Mary B Chan-Park

List of Publications by Year
in descending order

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270 papers	15,520 citations	20817 60 h-index	22166 113 g-index

273 all docs	273 docs citations	273 times ranked	22186 citing authors

#	Article	IF	Citations
1	3D Grapheneâ€“Cobalt Oxide Electrode for High-Performance Supercapacitor and Enzymeless Glucose Detection. ACS Nano, 2012, 6, 3206-3213.	14.6	1,510
2	Single-crystalline NiCo2O4 nanoneedle arrays grown on conductive substrates as binder-free electrodes for high-performance supercapacitors. Energy and Environmental Science, 2012, 5, 9453.	30.8	754
3	A polycationic antimicrobial and biocompatible hydrogel with microbe membrane suctioningÂability. Nature Materials, 2011, 10, 149-156.	27.5	701
4	Macroporous and Monolithic Anode Based on Polyaniline Hybridized Three-Dimensional Graphene for High-Performance Microbial Fuel Cells. ACS Nano, 2012, 6, 2394-2400.	14.6	520
5	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.	4.1	471
6	Hybrid structure of zinc oxide nanorods and three dimensional graphene foam for supercapacitor and electrochemical sensor applications. RSC Advances, 2012, 2, 4364.	3.6	285
7	Hydrogel based on interpenetrating polymer networks of dextran and gelatin for vascular tissue engineering. Biomaterials, 2009, 30, 196-207.	11.4	240
8	Cationic Peptidopolysaccharides Show Excellent Broadâ€Spectrum Antimicrobial Activities and High Selectivity. Advanced Materials, 2012, 24, 4130-4137.	21.0	226
9	A biomimetic hydrogel based on methacrylated dextran-graft-lysine and gelatin for 3D smooth muscle cell culture. Biomaterials, 2010, 31, 1158-1170.	11.4	221
10	Hollow Fiber Membrane Decorated with Ag/MWNTs: Toward Effective Water Disinfection and Biofouling Control. ACS Nano, 2011, 5, 10033-10040.	14.6	217
11	A photopolymerized antimicrobial hydrogel coating derived from epsilon-poly-l-lysine. Biomaterials, 2011, 32, 2704-2712.	11.4	216
12	Synthesis of a MnO2â€“graphene foam hybrid with controlled MnO2 particle shape and its use as a supercapacitor electrode. Carbon, 2012, 50, 4865-4870.	10.3	214
13	Synthesis of grapheneâ€“carbon nanotube hybrid foam and its use as a novel three-dimensional electrode for electrochemical sensing. Journal of Materials Chemistry, 2012, 22, 17044.	6.7	197
14	Esophageal epithelium regeneration on fibronectin grafted poly(l-lactide-co-caprolactone) (PLLC) nanofiber scaffold. Biomaterials, 2007, 28, 861-868.	11.4	190
15	One-step growth of grapheneâ€“carbon nanotube hybrid materials by chemical vapor deposition. Carbon, 2011, 49, 2944-2949.	10.3	182
16	Advances in Carbon-Nanotube Assembly. Small, 2007, 3, 24-42.	10.0	174
17	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.	3.1	161
18	Real-time detection of wound-induced H2O2 signalling waves in plants with optical nanosensors. Nature Plants, 2020, 6, 404-415.	9.3	157

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19	High Potency and Broad-Spectrum Antimicrobial Peptides Synthesized via Ring-Opening Polymerization of Iâ±-Aminoacid-N-carboxyanhydrides. Biomacromolecules, 2010, 11, 60-67.	5.4	155
20	High-Performance Thin-Film Transistors from Solution-Processed Dithienothiophene Polymer Semiconductor Nanoparticles. Chemistry of Materials, 2008, 20, 2057-2059.	6.7	136
21	The formation of a carbon nanotubeâ€“graphene oxide coreâ€“shell structure and its possible applications. Carbon, 2011, 49, 5071-5078.	10.3	130
22	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.	8.0	126
23	Supercapacitor electrode based on three-dimensional grapheneâ€“polyaniline hybrid. Materials Chemistry and Physics, 2012, 134, 576-580.	4.0	125
24	Enhanced exÂvivo expansion of adult mesenchymal stem cells by fetal mesenchymal stem cell ECM. Biomaterials, 2014, 35, 4046-4057.	11.4	123
25	Flexible 3D Nanoporous Graphene for Desalination and Bio-decontamination of Brackish Water via Asymmetric Capacitive Deionization. ACS Applied Materials & Interfaces, 2016, 8, 25313-25325.	8.0	123
26	Biomimetic control of vascular smooth muscle cell morphology and phenotype for functional tissueâ€engineered smallâ€diameter blood vessels. Journal of Biomedical Materials Research - Part A, 2009, 88A, 1104-1121.	4.0	120
27	The aggregation behavior of O-carboxymethylchitosan in dilute aqueous solution. Colloids and Surfaces B: Biointerfaces, 2005, 43, 143-149.	5.0	119
28	Selective Synthesis of (9,8) Single Walled Carbon Nanotubes on Cobalt Incorporated TUD-1 Catalysts. Journal of the American Chemical Society, 2010, 132, 16747-16749.	13.7	119
29	How carboxylic groups improve the performance of single-walled carbon nanotube electrochemical capacitors?. Energy and Environmental Science, 2011, 4, 4220.	30.8	119
30	Block Copolymer Nanoparticles Remove Biofilms of Drug-Resistant Gram-Positive Bacteria by Nanoscale Bacterial Debridement. Nano Letters, 2018, 18, 4180-4187.	9.1	113
31	Chitosan-Based Peptidopolysaccharides as Cationic Antimicrobial Agents and Antibacterial Coatings. Biomacromolecules, 2018, 19, 2156-2165.	5.4	108
32	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.	6.0	105
33	Protein bonding on biodegradable poly(l-lactide-co-caprolactone) membrane for esophageal tissue engineering. Biomaterials, 2006, 27, 68-78.	11.4	105
34	The Molecular Basis of Distinct Aggregation Pathways of Islet Amyloid Polypeptide. Journal of Biological Chemistry, 2011, 286, 6291-6300.	3.4	104
35	Individually Dispersing Single-Walled Carbon Nanotubes with Novel Neutral pH Water-Soluble Chitosan Derivatives. Journal of Physical Chemistry C, 2008, 112, 7579-7587.	3.1	102
36	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.	30.8	102

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37	Combining cell sheet technology and electrospun scaffolding for engineered tubular, aligned, and contractile blood vessels. Biomaterials, 2014, 35, 2713-2719.	11.4	101
38	Covalent immobilization of nisin on multi-walled carbon nanotubes: superior antimicrobial and anti-biofilm properties. Nanoscale, 2011, 3, 1874.	5.6	100
39	High-Performance Capacitive Deionization Disinfection of Water with Graphene Oxide-graft-Quaternized Chitosan Nanohybrid Electrode Coating. ACS Nano, 2015, 9, 10142-57.	14.6	95
40	A Novel Polyimide Dispersing Matrix for Highly Electrically Conductive Solution-Cast Carbon Nanotube-Based Composite. Chemistry of Materials, 2011, 23, 4149-4157.	6.7	94
41	Magnetic nanochain integrated microfluidic biochips. Nature Communications, 2018, 9, 1743.	12.8	94
42	High capacitive performance of flexible and binder-free grapheneâ€“polypyrrole composite membrane based on in situ reduction of graphene oxide and self-assembly. Nanoscale, 2013, 5, 9860.	5.6	93
43	In Vivo Anti-Biofilm and Anti-Bacterial Non-Leachable Coating Thermally Polymerized on Cylindrical Catheter. ACS Applied Materials & Interfaces, 2017, 9, 36269-36280.	8.0	93
44	The Mechanisms and the Applications of Antibacterial Polymers in Surface Modification on Medical Devices. Frontiers in Bioengineering and Biotechnology, 2020, 8, 910.	4.1	92
45	Enantiomeric glycosylated cationic block co-beta-peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. Nature Communications, 2019, 10, 4792.	12.8	88
46	Fabrication of High Aspect Ratio Poly(ethylene glycol)-Containing Microstructures by UV Embossing. Langmuir, 2003, 19, 4371-4380.	3.5	86
47	Effect of argon-plasma treatment on proliferation of human-skin-derived fibroblast on chitosan membranein vitro. Journal of Biomedical Materials Research - Part A, 2005, 73A, 264-274.	4.0	85
48	High-strength carbon nanotube buckypaper composites as applied to free-standing electrodes for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 4057.	10.3	83
49	Modulating Antimicrobial Activity and Mammalian Cell Biocompatibility with Glucosamine-Functionalized Star Polymers. Biomacromolecules, 2016, 17, 1170-1178.	5.4	82
50	Three-Dimensional Microchannels in Biodegradable Polymeric Films for Control Orientation and Phenotype of Vascular Smooth Muscle Cells. Tissue Engineering, 2006, 12, 2229-2240.	4.6	81
51	A graphene nanoribbon network and its biosensing application. Nanoscale, 2011, 3, 5156.	5.6	81
52	Epoxy Composite Fibers Reinforced with Aligned Single-Walled Carbon Nanotubes Functionalized with Generation 0â^2 Dendritic Poly(amidoamine). Chemistry of Materials, 2009, 21, 1471-1479.	6.7	75
53	Polymers as advanced antibacterial and antibiofilm agents for direct and combination therapies. Chemical Science, 2022, 13, 345-364.	7.4	74
54	Ethanol-Assisted Graphene Oxide-Based Thin Film Formation at Pentaneâ€“Water Interface. Langmuir, 2011, 27, 9174-9181.	3.5	73

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55	Increasing bacterial affinity and cytocompatibility with four-arm star glycopolymers and antimicrobial Î±-polylysine. Polymer Chemistry, 2017, 8, 3364-3373.	3.9	67
56	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.	8.0	67
57	Degradable Conjugated Polymers: Synthesis and Applications in Enrichment of Semiconducting Singleâ€Walled Carbon Nanotubes. Advanced Functional Materials, 2011, 21, 1643-1651.	14.9	66
58	Toward High-Performance Solution-Processed Carbon Nanotube Network Transistors by Removing Nanotube Bundles. Journal of Physical Chemistry C, 2008, 112, 12089-12091.	3.1	64
59	Novel short antibacterial and antifungal peptides with low cytotoxicity: Efficacy and action mechanisms. Biochemical and Biophysical Research Communications, 2010, 398, 594-600.	2.1	64
60	Development of Biodegradable and Antimicrobial Electrospun Zein Fibers for Food Packaging. ACS Sustainable Chemistry and Engineering, 2020, 8, 15354-15365.	6.7	63
61	A Glycosylated Cationic Block Poly(Î²â€peptide) Reverses Intrinsic Antibiotic Resistance in All ESKAPE Gramâ€Negative Bacteria. Angewandte Chemie - International Edition, 2020, 59, 6819-6826.	13.8	63
62	Three-Dimensional Macroporous Graphene Foam Filled with Mesoporous Polyaniline Network for High Areal Capacitance. ACS Sustainable Chemistry and Engineering, 2014, 2, 2291-2296.	6.7	62
63	Regulating orientation and phenotype of primary vascular smooth muscle cells by biodegradable films patterned with arrays of microchannels and discontinuous microwalls. Biomaterials, 2010, 31, 6228-6238.	11.4	61
64	Antimicrobial Peptide-Reduced Gold Nanoclusters with Charge-Reversal Moieties for Bacterial Targeting and Imaging. Biomacromolecules, 2019, 20, 2922-2933.	5.4	59
65	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.	7.8	58
66	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, 2771-2774.	2.6	57
67	High Internal Phase Emulsion Templating with Self-Emulsifying and Thermoresponsive Chitosan-graft-PNIPAM-graft-Oligoproline. Biomacromolecules, 2014, 15, 1777-1787.	5.4	57
68	Antimicrobial Effect of a Novel Chitosan Derivative and Its Synergistic Effect with Antibiotics. ACS Applied Materials & Interfaces, 2021, 13, 3237-3245.	8.0	57
69	Energy Transfer from Photo-Excited Fluorene Polymers to Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 14946-14952.	3.1	54
70	Surface enhanced Raman scattering by graphene-nanosheet-gapped plasmonic nanoparticle arrays for multiplexed DNA detection. Nanoscale, 2015, 7, 12606-12613.	5.6	54
71	Injectable, Interconnected, Highâ€Porosity Macroporous Biocompatible Gelatin Scaffolds Made by Surfactantâ€Free Emulsion Templating. Macromolecular Rapid Communications, 2015, 36, 364-372.	3.9	53
72	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.	6.7	52

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73	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.	5.4	51
74	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.	8.0	51
75	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.	2.9	51
76	Solutionâ€Processable Carbon Nanotubes for Semiconducting Thinâ€Film Transistor Devices. Advanced Materials, 2010, 22, 1278-1282.	21.0	50
77	Selective Surface Charge Sign Reversal on Metallic Carbon Nanotubes for Facile Ultrahigh Purity Nanotube Sorting. ACS Nano, 2016, 10, 3222-3232.	14.6	49
78	CF4Plasma Treatment of Poly(dimethylsiloxane): Effect of Fillers and Its Application to High-Aspect-Ratio UV Embossing. Langmuir, 2005, 21, 8905-8912.	3.5	48
79	High Refractive Index Inorganicâ€“Organic Interpenetrating Polymer Network (IPN) Hydrogel Nanocomposite toward Artificial Cornea Implants. ACS Macro Letters, 2012, 1, 876-881.	4.8	48
80	Cyanineâ€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.	13.8	48
81	Systematic studies of covalent functionalization of carbon nanotubes via argon plasma-assisted UV grafting. Nanotechnology, 2007, 18, 115712.	2.6	46
82	Solution-Processable Barium Titanate and Strontium Titanate Nanoparticle Dielectrics for Low-Voltage Organic Thin-Film Transistors. Chemistry of Materials, 2009, 21, 3153-3161.	6.7	45
83	Interaction between O-carboxymethylchitosan and dipalmitoyl-sn-glycero-3-phosphocholine bilayer. Biomaterials, 2005, 26, 6873-6879.	11.4	44
84	Semiconductive Polymers Containing Dithieno[3,2-b:2â€²,3â€²-d]pyrrole for Organic Thin-Film Transistors. Macromolecules, 2008, 41, 8953-8955.	4.8	44
85	Effect of particle shape on phagocytosis of CdTe quantum dotâ€“cystine composites. MedChemComm, 2010, 1, 84.	3.4	44
86	Nitrogenâ€Doped Carbon Nanotubeâ€Based Bilayer Thin Film as Transparent Counter Electrode for Dyeâ€Sensitized Solar Cells (DSSCs). Chemistry - an Asian Journal, 2012, 7, 541-545.	3.3	44
87	Biguanide-Derived Polymeric Nanoparticles Kill MRSA Biofilm and Suppress Infection In Vivo. ACS Applied Materials & Interfaces, 2020, 12, 21231-21241.	8.0	44
88	Development of high refractive ZnS/PVP/PDMAA hydrogel nanocomposites for artificial cornea implants. Acta Biomaterialia, 2014, 10, 1167-1176.	8.3	43
89	Conjugation of Polyphosphoester and Antimicrobial Peptide for Enhanced Bactericidal Activity and Biocompatibility. Biomacromolecules, 2016, 17, 4037-4044.	5.4	43
90	Enzymeless multi-sugar fuel cells with high power output based on 3D grapheneâ€“Co3O4 hybrid electrodes. Physical Chemistry Chemical Physics, 2013, 15, 9170.	2.8	42

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91	Cationic polycarbonate-grafted superparamagnetic nanoparticles with synergistic dual-modality antimicrobial activity. Biomaterials Science, 2016, 4, 871-879.	5.4	42
92	Density quantification of collagen grafted on biodegradable polyester: Its application to esophageal smooth muscle cell. Analytical Biochemistry, 2007, 363, 119-127.	2.4	41
93	Precisely Structured Nitric-Oxide-Releasing Copolymer Brush Defeats Broad-Spectrum Catheter-Associated Biofilm Infections In Vivo. ACS Central Science, 2020, 6, 2031-2045.	11.3	41
94	Combined Efficacy of an Antimicrobial Cationic Peptide Polymer with Conventional Antibiotics to Combat Multidrug-Resistant Pathogens. ACS Infectious Diseases, 2020, 6, 1228-1237.	3.8	41
95	Metabolic Labeling Mediated Targeting and Thermal Killing of Gramâ€Positive Bacteria by Selfâ€Reporting Janus Magnetic Nanoparticles. Small, 2021, 17, e2006357.	10.0	40
96	Adhesion contact dynamics of 3T3 fibroblasts on poly (lactide-co-glycolide acid) surface modified by photochemical immobilization of biomacromolecules. Biomaterials, 2006, 27, 2566-2576.	11.4	39
97	Cytocompatible Hydrogels Based on Photocrosslinkable Methacrylated Oâ€Carboxymethylchitosan with Tunable Charge: Synthesis and Characterization. Advanced Functional Materials, 2007, 17, 2139-2150.	14.9	39
98	Single-Walled Carbon Nanotube Based Real-Time Organophosphate Detector. Electroanalysis, 2007, 19, 616-619.	2.9	38
99	Carbon Nanotube Driver Circuit for 6 Ã— 6 Organic Light Emitting Diode Display. Scientific Reports, 2015, 5, 11755.	3.3	38
100	Novel Photopolymerizable Biodegradable Triblock Polymers for Tissue Engineering Scaffolds: Synthesis and Characterization. Macromolecular Bioscience, 2004, 4, 665-673.	4.1	37
101	Hydrogels Based on Dual Curable Chitosan-graft-Polyethylene Glycol-graft-Methacrylate: Application to Layer-by-Layer Cell Encapsulation. ACS Applied Materials & Interfaces, 2010, 2, 2012-2025.	8.0	37
102	Magnetism in oxidized graphenes with hydroxyl groups. Nanotechnology, 2011, 22, 105702.	2.6	37
103	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, 77B, 423-430.	3.4	36
104	Allâ€Printed Carbon Nanotube finFETs on Plastic Substrates for Highâ€Performance Flexible Electronics. Advanced Materials, 2012, 24, 358-361.	21.0	36
105	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, 5569-5581.	13.7	36
106	Synthesis of Antibacterial Glycosylated Polycaprolactones Bearing Imidazoliums with Reduced Hemolytic Activity. Biomacromolecules, 2019, 20, 949-958.	5.4	36
107	Antistick Postpassivation of High-Aspect Ratio Silicon Molds Fabricated by Deep-Reactive Ion Etching. Journal of Microelectromechanical Systems, 2006, 15, 84-93.	2.5	35
108	Exciton Dissociation in Organic Light Emitting Diodes at the Donor-Acceptor Interface. Physical Review Letters, 2007, 98, 176403.	7.8	34

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109	Hierarchical Porous Carbon for High-Performance Capacitive Desalination of Brackish Water. ACS Sustainable Chemistry and Engineering, 2020, 8, 9291-9300.	6.7	34
110	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, 75B, 193-199.	3.4	33
111	Design of Experiment for Optimization of Plasma-Polymerized Octafluorocyclobutane Coating on Very High Aspect Ratio Silicon Molds. Langmuir, 2006, 22, 10196-10203.	3.5	33
112	Solution-processable semiconducting thin-film transistors using single-walled carbon nanotubes chemically modified by organic radical initiators. Chemical Communications, 2009, , 7182.	4.1	33
113	A magnetically responsive material of single-walled carbon nanotubes functionalized with magnetic ionic liquid. Carbon, 2010, 48, 2501-2505.	10.3	33
114	Covalent cum Noncovalent Functionalizations of Carbon Nanotubes for Effective Reinforcement of a Solution Cast Composite Film. ACS Applied Materials & Interfaces, 2012, 4, 2065-2073.	8.0	33
115	Multifunctional Glycoâ€Nanosheets to Eradicate Drugâ€Resistant Bacteria on Wounds. Advanced Healthcare Materials, 2020, 9, e2000265.	7.6	33
116	Enzyme- and Relative Humidity-Responsive Antimicrobial Fibers for Active Food Packaging. ACS Applied Materials & Interfaces, 2021, 13, 50298-50308.	8.0	33
117	Nanosensor Detection of Synthetic Auxins In Planta using Corona Phase Molecular Recognition. ACS Sensors, 2021, 6, 3032-3046.	7.8	32
118	Simulation and Investigation of Factors Affecting High Aspect Ratio UV Embossing. Langmuir, 2005, 21, 2000-2007.	3.5	31
119	Organic Thin-Film Transistors Processed from Relatively Nontoxic, Environmentally Friendlier Solvents. Chemistry of Materials, 2010, 22, 5747-5753.	6.7	31
120	Impact of Endothelial Cells on 3D Cultured Smooth Muscle Cells in a Biomimetic Hydrogel. ACS Applied Materials & Interfaces, 2012, 4, 1378-1387.	8.0	31
121	TiO₂ Composing with Pristine, Metallic or Semiconducting Singleâ€Walled Carbon Nanotubes: Which Gives the Best Performance for a Dyeâ€Sensitized Solar Cell. ChemPhysChem, 2012, 13, 2566-2572.	2.1	31
122	Totally embedded hybrid thin films of carbon nanotubes and silver nanowires as flat homogenous flexible transparent conductors. Scientific Reports, 2016, 6, 38453.	3.3	31
123	Designer broad-spectrum polyimidazolium antibiotics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31376-31385.	7.1	31
124	Functionalization of carbon nanotubes by argon plasma-assisted ultraviolet grafting. Applied Physics Letters, 2005, 87, 213101.	3.3	30
125	Large-scale submicron horizontally aligned single-walled carbon nanotube surface arrays on various substrates produced by a fluidic assembly method. Nanotechnology, 2006, 17, 5696-5701.	2.6	30
126	Synthesis, Characterization, and In Vitro Degradation of a Biodegradable Photo-Cross-Linked Film from Liquid Poly(Îµ-caprolactone-co-lactide-co-glycolide) Diacrylate. Biomacromolecules, 2007, 8, 376-385.	5.4	30

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127	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, 1702-1712.	8.0	30
128	Aligned single-walled carbon nanotube patterns with nanoscale width, micron-scale length and controllable pitch. Nanotechnology, 2007, 18, 455302.	2.6	29
129	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.	3.1	29
130	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.	3.3	29
131	Ultraviolet embossing for patterning high aspect ratio polymeric microstructures. Microsystem Technologies, 2003, 9, 501-506.	2.0	28
132	Highâ€Performance Inkjet Printed Carbon Nanotube Thin Film Transistors with Highâ€k HfO₂ Dielectric on Plastic Substrate. Small, 2012, 8, 2941-2947.	10.0	28
133	Template-free synthesis of large anisotropic gold nanostructures on reduced graphene oxide. Nanoscale, 2012, 4, 3055.	5.6	28
134	Synthesis and Characterization of Functionalizable and Photopatternable Poly(Îµ-caprolactone-co-RS-Î²-malic acid). Macromolecules, 2005, 38, 8227-8234.	4.8	27
135	Synthesis and Degradation of Biodegradable Photo-Cross-Linked Poly(Î±,Î²-malic acid)-Based Hydrogel. Chemistry of Materials, 2006, 18, 3946-3955.	6.7	27
136	Transfer Printing of Submicrometer Patterns of Aligned Carbon Nanotubes onto Functionalized Electrodes. Small, 2007, 3, 616-621.	10.0	27
137	Self-assembled monolayers mediated charge injection for high performance bottom-contact poly(3,3â€²â€²â€²-didodecylquaterthiophene) thin-film transistors. Organic Electronics, 2008, 9, 936-943.	2.6	27
138	Enrichment of (8,4) Singleâ€Walled Carbon Nanotubes Through Coextraction with Heparin. Small, 2010, 6, 110-118.	10.0	27
139	A minimalist approach to stereoselective glycosylation with unprotected donors. Nature Communications, 2017, 8, 1146.	12.8	27
140	Zwitterionic Polymer Modified Porous Carbon for High-Performance and Antifouling Capacitive Desalination. ACS Applied Materials & Interfaces, 2018, 10, 33564-33573.	8.0	27
141	Addition of Î²-Malic Acid-Containing Poly(ethylene glycol) Dimethacrylate To Form Biodegradable and Biocompatible Hydrogels. Biomacromolecules, 2009, 10, 2043-2052.	5.4	26
142	Quick Layer-by-Layer Assembly of Aligned Multilayers of Vascular Smooth Muscle Cells in Deep Microchannels. Tissue Engineering, 2007, 13, 1003-1012.	4.6	25
143	Reactive Spinning of Cyanate Ester Fibers Reinforced with Aligned Aminoâ€Functionalized Single Wall Carbon Nanotubes. Advanced Functional Materials, 2008, 18, 888-897.	14.9	25
144	Solution-Prepared Hybrid-Nanoparticle Dielectrics for High-Performance Low-Voltage Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2009, 1, 2230-2236.	8.0	25

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145	Realâ€Time Nitrophenol Detection Using Singleâ€Walled Carbon Nanotube Based Devices. Electroanalysis, 2008, 20, 558-562.	2.9	24
146	Nanotopographic Carbon Nanotube Thinâ€Film Substrate Freezes Lateral Motion of Secretory Vesicles. Advanced Materials, 2009, 21, 790-793.	21.0	24
147	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, 244-252.	8.3	24
148	Mixed-charge pseudo-zwitterionic copolymer brush as broad spectrum antibiofilm coating. Biomaterials, 2021, 273, 120794.	11.4	24
149	Argonâ€Plasmaâ€Induced Ultrathin Thermal Grafting of Thermoresponsive pNIPAm Coating for Contractile Patterned Human SMC Sheet Engineering. Macromolecular Bioscience, 2012, 12, 937-945.	4.1	23
150	Synthesis and antitumor activity of lapathoside D and its analogs. European Journal of Medicinal Chemistry, 2012, 53, 1-12.	5.5	23
151	Argon Plasma Modification of SU-8 for Very High Aspect Ratio and Dense Copper Electroforming. Journal of the Electrochemical Society, 2005, 152, C716.	2.9	22
152	UV Embossed Polymeric Chip for Protein Separation and Identification Based on Capillary Isoelectric Focusing and MALDI-TOF-MS. Analytical Chemistry, 2006, 78, 3249-3256.	6.5	22
153	Solution-processable organic-capped titanium oxide nanoparticle dielectrics for organic thin-film transistors. Applied Physics Letters, 2008, 93, 113304.	3.3	22
154	Finely Dispersed Single-Walled Carbon Nanotubes for Polysaccharide Hydrogels. ACS Applied Materials & Interfaces, 2012, 4, 4610-4615.	8.0	22
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