Nam-Joon Cho

List of Publications by Year in Descending Order

261 papers	7,851 citations	45 h-index	75 g-index
281 ext. papers	9,443 ext. citations	8.2 avg, IF	6.62 L-index

#	Paper	IF	Citations
261	Nanoarchitectured air-stable supported lipid bilayer incorporating sucrose-bicelle complex system.. *Nano Convergence*, **2022**, 9, 3	9.2	0
260	Multivalency-Induced Shape Deformation of Nanoscale Lipid Vesicles: Size-Dependent Membrane Bending Effects.. *Journal of Physical Chemistry Letters*, **2022**, 1480-1488	6.4	2
259	Recyclable and reusable natural plant-based paper for repeated digital printing and unprinting.. *Advanced Materials*, **2022**, e2109367	24	2
258	Microplastics released from food containers can suppress lysosomal activity in mouse macrophages.. *Journal of Hazardous Materials*, **2022**, 435, 128980	12.8	4
257	Unraveling the distinct germination processes of sporopollenin-based pollen grains and spores through morphological analyses upon natural nano-architectonics process. *Applied Materials Today*, **2022**, 27, 101471	6.6	1
256	Role of Membrane Stretch in Adsorption of Antiviral Peptides onto Lipid Membranes and Membrane Pore Formation. *Langmuir*, **2021**, 37, 13390-13398	4	2
255	Surface engineering of plasmonic gold nanoisland platforms for high-sensitivity refractometric biosensing applications. *Applied Materials Today*, **2021**, 26, 101280	6.6	0
254	Digital printing of shape-morphing natural materials. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
253	Engineered lipid bicelle nanostructures for membrane-disruptive antibacterial applications. *Applied Materials Today*, **2021**, 22, 100947	6.6	4
252	Addressing the digital skills gap for future education. *Nature Human Behaviour*, **2021**, 5, 542-545	12.8	3
251	Colloid-Mediated Fabrication of a 3D Pollen Sponge for Oil Remediation Applications. *Advanced Functional Materials*, **2021**, 31, 2101091	15.6	8
250	Mechanistic Aspects of the Evolution of 3D Cholesterol Crystallites in a Supported Lipid Membrane via a Quartz Crystal Microbalance with Dissipation Monitoring. *Langmuir*, **2021**, 37, 4562-4570	4	1
249	Graphene Oxide Mimics Biological Signaling Cue to Rescue Starving Bacteria. *Advanced Functional Materials*, **2021**, 31, 2102328	15.6	3
248	An Intrinsically Micro-/Nanostructured Pollen Substrate with Tunable Optical Properties for Optoelectronic Applications. *Advanced Materials*, **2021**, 33, e2100566	24	5
247	Ultrahigh surface sensitivity of deposited gold nanorod arrays for nanoplasmonic biosensing. *Applied Materials Today*, **2021**, 23, 101046	6.6	3
246	3D Pollen Sponge: Colloid-Mediated Fabrication of a 3D Pollen Sponge for Oil Remediation Applications (Adv. Funct. Mater. 24/2021). *Advanced Functional Materials*, **2021**, 31, 2170173	15.6	0
245	Unraveling How Multivalency Triggers Shape Deformation of Sub-100 nm Lipid Vesicles. *Journal of Physical Chemistry Letters*, **2021**, 12, 6722-6729	6.4	4

244	Highly substituted decoupled gelatin methacrylamide free of hydrolabile methacrylate impurities: An optimum choice for long-term stability and cytocompatibility. *International Journal of Biological Macromolecules*, **2021**, 167, 479-490	7.9	5
243	Biomimetic Nanomaterial Strategies for Virus Targeting: Antiviral Therapies and Vaccines. *Advanced Functional Materials*, **2021**, 31, 2008352	15.6	9
242	Stopping Membrane-Enveloped Viruses with Nanotechnology Strategies: Toward Antiviral Drug Development and Pandemic Preparedness. *ACS Nano*, **2021**, 15, 125-148	16.7	22
241	Self-Assembly of Solubilized Human Hair Keratins. *ACS Biomaterials Science and Engineering*, **2021**, 7, 83-89	5.5	3
240	Real-time nanoplasmonic sensing of three-dimensional morphological changes in a supported lipid bilayer and antimicrobial testing applications. *Biosensors and Bioelectronics*, **2021**, 174, 112768	11.8	6
239	Chemical design principles of next-generation antiviral surface coatings. *Chemical Society Reviews*, **2021**, 50, 9741-9765	58.5	5
238	Comparing Protein Adsorption onto Alumina and Silica Nanomaterial Surfaces: Clues for Vaccine Adjuvant Development. *Langmuir*, **2021**, 37, 1306-1314	4	7
237	Conformational stability as a quality attribute for the cell therapy raw material human serum albumin.. *RSC Advances*, **2021**, 11, 15332-15339	3.7	0
236	Solvent-induced conformational tuning of lysozyme protein adlayers on silica surfaces: A QCM-D and LSPR study. *International Journal of Biological Macromolecules*, **2021**, 182, 1906-1914	7.9	1
235	Biophysical Measurement Strategies for Antiviral Drug Development: Recent Progress in Virus-Mimetic Platforms Down to the Single Particle Level. *Accounts of Chemical Research*, **2021**, 54, 3204-3214	24.3	1
234	Dynamic remodeling of giant unilamellar vesicles induced by monoglyceride nano-micelles: Insights into supramolecular organization. *Applied Materials Today*, **2021**, 24, 101099	6.6	2
233	Lipid bilayer coatings for rapid enzyme-linked immunosorbent assay. *Applied Materials Today*, **2021**, 24, 101128	6.6	0
232	Lipid Nanoparticle Technology for Delivering Biologically Active Fatty Acids and Monoglycerides. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
231	Supported lipid bilayer coatings: Fabrication, bioconjugation, and diagnostic applications. *Applied Materials Today*, **2021**, 25, 101183	6.6	1
230	Engineering Natural Pollen Grains as Multifunctional 3D Printing Materials (Adv. Funct. Mater. 49/2021). *Advanced Functional Materials*, **2021**, 31, 2170360	15.6	1
229	Materials science approaches in the development of broad-spectrum antiviral therapies. *Nature Materials*, **2020**, 19, 813-816	27	27
228	pH-Dependent Antibacterial Activity of Glycolic Acid: Implications for Anti-Acne Formulations. *Scientific Reports*, **2020**, 10, 7491	4.9	4
227	Competing Interactions of Fatty Acids and Monoglycerides Trigger Synergistic Phospholipid Membrane Remodeling. *Journal of Physical Chemistry Letters*, **2020**, 11, 4951-4957	6.4	11

226	Understanding how natural sequence variation in serum albumin proteins affects conformational stability and protein adsorption. *Colloids and Surfaces B: Biointerfaces*, **2020**, 194, 111194	6	13
225	Unraveling how nanoscale curvature drives formation of lysozyme protein monolayers on inorganic oxide surfaces. *Applied Materials Today*, **2020**, 20, 100729	6.6	2
224	Transformation of hard pollen into soft matter. *Nature Communications*, **2020**, 11, 1449	17.4	28
223	Microrobots Derived from Variety Plant Pollen Grains for Efficient Environmental Clean Up and as an Anti-Cancer Drug Carrier. *Advanced Functional Materials*, **2020**, 30, 2000112	15.6	29
222	Biologically interfaced nanoplasmonic sensors. *Nanoscale Advances*, **2020**, 2, 3103-3114	5.1	5
221	Influence of Chemical and Physical Change of Pollen Microgels on Swelling/De-Swelling Behavior. *Macromolecular Rapid Communications*, **2020**, 41, e2000155	4.8	3
220	A facile approach to patterning pollen microparticles for in situ imaging. *Applied Materials Today*, **2020**, 20, 100702	6.6	2
219	Scalable Fabrication of Quasi-One-Dimensional Gold Nanoribbons for Plasmonic Sensing. *Nano Letters*, **2020**, 20, 1747-1754	11.5	10
218	Degradation of the sporopollenin exine capsules (SECs) in human plasma. *Applied Materials Today*, **2020**, 19, 100594	6.6	4
217	Supported lipid bilayer platform for characterizing the optimization of mixed monoglyceride nano-micelles. *Applied Materials Today*, **2020**, 19, 100598	6.6	4
216	Lipid Bicelle Micropatterning Using Chemical Lift-Off Lithography. *ACS Applied Materials & Interfaces*, **2020**, 12, 13447-13455	9.5	9
215	Photocurable Albumin Methacryloyl Hydrogels as a Versatile Platform for Tissue Engineering.. *ACS Applied Bio Materials*, **2020**, 3, 920-934	4.1	13
214	Supported Lipid Bilayer Formation: Beyond Vesicle Fusion. *Langmuir*, **2020**, 36, 1387-1400	4	50
213	Actuation and locomotion driven by moisture in paper made with natural pollen. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 8711-8718	11.5	30
212	Supported Lipid Bilayer Formation from Phospholipid-Fatty Acid Bicellar Mixtures. *Langmuir*, **2020**, 36, 5021-5029	4	11
211	Probing the influence of tether density on tethered bilayer lipid membrane (tBLM)-peptide interactions. *Applied Materials Today*, **2020**, 18, 100527	6.6	2
210	Hydrophobic to superhydrophilic tuning of multifunctional sporopollenin for microcapsule and bio-composite applications. *Applied Materials Today*, **2020**, 18, 100525	6.6	5
209	Optimal formation of uniform-phase supported lipid bilayers from phospholipid–monoglyceride bicellar mixtures. *Journal of Industrial and Engineering Chemistry*, **2020**, 88, 285-291	6.3	9

208	Unraveling How Ethanol-Induced Conformational Changes Affect BSA Protein Adsorption onto Silica Surfaces. *Langmuir*, **2020**, 36, 9215-9224	4	8
207	Medicinal Activities and Nanomedicine Delivery Strategies for Oil and Its Molecular Components. *Molecules*, **2020**, 25,	4.8	6
206	Conformational flexibility of fatty acid-free bovine serum albumin proteins enables superior antifouling coatings. *Communications Materials*, **2020**, 1,	6	21
205	Lipid-Bicelle-Coated Microfluidics for Intracellular Delivery with Reduced Fouling. *ACS Applied Materials & Interfaces*, **2020**, 12, 45744-45752	9.5	6
204	Cloaking Silica Nanoparticles with Functional Protein Coatings for Reduced Complement Activation and Cellular Uptake. *ACS Nano*, **2020**, 14, 11950-11961	16.7	13
203	Elucidating How Different Amphipathic Stabilizers Affect BSA Protein Conformational Properties and Adsorption Behavior. *Langmuir*, **2020**, 36, 10606-10614	4	9
202	Versatile formation of supported lipid bilayers from bicellar mixtures of phospholipids and capric acid. *Scientific Reports*, **2020**, 10, 13849	4.9	6
201	Crystallization of Cholesterol in Phospholipid Membranes Follows Ostwald's Rule of Stages. *Journal of the American Chemical Society*, **2020**, 142, 21872-21882	16.4	5
200	Disentangling bulk polymers from adsorbed polymers using the quartz crystal microbalance. *Applied Materials Today*, **2020**, 18, 100460	6.6	1
199	Surface-Based Nanoplasmonic Sensors for Biointerfacial Science Applications. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 1404-1412	5.1	36
198	Dynamic Control of Intramolecular Rotation by Tuning the Surrounding Two-Dimensional Matrix Field. *ACS Nano*, **2019**, 13, 2410-2419	16.7	29
197	Solvent-assisted preparation of supported lipid bilayers. *Nature Protocols*, **2019**, 14, 2091-2118	18.8	35
196	In-depth characterization of congenital Zika syndrome in immunocompetent mice: Antibody-dependent enhancement and an antiviral peptide therapy. *EBioMedicine*, **2019**, 44, 516-529	8.8	20
195	Understanding How Membrane Surface Charge Influences Lipid Bicelle Adsorption onto Oxide Surfaces. *Langmuir*, **2019**, 35, 8436-8444	4	16
194	Improved Size Determination by Nanoparticle Tracking Analysis: Influence of Recognition Radius. *Analytical Chemistry*, **2019**, 91, 9508-9515	7.8	10
193	Modulating conformational stability of human serum albumin and implications for surface passivation applications. *Colloids and Surfaces B: Biointerfaces*, **2019**, 180, 306-312	6	7
192	Gelatin methacryloyl and its hydrogels with an exceptional degree of controllability and batch-to-batch consistency. *Scientific Reports*, **2019**, 9, 6863	4.9	87
191	Response of microbial membranes to butanol: interdigitation vs. disorder. *Physical Chemistry Chemical Physics*, **2019**, 21, 11903-11915	3.6	11

190	Microfluidic liquid cell chamber for scanning probe microscopy measurement application. *Review of Scientific Instruments*, **2019**, 90, 046105	1.7	6
189	Validation of Size Estimation of Nanoparticle Tracking Analysis on Polydisperse Macromolecule Assembly. *Scientific Reports*, **2019**, 9, 2639	4.9	43
188	Minimal Reconstitution of Membranous Web Induced by a Vesicle-Peptide Sol-Gel Transition. *Biomacromolecules*, **2019**, 20, 1709-1718	6.9	3
187	Human blood plasma catalyses the degradation of Lycopodium plant sporoderm microcapsules. *Scientific Reports*, **2019**, 9, 2944	4.9	3
186	Micropatterned Viral Membrane Clusters for Antiviral Drug Evaluation. *ACS Applied Materials & Interfaces*, **2019**, 11, 13984-13990	9.5	4
185	Nanoplasmonic Sensor Detects Preferential Binding of IRSp53 to Negative Membrane Curvature. *Frontiers in Chemistry*, **2019**, 7, 1	5	263
184	Characterizing the Membrane-Disruptive Behavior of Dodecylglycerol Using Supported Lipid Bilayers. *Langmuir*, **2019**, 35, 3568-3575	4	10
183	Species-Specific Biodegradation of Sporopollenin-Based Microcapsules. *Scientific Reports*, **2019**, 9, 9626	4.9	7
182	Molecular diffusion and nano-mechanical properties of multi-phase supported lipid bilayers. *Physical Chemistry Chemical Physics*, **2019**, 21, 16686-16693	3.6	10
181	Comparing the Membrane-Interaction Profiles of Two Antiviral Peptides: Insights into Structure-Function Relationship. *Langmuir*, **2019**, 35, 9934-9943	4	17
180	Influence of NaCl Concentration on Bicelle-Mediated SLB Formation. *Langmuir*, **2019**, 35, 10658-10666	4	24
179	Quantitative accounting of dye leakage and photobleaching in single lipid vesicle measurements: Implications for biomacromolecular interaction analysis. *Colloids and Surfaces B: Biointerfaces*, **2019**, 182, 110338	6	4
178	Porcine hepatocytes culture on biofunctionalized 3D inverted colloidal crystal scaffolds as an model for predicting drug hepatotoxicity.. *RSC Advances*, **2019**, 9, 17995-18007	3.7	6
177	Characterizing the Supported Lipid Membrane Formation from Cholesterol-Rich Bicelles. *Langmuir*, **2019**, 35, 15063-15070	4	20
176	Nanoarchitectonic-Based Material Platforms for Environmental and Bioprocessing Applications. *Chemical Record*, **2019**, 19, 1891-1912	6.6	14
175	Targeting the Achilles Heel of Mosquito-Borne Viruses for Antiviral Therapy. *ACS Infectious Diseases* , **2019**, 5, 4-8	5.5	19
174	Hybrid Biomimetic Interfaces Integrating Supported Lipid Bilayers with Decellularized Extracellular Matrix Components. *Langmuir*, **2018**, 34, 3507-3516	4	6
173	Light-Induced Surface Modification of Natural Plant Microparticles: Toward Colloidal Science and Cellular Adhesion Applications. *Advanced Functional Materials*, **2018**, 28, 1707568	15.6	15

172	Preserving the inflated structure of lyophilized sporopollenin exine capsules with polyethylene glycol osmolyte. *Journal of Industrial and Engineering Chemistry*, **2018**, 61, 255-264	6.3	10
171	Interfacial Forces Dictate the Pathway of Phospholipid Vesicle Adsorption onto Silicon Dioxide Surfaces. *Langmuir*, **2018**, 34, 1775-1782	4	40
170	Effect of Glucose on the Mobility of Membrane-Adhering Liposomes. *Langmuir*, **2018**, 34, 503-511	4	4
169	Functionalized Natural Particles: Light-Induced Surface Modification of Natural Plant Microparticles: Toward Colloidal Science and Cellular Adhesion Applications (Adv. Funct. Mater. 18/2018). *Advanced Functional Materials*, **2018**, 28, 1870120	15.6	
168	Extraction of cage-like sporopollenin exine capsules from dandelion pollen grains. *Scientific Reports* , **2018**, 8, 6565	4.9	14
167	Membrane Reconstitution of Monoamine Oxidase Enzymes on Supported Lipid Bilayers. *Langmuir*, **2018**, 34, 10764-10773	4	1
166	Macromolecular Microencapsulation Using Pine Pollen: Loading Optimization and Controlled Release with Natural Materials. *ACS Applied Materials & Interfaces*, **2018**, 10, 28428-28439	9.5	16
165	Fabrication of Multicomponent, Spatially Segregated DNA and Protein-Functionalized Supported Membrane Microarray. *Langmuir*, **2018**, 34, 9781-9788	4	4
164	Spatially Controlled Molecular Encapsulation in Natural Pine Pollen Microcapsules. *Particle and Particle Systems Characterization*, **2018**, 35, 1800151	3.1	5
163	Human iPS derived progenitors bioengineered into liver organoids using an inverted colloidal crystal poly (ethylene glycol) scaffold. *Biomaterials*, **2018**, 182, 299-311	15.6	62
162	Antibacterial Free Fatty Acids and Monoglycerides: Biological Activities, Experimental Testing, and Therapeutic Applications. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	166
161	Quantitative Comparison of Protein Adsorption and Conformational Changes on Dielectric-Coated Nanoplasmonic Sensing Arrays. *Sensors*, **2018**, 18,	3.8	14
160	Membrane adaptation limitations in underlie sensitivity and the inability to develop significant resistance to conjugated oligoelectrolytes.. *RSC Advances*, **2018**, 8, 10284-10293	3.7	10
159	Amyloid-□Peptide Triggers Membrane Remodeling in Supported Lipid Bilayers Depending on Their Hydrophobic Thickness. *Langmuir*, **2018**, 34, 9548-9560	4	9
158	Targeting the Achilles Heel of Zika Virus and Other Emerging Viral Pathogens. *Advanced Therapeutics*, **2018**, 1, 1800045	4.9	3
157	Hydrolytic Stability of Methacrylamide and Methacrylate in Gelatin Methacryloyl and Decoupling of Gelatin Methacrylamide from Gelatin Methacryloyl through Hydrolysis. *Macromolecular Chemistry and Physics*, **2018**, 219, 1800266	2.6	16
156	Envisioning Scientific Innovation in Korea□s Demilitarized Zone: A Step toward Economic Progress and Global Peace. *ACS Nano*, **2018**, 12, 5073-5077	16.7	0
155	A Broad-Spectrum Antiviral Peptide for Combating Emerging Viral Pathogens. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY28-1	0	

154	Self-association and conformational variation of NS5A domain 1 of hepatitis C virus. *Journal of General Virology*, **2018**, 99, 194-208	4.9	1
153	Complement activation in vitro and reactogenicity of low-molecular weight dextran-coated SPIONs in the pig CARPA model: Correlation with physicochemical features and clinical information. *Journal of Controlled Release*, **2018**, 270, 268-274	11.7	25
152	Nanoplasmonic sensors for detecting circulating cancer biomarkers. *Advanced Drug Delivery Reviews*, **2018**, 125, 48-77	18.5	69
151	A Numerical Study on the Effect of Particle Surface Coverage on the Quartz Crystal Microbalance Response. *Analytical Chemistry*, **2018**, 90, 2238-2245	7.8	20
150	Nanoplasmonic Ruler for Measuring Separation Distance between Supported Lipid Bilayers and Oxide Surfaces. *Analytical Chemistry*, **2018**, 90, 12503-12511	7.8	13
149	Characterizing How Acidic pH Conditions Affect the Membrane-Disruptive Activities of Lauric Acid and Glycerol Monolaurate. *Langmuir*, **2018**, 34, 13745-13753	4	19
148	Therapeutic treatment of Zika virus infection using a brain-penetrating antiviral peptide. *Nature Materials*, **2018**, 17, 971-977	27	52
147	Temperature-Induced Denaturation of BSA Protein Molecules for Improved Surface Passivation Coatings. *ACS Applied Materials & Interfaces*, **2018**, 10, 32047-32057	9.5	47
146	Nanoplasmonic Sensing Architectures for Decoding Membrane Curvature-Dependent Biomacromolecular Interactions. *Analytical Chemistry*, **2018**, 90, 7458-7466	7.8	13
145	Fluorescence-based immunosensor using three-dimensional CNT network structure for sensitive and reproducible detection of oral squamous cell carcinoma biomarker. *Analytica Chimica Acta*, **2018**, 1027, 101-108	6.6	21
144	Materials Nanoarchitectonics for Mechanical Tools in Chemical and Biological Sensing. *Chemistry - an Asian Journal*, **2018**, 13, 3366-3377	4.5	34
143	Correlating Membrane Morphological Responses with Micellar Aggregation Behavior of Capric Acid and Monocaprin. *Langmuir*, **2017**, 33, 2750-2759	4	32
142	High-performance, flexible electronic skin sensor incorporating natural microcapsule actuators. *Nano Energy*, **2017**, 36, 38-45	17.1	116
141	A flexible, ultra-sensitive chemical sensor with 3D biomimetic templating for diabetes-related acetone detection. *Journal of Materials Chemistry B*, **2017**, 5, 4019-4024	7.3	55
140	Optimizing the Formation of Supported Lipid Bilayers from Bicellar Mixtures. *Langmuir*, **2017**, 33, 5052-5064	4	37
139	Plant-Based Hollow Microcapsules for Oral Delivery Applications: Toward Optimized Loading and Controlled Release. *Advanced Functional Materials*, **2017**, 27, 1700270	15.6	50
138	Chemical processing strategies to obtain sporopollenin exine capsules from multi-compartmental pine pollen. *Journal of Industrial and Engineering Chemistry*, **2017**, 53, 375-385	6.3	16
137	Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anion-Interactions. *Journal of the American Chemical Society*, **2017**, 139, 7823-7830	16.4	60

136	Cell Adhesion: Dynamic Cellular Interactions with Extracellular Matrix Triggered by Biomechanical Tuning of Low-Rigidity, Supported Lipid Membranes (Adv. Healthcare Mater. 10/2017). *Advanced Healthcare Materials*, **2017**, 6,	10.1	1
135	Probing Spatial Proximity of Supported Lipid Bilayers to Silica Surfaces by Localized Surface Plasmon Resonance Sensing. *Analytical Chemistry*, **2017**, 89, 4301-4308	7.8	20
134	Nanoplasmonic sensors for biointerfacial science. *Chemical Society Reviews*, **2017**, 46, 3615-3660	58.5	147
133	Dynamic Cellular Interactions with Extracellular Matrix Triggered by Biomechanical Tuning of Low-Rigidity, Supported Lipid Membranes. *Advanced Healthcare Materials*, **2017**, 6, 1700243	10.1	19
132	Controlling adsorption and passivation properties of bovine serum albumin on silica surfaces by ionic strength modulation and cross-linking. *Physical Chemistry Chemical Physics*, **2017**, 19, 8854-8865	3.6	32
131	Investigating how vesicle size influences vesicle adsorption on titanium oxide: a competition between steric packing and shape deformation. *Physical Chemistry Chemical Physics*, **2017**, 19, 2131-2139	3.6	24
130	Quantitative Profiling of Nanoscale Liposome Deformation by a Localized Surface Plasmon Resonance Sensor. *Analytical Chemistry*, **2017**, 89, 1102-1109	7.8	43
129	Detection of Amphipathic Viral Peptide on Screen-Printed Electrodes by Liposome Rupture Impact Voltammetry. *Analytical Chemistry*, **2017**, 89, 11753-11757	7.8	5
128	Quantitative Evaluation of Viral Protein Binding to Phosphoinositide Receptors and Pharmacological Inhibition. *Analytical Chemistry*, **2017**, 89, 9742-9750	7.8	5
127	Bioinspired Spiky Micromotors Based on Sporopollenin Exine Capsules. *Advanced Functional Materials*, **2017**, 27, 1702338	15.6	74
126	Colloidal templating of highly ordered gelatin methacryloyl-based hydrogel platforms for three-dimensional tissue analogues. *NPG Asia Materials*, **2017**, 9, e412-e412	10.3	32
125	A model derived from hydrodynamic simulations for extracting the size of spherical particles from the quartz crystal microbalance. *Analyst, The*, **2017**, 142, 3370-3379	5	19
124	Quartz Crystal Microbalance Model for Quantitatively Probing the Deformation of Adsorbed Particles at Low Surface Coverage. *Analytical Chemistry*, **2017**, 89, 11711-11718	7.8	20
123	Understanding How Sterols Regulate Membrane Remodeling in Supported Lipid Bilayers. *Langmuir*, **2017**, 33, 14756-14765	4	19
122	Indirect Nanoplasmonic Sensing Platform for Monitoring Temperature-Dependent Protein Adsorption. *Analytical Chemistry*, **2017**, 89, 12976-12983	7.8	29
121	Influence of natural organic matter (NOM) coatings on nanoparticle adsorption onto supported lipid bilayers. *Journal of Hazardous Materials*, **2017**, 339, 264-273	12.8	5
120	Immobilization Strategies for Functional Complement Convertase Assembly at Lipid Membrane Interfaces. *Langmuir*, **2017**, 33, 7332-7342	4	8
119	Mechanical properties of paraformaldehyde-treated individual cells investigated by atomic force microscopy and scanning ion conductance microscopy. *Nano Convergence*, **2017**, 4, 5	9.2	44

118	Probing the Interaction of Dielectric Nanoparticles with Supported Lipid Membrane Coatings on Nanoplasmonic Arrays. *Sensors*, **2017**, 17,	3.8	13
117	Long-term culture of human liver tissue with advanced hepatic functions. *JCI Insight*, **2017**, 2,	9.9	14
116	Optimizing the Performance of Supported Lipid Bilayers as Cell Culture Platforms Based on Extracellular Matrix Functionalization. *ACS Omega*, **2017**, 2, 2395-2404	3.9	17
115	A phenomenological model of the solvent-assisted lipid bilayer formation method. *Physical Chemistry Chemical Physics*, **2016**, 18, 24157-63	3.6	13
114	Integration of Quartz Crystal Microbalance-Dissipation and Reflection-Mode Localized Surface Plasmon Resonance Sensors for Biomacromolecular Interaction Analysis. *Analytical Chemistry*, **2016** , 88, 12524-12531	7.8	35
113	Influence of membrane surface charge on adsorption of complement proteins onto supported lipid bilayers. *Colloids and Surfaces B: Biointerfaces*, **2016**, 148, 270-277	6	10
112	Flexible, Graphene-Coated Biocomposite for Highly Sensitive, Real-Time Molecular Detection. *Advanced Functional Materials*, **2016**, 26, 8623-8630	15.6	98
111	Precise Tuning of Facile One-Pot Gelatin Methacryloyl (GelMA) Synthesis. *Scientific Reports*, **2016**, 6, 31036	4.9	157
110	Multifunctional hydrogel nano-probes for atomic force microscopy. *Nature Communications*, **2016**, 7, 11566	17.4	33
109	Inflated Sporopollenin Exine Capsules Obtained from Thin-Walled Pollen. *Scientific Reports*, **2016**, 6, 28017	4.9	17
108	Extracellular Matrix Functionalization and Huh-7.5 Cell Coculture Promote the Hepatic Differentiation of Human Adipose-Derived Mesenchymal Stem Cells in a 3D ICC Hydrogel Scaffold. *ACS Biomaterials Science and Engineering*, **2016**, 2, 2255-2265	5.5	12
107	High-performance 3D printing of hydrogels by water-dispersible photoinitiator nanoparticles. *Science Advances*, **2016**, 2, e1501381	14.3	130
106	Stealth Immune Properties of Graphene Oxide Enabled by Surface-Bound Complement Factor H. *ACS Nano*, **2016**, 10, 10161-10172	16.7	35
105	Extraction of Plant-based Capsules for Microencapsulation Applications. *Journal of Visualized Experiments*, **2016**,	1.6	2
104	Fabrication of Inverted Colloidal Crystal Poly(ethylene glycol) Scaffold: A Three-dimensional Cell Culture Platform for Liver Tissue Engineering. *Journal of Visualized Experiments*, **2016**,	1.6	6
103	Nanotechnology Education for the Global World: Training the Leaders of Tomorrow. *ACS Nano*, **2016**, 10, 5595-9	16.7	23
102	Reconstitution and Functional Analysis of a Full-Length Hepatitis C Virus NS5B Polymerase on a Supported Lipid Bilayer. *ACS Central Science*, **2016**, 2, 456-66	16.8	6
101	Extraction of sporopollenin exine capsules from sunflower pollen grains. *RSC Advances*, **2016**, 6, 16533-16539	3.7	35

100	Size-dependent, stochastic nature of lipid exchange between nano-vesicles and model membranes. *Nanoscale*, **2016**, 8, 13513-20	7.7	9
99	Supported lipid bilayer repair mediated by AH peptide. *Physical Chemistry Chemical Physics*, **2016**, 18, 3040-7	3.6	12
98	Phenotypic regulation of liver cells in a biofunctionalized three-dimensional hydrogel platform. *Integrative Biology (United Kingdom)*, **2016**, 8, 156-66	3.7	13
97	Comparison of complement activation-related pseudoallergy in miniature and domestic pigs: foundation of a validatable immune toxicity model. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 933-943	6	37
96	Deciphering How Pore Formation Causes Strain-Induced Membrane Lysis of Lipid Vesicles. *Journal of the American Chemical Society*, **2016**, 138, 1406-13	16.4	36
95	Encapsulation and controlled release formulations of 5-fluorouracil from natural Lycopodium clavatum spores. *Journal of Industrial and Engineering Chemistry*, **2016**, 36, 102-108	6.3	36
94	Self-assembly and sequence length dependence on nanofibrils of polyglutamine peptides. *Neuropeptides*, **2016**, 57, 71-83	3.3	4
93	Relationship between vesicle size and steric hindrance influences vesicle rupture on solid supports. *Physical Chemistry Chemical Physics*, **2016**, 18, 3065-72	3.6	16
92	Nanoplasmonic ruler to measure lipid vesicle deformation. *Chemical Communications*, **2016**, 52, 76-9	5.8	41
91	Cholesterol-Enriched Domain Formation Induced by Viral-Encoded, Membrane-Active Amphipathic Peptide. *Biophysical Journal*, **2016**, 110, 176-87	2.9	17
90	Nanotechnology Formulations for Antibacterial Free Fatty Acids and Monoglycerides. *Molecules*, **2016**, 21, 305	4.8	53
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