Frank Caruso

List of Publications by Year in Descending Order

627 papers	59,571 citations	126 h-index	222 g-index
677 ext. papers	64,088 ext. citations	11.5 avg, IF	8.11 L-index

#	Paper	IF	Citations
627	Transforming the chemical structure and bio-nano activity of doxorubicin by ultrasound for selective killing of cancer cells.. *Advanced Materials*, **2022**, e2107964	24	1
626	Bioresponsive Polyphenol-Based Nanoparticles as Thrombolytic Drug Carriers.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	4
625	Pharmacokinetics and biodistribution of supraparticle-delivered neurotrophin 3 in the guinea pig cochlea.. *Journal of Controlled Release*, **2022**, 342, 295-307	11.7	0
624	Assembly of Bioactive Nanoparticles via Metal-Phenolic Complexation.. *Advanced Materials*, **2021**, e2108624	24	4
623	Origins of Structural Elasticity in Metal-Phenolic Networks Probed by Super-Resolution Microscopy and Multiscale Simulations. *ACS Nano*, **2021**,	16.7	4
622	X-ray-Based Techniques to Study the Nano-Bio Interface. *ACS Nano*, **2021**, 15, 3754-3807	16.7	18
621	Metal□Phenolic Networks as Tunable Buffering Systems. *Chemistry of Materials*, **2021**, 33, 2557-2566	9.6	5
620	Exploiting Supramolecular Dynamics in Metal-Phenolic Networks to Generate Metal-Oxide and Metal-Carbon Networks. *Angewandte Chemie - International Edition*, **2021**, 60, 14586-14594	16.4	14
619	Exploiting Supramolecular Dynamics in Metal□Phenolic Networks to Generate Metal□Oxide and Metal□Carbon Networks. *Angewandte Chemie*, **2021**, 133, 14707-14715	3.6	4
618	Influence of Poly(ethylene glycol) Molecular Architecture on Particle Assembly and Particle-Immune Cell Interactions in Human Blood. *ACS Nano*, **2021**, 15, 10025-10038	16.7	6
617	Fluorinated Metal-Organic Coatings with Selective Wettability. *Journal of the American Chemical Society*, **2021**, 143, 9972-9981	16.4	7
616	A Focus on "Bio" in Bio-Nanoscience: The Impact of Biological Factors on Nanomaterial Interactions. *Advanced Healthcare Materials*, **2021**, 10, e2100574	10.1	4
615	NFAT signaling in human mesenchymal stromal cells affects extracellular matrix remodeling and antifungal immune responses. *IScience*, **2021**, 24, 102683	6.1	0
614	Quantitatively Tracking Bio-Nano Interactions of Metal-Phenolic Nanocapsules by Mass Cytometry. *ACS Applied Materials & Interfaces*, **2021**, 13, 35494-35505	9.5	2
613	Stereoselective Growth of Small Molecule Patches on Nanoparticles. *Journal of the American Chemical Society*, **2021**, 143, 12138-12144	16.4	7
612	Engineered Coatings via the Assembly of Amino-Quinone Networks. *Angewandte Chemie - International Edition*, **2021**, 60, 2346-2354	16.4	18
611	Microemulsion-Assisted Templating of Metal-Stabilized Poly(ethylene glycol) Nanoparticles. *Biomacromolecules*, **2021**, 22, 612-619	6.9	1

610	Engineered Coatings via the Assembly of Amino-Quinone Networks. *Angewandte Chemie*, **2021**, 133, 2376-2384	3.6	2
609	Protocols for Reproducible, Increased-Scale Synthesis of Engineered Particles Bridging the Upscaling Gap *Chemistry of Materials*, **2021**, 33, 1099-1115	9.6	4
608	T Cell-Targeting Nanoparticle Drug Delivery Systems: Considerations for Rational Design. *ACS Nano* , **2021**, 15, 3736-3753	16.7	17
607	Programmable Phototaxis of Metal-Phenolic Particle Microswimmers. *Advanced Materials*, **2021**, 33, e2006177	24	6
606	Sono-Fenton Chemistry Converts Phenol and Phenyl Derivatives into Polyphenols for Engineering Surface Coatings. *Angewandte Chemie*, **2021**, 133, 21699-21705	3.6	1
605	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. *Angewandte Chemie*, **2021**, 133, 20387-20392	3.6	1
604	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. *Angewandte Chemie - International Edition*, **2021**, 60, 20225-20230	16.4	4
603	Sono-Fenton Chemistry Converts Phenol and Phenyl Derivatives into Polyphenols for Engineering Surface Coatings. *Angewandte Chemie - International Edition*, **2021**, 60, 21529-21535	16.4	5
602	Luminescent Metal-Phenolic Networks for Multicolor Particle Labeling. *Angewandte Chemie - International Edition*, **2021**, 60, 24968-24975	16.4	5
601	RNAi therapeutics: an antiviral strategy for human infections. *Current Opinion in Pharmacology*, **2020**, 54, 121-129	5.1	10
600	Understanding the Uptake of Nanomedicines at Different Stages of Brain Cancer Using a Modular Nanocarrier Platform and Precision Bispecific Antibodies. *ACS Central Science*, **2020**, 6, 727-738	16.8	18
599	Surface Modification of Spider Silk Particles to Direct Biomolecular Corona Formation. *ACS Applied Materials & Interfaces*, **2020**, 12, 24635-24643	9.5	7
598	Sulfoxide-Containing Polymer-Coated Nanoparticles Demonstrate Minimal Protein Fouling and Improved Blood Circulation. *Advanced Science*, **2020**, 7, 2000406	13.6	18
597	Modulating the Selectivity and Stealth Properties of Ellipsoidal Polymersomes through a Multivalent Peptide Ligand Display. *Advanced Healthcare Materials*, **2020**, 9, e2000261	10.1	4
596	Interfacial Assembly of Metal-Phenolic Networks for Hair Dyeing. *ACS Applied Materials & Interfaces*, **2020**, 12, 29826-29834	9.5	9
595	Polyphenol-Mediated Assembly for Particle Engineering. *Accounts of Chemical Research*, **2020**, 53, 1269-1278	24.3	94
594	Cobalt-Directed Assembly of Antibodies onto Metal-Phenolic Networks for Enhanced Particle Targeting. *Nano Letters*, **2020**, 20, 2660-2666	11.5	24
593	Dissecting the intracellular signalling and fate of a DNA nanosensor by super-resolution and quantitative microscopy. *Nanoscale*, **2020**, 12, 15402-15413	7.7	0

592	Polyphenol-Mediated Assembly of Proteins for Engineering Functional Materials. *Angewandte Chemie*, **2020**, 132, 15748-15755	3.6	12
591	Polyphenol-Mediated Assembly of Proteins for Engineering Functional Materials. *Angewandte Chemie - International Edition*, **2020**, 59, 15618-15625	16.4	56
590	Injectable and Sprayable Polyphenol-Based Hydrogels for Controlling Hemostasis.. *ACS Applied Bio Materials*, **2020**, 3, 1258-1266	4.1	28
589	Nanoengineering multifunctional hybrid interfaces using adhesive glycogen nanoparticles. *Journal of Materials Chemistry B*, **2020**, 8, 4851-4858	7.3	5
588	Particle-mediated delivery of frataxin plasmid to a human sensory neuronal model of Friedreich's ataxia. *Biomaterials Science*, **2020**, 8, 2398-2403	7.4	2
587	Self-assembling influenza nanoparticle vaccines drive extended germinal center activity and memory B cell maturation. *JCI Insight*, **2020**, 5,	9.9	30
586	The Biomolecular Corona in 2D and Reverse: Patterning Metal Phenolic Networks on Proteins, Lipids, Nucleic Acids, Polysaccharides, and Fingerprints. *Advanced Functional Materials*, **2020**, 30, 1905805	15.6	13
585	Glycogen as a Building Block for Advanced Biological Materials. *Advanced Materials*, **2020**, 32, e1904625	24	21
584	Engineering of Nebulized Metal-Phenolic Capsules for Controlled Pulmonary Deposition. *Advanced Science*, **2020**, 7, 1902650	13.6	21
583	Self-Assembly of a Metal-Phenolic Sorbent for Broad-Spectrum Metal Sequestration. *ACS Applied Materials & Interfaces*, **2020**, 12, 3746-3754	9.5	12
582	A few clarifications on MIRIBEL. *Nature Nanotechnology*, **2020**, 15, 2-3	28.7	12
581	Ordered Mesoporous Metal-Phenolic Network Particles. *Journal of the American Chemical Society*, **2020**, 142, 335-341	16.4	42
580	Expanding the Toolbox of Metal Phenolic Networks via Enzyme-Mediated Assembly. *Angewandte Chemie*, **2020**, 132, 1728-1734	3.6	9
579	Expanding the Toolbox of Metal-Phenolic Networks via Enzyme-Mediated Assembly. *Angewandte Chemie - International Edition*, **2020**, 59, 1711-1717	16.4	24
578	A radiolabeled drug tracing method to study neurotrophin-3 retention and distribution in the cochlea after nano-based local delivery. *MethodsX*, **2020**, 7, 101078	1.9	1
577	Polyphenol-Based Nanoparticles for Intracellular Protein Delivery Competing Supramolecular Interactions. *ACS Nano*, **2020**, 14, 12972-12981	16.7	24
576	Particle engineering enabled by polyphenol-mediated supramolecular networks. *Nature Communications*, **2020**, 11, 4804	17.4	28
575	Protein Component of Oyster Glycogen Nanoparticles: An Anchor Point for Functionalization. *ACS Applied Materials & Interfaces*, **2020**, 12, 38976-38988	9.5	4

574	Distribution of Particles in Human Stem Cell-Derived 3D Neuronal Cell Models: Effect of Particle Size, Charge, and Density. *Biomacromolecules*, **2020**, 21, 3186-3196	6.9	1
573	Programmable Permeability of Metal-Phenolic Network Microcapsules. *Chemistry of Materials*, **2020**, 32, 6975-6982	9.6	14
572	Template-Mediated Assembly of DNA into Microcapsules for Immunological Modulation. *Small*, **2020**, 16, e2002750	11	9
571	Person-Specific Biomolecular Coronas Modulate Nanoparticle Interactions with Immune Cells in Human Blood. *ACS Nano*, **2020**, 14, 15723-15737	16.7	20
570	Catalytically Active Copper Phosphate-Dextran Sulfate Microparticle Coatings for Bioanalyte Sensing. *Particle and Particle Systems Characterization*, **2020**, 37, 2000210	3.1	1
569	Dynamic Electrophoretic Assembly of Metal-Phenolic Films: Accelerated Formation and Cytocompatible Detachment. *Chemistry of Materials*, **2020**, 32, 7746-7753	9.6	11
568	Modular Assembly of Host-Guest Metal-Phenolic Networks Using Macrocyclic Building Blocks. *Angewandte Chemie*, **2020**, 132, 281-286	3.6	5
567	Modular Assembly of Host-Guest Metal-Phenolic Networks Using Macrocyclic Building Blocks. *Angewandte Chemie - International Edition*, **2020**, 59, 275-280	16.4	26
566	Ricocheting Droplets Moving on Super-Repellent Surfaces. *Advanced Science*, **2019**, 6, 1901846	13.6	13
565	Ligand-Functionalized Poly(ethylene glycol) Particles for Tumor Targeting and Intracellular Uptake. *Biomacromolecules*, **2019**, 20, 3592-3600	6.9	18
564	Metal-Phenolic Coatings as a Platform to Trigger Endosomal Escape of Nanoparticles. *ACS Nano*, **2019**, 13, 11653-11664	16.7	63
563	Modular Metal-Organic Polyhedra Superassembly: From Molecular-Level Design to Targeted Drug Delivery. *Advanced Materials*, **2019**, 31, e1806774	24	34
562	Tuning the Mechanical Behavior of Metal-Phenolic Networks through Building Block Composition. *ACS Applied Materials & Interfaces*, **2019**, 11, 6404-6410	9.5	19
561	Metal-dependent inhibition of amyloid fibril formation: synergistic effects of cobalt-tannic acid networks. *Nanoscale*, **2019**, 11, 1921-1928	7.7	18
560	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Möhwald. *ACS Nano*, **2019**, 13, 6151-6169	16.7	127
559	Revisiting cell-particle association in vitro: A quantitative method to compare particle performance. *Journal of Controlled Release*, **2019**, 307, 355-367	11.7	11
558	Template-Free Synthesis of Chemically Asymmetric Silica Nanotubes for Selective Cargo Loading and Sustained Drug Release. *Chemistry of Materials*, **2019**, 31, 4291-4298	9.6	12
557	Link between Low-Fouling and Stealth: A Whole Blood Biomolecular Corona and Cellular Association Analysis on Nanoengineered Particles. *ACS Nano*, **2019**, 13, 4980-4991	16.7	37

556	SupraCells: Living Mammalian Cells Protected within Functional Modular Nanoparticle-Based Exoskeletons. *Advanced Materials*, **2019**, 31, e1900545	24	56
555	Selective Metal-Phenolic Assembly from Complex Multicomponent Mixtures. *ACS Applied Materials & Interfaces*, **2019**, 11, 17714-17721	9.5	11
554	Modulating Targeting of Poly(ethylene glycol) Particles to Tumor Cells Using Bispecific Antibodies. *Advanced Healthcare Materials*, **2019**, 8, e1801607	10.1	24
553	Protein Adsorption and Coordination-Based End-Tethering of Functional Polymers on Metal-Phenolic Network Films. *Biomacromolecules*, **2019**, 20, 1421-1428	6.9	24
552	Engineering Biocoatings To Prolong Drug Release from Supraparticles. *Biomacromolecules*, **2019**, 20, 3425-3434	6.9	11
551	Cellular Targeting of Bispecific Antibody-Functionalized Poly(ethylene glycol) Capsules: Do Shape and Size Matter?. *ACS Applied Materials & Interfaces*, **2019**, 11, 28720-28731	9.5	9
550	Oxidation-Mediated Kinetic Strategies for Engineering Metal-Phenolic Networks. *Angewandte Chemie - International Edition*, **2019**, 58, 12563-12568	16.4	37
549	Oxidation-Mediated Kinetic Strategies for Engineering Metal□Phenolic Networks. *Angewandte Chemie*, **2019**, 131, 12693-12698	3.6	4
548	Advancing Metal-Phenolic Networks for Visual Information Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 29305-29311	9.5	28
547	Phenolic Building Blocks for the Assembly of Functional Materials. *Angewandte Chemie - International Edition*, **2019**, 58, 1904-1927	16.4	189
546	Phenolische Bausteine f□die Assemblierung von Funktionsmaterialien. *Angewandte Chemie*, **2019**, 131, 1920-1945	3.6	27
545	In Situ Characterization of Protein Corona Formation on Silica Microparticles Using Confocal Laser Scanning Microscopy Combined with Microfluidics. *ACS Applied Materials & Interfaces*, **2019**, 11, 2459-2469	9.5	30
544	Super-resolution Imaging of Proton Sponge-Triggered Rupture of Endosomes and Cytosolic Release of Small Interfering RNA. *ACS Nano*, **2019**, 13, 187-202	16.7	83
543	Microfluidic Examination of the "Hard" Biomolecular Corona Formed on Engineered Particles in Different Biological Milieu. *Biomacromolecules*, **2018**, 19, 2580-2594	6.9	23
542	Electrochemical Behavior and Redox-Dependent Disassembly of Gallic Acid/Fe Metal-Phenolic Networks. *ACS Applied Materials & Interfaces*, **2018**, 10, 5828-5834	9.5	23
541	Particle Targeting: Particle Targeting in Complex Biological Media (Adv. Healthcare Mater. 1/2018). *Advanced Healthcare Materials*, **2018**, 7, 1870004	10.1	1
540	Probing transcription factor binding activity and downstream gene silencing in living cells with a DNA nanoswitch. *Nanoscale*, **2018**, 10, 2034-2044	7.7	10
539	Metal-Organic Frameworks for Cell and Virus Biology: A Perspective. *ACS Nano*, **2018**, 12, 13-23	16.7	159

538	Multiligand Metal-Phenolic Assembly from Green Tea Infusions. *ACS Applied Materials & Interfaces*, **2018**, 10, 7632-7639	9.5	47
537	Synthesis of Metal Nanoparticles in Metal-Phenolic Networks: Catalytic and Antimicrobial Applications of Coated Textiles. *Advanced Healthcare Materials*, **2018**, 7, 1700934	10.1	42
536	Nanoengineering of Poly(ethylene glycol) Particles for Stealth and Targeting. *Langmuir*, **2018**, 34, 10817-10827	4	40
535	Self-Assembly of Nano- to Macroscopic Metal–Phenolic Materials. *Chemistry of Materials*, **2018**, 30, 5750-5758	9.6	38
534	Low-Fouling and Biodegradable Protein-Based Particles for Thrombus Imaging. *ACS Nano*, **2018**, 12, 6988-6996	14.7	24
533	Particle Targeting in Complex Biological Media. *Advanced Healthcare Materials*, **2018**, 7, 1700575	10.1	62
532	Overcoming the Blood-Brain Barrier: The Role of Nanomaterials in Treating Neurological Diseases. *Advanced Materials*, **2018**, 30, e1801362	24	226
531	Cobalt Phosphate Nanostructures for Non-Enzymatic Glucose Sensing at Physiological pH. *ACS Applied Materials & Interfaces*, **2018**, 10, 42786-42795	9.5	36
530	Spray Assembly of Metal-Phenolic Networks: Formation, Growth, and Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 33721-33729	9.5	61
529	Coatings super-repellent to ultralow surface tension liquids. *Nature Materials*, **2018**, 17, 1040-1047	27	190
528	Minimum information reporting in bio-nano experimental literature. *Nature Nanotechnology*, **2018**, 13, 777-785	28.7	297
527	Gel-Mediated Electrospray Assembly of Silica Supraparticles for Sustained Drug Delivery. *ACS Applied Materials & Interfaces*, **2018**, 10, 31019-31031	9.5	20
526	Self-Assembled Metal-Phenolic Networks on Emulsions as Low-Fouling and pH-Responsive Particles. *Small*, **2018**, 14, e1802342	11	36
525	Supramolecular Metal-Phenolic Gels for the Crystallization of Active Pharmaceutical Ingredients. *Small*, **2018**, 14, e1801202	11	25
524	Glycogen-nucleic acid constructs for gene silencing in multicellular tumor spheroids. *Biomaterials*, **2018**, 176, 34-49	15.6	21
523	Cell-Conditioned Protein Coronas on Engineered Particles Influence Immune Responses. *Biomacromolecules*, **2017**, 18, 431-439	6.9	23
522	Immunological Principles Guiding the Rational Design of Particles for Vaccine Delivery. *ACS Nano*, **2017**, 11, 54-68	16.7	119
521	Engineered Hydrogen-Bonded Glycopolymer Capsules and Their Interactions with Antigen Presenting Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 6444-6452	9.5	10

520	The resilience of carbonic anhydrase enzyme for membrane-based carbon capture applications. *International Journal of Greenhouse Gas Control*, **2017**, 62, 122-129	4.2	12
519	Self-Assembled Nanoparticles from Phenolic Derivatives for Cancer Therapy. *Advanced Healthcare Materials*, **2017**, 6, 1700467	10.1	55
518	Formation of Polyrotaxane Particles via Template Assembly. *Biomacromolecules*, **2017**, 18, 2118-2127	6.9	5
517	An Enzyme-Coated Metal□Organic Framework Shell for Synthetically Adaptive Cell Survival. *Angewandte Chemie*, **2017**, 129, 8630-8635	3.6	27
516	A Partially Graphitic Mesoporous Carbon Membrane with Three-Dimensionally Networked Nanotunnels for Ultrasensitive Electrochemical Detection. *Chemistry of Materials*, **2017**, 29, 5286-5293	9.6	30
515	Tuning the Properties of Polymer Capsules for Cellular Interactions. *Bioconjugate Chemistry*, **2017**, 28, 1859-1866	6.3	15
514	Lactosylated Glycogen Nanoparticles for Targeting Prostate Cancer Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 16869-16879	9.5	32
513	Rust-Mediated Continuous Assembly of Metal-Phenolic Networks. *Advanced Materials*, **2017**, 29, 1606717	24	78
512	Modulated Fragmentation of Proapoptotic Peptide Nanoparticles Regulates Cytotoxicity. *Journal of the American Chemical Society*, **2017**, 139, 4009-4018	16.4	44
511	Metal-phenolic networks as a versatile platform to engineer nanomaterials and biointerfaces. *Nano Today*, **2017**, 12, 136-148	17.9	280
510	Interactions between circulating nanoengineered polymer particles and extracellular matrix components in vitro. *Biomaterials Science*, **2017**, 5, 267-273	7.4	9
509	Biofunctional metal-phenolic films from dietary flavonoids. *Chemical Communications*, **2017**, 53, 1068-1071	5.8	45
508	Templated Polymer Replica Nanoparticles to Facilitate Assessment of Material-Dependent Pharmacokinetics and Biodistribution. *ACS Applied Materials & Interfaces*, **2017**, 9, 33683-33694	9.5	15
507	Influence of Ionic Strength on the Deposition of Metal-Phenolic Networks. *Langmuir*, **2017**, 33, 10616-10622	4	44
506	Bridging Bio-Nano Science and Cancer Nanomedicine. *ACS Nano*, **2017**, 11, 9594-9613	16.7	222
505	Role of the Protein Corona Derived from Human Plasma in Cellular Interactions between Nanoporous Human Serum Albumin Particles and Endothelial Cells. *Bioconjugate Chemistry*, **2017**, 28, 2062-2068	6.3	30
504	Patterned Poly(dopamine) Films for Enhanced Cell Adhesion. *Bioconjugate Chemistry*, **2017**, 28, 75-80	6.3	13
503	Nanoengineering Particles through Template Assembly. *Chemistry of Materials*, **2017**, 29, 289-306	9.6	63

502	A Decade of the Protein Corona. *ACS Nano*, **2017**, 11, 11773-11776	16.7	329
501	An Enzyme-Coated Metal-Organic Framework Shell for Synthetically Adaptive Cell Survival. *Angewandte Chemie - International Edition*, **2017**, 56, 8510-8515	16.4	120
500	Improving Targeting of Metal-Phenolic Capsules by the Presence of Protein Coronas. *ACS Applied Materials & Interfaces*, **2016**, 8, 22914-22	9.5	49
499	Innovation in Layer-by-Layer Assembly. *Chemical Reviews*, **2016**, 116, 14828-14867	68.1	521
498	Codelivery of NOD2 and TLR9 Ligands via Nanoengineered Protein Antigen Particles for Improving and Tuning Immune Responses. *Advanced Functional Materials*, **2016**, 26, 7526-7536	15.6	13
497	Biomimetics: Metal–Organic Framework Coatings as Cytoprotective Exoskeletons for Living Cells (Adv. Mater. 36/2016). *Advanced Materials*, **2016**, 28, 8066-8066	24	3
496	Polymer Capsules for Plaque-Targeted In Vivo Delivery. *Advanced Materials*, **2016**, 28, 7703-7	24	28
495	Metal-Organic Framework Coatings as Cytoprotective Exoskeletons for Living Cells. *Advanced Materials*, **2016**, 28, 7910-7914	24	192
494	Metal–Phenolic Supramolecular Gelation. *Angewandte Chemie*, **2016**, 128, 14007-14011	3.6	20
493	Synthesis of Chemically Asymmetric Silica Nanobottles and Their Application for Cargo Loading and as Nanoreactors and Nanomotors. *Angewandte Chemie - International Edition*, **2016**, 55, 14733-14737	16.4	64
492	Synthesis of Chemically Asymmetric Silica Nanobottles and Their Application for Cargo Loading and as Nanoreactors and Nanomotors. *Angewandte Chemie*, **2016**, 128, 14953-14957	3.6	17
491	Dynamic Flow Impacts Cell-Particle Interactions: Sedimentation and Particle Shape Effects. *Langmuir*, **2016**, 32, 10995-11001	4	23
490	In situ layer-by-layer assembled carbonic anhydrase-coated hollow fiber membrane contactor for rapid CO2 absorption. *Journal of Membrane Science*, **2016**, 514, 556-565	9.6	34
489	Engineered Metal-Phenolic Capsules Show Tunable Targeted Delivery to Cancer Cells. *Biomacromolecules*, **2016**, 17, 2268-76	6.9	70
488	Analysing intracellular deformation of polymer capsules using structured illumination microscopy. *Nanoscale*, **2016**, 8, 11924-31	7.7	30
487	Ag Nanoparticle/Polydopamine-Coated Inverse Opals as Highly Efficient Catalytic Membranes. *ACS Applied Materials & Interfaces*, **2016**, 8, 3250-7	9.5	44
486	Photocontrolled Cargo Release from Dual Cross-Linked Polymer Particles. *ACS Applied Materials & Interfaces*, **2016**, 8, 6219-28	9.5	19
485	Thermally Induced Charge Reversal of Layer-by-Layer Assembled Single-Component Polymer Films. *ACS Applied Materials & Interfaces*, **2016**, 8, 7449-55	9.5	23

484	Shape-Dependent Activation of Cytokine Secretion by Polymer Capsules in Human Monocyte-Derived Macrophages. *Biomacromolecules*, **2016**, 17, 1205-12	6.9	40
483	Differential Responses of Pattern Recognition Receptors to Outer Membrane Vesicles of Three Periodontal Pathogens. *PLoS ONE*, **2016**, 11, e0151967	3.7	51
482	Improved Auditory Nerve Survival with Nanoengineered Supraparticles for Neurotrophin Delivery into the Deafened Cochlea. *PLoS ONE*, **2016**, 11, e0164867	3.7	43
481	Achieving HIV-1 Control through RNA-Directed Gene Regulation. *Genes*, **2016**, 7,	4.2	8
480	Void Engineering in Metal Organic Frameworks via Synergistic Etching and Surface Functionalization. *Advanced Functional Materials*, **2016**, 26, 5827-5834	15.6	196
479	Synthesis of Discrete Alkyl-Silica Hybrid Nanowires and Their Assembly into Nanostructured Superhydrophobic Membranes. *Angewandte Chemie*, **2016**, 128, 8515-8520	3.6	15
478	Engineering Polymer Hydrogel Nanoparticles for Lymph Node-Targeted Delivery. *Angewandte Chemie - International Edition*, **2016**, 55, 1334-9	16.4	109
477	Synthesis of Discrete Alkyl-Silica Hybrid Nanowires and Their Assembly into Nanostructured Superhydrophobic Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 8375-80	16.4	54
476	A Framework to Account for Sedimentation and Diffusion in Particle-Cell Interactions. *Langmuir*, **2016**, 32, 12394-12402	4	41
475	Engineering Polymer Hydrogel Nanoparticles for Lymph Node-Targeted Delivery. *Angewandte Chemie*, **2016**, 128, 1356-1361	3.6	8
474	Immobilized Particle Imaging for Quantification of Nano- and Microparticles. *Langmuir*, **2016**, 32, 3532-40	4	12
473	Nanoengineered Templated Polymer Particles: Navigating the Biological Realm. *Accounts of Chemical Research*, **2016**, 49, 1139-48	24.3	105
472	Increasing the Impact of Materials in and beyond Bio-Nano Science. *Journal of the American Chemical Society*, **2016**, 138, 13449-13456	16.4	39
471	Metal-Phenolic Supramolecular Gelation. *Angewandte Chemie - International Edition*, **2016**, 55, 13803-13807	16.4	117
470	Modular assembly of superstructures from polyphenol-functionalized building blocks. *Nature Nanotechnology*, **2016**, 11, 1105-1111	28.7	251
469	Probing cell internalisation mechanics with polymer capsules. *Nanoscale*, **2016**, 8, 17096-17101	7.7	18
468	Nanoparticles assembled via pH-responsive reversible segregation of cyclodextrins in polyrotaxanes. *Nanoscale*, **2016**, 8, 15589-96	7.7	18
467	The "sweet" side of the protein corona: effects of glycosylation on nanoparticle-cell interactions. *ACS Nano*, **2015**, 9, 2157-66	16.7	157

466	Generalizable Strategy for Engineering Protein Particles with pH-Triggered Disassembly and Recoverable Protein Functionality. *ACS Macro Letters*, **2015**, 4, 160-164	6.6	12
465	Monoclonal antibody-functionalized multilayered particles: targeting cancer cells in the presence of protein coronas. *ACS Nano*, **2015**, 9, 2876-85	16.7	80
464	Interfacing materials science and biology for drug carrier design. *Advanced Materials*, **2015**, 27, 2278-97	24	141
463	Surface-Confined Amorphous Films from Metal-Coordinated Simple Phenolic Ligands. *Chemistry of Materials*, **2015**, 27, 5825-5832	9.6	141
462	The role of capsule stiffness on cellular processing. *Chemical Science*, **2015**, 6, 3505-3514	9.4	82
461	Capsosomes as Long-Term Delivery Vehicles for Protein Therapeutics. *Langmuir*, **2015**, 31, 7776-81	4	26
460	Redox-Sensitive PEG-Polypeptide Nanoporous Particles for Survivin Silencing in Prostate Cancer Cells. *Biomacromolecules*, **2015**, 16, 2168-78	6.9	32
459	Multilayer assembly. Technology-driven layer-by-layer assembly of nanofilms. *Science*, **2015**, 348, aaa2491	33.3	1031
458	Axonal Regeneration and Myelination: Applicabilityof the Layer-by-Layer Technology **2015**, 525-546		0
457	Polyelectrolyte Multilayer Film for the Regulation of Stem Cells in Orthopedic Field **2015**, 507-524		
456	Polyelectrolyte Multilayers for Applications in Hepatic Tissue Engineering **2015**, 487-506		
455	LbL Nanofilms Through Biological Recognition for 3D Tissue Engineering **2015**, 419-452		
454	Polyelectrolyte Multilayers as Robust Coating for Cardiovascular Biomaterials **2015**, 399-418		
453	Polyelectrolyte Multilayer Film A Smart Polymer for Vascular Tissue Engineering **2015**, 385-398		
452	Three-Dimensional Multilayered Devices for Biomedical Applications **2015**, 363-384		
451	Biocompatible and Biogenic Microcapsules **2015**, 343-362		
450	Nanoengineered Polymer Capsules: Moving into the Biological Realm **2015**, 309-342		
449	Layer-by-Layer Microcapsules Based on Functional Polysaccharides **2015**, 295-308		

448	Nanoparticle Functionalized Surfaces **2015**, 279-294		
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