

# Gleb B Sukhorukov

## List of Publications by Year in descending order

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304  
papers

31,736  
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4653

85  
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4641

170  
g-index

309  
all docs

309  
docs citations

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times ranked

22427  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging applications of stimuli-responsive polymer materials. <i>Nature Materials</i> , 2010, 9, 101-113.	13.3	5,007
2	Novel Hollow Polymer Shells by Colloid-Templated Assembly of Polyelectrolytes. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2201-2205.	7.2	1,735
3	Layer-by-layer self assembly of polyelectrolytes on colloidal particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 137, 253-266.	2.3	758
4	Stepwise polyelectrolyte assembly on particle surfaces: a novel approach to colloid design. <i>Polymers for Advanced Technologies</i> , 1998, 9, 759-767.	1.6	615
5	Matrix Polyelectrolyte Microcapsules: A New System for Macromolecule Encapsulation. <i>Langmuir</i> , 2004, 20, 3398-3406.	1.6	584
6	The Role of Metal Nanoparticles in Remote Release of Encapsulated Materials. <i>Nano Letters</i> , 2005, 5, 1371-1377.	4.5	533
7	Protein Encapsulation via Porous CaCO <sub>3</sub> Microparticles Templating. <i>Biomacromolecules</i> , 2004, 5, 1962-1972.	2.6	503
8	Release mechanisms for polyelectrolyte capsules. <i>Chemical Society Reviews</i> , 2007, 36, 636-649.	18.7	467
9	Laser-Induced Release of Encapsulated Materials inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4612-4617.	7.2	466
10	Urease Encapsulation in Nanoorganized Microshells. <i>Nano Letters</i> , 2001, 1, 125-128.	4.5	431
11	pH-Controlled Macromolecule Encapsulation in and Release from Polyelectrolyte Multilayer Nanocapsules. <i>Macromolecular Rapid Communications</i> , 2001, 22, 44-46.	2.0	424
12	Polymeric Multilayer Capsules in Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6954-6973.	7.2	418
13	Porous calcium carbonate microparticles as templates for encapsulation of bioactive compounds. <i>Journal of Materials Chemistry</i> , 2004, 14, 2073-2081.	6.7	387
14	Polyelectrolyte multilayer capsules as vehicles with tunable permeability. <i>Advances in Colloid and Interface Science</i> , 2004, 111, 49-61.	7.0	378
15	Halloysite Nanotubes as Biomimetic Nanoreactors. <i>Small</i> , 2005, 1, 510-513.	5.2	358
16	Protein-Calcium Carbonate Coprecipitation: A Tool for Protein Encapsulation. <i>Biotechnology Progress</i> , 2008, 21, 918-925.	1.3	344
17	Sustained Release Properties of Polyelectrolyte Multilayer Capsules. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2281-2284.	1.2	343
18	Polyelectrolyte multilayer capsule permeability control. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 535-541.	2.3	305

#	ARTICLE	IF	CITATIONS
19	Remote Activation of Capsules Containing Ag Nanoparticles and IR Dye by Laser Light. <i>Langmuir</i> , 2004, 20, 6988-6992.	1.6	295
20	Shell-in-Shell Microcapsules: A Novel Tool for Integrated, Spatially Confined Enzymatic Reactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5605-5608.	7.2	283
21	Polyelectrolyte microcapsules for biomedical applications. <i>Soft Matter</i> , 2009, 5, 282-291.	1.2	276
22	Nanoengineered Polymer Capsules: Tools for Detection, Controlled Delivery, and Site-Specific Manipulation. <i>Small</i> , 2005, 1, 194-200.	5.2	271
23	Polymer microcapsules as mobile local pH-sensors. <i>Journal of Materials Chemistry</i> , 2007, 17, 4471.	6.7	245
24	Thermal Behavior of Polyelectrolyte Multilayer Microcapsules. 1. The Effect of Odd and Even Layer Number. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18250-18259.	1.2	240
25	Lipid Coating on Polyelectrolyte Surface Modified Colloidal Particles and Polyelectrolyte Capsules. <i>Macromolecules</i> , 2000, 33, 4538-4544.	2.2	238
26	Influence of the Ionic Strength on the Polyelectrolyte Multilayers' Permeability. <i>Langmuir</i> , 2003, 19, 2444-2448.	1.6	232
27	pH-Responsive Properties of Hollow Polyelectrolyte Microcapsules Templated on Various Cores. <i>Langmuir</i> , 2004, 20, 7265-7269.	1.6	223
28	Multifunctionalized Polymer Microcapsules: Novel Tools for Biological and Pharmacological Applications. <i>Small</i> , 2007, 3, 944-955.	5.2	223
29	Base <sup>+</sup> /Acid Equilibria in Polyelectrolyte Systems: From Weak Polyelectrolytes to Interpolyelectrolyte Complexes and Multilayered Polyelectrolyte Shells. <i>Macromolecules</i> , 2003, 36, 10079-10086.	2.2	221
30	Hollow Polyelectrolyte Shells: Exclusion of Polymers and Donnan Equilibrium. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6434-6440.	1.2	220
31	Membrane Filtration for Microencapsulation and Microcapsules Fabrication by Layer-by-Layer Polyelectrolyte Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 4037-4043.	1.8	220
32	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth M <sup>u</sup> hlwald. <i>ACS Nano</i> , 2019, 13, 6151-6169.	7.3	211
33	Layer-by-Layer Engineering of Biocompatible, Decomposable Core <sup>+</sup> /Shell Structures. <i>Biomacromolecules</i> , 2003, 4, 265-272.	2.6	200
34	Magnetic Targeting and Cellular Uptake of Polymer Microcapsules Simultaneously Functionalized with Magnetic and Luminescent Nanocrystals. <i>Langmuir</i> , 2005, 21, 4262-4265.	1.6	192
35	Multifunctional cargo systems for biotechnology. <i>Trends in Biotechnology</i> , 2007, 25, 93-98.	4.9	186
36	Reversible pH-Dependent Properties of Multilayer Microcapsules Made of Weak Polyelectrolytes. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1781-1785.	2.0	184

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37	Luminescent Polymer Microcapsules Addressable by a Magnetic Field. <i>Langmuir</i> , 2004, 20, 1449-1452.	1.6	180
38	Polymeric microcapsules with light responsive properties for encapsulation and release. <i>Advances in Colloid and Interface Science</i> , 2010, 158, 2-14.	7.0	178
39	Assembly of Alternated Multivalent Ion/Polyelectrolyte Layers on Colloidal Particles. Stability of the Multilayers and Encapsulation of Macromolecules into Polyelectrolyte Capsules. <i>Journal of Colloid and Interface Science</i> , 2000, 230, 272-280.	5.0	177
40	Nanoassembly of Biodegradable Microcapsules for DNA Encasing. <i>Journal of the American Chemical Society</i> , 2004, 126, 3374-3375.	6.6	173
41	Uptake of Colloidal Polyelectrolyte-Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. <i>Advanced Materials</i> , 2008, 20, 4281-4287.	11.1	170
42	Hollow Polymer Shells from Biological Templates: Fabrication and Potential Applications. <i>Chemistry - A European Journal</i> , 2002, 8, 5481-5485.	1.7	167
43	Entrapment of $\alpha$ -Chymotrypsin into Hollow Polyelectrolyte Microcapsules. <i>Macromolecular Bioscience</i> , 2001, 1, 209-214.	2.1	165
44	Labeling of Biocompatible Polymer Microcapsules with Near-Infrared Emitting Nanocrystals. <i>Nano Letters</i> , 2003, 3, 369-372.	4.5	153
45	Thermal Behavior of Polyelectrolyte Multilayer Microcapsules: 2. Insight into Molecular Mechanisms for the PDADMAC/PSS System. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24002-24010.	1.2	153
46	Remote control over guidance and release properties of composite polyelectrolyte based capsules. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 716-729.	6.6	147
47	Scanning Force Microscopy Investigation of Polyelectrolyte Nano- and Microcapsule Wall Texture. <i>Langmuir</i> , 2000, 16, 4059-4063.	1.6	143
48	Controlled Release of DNA from Self-Degrading Microcapsules. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1894-1899.	2.0	140
49	Multilayer Capsules of Bovine Serum Albumin and Tannic Acid for Controlled Release by Enzymatic Degradation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11732-11740.	4.0	139
50	Encapsulation of proteins by layer-by-layer adsorption of polyelectrolytes onto protein aggregates: Factors regulating the protein release. <i>Biotechnology and Bioengineering</i> , 2001, 76, 207-213.	1.7	137
51	Loading the Multilayer Dextran Sulfate/Protamine Microsized Capsules with Peroxidase. <i>Biomacromolecules</i> , 2003, 4, 1191-1197.	2.6	136
52	Magnetic Bio/Nanoreactor with Multilayer Shells of Glucose Oxidase and Inorganic Nanoparticles. <i>Langmuir</i> , 2002, 18, 6338-6344.	1.6	131
53	Fabrication of a Novel Type of Metallized Colloids and Hollow Capsules. <i>Langmuir</i> , 2002, 18, 6687-6693.	1.6	131
54	Reversibly Permeable Nanomembranes of Polymeric Microcapsules. <i>Journal of the American Chemical Society</i> , 2008, 130, 11572-11573.	6.6	131

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55	Melting of PDADMAC/PSS Capsules Investigated with AFM Force Spectroscopy. <i>Macromolecules</i> , 2005, 38, 9766-9771.	2.2	130
56	Ultrasound stimulated release and catalysis using polyelectrolyte multilayer capsules. <i>Journal of Materials Chemistry</i> , 2007, 17, 1050-1054.	6.7	129
57	Ultrasound-Triggered Release from Multilayered Capsules. <i>Small</i> , 2007, 3, 804-808.	5.2	129
58	Thermosensitive Hollow Capsules Based on Thermoresponsive Polyelectrolytes. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1784-1790.	1.1	127
59	Combined Atomic Force Microscopy and Optical Microscopy Measurements as a Method To Investigate Particle Uptake by Cells. <i>Small</i> , 2006, 2, 394-400.	5.2	127
60	On the mechanical stability of polymeric microcontainers functionalized with nanoparticles. <i>Soft Matter</i> , 2009, 5, 148-155.	1.2	122
61	Magnetic/gold nanoparticle functionalized biocompatible microcapsules with sensitivity to laser irradiation. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6899.	1.3	119
62	Multilayer films containing immobilized nucleic acids. Their structure and possibilities in biosensor applications. <i>Biosensors and Bioelectronics</i> , 1996, 11, 913-922.	5.3	118
63	Microcapsules Made of Weak Polyelectrolytes: Templating and Stimuli-Responsive Properties. <i>Langmuir</i> , 2006, 22, 5888-5893.	1.6	117
64	Mechanism of Protein Release from Polyelectrolyte Multilayer Microcapsules. <i>Biomacromolecules</i> , 2010, 11, 1241-1247.	2.6	116
65	Controlled Intracellular Release of Peptides from Microcapsules Enhances Antigen Presentation on MHC Class I Molecules. <i>Small</i> , 2009, 5, 2168-2176.	5.2	111
66	Toward Self-Assembly of Nanoparticles on Polymeric Microshells: Near-IR Release and Permeability. <i>ACS Nano</i> , 2008, 2, 1807-1816.	7.3	110
67	Micron-scale hollow polyelectrolyte capsules with nanosized magnetic Fe <sub>3</sub> O <sub>4</sub> inside. <i>Materials Letters</i> , 2003, 57, 1743-1747.	1.3	108
68	Polymer Microcapsules with Carbohydrate-Sensitive Properties. <i>Advanced Functional Materials</i> , 2008, 18, 1586-1594.	7.8	108
69	Physical chemistry of encapsulation and release. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4078-4089.	1.3	106
70	Stable Stealth Function for Hollow Polyelectrolyte Microcapsules through a Poly(ethylene glycol) Grafted Polyelectrolyte Adlayer. <i>Biomacromolecules</i> , 2008, 9, 100-108.	2.6	105
71	The pros and cons of polyelectrolyte capsules in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 613-624.	2.4	103
72	A comparison study between electrospun polycaprolactone and piezoelectric poly(3-hydroxybutyrate-co-3-hydroxyvalerate) scaffolds for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 48-59.	2.5	103

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73	In Vitro and in Vivo Visualization and Trapping of Fluorescent Magnetic Microcapsules in a Bloodstream. ACS Applied Materials & Interfaces, 2017, 9, 6885-6893.	4.0	102
74	Gas-Filled Polyelectrolyte Capsules. Angewandte Chemie - International Edition, 2005, 44, 3310-3314.	7.2	99
75	Real-Time Assessment of Spatial and Temporal Coupled Catalysis within Polyelectrolyte Microcapsules Containing Coimmobilized Glucose Oxidase and Peroxidase. Biomacromolecules, 2006, 7, 710-719.	2.6	99
76	Efficient gene editing via non-viral delivery of CRISPR-Cas9 system using polymeric and hybrid microcarriers. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 97-108.	1.7	99
77	Synthesis of Nanosized Magnetic Ferrite Particles Inside Hollow Polyelectrolyte Capsules. Journal of Physical Chemistry B, 2003, 107, 86-90.	1.2	97
78	NIR-light triggered delivery of macromolecules into the cytosol. Journal of Controlled Release, 2012, 159, 120-127.	4.8	96
79	Overgrowth of Gold Nanorods by Using a Binary Surfactant Mixture. Langmuir, 2014, 30, 1696-1703.	1.6	93
80	Carbon nanodots: Mechanisms of photoluminescence and principles of application. TrAC - Trends in Analytical Chemistry, 2017, 90, 27-37.	5.8	92
81	Modified Polyelectrolyte Microcapsules as Smart Defense Systems. Chemistry of Materials, 2004, 16, 3446-3451.	3.2	91
82	Stabilization of Silver Nanoparticles by Polyelectrolytes and Poly(ethylene glycol). Macromolecular Rapid Communications, 2007, 28, 848-855.	2.0	91
83	Urease-Catalyzed Carbonate Precipitation inside the Restricted Volume of Polyelectrolyte Capsules. Macromolecular Rapid Communications, 2003, 24, 274-277.	2.0	87
84	Microparticle alpha <sub>2</sub> -macroglobulin enhances pro-resolving responses and promotes survival in sepsis. EMBO Molecular Medicine, 2014, 6, 27-42.	3.3	87
85	Drastic Morphological Modification of Polyelectrolyte Microcapsules Induced by High Temperature. Macromolecules, 2004, 37, 9546-9550.	2.2	86
86	Antioxidant Coating of Micronsize Droplets for Prevention of Lipid Peroxidation in Oil-in-Water Emulsion. ACS Applied Materials & Interfaces, 2010, 2, 3669-3676.	4.0	85
87	Inorganic Particle Synthesis in Confined Micron-Sized Polyelectrolyte Capsules. Langmuir, 2002, 18, 8204-8208.	1.6	83
88	Nanoplasmonic Chitosan Nanofibers as Effective SERS Substrate for Detection of Small Molecules. ACS Applied Materials & Interfaces, 2015, 7, 15466-15473.	4.0	83
89	Multilayer alginate/protamine microsized capsules: encapsulation of $\beta$ -chymotrypsin and controlled release study. International Journal of Pharmaceutics, 2002, 242, 155-161.	2.6	82
90	Photoinduced Reduction of Silver inside Microscale Polyelectrolyte Capsules. ChemPhysChem, 2003, 4, 1101-1103.	1.0	82

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91	Balance of Hydrophobic and Electrostatic Forces in the pH Response of Weak Polyelectrolyte Capsules. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20246-20253.	1.2	80
92	Biomimetic Fabrication of Nanoengineered Hydroxyapatite/Polyelectrolyte Composite Shell. <i>Chemistry of Materials</i> , 2003, 15, 3947-3950.	3.2	79
93	Protection of mammalian cell used in biosensors by coating with a polyelectrolyte shell. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1566-1573.	5.3	79
94	Multifunctional Scaffolds with Improved Antimicrobial Properties and Osteogenicity Based on Piezoelectric Electrospun Fibers Decorated with Bioactive Composite Microcapsules. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 34849-34868.	4.0	79
95	Novel polyelectrolyte multilayer micro- and nanocapsules as magnetic carriers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 225, 59-66.	1.0	78
96	A Novel Flow Cytometry-Based Assay for Cellular Uptake Studies of Polyelectrolyte Microcapsules. <i>Small</i> , 2008, 4, 1763-1768.	5.2	77
97	Controlled protein release from microcapsules with composite shells using high frequency ultrasound potential for in vivo medical use. <i>Soft Matter</i> , 2011, 7, 4341.	1.2	77
98	One-Step Formulation of Protein Microparticles with Tailored Properties: Hard Templating at Soft Conditions. <i>Advanced Functional Materials</i> , 2012, 22, 1914-1922.	7.8	77
99	Influence of Shell Structure on Stability, Integrity, and Mesh Size of Polyelectrolyte Capsules: A Mechanism and Strategy for Improved Preparation. <i>Chemistry of Materials</i> , 2005, 17, 2603-2611.	3.2	76
100	Magnetic Microcapsules with Low Permeable Polypyrrole Skin Layer. <i>Macromolecular Rapid Communications</i> , 2006, 27, 931-936.	2.0	75
101	Cell-Based Drug Delivery and Use of Nano and Microcarriers for Cell Functionalization. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700818.	3.9	75
102	Layer-by-Layer Assembled Multilayer Shells for Encapsulation and Release of Fragrance. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8948-8954.	4.0	74
103	Intracellularly Biodegradable Polyelectrolyte/Silica Composite Microcapsules as Carriers for Small Molecules. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9651-9661.	4.0	74
104	Red Blood Cell Templated Polyelectrolyte Capsules: A Novel Vehicle for the Stable Encapsulation of DNA and Proteins. <i>Macromolecular Rapid Communications</i> , 2006, 27, 435-440.	2.0	72
105	Stimuli-Responsive Multilayered Hybrid Nanoparticle/Polyelectrolyte Capsules. <i>Macromolecular Rapid Communications</i> , 2007, 28, 88-95.	2.0	71
106	Formulation for Oral Delivery of Lactoferrin Based on Bovine Serum Albumin and Tannic Acid Multilayer Microcapsules. <i>Scientific Reports</i> , 2017, 7, 44159.	1.6	71
107	A novel method for encapsulation of poorly water-soluble drugs: precipitation in polyelectrolyte multilayer shells. <i>International Journal of Pharmaceutics</i> , 2002, 242, 219-223.	2.6	69
108	Mechanical Properties of Polyelectrolyte Microcapsules Filled with a Neutral Polymer. <i>Macromolecules</i> , 2003, 36, 2832-2837.	2.2	69

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109	Liposome-Based Nanocapsules. IEEE Transactions on Nanobioscience, 2004, 3, 49-55.	2.2	67
110	Synthesis of Silver Nanoparticles for Remote Opening of Polyelectrolyte Microcapsules. Langmuir, 2007, 23, 4612-4617.	1.6	66
111	Carbon Nanotubes on Polymeric Microcapsules: Free-Standing Structures and Point-Wise Laser Openings. Advanced Functional Materials, 2010, 20, 3136-3142.	7.8	66
112	Chemosensors and biosensors based on polyelectrolyte microcapsules containing fluorescent dyes and enzymes. Analytical and Bioanalytical Chemistry, 2013, 405, 1559-1568.	1.9	66
113	Polyelectrolyte Films Based on Polysaccharides of Different Conformations: Effects on Multilayer Structure and Mechanical Properties. Biomacromolecules, 2006, 7, 2065-2071.	2.6	65
114	Defined Picogram Dose Inclusion and Release of Macromolecules using Polyelectrolyte Microcapsules. Macromolecular Rapid Communications, 2005, 26, 961-967.	2.0	64
115	Salt-Induced Swelling-to-Shrinking Transition in Polyelectrolyte Multilayer Capsules. Physical Review Letters, 2006, 97, 188301.	2.9	64
116	Optically Driven Encapsulation Using Novel Polymeric Hollow Shells Containing an Azobenzene Polymer. Macromolecular Rapid Communications, 2007, 28, 1517-1521.	2.0	64
117	Bifunctional ultraviolet/ultrasound responsive composite TiO <sub>2</sub> /polyelectrolyte microcapsules. Nanoscale, 2016, 8, 5170-5180.	2.8	64
118	Assembling polyelectrolytes and porphyrins into hollow capsules with laser-responsive oxidative properties. Journal of Materials Chemistry, 2009, 19, 2226.	6.7	63
119	Magnetically Engineered Microcapsules as Intracellular Anchors for Remote Control Over Cellular Mobility. Advanced Materials, 2013, 25, 6945-6950.	11.1	63
120	UV light stimulated encapsulation and release by polyelectrolyte microcapsules. Advances in Colloid and Interface Science, 2014, 207, 280-289.	7.0	63
121	<i>In Situ</i> Synthesis of Fluorescent Carbon Dots/Polyelectrolyte Nanocomposite Microcapsules with Reduced Permeability and Ultrasound Sensitivity. ACS Nano, 2016, 10, 9608-9615.	7.3	62
122	Encapsulation of Basic Fibroblast Growth Factor by Polyelectrolyte Multilayer Microcapsules and Its Controlled Release for Enhancing Cell Proliferation. Biomacromolecules, 2012, 13, 2174-2180.	2.6	61
123	Silver Alginate Hydrogel Micro- and Nanocontainers for Theranostics: Synthesis, Encapsulation, Remote Release, and Detection. ACS Applied Materials & Interfaces, 2017, 9, 21949-21958.	4.0	60
124	Fabrication of hollow multifunctional spheres containing MCM-41 nanoparticles and magnetite nanoparticles using layer-by-layer method. Journal of Colloid and Interface Science, 2006, 304, 437-441.	5.0	59
125	Multi-layer microcapsules: fresh insights and new applications. Expert Opinion on Drug Delivery, 2017, 14, 583-587.	2.4	59
126	Polylactic acid nano- and microchamber arrays for encapsulation of small hydrophilic molecules featuring drug release <i>via</i> high intensity focused ultrasound. Nanoscale, 2017, 9, 7063-7070.	2.8	59



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127	High-efficiency freezing-induced loading of inorganic nanoparticles and proteins into micron- and submicron-sized porous particles. <i>Scientific Reports</i> , 2018, 8, 17763.	1.6	58
128	Composite silica nanoparticle/polyelectrolyte microcapsules with reduced permeability and enhanced ultrasound sensitivity. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1888-1897.	2.9	57
129	Co-encapsulation of enzyme and sensitive dye as a tool for fabrication of microcapsule based sensor for urea measuring. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11110.	1.3	56
130	Inorganic/Organic Multilayer Capsule Composition for Improved Functionality and External Triggering. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600338.	1.9	53
131	Enhanced Raman imaging and optical spectra of gold nanoparticle doped microcapsules. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 3003-3012.	1.3	52
132	Behavior of Temperature-Sensitive PNIPAM Confined in Polyelectrolyte Capsules. <i>ChemPhysChem</i> , 2006, 7, 2497-2502.	1.0	52
133	Direction specific release from giant microgel-templated polyelectrolyte microcontainers. <i>Soft Matter</i> , 2009, 5, 3927.	1.2	52
134	UV-induced disruption of microcapsules with azobenzene groups. <i>Soft Matter</i> , 2014, 10, 1384-1391.	1.2	52
135	A Simple Non-Invasive Approach toward Efficient Transdermal Drug Delivery Based on Biodegradable Particulate System. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17270-17282.	4.0	51
136	Comparative Analysis of Hollow and Filled Polyelectrolyte Microcapsules Templated on Melamine Formaldehyde and Carbonate Cores. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 530-535.	1.1	50
137	Micropackaging via layer-by-layer assembly: microcapsules and microchamber arrays. <i>International Materials Reviews</i> , 2014, 59, 224-244.	9.4	49
138	Improved and targeted delivery of bioactive molecules to cells with magnetic layer-by-layer assembled microcapsules. <i>Nanoscale</i> , 2015, 7, 9686-9693.	2.8	49
139	Protein-tannic acid multilayer films: A multifunctional material for microencapsulation of food-derived bioactives. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 332-340.	5.0	48
140	Photocatalytic microreactors based on TiO <sub>2</sub> -modified polyelectrolyte multilayer capsules. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 975.	1.6	47
141	Micromechanical Theory for pH-Dependent Polyelectrolyte Multilayer Capsule Swelling. <i>Macromolecules</i> , 2006, 39, 8480-8486.	2.2	46
142	Coating of Colloidal Particles by Controlled Precipitation of Polymers. <i>Macromolecules</i> , 2001, 34, 2329-2334.	2.2	45
143	Palladium nanoclusters in microcapsule membranes: From synthetic shells to synthetic cells. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2237.	1.3	45
144	Selective YF <sub>3</sub> Nanoparticle Formation in Polyelectrolyte Capsules as Microcontainers for Yttrium Recovery from Aqueous Solutions. <i>Langmuir</i> , 2003, 19, 4427-4431.	1.6	44

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145	Externally Triggered Dual Function of Complex Microcapsules. ACS Nano, 2013, 7, 8693-8705.	7.3	44
146	Poly(lactic Acid) Sealed Polyelectrolyte Multilayer Microchambers for Entrapment of Salts and Small Hydrophilic Molecules Precipitates. ACS Applied Materials & Interfaces, 2017, 9, 16536-16545.	4.0	44
147	Polyelectrolyte Capsules Modified with YF3 Nanoparticles: An AFM Study. Macromolecular Rapid Communications, 2004, 25, 1078-1081.	2.0	43
148	Patterned Microstructure Fabrication: Polyelectrolyte Complexes vs Polyelectrolyte Multilayers. Scientific Reports, 2016, 6, 37000.	1.6	43
149	Safe and Effective Delivery of Antitumor Drug Using Mesenchymal Stem Cells Impregnated with Submicron Carriers. ACS Applied Materials & Interfaces, 2019, 11, 13091-13104.	4.0	43
150	Neuron Cells Uptake of Polymeric Microcapsules and Subsequent Intracellular Release. Macromolecular Bioscience, 2011, 11, 848-854.	2.1	42
151	Intracellular Delivery of Antioxidant CeO <sub>2</sub> Nanoparticles via Polyelectrolyte Microcapsules. ACS Biomaterials Science and Engineering, 2018, 4, 2453-2462.	2.6	42
152	Engineered microcrystals for direct surface modification with layer-by-layer technique for optimized dissolution. European Journal of Pharmaceutics and Biopharmaceutics, 2004, 58, 521-527.	2.0	41
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