co-Ꝑeptide Acts on the Cell Wall of Gram-Positive Bacteria as Anti-biofilm Agents.. *ACS Applied Bio Materials*, **2021**, 4, 3749-3761	4.1	3

249	Precisely Structured Nitric-Oxide-Releasing Copolymer Brush Defeats Broad-Spectrum Catheter-Associated Biofilm Infections. *ACS Central Science*, **2020**, 6, 2031-2045	16.8	18
248	Hierarchical Porous Carbon for High-Performance Capacitive Desalination of Brackish Water. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 9291-9300	8.3	11
247	Highly selective detection of an organophosphorus pesticide, methyl parathion, using Ag□nO□WCNT based field-effect transistors. *Journal of Materials Chemistry C*, **2020**, 8, 8864-8875	7.1	9
246	Adapts to Antimicrobial Conjugated Oligoelectrolytes by Lipid Rearrangement and Differential Expression of Membrane Stress Response Genes. *Frontiers in Microbiology*, **2020**, 11, 155	5.7	2
245	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
244	Fast-Bactericidal Effect of Polyion Complex Nanoparticles on Gram-Negative Bacteria. *ACS Applied Nano Materials*, **2020**, 3, 2654-2664	5.6	5
243	Synthetic biohybrid peptidoglycan oligomers enable pan-bacteria-specific labeling and imaging: and. *Chemical Science*, **2020**, 11, 3171-3179	9.4	4
242	Biguanide-Derived Polymeric Nanoparticles Kill MRSA Biofilm and Suppress Infection. *ACS Applied Materials & Interfaces*, **2020**, 12, 21231-21241	9.5	26
241	A Glycosylated Cationic Block Poly(□peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gram-Negative Bacteria. *Angewandte Chemie*, **2020**, 132, 6886-6893	3.6	3
240	Designer broad-spectrum polyimidazolium antibiotics. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31376-31385	11.5	12
239	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
238	Development of Biodegradable and Antimicrobial Electrospun Zein Fibers for Food Packaging. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 15354-15365	8.3	30
237	Functional Polymers and Polymer-Dye Composites for Food Sensing. *Macromolecular Rapid Communications*, **2020**, 41, e2000279	4.8	2
236	Novel Antimicrobial Coating on Silicone Contact Lens Using Glycidyl Methacrylate and Polyethyleneimine Based Polymers. *Macromolecular Rapid Communications*, **2020**, 41, e2000175	4.8	7
235	Multifunctional Glyco-Nanosheets to Eradicate Drug-Resistant Bacteria on Wounds. *Advanced Healthcare Materials*, **2020**, 9, e2000265	10.1	15
234	Real-time detection of wound-induced HO signalling waves in plants with optical nanosensors. *Nature Plants*, **2020**, 6, 404-415	11.5	78
233	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
232	Enantiomeric glycosylated cationic block co-beta-peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. *Nature Communications*, **2019**, 10, 4792	17.4	53

231	Measuring the Accessible Surface Area within the Nanoparticle Corona Using Molecular Probe Adsorption. *Nano Letters*, **2019**, 19, 7712-7724	11.5	12
230	Synthesis of epoxidized poly(ester carbonate)-b-polyimide-b-poly(ester carbonate): reactive single-walled carbon nanotube dispersants enable synergistic reinforcement around multi-walled nanotube-grafted carbon fibers. *Polymer Chemistry*, **2019**, 10, 1324-1334	4.9	3
229	Glycosylated Copper Sulfide Nanocrystals for Targeted Photokilling of Bacteria in the Near-Infrared II Window. *Advanced Therapeutics*, **2019**, 2, 1900052	4.9	5
228	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
227	The Necessity of d-Thr in the New Antibiotic Teixobactin: A Molecular Dynamics Study. *Journal of Chemical Information and Modeling*, **2019**, 59, 1575-1583	6.1	2
226	Antimicrobial Peptide-Reduced Gold Nanoclusters with Charge-Reversal Moieties for Bacterial Targeting and Imaging. *Biomacromolecules*, **2019**, 20, 2922-2933	6.9	40
225	Synthesis of Antibacterial Glycosylated Polycaprolactones Bearing Imidazoliums with Reduced Hemolytic Activity. *Biomacromolecules*, **2019**, 20, 949-958	6.9	25
224	Chitosan-Based Peptidopolysaccharides as Cationic Antimicrobial Agents and Antibacterial Coatings. *Biomacromolecules*, **2018**, 19, 2156-2165	6.9	73
223	Supramolecular self-assembly of poly(ethylene glycol)-b-poly(l-lysine) and EDTA into nanofibers and their synergistic inhibition of Escherichia coli proliferation. *Materials Letters*, **2018**, 223, 69-72	3.3	9
222	Nacre Mimetic with Embedded Silver Nanowire for Resistive Heating. *ACS Applied Nano Materials*, **2018**, 1, 940-952	5.6	12
221	Magnetic nanochain integrated microfluidic biochips. *Nature Communications*, **2018**, 9, 1743	17.4	60
220	Raman-encoded, multivalent glycan-nanoconjugates for traceable specific binding and killing of bacteria. *Biomaterials Science*, **2018**, 6, 1339-1346	7.4	13
219	Membrane adaptation limitations in underlie sensitivity and the inability to develop significant resistance to conjugated oligoelectrolytes.. *RSC Advances*, **2018**, 8, 10284-10293	3.7	10
218	Block Copolymer Nanoparticles Remove Biofilms of Drug-Resistant Gram-Positive Bacteria by Nanoscale Bacterial Debridement. *Nano Letters*, **2018**, 18, 4180-4187	11.5	81
217	Oxadiazabicyclooctenone as a versatile monomer for the construction of pH sensitive functional polymers via ROMP. *Polymer Chemistry*, **2018**, 9, 372-377	4.9	14
216	Zwitterionic Polymer Modified Porous Carbon for High-Performance and Antifouling Capacitive Desalination. *ACS Applied Materials & Interfaces*, **2018**, 10, 33564-33573	9.5	16
215	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
214	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

213	Using Diphenylphosphoryl Azide (DPPA) for the Facile Synthesis of Biodegradable Antiseptic Random Copolypeptides. *Macromolecular Rapid Communications*, **2017**, 38, 1600601	4.8	5
212	Increasing bacterial affinity and cytocompatibility with four-arm star glycopolymers and antimicrobial □polylysine. *Polymer Chemistry*, **2017**, 8, 3364-3373	4.9	55
211	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
210	Synthesis of polycaprolactone-polyimide-polycaprolactone triblock copolymers via a 2-step sequential copolymerization and their application as carbon nanotube dispersants. *Polymer Chemistry*, **2017**, 8, 674-681	4.9	13
209	A minimalist approach to stereoselective glycosylation with unprotected donors. *Nature Communications*, **2017**, 8, 1146	17.4	21
208	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
207	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
206	Binding Modes of Teixobactin to Lipid II: Molecular Dynamics Study. *Scientific Reports*, **2017**, 7, 17197	4.9	17
205	Conjugation of Polyphosphoester and Antimicrobial Peptide for Enhanced Bactericidal Activity and Biocompatibility. *Biomacromolecules*, **2016**, 17, 4037-4044	6.9	36
204	Application of Chemical Force Microscopy for Finding Selective Functional Groups for Discriminating Different Electronic Type Single-Walled Carbon Nanotubes. *ACS Applied Materials & Interfaces*, **2016**, 8, 23338-47	9.5	3
203	Modulating Antimicrobial Activity and Mammalian Cell Biocompatibility with Glucosamine-Functionalized Star Polymers. *Biomacromolecules*, **2016**, 17, 1170-8	6.9	58
202	Selective Surface Charge Sign Reversal on Metallic Carbon Nanotubes for Facile Ultrahigh Purity Nanotube Sorting. *ACS Nano*, **2016**, 10, 3222-32	16.7	41
201	Cationic polycarbonate-grafted superparamagnetic nanoparticles with synergistic dual-modality antimicrobial activity. *Biomaterials Science*, **2016**, 4, 871-9	7.4	38
200	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
199	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
198	Biomaterials patterned with discontinuous microwalls for vascular smooth muscle cell culture: biodegradable small diameter vascular grafts and stable cell culture substrates. *Journal of Biomaterials Science, Polymer Edition*, **2016**, 27, 1477-94	3.5	5
197	Surface enhanced Raman scattering by graphene-nanosheet-gapped plasmonic nanoparticle arrays for multiplexed DNA detection. *Nanoscale*, **2015**, 7, 12606-13	7.7	46
196	Carbon Nanotube Driver Circuit for 6 □6 Organic Light Emitting Diode Display. *Scientific Reports*, **2015**, 5, 11755	4.9	38

195	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
194	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
193	Regenerating the cell resistance of micromolded PEG hydrogels. *Lab on A Chip*, **2015**, 15, 2073-89	7.2	18
192	Modified chitosan emulsifiers: small compositional changes produce vastly different high internal phase emulsion types. *Journal of Materials Chemistry B*, **2015**, 3, 4118-4122	7.3	15
191	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
190	Injectable, interconnected, high-porosity macroporous biocompatible gelatin scaffolds made by surfactant-free emulsion templating. *Macromolecular Rapid Communications*, **2015**, 36, 364-72	4.8	40
189	Reducing graphene oxide with a modified Birch reaction. *RSC Advances*, **2015**, 5, 11124-11127	3.7	6
188	Development of high refractive ZnS/PVP/PDMAA hydrogel nanocomposites for artificial cornea implants. *Acta Biomaterialia*, **2014**, 10, 1167-76	10.8	35
187	Electronic properties of conjugated polyelectrolyte/single-walled carbon nanotube composites. *Advanced Materials*, **2014**, 26, 4697-703	24	10
186	High internal phase emulsion templating with self-emulsifying and thermoresponsive chitosan-graft-PNIPAM-graft-oligoproline. *Biomacromolecules*, **2014**, 15, 1777-87	6.9	47
185	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
184	Combining cell sheet technology and electrospun scaffolding for engineered tubular, aligned, and contractile blood vessels. *Biomaterials*, **2014**, 35, 2713-9	15.6	83
183	Solution-processed flexible transparent conductors based on carbon nanotubes and silver grid hybrid films. *Nanoscale*, **2014**, 6, 4560-5	7.7	22
182	Gel electrophoresis using a selective radical for the separation of single-walled carbon nanotubes. *Faraday Discussions*, **2014**, 173, 351-63	3.6	17
181	Collective cell traction force analysis on aligned smooth muscle cell sheet between three-dimensional microwalls. *Interface Focus*, **2014**, 4, 20130056	3.9	9
180	Direct intermolecular force measurements between functional groups and individual metallic or semiconducting single-walled carbon nanotubes. *Small*, **2014**, 10, 750-7	11	6
179	Enhanced ex vivo expansion of adult mesenchymal stem cells by fetal mesenchymal stem cell ECM. *Biomaterials*, **2014**, 35, 4046-57	15.6	93
178	Development of optically transparent ZnS/poly(vinylpyrrolidone) nanocomposite films with high refractive indices and high Abbe numbers. *Journal of Applied Polymer Science*, **2013**, 129, 1793-1798	2.9	10

177	In Situ Charge-Transfer-Induced Transition from Metallic to Semiconducting Single-Walled Carbon Nanotubes. *Chemistry of Materials*, **2013**, 25, 4464-4470	9.6	7
176	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
175	High-strength carbon nanotube buckypaper composites as applied to free-standing electrodes for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 4057	13	69
174	Polymer removal from electronic grade single-walled carbon nanotubes after gel electrophoresis. *Journal of Materials Chemistry C*, **2013**, 1, 6813	7.1	6
173	High-performance partially aligned semiconductive single-walled carbon nanotube transistors achieved with a parallel technique. *Small*, **2013**, 9, 2960-9	11	21
172	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
171	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
170	Influence of contact height on the performance of vertically aligned carbon nanotube field-effect transistors. *Nanoscale*, **2013**, 5, 2476-81	7.7	3
169	High water content hydrogel with super high refractive index. *Macromolecular Bioscience*, **2013**, 13, 1485-91	5.5	13
168	Synthesis and antitumor activity of lapathoside D and its analogs. *European Journal of Medicinal Chemistry*, **2012**, 53, 1-12	6.8	17
167	Supercapacitor electrode based on three-dimensional graphene□polyaniline hybrid. *Materials Chemistry and Physics*, **2012**, 134, 576-580	4.4	116
166	All-printed carbon nanotube finFETs on plastic substrates for high-performance flexible electronics. *Advanced Materials*, **2012**, 24, 358-61	24	35
165	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
164	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
163	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
162	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
161	Finely dispersed single-walled carbon nanotubes for polysaccharide hydrogels. *ACS Applied Materials & Interfaces*, **2012**, 4, 4610-5	9.5	16
160	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

159	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
158	3D graphene-cobalt oxide electrode for high-performance supercapacitor and enzymeless glucose detection. *ACS Nano*, **2012**, 6, 3206-13	16.7	1371
157	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
156	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
155	High-performance printed carbon nanotube thin-film transistors array fabricated by a nonlithography technique using hafnium oxide passivation layer and mask. *ACS Applied Materials & Interfaces*, **2012**, 4, 7047-54	9.5	13
154	Mild Bromination-Assisted Density-Gradient Ultracentrifugation to Sort Single-Walled Carbon Nanotubes by Metallicity. *Journal of Physical Chemistry C*, **2012**, 116, 23027-23035	3.8	3
153	High-performance inkjet printed carbon nanotube thin film transistors with high-k HfO2 dielectric on plastic substrate. *Small*, **2012**, 8, 2941-7	11	25
152	Template-free synthesis of large anisotropic gold nanostructures on reduced graphene oxide. *Nanoscale*, **2012**, 4, 3055-9	7.7	24
151	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
150	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
149	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
148	Cationic peptidopolysaccharides show excellent broad-spectrum antimicrobial activities and high selectivity. *Advanced Materials*, **2012**, 24, 4130-7	24	193
147	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
146	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
145	On-chip diameter-dependent conversion of metallic to semiconducting single-walled carbon nanotubes by immersion in 2-ethylanthraquinone. *RSC Advances*, **2012**, 2, 1275-1281	3.7	4
144	Biomechanical study of the edge outgrowth phenomenon of encapsulated chondrocytic isogenous groups in the surface layer of hydrogel scaffolds for cartilage tissue engineering. *Acta Biomaterialia* , **2012**, 8, 244-52	10.8	15
143	Resonance energy transfer (RET)-Induced intermolecular pairing force: a tunable weak interaction and its application in SWNT separation. *Journal of Physical Chemistry A*, **2011**, 115, 8155-66	2.8	7
142	Magnetism in oxidized graphenes with hydroxyl groups. *Nanotechnology*, **2011**, 22, 105702	3.4	33

141	Ethanol-assisted graphene oxide-based thin film formation at pentane-water interface. *Langmuir*, **2011**, 27, 9174-81	4	66
140	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. *Energy and Environmental Science*, **2011**, 4, 4220	35.4	105
139	Covalent immobilization of nisin on multi-walled carbon nanotubes: superior antimicrobial and anti-biofilm properties. *Nanoscale*, **2011**, 3, 1874-80	7.7	92
138	A polycationic antimicrobial and biocompatible hydrogel with microbe membrane suctioning ability. *Nature Materials*, **2011**, 10, 149-56	27	588
137	The formation of a carbon nanotube–graphene oxide core–shell structure and its possible applications. *Carbon*, **2011**, 49, 5071-5078	10.4	118
136	A graphene nanoribbon network and its biosensing application. *Nanoscale*, **2011**, 3, 5156-60	7.7	72
135	Hollow fiber membrane decorated with Ag/MWNTs: toward effective water disinfection and biofouling control. *ACS Nano*, **2011**, 5, 10033-40	16.7	193
134	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
133	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
132	Separation of single-walled carbon nanotubes with aromatic group functionalized polymethacrylates and building blocks contribution to the enrichment. *Journal of Polymer Science, Part B: Polymer Physics*, **2011**, 49, 949-960	2.6	3
131	Self-aligned sub-10-nm nanogap electrode array for large-scale integration. *Small*, **2011**, 7, 2195-200	11	7
130	Use of a chondroitin sulfate isomer as an effective and removable dispersant of single-walled carbon nanotubes. *Small*, **2011**, 7, 2758-68	11	17
129	Degradable Conjugated Polymers: Synthesis and Applications in Enrichment of Semiconducting Single-Walled Carbon Nanotubes. *Advanced Functional Materials*, **2011**, 21, 1643-1651	15.6	60
128	Low-Cost and Ultra-Strong p-Type Doping of Carbon Nanotube Films by a Piranha Mixture. *European Journal of Inorganic Chemistry*, **2011**, 2011, 4182-4186	2.3	10
127	Aligned 3D human aortic smooth muscle tissue via layer by layer technique inside microchannels with novel combination of collagen and oxidized alginate hydrogel. *Journal of Biomedical Materials Research - Part A*, **2011**, 98, 235-44	5.4	11
126	A micropatterning technique to fabricate organic thin-film transistors on various substrates. *Journal of Materials Chemistry*, **2011**, 21, 16184		7
125	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
124	Mobility Enhancement in Carbon Nanotube Transistors by Screening Charge Impurity with Silica Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 6975-6979	3.8	14

123	Sorting of Single-Walled Carbon Nanotubes Based on Metallicity by Selective Precipitation with Polyvinylpyrrolidone. *Journal of Physical Chemistry C*, **2011**, 115, 5199-5206	3.8	12
122	Adhesive-free transfer of gold patterns to PDMS-based nanocomposite dielectric for printed high-performance organic thin-film transistors. *ACS Applied Materials & Interfaces*, **2011**, 3, 1880-6	9.5	14
121	A photopolymerized antimicrobial hydrogel coating derived from epsilon-poly-L-lysine. *Biomaterials* , **2011**, 32, 2704-12	15.6	173
120	One-step growth of graphene–carbon nanotube hybrid materials by chemical vapor deposition. *Carbon*, **2011**, 49, 2944-2949	10.4	162
119	The molecular basis of distinct aggregation pathways of islet amyloid polypeptide. *Journal of Biological Chemistry*, **2011**, 286, 6291-300	5.4	94
118	Solution-processable random carbon nanotube networks for thin-film transistors **2011**,		1
117	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
116	Spatially Controlled Oxygen Inhibition of Acrylate Photopolymerization as a New Lithography Method for High-Performance Organic Thin-Film Transistors. *Chemistry of Materials*, **2010**, 22, 2341-2348	9.6	11
115	Organic Thin-Film Transistors Processed from Relatively Nontoxic, Environmentally Friendlier Solvents. *Chemistry of Materials*, **2010**, 22, 5747-5753	9.6	27
114	Selective Small-Diameter Metallic Single-Walled Carbon Nanotube Removal by Mere Standing with Anthraquinone and Application to a Field-Effect Transistor. *Journal of Physical Chemistry C*, **2010**, 114, 21035-21041	3.8	12
113	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
112	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
111	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
110	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
109	Effect of particle shape on phagocytosis of CdTe quantum dot–cystine composites. *MedChemComm* , **2010**, 1, 84	5	39
108	Aggregation-Dependent Photoluminescence Sidebands in Single-Walled Carbon Nanotube. *Journal of Physical Chemistry C*, **2010**, 114, 6704-6711	3.8	10
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