Paula T Hammond

List of Publications by Year
in descending order

342 papers	35,574 citations	1536 106 h-index	4015 176 g-index
356 all docs	356 docs citations	356 times ranked	37626 citing authors

#	Article	IF	Citations
1	Virus-Enabled Synthesis and Assembly of Nanowires for Lithium Ion Battery Electrodes. Science, 2006, 312, 885-888.	12.6	1,756
2	Form and Function in Multilayer Assembly: New Applications at the Nanoscale. Advanced Materials, 2004, 16, 1271-1293.	21.0	1,177
3	High-power lithium batteries from functionalized carbon-nanotube electrodes. Nature Nanotechnology, 2010, 5, 531-537.	31.5	1,026
4	Carbon Nanotube/Manganese Oxide Ultrathin Film Electrodes for Electrochemical Capacitors. ACS Nano, 2010, 4, 3889-3896.	14.6	686
5	Layer-by-Layer Assembly of All Carbon Nanotube Ultrathin Films for Electrochemical Applications. Journal of the American Chemical Society, 2009, 131, 671-679.	13.7	598
6	Recent explorations in electrostatic multilayer thin film assembly. Current Opinion in Colloid and Interface Science, 1999, 4, 430-442.	7.4	474
7	The effects of polymeric nanostructure shape on drug delivery. Advanced Drug Delivery Reviews, 2011, 63, 1228-1246.	13.7	459
8	Facilitated Ion Transport in All-Solid-State Flexible Supercapacitors. ACS Nano, 2011, 5, 7205-7213.	14.6	458
9	Layer-by-Layer Nanoparticles for Systemic Codelivery of an Anticancer Drug and siRNA for Potential Triple-Negative Breast Cancer Treatment. ACS Nano, 2013, 7, 9571-9584.	14.6	448
10	Hydrogen-Bonding Layer-by-Layer-Assembled Biodegradable Polymeric Micelles as Drug Delivery Vehicles from Surfaces. ACS Nano, 2008, 2, 386-392.	14.6	435
11	Self-assembled RNA interference microsponges for efficient siRNA delivery. Nature Materials, 2012, 11, 316-322.	27.5	424
12	Plasticity of ether lipids promotes ferroptosis susceptibility and evasion. Nature, 2020, 585, 603-608.	27.8	420
13	Highly Efficient Plasmon-Enhanced Dye-Sensitized Solar Cells through Metal@Oxide Coreâ€“Shell Nanostructure. ACS Nano, 2011, 5, 7108-7116.	14.6	386
14	Virus-templated self-assembled single-walled carbon nanotubes for highly efficient electron collection in photovoltaic devices. Nature Nanotechnology, 2011, 6, 377-384.	31.5	368
15	Nanostructured carbon-based electrodes: bridging the gap between thin-film lithium-ion batteries and electrochemical capacitors. Energy and Environmental Science, 2011, 4, 1972.	30.8	346
16	High-Contrast Electrochromism and Controllable Dissolution of Assembled Prussian Blue/Polymer Nanocomposites. Advanced Functional Materials, 2004, 14, 224-232.	14.9	342
17	A Convergent Synthetic Platform for Single-Nanoparticle Combination Cancer Therapy: Ratiometric Loading and Controlled Release of Cisplatin, Doxorubicin, and Camptothecin. Journal of the American Chemical Society, 2014, 136, 5896-5899.	13.7	338
18	Layer-by-Layer Nanoparticles with a pH-Sheddable Layer for in Vivo Targeting of Tumor Hypoxia. ACS Nano, 2011, 5, 4284-4292.	14.6	315

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19	Spontaneous assembly of viruses on multilayered polymer surfaces. Nature Materials, 2006, 5, 234-240.	27.5	308
20	Effect of the degree of soft and hard segment ordering on the morphology and mechanical behavior of semicrystalline segmented polyurethanes. Polymer, 2006, 47, 3073-3082.	3.8	308
21	High-Contrast Electrochromism from Layer-By-Layer Polymer Films. Chemistry of Materials, 2003, 15, 1575-1586.	6.7	281
22	Multiple-Color Electrochromism from Layer-by-Layer-Assembled Polyaniline/Prussian Blue Nanocomposite Thin Films. Chemistry of Materials, 2004, 16, 4799-4805.	6.7	279
23	Spraying asymmetry into functional membranes layer-by-layer. Nature Materials, 2009, 8, 512-518.	27.5	279
24	Tunable Drug Release from Hydrolytically Degradable Layer-by-Layer Thin Films. Langmuir, 2005, 21, 1603-1609.	3.5	273
25	Selective Self-Organization of Colloids on Patterned Polyelectrolyte Templates. Langmuir, 2000, 16, 7825-7834.	3.5	271
26	Tissue integration of growth factor-eluting layer-by-layer polyelectrolyte multilayer coated implants. Biomaterials, 2011, 32, 1446-1453.	11.4	270
27	Mixed micelles self-assembled from block copolymers for drug delivery. Current Opinion in Colloid and Interface Science, 2011, 16, 182-194.	7.4	265
28	Layer-by-Layer Assembly of PEDOT/Polyaniline Electrochromic Devices. Advanced Materials, 2001, 13, 1455-1459.	21.0	261
29	Controlling interlayer diffusion to achieve sustained, multiagent delivery from layer-by-layer thin films. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10207-10212.	7.1	260
30	Building biomedical materials layer-by-layer. Materials Today, 2012, 15, 196-206.	14.2	257
31	Layer-by-Layer Assembled Polyaniline Nanofiber/Multiwall Carbon Nanotube Thin Film Electrodes for High-Power and High-Energy Storage Applications. ACS Nano, 2011, 5, 8552-8561.	14.6	255
32	Thin films of carbon nanotubes and chemically reduced graphenes for electrochemical micro-capacitors. Carbon, 2011, 49, 457-467.	10.3	250
33	Controlling the release of peptide antimicrobial agents from surfaces. Biomaterials, 2010, 31, 2348-2357.	11.4	249
34	Electrochemically enabled polyelectrolyte multilayer devices: from fuel cells to sensors. Soft Matter, 2007, 3, 804.	2.7	245
35	Construction of Hydrolytically-Degradable Thin Films via Layer-by-Layer Deposition of Degradable Polyelectrolytes. Journal of the American Chemical Society, 2002, 124, 13992-13993.	13.7	243
36	Polymer multilayer tattooing for enhanced DNAÂvaccination. Nature Materials, 2013, 12, 367-376.	27.5	242

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37	Highly Efficient â€œGrafting ontoâ€•a Polypeptide Backbone Using Click Chemistry. Angewandte Chemie - International Edition, 2009, 48, 9334-9338.	13.8	238
38	Redox-responsive branched-bottlebrush polymers for in vivo MRI and fluorescence imaging. Nature Communications, 2014, 5, 5460.	12.8	231
39	Enhanced efficacy of combined temozolomide and bromodomain inhibitor therapy for gliomas using targeted nanoparticles. Nature Communications, 2018, 9, 1991.	12.8	229
40	Cationic Peptidopolysaccharides Show Excellent Broadâ€Spectrum Antimicrobial Activities and High Selectivity. Advanced Materials, 2012, 24, 4130-4137.	21.0	226
41	Enhanced Isolation and Release of Circulating Tumor Cells Using Nanoparticle Binding and Ligand Exchange in a Microfluidic Chip. Journal of the American Chemical Society, 2017, 139, 2741-2749.	13.7	226
42	Vapor-Phase Polymerization of Nanofibrillar Poly(3,4-ethylenedioxythiophene) for Supercapacitors. ACS Nano, 2014, 8, 1500-1510.	14.6	217
43	Innovative Polymer Nanocomposite Electrolytes: Nanoscale Manipulation of Ion Channels by Functionalized Graphenes. ACS Nano, 2011, 5, 5167-5174.	14.6	215
44	Elastomeric Flexible Free-Standing Hydrogen-Bonded Nanoscale Assemblies. Journal of the American Chemical Society, 2005, 127, 17228-17234.	13.7	214
45	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	14.6	211
46	Exponential Growth of LBL Films with Incorporated Inorganic Sheets. Nano Letters, 2008, 8, 1762-1770.	9.1	210
47	Chemical Instability of Dimethyl Sulfoxide in Lithiumâ€“Air Batteries. Journal of Physical Chemistry Letters, 2014, 5, 2850-2856.	4.6	210
48	Tunable dual growth factor delivery from polyelectrolyte multilayer films. Biomaterials, 2011, 32, 6183-6193.	11.4	208
49	Two Component Particle Arrays on Patterned Polyelectrolyte Multilayer Templates. Advanced Materials, 2002, 14, 569.	21.0	201
50	Designer Dual Therapy Nanolayered Implant Coatings Eradicate Biofilms and Accelerate Bone Tissue Repair. ACS Nano, 2016, 10, 4441-4450.	14.6	193
51	Cartilage-penetrating nanocarriers improve delivery and efficacy of growth factor treatment of osteoarthritis. Science Translational Medicine, 2018, 10, .	12.4	183
52	Understanding the Chemical Stability of Polymers for Lithiumâ€“Air Batteries. Chemistry of Materials, 2015, 27, 550-561.	6.7	182
53	Engineering materials layerâ€byâ€layer: Challenges and opportunities in multilayer assembly. AICHE Journal, 2011, 57, 2928-2940.	3.6	179
54	Highly Ion Conductive Poly(ethylene oxide)-Based Solid Polymer Electrolytes from Hydrogen Bonding Layer-by-Layer Assembly. Langmuir, 2004, 20, 5403-5411.	3.5	177

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55	Controlling in Vivo Stability and Biodistribution in Electrostatically Assembled Nanoparticles for Systemic Delivery. Nano Letters, 2011, 11, 2096-2103.	9.1	176
56	Selfâ€Assembled Wound Dressings Silence MMPâ€9 and Improve Diabetic Wound Healing In Vivo. Advanced Materials, 2016, 28, 1809-1817.	21.0	174
57	A Nanoparticle-Based Combination Chemotherapy Delivery System for Enhanced Tumor Killing by Dynamic Rewiring of Signaling Pathways. Science Signaling, 2014, 7, ra44.	3.6	172
58	Releasable Layer-by-Layer Assembly of Stabilized Lipid Nanocapsules on Microneedles for Enhanced Transcutaneous Vaccine Delivery. ACS Nano, 2012, 6, 8041-8051.	14.6	170
59	Polyelectrolyte Multilayers for Tunable Release of Antibiotics. Biomacromolecules, 2008, 9, 1660-1668.	5.4	169
60	Layer-by-layer assembled fluorescent probes in the second near-infrared window for systemic delivery and detection of ovarian cancer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5179-5184.	7.1	166
61	Controlling Mammalian Cell Interactions on Patterned Polyelectrolyte Multilayer Surfaces. Langmuir, 2004, 20, 1362-1368.	3.5	165
62	Ionic Effects of Sodium Chloride on the Templated Deposition of Polyelectrolytes Using Layer-by-Layer Ionic Assembly. Macromolecules, 1997, 30, 7237-7244.	4.8	162
63	A Family of Hierarchically Self-Assembling Linear-Dendritic Hybrid Polymers for Highly Efficient Targeted Gene Delivery. Angewandte Chemie - International Edition, 2005, 44, 6704-6708.	13.8	162
64	Tunable Localized Surface Plasmon-Enabled Broadband Light-Harvesting Enhancement for High-Efficiency Panchromatic Dye-Sensitized Solar Cells. Nano Letters, 2013, 13, 637-642.	9.1	162
65	Bimodal Tumor-Targeting from Microenvironment Responsive Hyaluronan Layer-by-Layer (LbL) Nanoparticles. ACS Nano, 2014, 8, 8374-8382.	14.6	161
66	Layerâ€byâ€Layer Platform Technology for Smallâ€Molecule Delivery. Angewandte Chemie - International Edition, 2009, 48, 8974-8977.	13.8	160
67	The Role of Secondary Interactions in Selective Electrostatic Multilayer Deposition. Langmuir, 2000, 16, 10206-10214.	3.5	159
68	Formation of Polymer Microstructures by Selective Deposition of Polyion Multilayers Using Patterned Self-Assembled Monolayers as a Template. Macromolecules, 1995, 28, 7569-7571.	4.8	156
69	Engineering the Microfabrication of Layer-by-Layer Thin Films. Advanced Materials, 1998, 10, 1515-1519.	21.0	155
70	Layer-by-Layer-Assembled Multilayer Films for Transcutaneous Drug and Vaccine Delivery. ACS Nano, 2009, 3, 3719-3729.	14.6	154
71	Sprayâ€Layerâ€byâ€Layer Carbon Nanotube/Electrospun Fiber Electrodes for Flexible Chemiresistive Sensor Applications. Advanced Functional Materials, 2014, 24, 492-502.	14.9	148
72	Highly Reactive Multilayerâ€Assembled TiO₂ Coating on Electrospun Polymer Nanofibers. Advanced Materials, 2009, 21, 1252-1256.	21.0	147

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73	The effectiveness of the controlled release of gentamicin from polyelectrolyte multilayers in the treatment of Staphylococcus aureus infection in a rabbit bone model. Biomaterials, 2010, 31, 6019-6030.	11.4	147
74	Composite Dissolving Microneedles for Coordinated Control of Antigen and Adjuvant Delivery Kinetics in Transcutaneous Vaccination. Advanced Functional Materials, 2013, 23, 161-172.	14.9	147
75	Nanoâ€Layered Microneedles for Transcutaneous Delivery of Polymer Nanoparticles and Plasmid DNA. Advanced Materials, 2010, 22, 4851-4856.	21.0	145
76	Stamped microbattery electrodes based on self-assembled M13 viruses. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17227-17231.	7.1	144
77	Tunable Nanostructured Coating for the Capture and Selective Release of Viable Circulating Tumor Cells. Advanced Materials, 2015, 27, 1593-1599.	21.0	144
78	Controlled Cluster Size in Patterned Particle Arrays via Directed Adsorption on Confined Surfaces. Advanced Materials, 2002, 14, 572.	21.0	143
79	Fast Ion Conduction in Layer-By-Layer Polymer Films. Chemistry of Materials, 2003, 15, 1165-1173.	6.7	142
80	Multilayer Transfer Printing for Polyelectrolyte Multilayer Patterning: Direct Transfer of Layer-by-Layer Assembled Micropatterned Thin Films. Advanced Materials, 2004, 16, 520-525.	21.0	142
81	Layer-by-Layer Biomaterials for Drug Delivery. Annual Review of Biomedical Engineering, 2020, 22, 1-24.	12.3	142
82	Hydrogen-bonded multilayer of pH-responsive polymeric micelles with tannic acid for surface drug delivery. Chemical Communications, 2009, , 4194.	4.1	141
83	Enhancing humoral immunity via sustained-release implantable microneedle patch vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16473-16478.	7.1	141
84	Synthesis and Solution Properties of New Linear-Dendritic Diblock Copolymers. Macromolecules, 1998, 31, 8757-8765.	4.8	140
85	Implantable Silk Composite Microneedles for Programmable Vaccine Release Kinetics and Enhanced Immunogenicity in Transcutaneous Immunization. Advanced Healthcare Materials, 2014, 3, 47-58.	7.6	139
86	Tunable staged release of therapeutics from layer-by-layer coatings with clay interlayer barrier. Biomaterials, 2014, 35, 2507-2517.	11.4	138
87	Polymer-on-Polymer Stamping:Â Universal Approaches to Chemically Patterned Surfaces. Langmuir, 2002, 18, 2607-2615.	3.5	137
88	Controlling the Location and Spatial Extent of Nanobubbles Using Hydrophobically Nanopatterned Surfaces. Nano Letters, 2005, 5, 1751-1756.	9.1	135
89	Solid-State Photovoltaic Thin Films using TiO2, Organic Dyes, and Layer-by-Layer Polyelectrolyte Nanocomposites. Advanced Functional Materials, 2003, 13, 831-839.	14.9	131
90	Effects of Side Group Functionality and Molecular Weight on the Activity of Synthetic Antimicrobial Polypeptides. Biomacromolecules, 2011, 12, 1666-1674.	5.4	130

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91	Designing a New Generation of Proton-Exchange Membranes Using Layer-by-Layer Deposition of Polyelectrolytes. Advanced Functional Materials, 2005, 15, 945-954.	14.9	129
92	Highly Conductive, Methanol Resistant Polyelectrolyte Multilayers. Advanced Materials, 2008, 20, 1539-1543.	21.0	128
93	Electroactive controlled release thin films. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2280-2285.	7.1	128
94	Electrochemically Controlled Swelling and Mechanical Properties of a Polymer Nanocomposite. ACS Nano, 2009, 3, 2207-2216.	14.6	128
95	Adaptive growth factor delivery from a polyelectrolyte coating promotes synergistic bone tissue repair and reconstruction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12847-12852.	7.1	128
96	Hemostatic Multilayer Coatings. Advanced Materials, 2012, 24, 492-496.	21.0	127
97	Extended Release Antibacterial Layer-by-Layer Films Incorporating Linear-Dendritic Block Copolymer Micelles. Chemistry of Materials, 2007, 19, 5524-5530.	6.7	126
98	Ligandâ€Clustered â€œPatchyâ€•Nanoparticles for Modulated Cellular Uptake and In Vivo Tumor Targeting. Angewandte Chemie - International Edition, 2010, 49, 7266-7270.	13.8	125
99	Enhanced exÂvivo expansion of adult mesenchymal stem cells by fetal mesenchymal stem cell ECM. Biomaterials, 2014, 35, 4046-4057.	11.4	123
100	Graphene Multilayers as Gates for Multi-Week Sequential Release of Proteins from Surfaces. ACS Nano, 2012, 6, 81-88.	14.6	122
101	Clotting Mimicry from Robust Hemostatic Bandages Based on Self-Assembling Peptides. ACS Nano, 2015, 9, 9394-9406.	14.6	118
102	Bactericidal and virucidal ultrathin films assembled layer by layer from polycationic N-alkylated polyethylenimines and polyanions. Biomaterials, 2010, 31, 4079-4087.	11.4	112
103	Engineering nanolayered particles for modular drug delivery. Journal of Controlled Release, 2016, 240, 364-386.	9.9	112
104	Cell and fluid sampling microneedle patches for monitoring skin-resident immunity. Science Translational Medicine, 2018, 10, .	12.4	111
105	Release of a model protein from biodegradable self assembled films for surface delivery applications. Journal of Controlled Release, 2008, 131, 228-234.	9.9	110
106	Characterization of Tunable FGF-2 Releasing Polyelectrolyte Multilayers. Biomacromolecules, 2010, 11, 2053-2059.	5.4	110
107	Electrically Triggered Release of a Small Molecule Drug from a Polyelectrolyte Multilayer Coating. Chemistry of Materials, 2010, 22, 6416-6425.	6.7	109
108	Surface-Mediated Bone Tissue Morphogenesis from Tunable Nanolayered Implant Coatings. Science Translational Medicine, 2013, 5, 191ra83.	12.4	109

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109	Osteophilic Multilayer Coatings for Accelerated Bone Tissue Growth. Advanced Materials, 2012, 24, 1445-1450.	21.0	108
110	Layer-by-Layer Assembled Antisense DNA Microsponge Particles for Efficient Delivery of Cancer Therapeutics. ACS Nano, 2014, 8, 9767-9780.	14.6	107
111	The role of iodide in the formation of lithium hydroxide in lithiumâ€“oxygen batteries. Energy and Environmental Science, 2017, 10, 1828-1842.	30.8	107
112	Selective Deposition in Layer-by-Layer Assembly:Â Functional Graft Copolymers as Molecular Templates. Langmuir, 2000, 16, 8501-8509.	3.5	100
113	Effect of the Layer-by-Layer (LbL) Deposition Method on the Surface Morphology and Wetting Behavior of Hydrophobically Modified PEO and PAA LbL Films. Langmuir, 2008, 24, 7995-8000.	3.5	95
114	Nano- and Microporous Layer-by-Layer Assemblies Containing Linear Poly(ethylenimine) and Poly(acrylic acid). Macromolecules, 2008, 41, 6047-6054.	4.8	94
115	Dual Functional Polyelectrolyte Multilayer Coatings for Implants: Permanent Microbicidal Base with Controlled Release of Therapeutic Agents. Journal of the American Chemical Society, 2010, 132, 17840-17848.	13.7	94
116	Environmentally responsible fabrication of efficient perovskite solar cells from recycled car batteries. Energy and Environmental Science, 2014, 7, 3659-3665.	30.8	94
117	Particle Assembly on Patterned â€œPlus/Minusâ€•Polyelectrolyte Surfaces via Polymer-on-Polymer Stamping. Langmuir, 2002, 18, 4505-4510.	3.5	93
118	All-Star Polymer Multilayers as pH-Responsive Nanofilms. Macromolecules, 2009, 42, 368-375.	4.8	93
119	Drastically Lowered Protein Adsorption on Microbicidal Hydrophobic/Hydrophilic Polyelectrolyte Multilayers. Biomacromolecules, 2012, 13, 719-726.	5.4	93
120	Scalable Manufacture of Builtâ€toâ€Order Nanomedicine: Sprayâ€Assisted Layerâ€byâ€Layer Functionalization of PRINT Nanoparticles. Advanced Materials, 2013, 25, 4707-4713.	21.0	92
121	MAD (Multiagent Delivery) Nanolayer: Delivering Multiple Therapeutics from Hierarchically Assembled Surface Coatings. Langmuir, 2009, 25, 14086-14092.	3.5	91
122	Mechanism of inactivation of influenza viruses by immobilized hydrophobic polycations. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 61-66.	7.1	91
123	The architecture and biological performance of drug-loaded LbL nanoparticles. Biomaterials, 2013, 34, 5328-5335.	11.4	90
124	Enantiomeric glycosylated cationic block co-beta-peptides eradicate Staphylococcus aureus biofilms and antibiotic-tolerant persisters. Nature Communications, 2019, 10, 4792.	12.8	88
125	RNAiâ€Microsponges Form through Selfâ€Assembly of the Organic and Inorganic Products of Transcription. Small, 2014, 10, 1623-1633.	10.0	86
126	A Multiâ€RNAi Microsponge Platform for Simultaneous Controlled Delivery of Multiple Small Interfering RNAs. Angewandte Chemie - International Edition, 2016, 55, 3347-3351.	13.8	86

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127	Binary Targeting of siRNA to Hematologic Cancer Cells In Vivo Using Layerâ€byâ€Layer Nanoparticles. Advanced Functional Materials, 2019, 29, 1900018.	14.9	86
128	Tunable Vancomycin Releasing Surfaces for Biomedical Applications. Small, 2010, 6, 2392-2404.	10.0	85
129	Enhanced Stability of Polymeric Micelles Based on Postfunctionalized Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 662	5.4	85
130	Vaccine delivery with microneedle skin patches in nonhuman primates. Nature Biotechnology, 2013, 31, 1082-1085.	17.5	85
131	Clickable Synthetic Polypeptidesâ€"Routes to New Highly Adaptive Biomaterials. Chemistry of Materials, 2014, 26, 461-476.	6.7	84
132	Fluorescent Multiblock Ï€â€Conjugated Polymer Nanoparticles for In Vivo Tumor Targeting. Advanced Materials, 2013, 25, 4504-4510.	21.0	82
133	Rapid fabrication of thick spray-layer-by-layer carbon nanotube electrodes for high power and energy devices. Energy and Environmental Science, 2013, 6, 888.	30.8	79
134	Tumor-Targeted Gene Delivery Using Molecularly Engineered Hybrid Polymers Functionalized with a Tumor-Homing Peptide. Bioconjugate Chemistry, 2008, 19, 403-405.	3.6	78
135	Controlling Surface Mobility in Interdiffusing Polyelectrolyte Multilayers. ACS Nano, 2008, 2, 561-571.	14.6	78
136	Instability of Poly(ethylene oxide) upon Oxidation in Lithiumâ€"Air Batteries. Journal of Physical Chemistry C, 2015, 119, 6947-6955.	3.1	77
137	Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. ACS Nano, 2016, 10, 9093-9103.	14.6	77
138	The synthetic tuning of clickable pH responsive cationic polypeptides and block copolypeptides. Soft Matter, 2011, 7, 5627.	2.7	76
139	In vitro blood cell viability profiling of polymers used in molecular assembly. Scientific Reports, 2017, 7, 9481.	3.3	76
140	Factors Influencing the Interdiffusion of Weak Polycations in Multilayers. Macromolecules, 2007, 40, 9523-9528.	4.8	75
141	Tannic Acid Mediated Suppression of PNIPAAm Microgels Thermoresponsive Behavior. Macromolecules, 2011, 44, 612-621.	4.8	74
142	Spray-assisted layer-by-layer assembly on hyaluronic acid scaffolds for skin tissue engineering. Journal of Biomedical Materials Research - Part A, 2015, 103, 330-340.	4.0	74
143	Structurally Programmed Assembly of Translation Initiation Nanoplex for Superior mRNA Delivery. ACS Nano, 2017, 11, 2531-2544.	14.6	74
144	A Morphological Study of Well-Defined Smectic Side-Chain LC Block Copolymers. Macromolecules, 1999, 32, 4838-4848.	4.8	73

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145	Amphiphilic Linear-Dendritic Triblock Copolymers Composed of Poly(amidoamine) and Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Ov	3.5	75
146	Comb-Dendritic Block Copolymers as Tree-Shaped Macromolecular Amphiphiles for Nanoparticle Self-Assembly. Chemistry of Materials, 2006, 18, 3976-3984.	6.7	73
147	Multifunctional Electrospun Fabrics via Layer-by-Layer Electrostatic Assembly for Chemical and Biological Protection. Chemistry of Materials, 2010, 22, 1429-1436.	6.7	73
148	Design of multi-drug release coatings targeting infection and inflammation. Journal of Controlled Release, 2011, 155, 159-166.	9.9	72
149	Synthetic Charge-Invertible Polymer for Rapid and Complete Implantation of Layer-by-Layer Microneedle Drug Films for Enhanced Transdermal Vaccination. ACS Nano, 2018, 12, 10272-10280.	14.6	72
150	Anisotropic Structure and Transport in Self-Assembled Layered Polymerâ^'Clay Nanocomposites. Langmuir, 2007, 23, 8515-8521.	3.5	70
151	PEGâ€“Polypeptide Block Copolymers as pH-Responsive Endosome-Solubilizing Drug Nanocarriers. Molecular Pharmaceutics, 2014, 11, 2420-2430.	4.6	70
152	Biodegradable nano-films for capture and non-invasive release of circulating tumor cells. Biomaterials, 2015, 65, 93-102.	11.4	70
153	Langmuir Behavior and Ultrathin Films of New Linearâ^'Dendritic Diblock Copolymers. Langmuir, 1999, 15, 1299-1306.	3.5	69
154	Osteotropic Therapy via Targeted Layerâ€byâ€Layer Nanoparticles. Advanced Healthcare Materials, 2014, 3, 867-875.	7.6	68
155	A Combination RNAi-Chemotherapy Layer-by-Layer Nanoparticle for Systemic Targeting of KRAS/P53 with Cisplatin to Treat Nonâ€“Small Cell Lung Cancer. Clinical Cancer Research, 2017, 23, 7312-7323.	7.0	68
156	Controlling Diffusion and Exchange in Layer-by-Layer Assemblies. Macromolecules, 2007, 40, 1598-1603.	4.8	67
157	FRET-enabled biological characterization of polymeric micelles. Biomaterials, 2014, 35, 3489-3496.	11.4	67
158	Highly Scalable, Closedâ€Loop Synthesis of Drugâ€Loaded, Layerâ€byâ€Layer Nanoparticles. Advanced Functional Materials, 2016, 26, 991-1003.	14.9	67
159	Catechol-Modified Polyions in Layer-by-Layer Assembly to Enhance Stability and Sustain Release of Biomolecules: A Bioinspired Approach. Chemistry of Materials, 2011, 23, 5349-5357.	6.7	65
160	Highly stable, ligand-clustered â€œpatchyâ€•micelle nanocarriers for systemic tumor targeting. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 201-209.	3.3	65
161	Release of vancomycin from multilayer coated absorbent gelatin sponges. Journal of Controlled Release, 2012, 157, 64-71.	9.9	65
162	Tuning Nanoparticle Interactions with Ovarian Cancer through Layer-by-Layer Modification of Surface Chemistry. ACS Nano, 2020, 14, 2224-2237.	14.6	64

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163	Genetically Defined Syngeneic Mouse Models of Ovarian Cancer as Tools for the Discovery of Combination Immunotherapy. Cancer Discovery, 2021, 11, 384-407.	9.4	64
164	Controlling Cell Attachment Selectively onto Biological Polymerâ˜'Colloid Templates Using Polymer-on-Polymer Stamping. Langmuir, 2004, 20, 7215-7222.	3.5	62
165	Phase Behavior of New Side Chain Smectic C* Liquid Crystalline Block Copolymers. Macromolecules, 1998, 31, 711-721.	4.8	61
166	Layer-by-Layer Assembled Solid Polymer Electrolyte for Electrochromic Devices. Chemistry of Materials, 2011, 23, 2142-2149.	6.7	61
167	Preferential Association of Segment Blocks in Polyurethane Nanocomposites. Macromolecules, 2006, 39, 7030-7036.	4.8	60
168	Inherent Charge-Shifting Polyelectrolyte Multilayer Blends: A Facile Route for Tunable Protein Release from Surfaces. Biomacromolecules, 2011, 12, 2975-2981.	5.4	60
169	Dual Responsiveness of a Tunable Thermosensitive Polypeptide. ACS Macro Letters, 2012, 1, 727-731.	4.8	60
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342	Promoting an Inclusive Lab Culture through Custom In-Person Trainings within an Engineering Department. , 0, , .		0