You-Yeon Won

List of Publications by Year
in descending order

78 papers	6,737 citations	159358 30 h-index	62479 80 g-index
83 all docs	83 docs citations	83 times ranked	8168 citing authors

#	Article	IF	Citations
1	Polymersomes: Tough Vesicles Made from Diblock Copolymers. Science, 1999, 284, 1143-1146.	6.0	2,369
2	Polymer-based siRNA delivery: Perspectives on the fundamental and phenomenological distinctions from polymer-based DNA delivery. Journal of Controlled Release, 2007, 121, 64-73.	4.8	475
3	Preparation, stability, and in vitro performance of vesicles made with diblock copolymers. Biotechnology and Bioengineering, 2001, 73, 135-145.	1.7	384
4	Cryogenic Transmission Electron Microscopy (Cryo-TEM) of Micelles and Vesicles Formed in Water by Poly(ethylene oxide)-Based Block Copolymers. Journal of Physical Chemistry B, 2002, 106, 3354-3364.	1.2	320
5	Cross-linked Polymersome Membranes:â€‰ Vesicles with Broadly Adjustable Properties. Journal of Physical Chemistry B, 2002, 106, 2848-2854.	1.2	249
6	Thermogelling Biodegradable Polymers with Hydrophilic Backbones:Â PEG-g-PLGA. Macromolecules, 2000, 33, 8317-8322.	2.2	190
7	Phenomenology of the Initial Burst Release of Drugs from PLGA Microparticles. ACS Biomaterials Science and Engineering, 2020, 6, 6053-6062.	2.6	178
8	Molecular Exchange in PEOâ^'PB Micelles in Water. Macromolecules, 2003, 36, 953-955.	2.2	174
9	Targeted Nanotheranostics for Future Personalized Medicine: Recent Progress in Cancer Therapy. Theranostics, 2016, 6, 1362-1377.	4.6	170
10	Missing pieces in understanding the intracellular trafficking of polycation/DNA complexes. Journal of Controlled Release, 2009, 139, 88-93.	4.8	158
11	A Discussion of the pH-Dependent Protonation Behaviors of Poly(2-(dimethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Journal of Physical Chemistry B, 2011, 115, 844-860.	1.2	125
12	Nano carriers that enable co-delivery of chemotherapy and RNAi agents for treatment of drug-resistant cancers. Biotechnology Advances, 2014, 32, 1037-1050.	6.0	110
13	Influence of Nano-Carrier Architecture on in Vitro siRNA Delivery Performance and in Vivo Biodistribution: Polyplexes vs Micelleplexes. ACS Nano, 2011, 5, 3493-3505.	7.3	109
14	Directly Resolved Core-Corona Structure of Block Copolymer Micelles by Cryo-Transmission Electron Microscopy. Journal of Physical Chemistry B, 1999, 103, 10331-10334.	1.2	104
15	Effects of the Incorporation of a Hydrophobic Middle Block into a PEGâ^'Polycation Diblock Copolymer on the Physicochemical and Cell Interaction Properties of the Polymerâ^'DNA Complexes. Biomacromolecules, 2008, 9, 3294-3307.	2.6	90
16	Segment Distribution of the Micellar Brushes of Poly(ethylene oxide) via Small-Angle Neutron Scattering. Journal of Physical Chemistry B, 2000, 104, 7134-7143.	1.2	89
17	Effect of Temperature on Carbon-Black Agglomeration in Hydrocarbon Liquid with Adsorbed Dispersant. Langmuir, 2005, 21, 924-932.	1.6	82
18	Block Copolymer Electrolytes Synthesized by Atom Transfer Radical Polymerization for Solid-State, Thin-Film Lithium Batteries. Electrochemical and Solid-State Letters, 2002, 5, A85.	2.2	80

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19	Effects of nanoparticles on the mechanical functioning of the lung. Advances in Colloid and Interface Science, 2015, 225, 218-228.	7.0	70
20	Effects of the Molecular Weight and Concentration of Polymer Additives, and Temperature on the Melt Crystallization Kinetics of a Small Drug Molecule. Crystal Growth and Design, 2010, 10, 3585-3595.	1.4	66
21	Elucidating a Unified Mechanistic Scheme for the DBU-Catalyzed Ring-Opening Polymerization of Lactide to Poly(lactic acid). Macromolecules, 2016, 49, 4699-4713.	2.2	61
22	Preparation of Calcium Alginate Microgel Beads in an Electrodispersion Reactor Using an Internal Source of Calcium Carbonate Nanoparticles. Langmuir, 2007, 23, 12489-12496.	1.6	59
23	The Effect of N/<scp>P</scp> Ratio on the In Vitro and In Vivo Interaction Properties of <scp>PEG</scp>ylated Poly[2â€(dimethylamino)ethyl methacrylate]â€<scp>B</scp>ased si<scp>RNA</scp> Complexes. Macromolecular Bioscience, 2013, 13, 1059-1071.	2.1	58
24	Comparison of Original and Cross-linked Wormlike Micelles of Poly(ethylene oxide-b-butadiene) in Water:â€‰ Rheological Properties and Effects of Poly(ethylene oxide) Addition. Journal of Physical Chemistry B, 2001, 105, 8302-8311.	1.2	56
25	Self-Consistent Field Theory Study of the Effect of Grafting Density on the Height of a Weak Polyelectrolyte Brush. Journal of Physical Chemistry B, 2009, 113, 11076-11084.	1.2	50
26	Near-Infrared Plasmonic Assemblies of Gold Nanoparticles with Multimodal Function for Targeted Cancer Theragnosis. Scientific Reports, 2017, 7, 17327.	1.6	39
27	Fabrication of high-quality non-close-packed 2D colloid crystals by template-guided Langmuirâ€“Blodgett particle deposition. Soft Matter, 2008, 4, 1261.	1.2	38
28	Application of Molecular Rotors to the Determination of the Molecular Weight Dependence of Viscosity in Polymer Melts. Macromolecules, 2007, 40, 7730-7732.	2.2	35
29	Effect of Surfactant on Unilamellar Polymeric Vesicles:Â Altered Membrane Properties and Stability in the Limit of Weak Surfactant Partitioning. Langmuir, 2002, 18, 7299-7308.	1.6	34
30	Self-Consistent-Field Analysis of Mixed Polyelectrolyte and Neutral Polymer Brushes. Macromolecules, 2006, 39, 7757-7768.	2.2	31
31	Facile fabrication of flower-like MoS2/nanodiamond nanocomposite toward high-performance humidity detection. Sensors and Actuators B: Chemical, 2020, 317, 128168.	4.0	28
32	On the Origins of the Salt-Concentration-Dependent Instability and Lateral Nanoscale Heterogeneities of Weak Polyelectrolyte Brushes: Gradient Brush Experiment and Flory-Type Theoretical Analysis. Langmuir, 2010, 26, 2021-2034.	1.6	26
33	Formation and Collapse of Single-Monomer-Thick Monolayers of Poly(n-butyl acrylate) at the Airâ^'Water Interface. Macromolecules, 2010, 43, 2990-3003.	2.2	26
34	Study of the Airâ€“Water Interfacial Properties of Biodegradable Polyesters and Their Block Copolymers with Poly(ethylene glycol). Langmuir, 2012, 28, 11555-11566.	1.6	25
35	A photo-degradable gene delivery system for enhanced nuclear gene transcription. Biomaterials, 2014, 35, 1040-1049.	5.7	25
36	Radioluminescent nanoparticles for radiation-controlled release of drugs. Journal of Controlled Release, 2019, 303, 237-252.	4.8	23

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37	Clinical, technological, and economic issues associated with developing new lung surfactant therapeutics. Biotechnology Advances, 2018, 36, 1185-1193.	6.0	22
38	Inhibitive Chain Transfer to Ligand in the ATRP ofn-Butyl Acrylate. Macromolecules, 2006, 39, 4680-4689.	2.2	21
39	Water Is a Poor Solvent for Densely Grafted Poly(ethylene oxide) Chains: A Conclusion Drawn from a Self-Consistent Field Theory-Based Analysis of Neutron Reflectivity and Surface Pressureâ€“Area Isotherm Data. Journal of Physical Chemistry B, 2012, 116, 7367-7378.	1.2	21
40	MoS₂/Graphene Oxide/C₆₀-OH Nanostructures Deposited on a Quartz Crystal Microbalance Transducer for Humidity Sensing. ACS Applied Nano Materials, 2021, 4, 10810-10818.	2.4	21
41	Preparation of Super-Stable Gold Nanorods via Encapsulation into Block Copolymer Micelles. ACS Applied Materials & Interfaces, 2012, 4, 1872-1877.	4.0	20
42	Humidity-dependent compression-induced glass transition of the airâ€“water interfacial Langmuir films of poly(<scp>d</scp>,<scp>l</scp>-lactic acid-ran-glycolic acid) (PLGA). Soft Matter, 2015, 11, 5666-5677.	1.2	20
43	Block Copolymer-Encapsulated CaWO₄ Nanoparticles: Synthesis, Formulation, and Characterization. ACS Applied Materials & Interfaces, 2016, 8, 8608-8619.	4.0	20
44	Genetic Assembly of Doubleâ€Layered Fluorescent Protein Nanoparticles for Cancer Targeting and Imaging. Advanced Science, 2017, 4, 1600471.	5.6	19
45	Determining the effects of PEI adsorption on the permeability of 1,2-dipalmitoylphosphatidylcholine/bis(monoacylglycero)phosphate membranes under osmotic stress. Acta Biomaterialia, 2018, 65, 317-326.	4.1	19
46	Imaging nanostructured fluids using cryo-TEM. Korean Journal of Chemical Engineering, 2004, 21, 296-302.	1.2	18
47	Nontoxic Formulations of Scintillation Nanocrystals for Use as X-ray Computed Tomography Contrast Agents. Bioconjugate Chemistry, 2017, 28, 171-182.	1.8	18
48	PEGâ€“PLA-Coated and Uncoated Radio-Luminescent CaWO₄ Micro- and Nanoparticles for Concomitant Radiation and UV-A/Radio-Enhancement Cancer Treatments. ACS Biomaterials Science and Engineering, 2018, 4, 1445-1462.	2.6	18
49	Shear-induced particle migration and segregation in non-Brownian bidisperse suspensions under planar Poiseuille flow. Journal of Rheology, 2019, 63, 437-453.	1.3	18
50	Polymer Lung Surfactants. ACS Applied Bio Materials, 2018, 1, 581-592.	2.3	17
51	Evidence of Lateral Nanoscale Heterogeneities in Weak Polyelectrolyte Brushes. Macromolecules, 2008, 41, 8960-8963.	2.2	16
52	Enhancement of Mechano-Sensitivity for Spiropyran-Linked Poly(dimethylsiloxane) via Solvent Swelling. Macromolecules, 2020, 53, 7954-7961.	2.2	16
53	Surface mechanical behavior of water-spread poly(styrene)â€“poly(ethylene glycol) (PSâ€“PEG) micelles at the airâ€“water interface: Effect of micelle size and polymer end/linking group chemistry. Journal of Colloid and Interface Science, 2022, 617, 764-777.	5.0	15
54	Reduced Water Density in a Poly(ethylene oxide) Brush. Journal of Physical Chemistry Letters, 2012, 3, 1589-1595.	2.1	13

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55	Folic Acid-Conjugated Radioluminescent Calcium Tungstate Nanoparticles as Radio-Sensitizers for Cancer Radiotherapy. ACS Biomaterials Science and Engineering, 2019, 5, 4776-4789.	2.6	13
56	Revised Formulation of Fickâ€™s, Fourierâ€™s, and Newtonâ€™s Laws for Spatially Varying Linear Transport Coefficients. ACS Omega, 2019, 4, 11215-11222.	1.6	13
57	Effect of Interfacial Curvature on the Miscibility of Laterally Mobile, Mixed Polyelectrolyte and Neutral Polymer Brushes: An SCF Numerical Analysis. Macromolecules, 2008, 41, 2735-2738.	2.2	12
58	Surface Mechanical and Rheological Behaviors of Biocompatible Poly((d,l-lactic acid-ran-glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 Interface. Langmuir, 2015, 31, 13821-13833.	1.6	12
59	Bilirubin-Coated Radioluminescent Particles for Radiation-Induced Photodynamic Therapy. ACS Applied Bio Materials, 2020, 3, 4858-4872.	2.3	12
60	Confinement induced lateral segregation of polymer coated nanospheres. Soft Matter, 2012, 8, 1688-1700.	1.2	10
61	Increased humidity can soften glassy Langmuir polymer films by two mechanisms: plasticization of the polymer material, and suppression of the evaporation cooling effect. Physical Chemistry Chemical Physics, 2017, 19, 10663-10675.	1.3	10
62	Two-Dimensional Colloid Crystals Templated by Polyelectrolyte Multilayer Patterns. Langmuir, 2008, 24, 5382-5392.	1.6	9
63	Crystallization of Bidisperse Repulsive Colloids in Two-Dimensional Space: A Study of Model Systems Constructed at the Airâ^'Water Interface. Langmuir, 2010, 26, 11737-11749.	1.6	9
64	Technical Note: A simulation study on the feasibility of radiotherapy dose enhancement with calcium tungstate and hafnium oxide nanoâ€•and microparticles. Medical Physics, 2017, 44, 6583-6588.	1.6	9
65	Airâ€“Water Interfacial Properties of Chloroform-Spread versus Water-Spread Poly((<scp>d</scp>,<scp>l</scp>-lactic acid-co-glycolic acid)-block-ethylene glycol) (PLGA-PEG) Polymers. Langmuir, 2018, 34, 4874-4887.	1.6	9
66	â€œpH phoresisâ€• A new concept that can be used for improving drug delivery to tumor cells. Journal of Controlled Release, 2013, 170, 396-400.	4.8	8
67	Macroscopic lateral heterogeneity observed in a laterally mobile immiscible mixed polyelectrolyteâ€“neutral polymer brush. Soft Matter, 2014, 10, 3771-3782.	1.2	8
68	Laser-Induced CO₂ Generation from Gold Nanorod-Containing Poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T Materials & Interfaces, 2018, 10, 26084-26098.	4.0	8
69	Unexpected conformational behavior of poly(poly(ethylene glycol) methacrylate)-poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overloc copolymers in micellar solution and at the air-water interface. Journal of Colloid and Interface Science, 2020, 566, 304-315.	5.0	8
70	In Situ Polymerized Carbon Nanotube/Polyimide Nanocomposites: Effect of Reaction Stoichiometry on the Glass Transition Properties of the Nanocomposites. Macromolecular Reaction Engineering, 2012, 6, 45-56.	0.9	6
71	Pulmonary Pharmacokinetics of Polymer Lung Surfactants Following Pharyngeal Administration in Mice. Biomacromolecules, 2022, 23, 2471-2484.	2.6	6
72	Strategy for Synthesis of Statistically Sequence-Controlled Uniform PLGA and Effects of Sequence Distribution on Interaction and Drug Release Properties. ACS Macro Letters, 2021, 10, 1510-1516.	2.3	5

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73	Effect of Paclitaxel Stereochemistry on X-ray-Triggered Release of Paclitaxel from CaWO₄/Paclitaxel-Coloaded PEG-PLA Nanoparticles. Molecular Pharmaceutics, 2022, 19, 2776-2794.	2.3	5
74	CO2-producing polymer micelles. Polymer Degradation and Stability, 2015, 120, 149-157.	2.7	4
75	A simple derivation of the critical condition for the ultrasonic atomization of polymer solutions. Ultrasonics, 2015, 61, 20-24.	2.1	4
76	Investigation of the Mechanisms and Kinetics of DBU-Catalyzed PLGA Copolymerization via a Full-Scale Population Balance Analysis. Industrial & Engineering Chemistry Research, 2021, 60, 14685-14700.	1.8	4
77	Cellular mimics engineered from diblock copolymers. , 0, , .		3
78	Pilot-Scale Optimization of the Solvent Exchange Production and Lyophilization Processing of PEGâ€“PLA Block Copolymer-Encapsulated CaWO₄ Radioluminescent Nanoparticles for Theranostic Applications. Industrial & Engineering Chemistry Research, 2021, 60, 7081-7096.	1.8	2