

# Nam-Joon Cho

## List of Publications by Year in descending order

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274  
papers

11,038  
citations

36303

51  
h-index

46799

89  
g-index

281  
all docs

281  
docs citations

281  
times ranked

13546  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Midbrain-like Organoids from Human Pluripotent Stem Cells Contain Functional Dopaminergic and Neuromelanin-Producing Neurons. <i>Cell Stem Cell</i> , 2016, 19, 248-257.  | 11.1 | 628       |
| 2  | Quartz crystal microbalance with dissipation monitoring of supported lipid bilayers on various substrates. <i>Nature Protocols</i> , 2010, 5, 1096-1106.  | 12.0 | 471       |
| 3  | Nanoplasmonic Sensor Detects Preferential Binding of IRSp53 to Negative Membrane Curvature. <i>Frontiers in Chemistry</i> , 2019, 7, 1.   | 3.6  | 439       |
| 4  | Strategies for enhancing the sensitivity of plasmonic nanosensors. <i>Nano Today</i> , 2015, 10, 213-239.   | 11.9 | 356       |
| 5  | Antibacterial Free Fatty Acids and Monoglycerides: Biological Activities, Experimental Testing, and Therapeutic Applications. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1114.                            | 4.1  | 325       |
| 6  | Precise Tuning of Facile One-Pot Gelatin Methacryloyl (GelMA) Synthesis. <i>Scientific Reports</i> , 2016, 6, 31036.  | 3.3  | 270       |
| 7  | Gelatin methacryloyl and its hydrogels with an exceptional degree of controllability and batch-to-batch consistency. <i>Scientific Reports</i> , 2019, 9, 6863.   | 3.3  | 204       |
| 8  | Nanoplasmonic sensors for biointerfacial science. <i>Chemical Society Reviews</i> , 2017, 46, 3615-3660.  | 38.1 | 195       |
| 9  | High-performance 3D printing of hydrogels by water-dispersible photoinitiator nanoparticles. <i>Science Advances</i> , 2016, 2, e1501381.   | 10.3 | 191       |
| 10 | Bimodal Tumor-Targeting from Microenvironment Responsive Hyaluronan Layer-by-Layer (LbL) Nanoparticles. <i>ACS Nano</i> , 2014, 8, 8374-8382.   | 14.6 | 161       |
| 11 | High-performance, flexible electronic skin sensor incorporating natural microcapsule actuators. <i>Nano Energy</i> , 2017, 36, 38-45.   | 16.0 | 160       |
| 12 | Silk fibroin-keratin based 3D scaffolds as a dermal substitute for skin tissue engineering. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 53-63.   | 1.3  | 139       |
| 13 | Solvent-Assisted Lipid Bilayer Formation on Silicon Dioxide and Gold. <i>Langmuir</i> , 2014, 30, 10363-10373.  | 3.5  | 134       |
| 14 | Efficient and controllable synthesis of highly substituted gelatin methacrylamide for mechanically stiff hydrogels. <i>RSC Advances</i> , 2015, 5, 106094-106097.   | 3.6  | 118       |
| 15 | Flexible, Graphene-Coated Biocomposite for Highly Sensitive, Real-Time Molecular Detection. <i>Advanced Functional Materials</i> , 2016, 26, 8623-8630.   | 14.9 | 116       |
| 16 | Employing Two Different Quartz Crystal Microbalance Models To Study Changes in Viscoelastic Behavior upon Transformation of Lipid Vesicles to a Bilayer on a Gold Surface. <i>Analytical Chemistry</i> , 2007, 79, 7027-7035. | 6.5  | 113       |
| 17 | Employing an Amphipathic Viral Peptide to Create a Lipid Bilayer on Au and TiO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2007, 129, 10050-10051.   | 13.7 | 107       |
| 18 | Biotechnology Applications of Tethered Lipid Bilayer Membranes. <i>Materials</i> , 2012, 5, 2637-2657.  | 2.9  | 101       |

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|----|---|------|-----------|
| 19 | Supported Lipid Bilayer Formation: Beyond Vesicle Fusion. <i>Langmuir</i> , 2020, 36, 1387-1400.  | 3.5  | 94        |
| 20 | Human iPS derived progenitors bioengineered into liver organoids using an inverted colloidal crystal poly (ethylene glycol) scaffold. <i>Biomaterials</i> , 2018, 182, 299-311.               | 11.4 | 93        |
| 21 | Bioinspired Spiky Micromotors Based on Sporopollenin Exine Capsules. <i>Advanced Functional Materials</i> , 2017, 27, 1702338.  | 14.9 | 92        |
| 22 | Nanotechnology Formulations for Antibacterial Free Fatty Acids and Monoglycerides. <i>Molecules</i> , 2016, 21, 305.  | 3.8  | 88        |
| 23 | Nanoplasmonic sensors for detecting circulating cancer biomarkers. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 48-77.  | 13.7 | 88        |
| 24 | Validation of Size Estimation of Nanoparticle Tracking Analysis on Polydisperse Macromolecule Assembly. <i>Scientific Reports</i> , 2019, 9, 2639.  | 3.3  | 88        |
| 25 | pH-Driven Assembly of Various Supported Lipid Platforms: A Comparative Study on Silicon Oxide and Titanium Oxide. <i>Langmuir</i> , 2011, 27, 3739-3748.                                      | 3.5  | 83        |
| 26 | Influence of Osmotic Pressure on Adhesion of Lipid Vesicles to Solid Supports. <i>Langmuir</i> , 2013, 29, 11375-11384.   | 3.5  | 81        |
| 27 | Natural Sunflower Pollen as a Drug Delivery Vehicle. <i>Small</i> , 2016, 12, 1167-1173.  | 10.0 | 81        |
| 28 | Spectrum of Membrane Morphological Responses to Antibacterial Fatty Acids and Related Surfactants. <i>Langmuir</i> , 2015, 31, 10223-10232.   | 3.5  | 80        |
| 29 | Temperature-Induced Denaturation of BSA Protein Molecules for Improved Surface Passivation Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32047-32057.                   | 8.0  | 77        |
| 30 | A flexible, ultra-sensitive chemical sensor with 3D biomimetic templating for diabetes-related acetone detection. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4019-4024.               | 5.8  | 76        |
| 31 | Graphene-Functionalized Natural Microcapsules: Modular Building Blocks for Ultrahigh Sensitivity Bioelectronic Platforms. <i>Advanced Functional Materials</i> , 2016, 26, 2097-2103.         | 14.9 | 75        |
| 32 | Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anion- $\pi$ Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 7823-7830. | 13.7 | 75        |
| 33 | Plant-Based Hollow Microcapsules for Oral Delivery Applications: Toward Optimized Loading and Controlled Release. <i>Advanced Functional Materials</i> , 2017, 27, 1700270.                   | 14.9 | 74        |
| 34 | Therapeutic treatment of Zika virus infection using a brain-penetrating antiviral peptide. <i>Nature Materials</i> , 2018, 17, 971-977.   | 27.5 | 74        |
| 35 | Mechanical properties of paraformaldehyde-treated individual cells investigated by atomic force microscopy and scanning ion conductance microscopy. <i>Nano Convergence</i> , 2017, 4, 5.     | 12.1 | 72        |
| 36 | Mechanism of an Amphipathic $\alpha$ -Helical Peptide's Antiviral Activity Involves Size-Dependent Virus Particle Lysis. <i>ACS Chemical Biology</i> , 2009, 4, 1061-1067.                    | 3.4  | 71        |

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|----|--|------|-----------|
| 37 | Solvent-assisted preparation of supported lipid bilayers. <i>Nature Protocols</i> , 2019, 14, 2091-2118.   | 12.0 | 70        |
| 38 | Self-Assembly Formation of Lipid Bilayer Coatings on Bare Aluminum Oxide: Overcoming the Force of Interfacial Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 959-968.                                       | 8.0  | 68        |
| 39 | Actuation and locomotion driven by moisture in paper made with natural pollen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8711-8718.                                | 7.1  | 68        |
| 40 | Comparison of Extruded and Sonicated Vesicles for Planar Bilayer Self-Assembly. <i>Materials</i> , 2013, 6, 3294-3308.   | 2.9  | 66        |
| 41 | Solvent-Assisted Lipid Self-Assembly at Hydrophilic Surfaces: Factors Influencing the Formation of Supported Membranes. <i>Langmuir</i> , 2015, 31, 3125-3134.   | 3.5  | 66        |
| 42 | Microrobots Derived from Variety Plant Pollen Grains for Efficient Environmental Clean Up and as an Anti-Cancer Drug Carrier. <i>Advanced Functional Materials</i> , 2020, 30, 2000112.                                      | 14.9 | 64        |
| 43 | Transformation of hard pollen into soft matter. <i>Nature Communications</i> , 2020, 11, 1449.   | 12.8 | 58        |
| 44 | Plasmonic Nanohole Sensor for Capturing Single Virus-Like Particles toward Virucidal Drug Evaluation. <i>Small</i> , 2016, 12, 1159-1166.  | 10.0 | 57        |
| 45 | Single Vesicle Analysis Reveals Nanoscale Membrane Curvature Selective Pore Formation in Lipid Membranes by an Antiviral $\alpha$ -Helical Peptide. <i>Nano Letters</i> , 2012, 12, 5719-5725.                               | 9.1  | 56        |
| 46 | Rupture of Lipid Vesicles by a Broad-Spectrum Antiviral Peptide: Influence of Vesicle Size. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16117-16128.   | 2.6  | 56        |
| 47 | Eco-friendly streamlined process for sporopollenin exine capsule extraction. <i>Scientific Reports</i> , 2016, 6, 19960.   | 3.3  | 56        |
| 48 | Influence of Divalent Cations on Deformation and Rupture of Adsorbed Lipid Vesicles. <i>Langmuir</i> , 2016, 32, 6486-6495.  | 3.5  | 56        |
| 49 | Extraction of sporopollenin exine capsules from sunflower pollen grains. <i>RSC Advances</i> , 2016, 6, 16533-16539.   | 3.6  | 55        |
| 50 | Comparison of complement activation-related pseudoallergy in miniature and domestic pigs: foundation of a validatable immune toxicity model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 933-943. | 3.3  | 55        |
| 51 | Nanoplasmonic Biosensing for Soft Matter Adsorption: Kinetics of Lipid Vesicle Attachment and Shape Deformation. <i>Langmuir</i> , 2014, 30, 9494-9503.  | 3.5  | 54        |
| 52 | Formation of Cholesterol-Rich Supported Membranes Using Solvent-Assisted Lipid Self-Assembly. <i>Langmuir</i> , 2014, 30, 13345-13352.   | 3.5  | 53        |
| 53 | Identification of a Class of HCV Inhibitors Directed Against the Nonstructural Protein NS4B. <i>Science Translational Medicine</i> , 2010, 2, 15ra6.   | 12.4 | 52        |
| 54 | Chiral crystallization of aromatic helical foldamers via complementarities in shape and end functionalities. <i>Chemical Science</i> , 2012, 3, 2042.  | 7.4  | 52        |

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|----|---|------|-----------|
| 55 | Contribution of the Hydration Force to Vesicle Adhesion on Titanium Oxide. <i>Langmuir</i> , 2014, 30, 5368-5372.   | 3.5  | 52        |
| 56 | Nanomedicine for Infectious Disease Applications: Innovation towards Broad-Spectrum Treatment of Viral Infections. <i>Small</i> , 2016, 12, 1133-1139.  | 10.0 | 52        |
| 57 | Optimizing the Formation of Supported Lipid Bilayers from Bicellar Mixtures. <i>Langmuir</i> , 2017, 33, 5052-5064.   | 3.5  | 52        |
| 58 | Quantitative Profiling of Nanoscale Liposome Deformation by a Localized Surface Plasmon Resonance Sensor. <i>Analytical Chemistry</i> , 2017, 89, 1102-1109.  | 6.5  | 52        |
| 59 | Type I Collagen-Functionalized Supported Lipid Bilayer as a Cell Culture Platform. <i>Biomacromolecules</i> , 2010, 11, 1231-1240.  | 5.4  | 51        |
| 60 | Quartz Crystal Microbalance as a Sensor to Characterize Macromolecular Assembly Dynamics. <i>Journal of Sensors</i> , 2009, 2009, 1-17.   | 1.1  | 50        |
| 61 | Fabrication of a Planar Zwitterionic Lipid Bilayer on Titanium Oxide. <i>Langmuir</i> , 2010, 26, 15706-15710.  | 3.5  | 49        |
| 62 | Stealth Immune Properties of Graphene Oxide Enabled by Surface-Bound Complement Factor H. <i>ACS Nano</i> , 2016, 10, 10161-10172.  | 14.6 | 49        |
| 63 | Encapsulation and controlled release formulations of 5-fluorouracil from natural <i>Lycopodium clavatum</i> spores. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 102-108.                         | 5.8  | 49        |
| 64 | Controlling adsorption and passivation properties of bovine serum albumin on silica surfaces by ionic strength modulation and cross-linking. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8854-8865.          | 2.8  | 49        |
| 65 | Interfacial Forces Dictate the Pathway of Phospholipid Vesicle Adsorption onto Silicon Dioxide Surfaces. <i>Langmuir</i> , 2018, 34, 1775-1782.   | 3.5  | 49        |
| 66 | Vesicle Adhesion and Rupture on Silicon Oxide: Influence of Freeze-Thaw Pretreatment. <i>Langmuir</i> , 2014, 30, 2152-2160.  | 3.5  | 47        |
| 67 | Modulation of Huh7.5 Spheroid Formation and Functionality Using Modified PEG-Based Hydrogels of Different Stiffness. <i>PLoS ONE</i> , 2015, 10, e0118123.  | 2.5  | 47        |
| 68 | <i>Lycopodium</i> Spores: A Naturally Manufactured, Superrobust Biomaterial for Drug Delivery. <i>Advanced Functional Materials</i> , 2016, 26, 487-497.  | 14.9 | 47        |
| 69 | Correlating Membrane Morphological Responses with Micellar Aggregation Behavior of Capric Acid and Monocaprin. <i>Langmuir</i> , 2017, 33, 2750-2759.   | 3.5  | 47        |
| 70 | Integration of Quartz Crystal Microbalance-Dissipation and Reflection-Mode Localized Surface Plasmon Resonance Sensors for Biomacromolecular Interaction Analysis. <i>Analytical Chemistry</i> , 2016, 88, 12524-12531. | 6.5  | 46        |
| 71 | Nanoplasmonic ruler to measure lipid vesicle deformation. <i>Chemical Communications</i> , 2016, 52, 76-79.   | 4.1  | 46        |
| 72 | Stopping Membrane-Enveloped Viruses with Nanotechnology Strategies: Toward Antiviral Drug Development and Pandemic Preparedness. <i>ACS Nano</i> , 2021, 15, 125-148.   | 14.6 | 46        |

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|----|--|------|-----------|
| 73 | Alpha-Helical Peptide-Induced Vesicle Rupture Revealing New Insight into the Vesicle Fusion Process As Monitored <i>in Situ</i> by Quartz Crystal Microbalance-Dissipation and Reflectometry. <i>Analytical Chemistry</i> , 2009, 81, 4752-4761. | 6.5  | 45        |
| 74 | Improving Taxane-Based Chemotherapy in Castration-Resistant Prostate Cancer. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 451-462.  | 8.7  | 45        |
| 75 | Contribution of Temperature to Deformation of Adsorbed Vesicles Studied by Nanoplasmonic Biosensing. <i>Langmuir</i> , 2015, 31, 771-781.  | 3.5  | 44        |
| 76 | Multifunctional hydrogel nano-probes for atomic force microscopy. <i>Nature Communications</i> , 2016, 7, 11566.   | 12.8 | 44        |
| 77 | Conformational flexibility of fatty acid-free bovine serum albumin proteins enables superior antifouling coatings. <i>Communications Materials</i> , 2020, 1, .  | 6.9  | 44        |
| 78 | Influence of pH and Surface Chemistry on Poly(L-lysine) Adsorption onto Solid Supports Investigated by Quartz Crystal Microbalance with Dissipation Monitoring. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10554-10565.                 | 2.6  | 43        |
| 79 | Nanotechnology Education for the Global World: Training the Leaders of Tomorrow. <i>ACS Nano</i> , 2016, 10, 5595-5599.  | 14.6 | 43        |
| 80 | A small molecule inhibits HCV replication and alters NS4B's subcellular distribution. <i>Antiviral Research</i> , 2010, 87, 1-8.   | 4.1  | 42        |
| 81 | Controlling Lipid Membrane Architecture for Tunable Nanoplasmonic Biosensing. <i>Small</i> , 2014, 10, 4828-4832.  | 10.0 | 42        |
| 82 | Colloidal templating of highly ordered gelatin methacryloyl-based hydrogel platforms for three-dimensional tissue analogues. <i>NPG Asia Materials</i> , 2017, 9, e412-e412.   | 7.9  | 42        |
| 83 | Quartz resonator signatures under Newtonian liquid loading for initial instrument check. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 248-254.   | 9.4  | 40        |
| 84 | Deciphering How Pore Formation Causes Strain-Induced Membrane Lysis of Lipid Vesicles. <i>Journal of the American Chemical Society</i> , 2016, 138, 1406-1413.   | 13.7 | 40        |
| 85 | Materials Nanoarchitectonics for Mechanical Tools in Chemical and Biological Sensing. <i>Chemistry - an Asian Journal</i> , 2018, 13, 3366-3377.   | 3.3  | 40        |
| 86 | Surface-Based Nanoplasmonic Sensors for Biointerfacial Science Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1404-1412.   | 3.2  | 40        |
| 87 | Microplastics released from food containers can suppress lysosomal activity in mouse macrophages. <i>Journal of Hazardous Materials</i> , 2022, 435, 128980.   | 12.4 | 40        |
| 88 | Model Membrane Platforms for Biomedicine: Case Study on Antiviral Drug Development. <i>Biointerphases</i> , 2012, 7, 18.   | 1.6  | 39        |
| 89 | Kinetics of the formation of a protein corona around nanoparticles. <i>Mathematical Biosciences</i> , 2016, 282, 82-90.  | 1.9  | 39        |
| 90 | Cloaking Silica Nanoparticles with Functional Protein Coatings for Reduced Complement Activation and Cellular Uptake. <i>ACS Nano</i> , 2020, 14, 11950-11961.   | 14.6 | 39        |

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|-----|---|------|-----------|
| 91  | Binding Dynamics of Hepatitis C Virus' NS5A Amphipathic Peptide to Cell and Model Membranes. <i>Journal of Virology</i> , 2007, 81, 6682-6689.  | 3.4  | 38        |
| 92  | Phosphatidylinositol 4,5-Bisphosphate Is an HCV NS5A Ligand and Mediates Replication of the Viral Genome. <i>Gastroenterology</i> , 2015, 148, 616-625.   | 1.3  | 37        |
| 93  | Controlling the Formation of Phospholipid Monolayer, Bilayer, and Intact Vesicle Layer on Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11875-11880.   | 8.0  | 37        |
| 94  | Indirect Nanoplasmonic Sensing Platform for Monitoring Temperature-Dependent Protein Adsorption. <i>Analytical Chemistry</i> , 2017, 89, 12976-12983.   | 6.5  | 36        |
| 95  | 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. <i>Journal of Controlled Release</i> , 2018, 270, 268-274.  | 9.9  | 36        |
| 96  | Materials science approaches in the development of broad-spectrum antiviral therapies. <i>Nature Materials</i> , 2020, 19, 813-816.   | 27.5 | 36        |
| 97  | Hydrophobic nanoparticles improve permeability of cell-encapsulating poly(ethylene glycol) hydrogels while maintaining patternability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20709-20714. | 7.1  | 34        |
| 98  | Fluorescence-based immunosensor using three-dimensional CNT network structure for sensitive and reproducible detection of oral squamous cell carcinoma biomarker. <i>Analytica Chimica Acta</i> , 2018, 1027, 101-108.                                  | 5.4  | 34        |
| 99  | Dynamic Control of Intramolecular Rotation by Tuning the Surrounding Two-Dimensional Matrix Field. <i>ACS Nano</i> , 2019, 13, 2410-2419.   | 14.6 | 34        |
| 100 | Interfacial Binding Dynamics of Bee Venom Phospholipase A <sub>2</sub> Investigated by Dynamic Light Scattering and Quartz Crystal Microbalance. <i>Langmuir</i> , 2010, 26, 4103-4112.   | 3.5  | 33        |
| 101 | AH Peptide-Mediated Formation of Charged Planar Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3616-3621.  | 2.6  | 33        |
| 102 | Photocurable Albumin Methacryloyl Hydrogels as a Versatile Platform for Tissue Engineering. <i>ACS Applied Bio Materials</i> , 2020, 3, 920-934.  | 4.6  | 33        |
| 103 | Investigating how vesicle size influences vesicle adsorption on titanium oxide: a competition between steric packing and shape deformation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2131-2139.   | 2.8  | 31        |
| 104 | Chemical design principles of next-generation antiviral surface coatings. <i>Chemical Society Reviews</i> , 2021, 50, 9741-9765.  | 38.1 | 31        |
| 105 | Viral infection of human progenitor and liver-derived cells encapsulated in three-dimensional PEG-based hydrogel. <i>Biomedical Materials (Bristol)</i> , 2009, 4, 011001.  | 3.3  | 30        |
| 106 | Correlation between Membrane Partitioning and Functional Activity in a Single Lipid Vesicle Assay Establishes Design Guidelines for Antiviral Peptides. <i>Small</i> , 2015, 11, 2372-2379.   | 10.0 | 30        |
| 107 | Fabrication of charged membranes by the solvent-assisted lipid bilayer (SALB) formation method on SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11546-11552.                             | 2.8  | 30        |
| 108 | Understanding How Sterols Regulate Membrane Remodeling in Supported Lipid Bilayers. <i>Langmuir</i> , 2017, 33, 14756-14765.  | 3.5  | 30        |

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|-----|--|------|-----------|
| 109 | ECM proteins in a microporous scaffold influence hepatocyte morphology, function, and gene expression. <i>Scientific Reports</i> , 2016, 6, 37427.   | 3.3  | 29        |
| 110 | Vesicle Adsorption on Mesoporous Silica and Titania. <i>Langmuir</i> , 2010, 26, 16630-16633.  | 3.5  | 28        |
| 111 | Extraction of cage-like sporopollenin exine capsules from dandelion pollen grains. <i>Scientific Reports</i> , 2018, 8, 6565.  | 3.3  | 28        |
| 112 | A Numerical Study on the Effect of Particle Surface Coverage on the Quartz Crystal Microbalance Response. <i>Analytical Chemistry</i> , 2018, 90, 2238-2245.   | 6.5  | 28        |
| 113 | Addressing the digital skills gap for future education. <i>Nature Human Behaviour</i> , 2021, 5, 542-545.  | 12.0 | 28        |
| 114 | Colloid-Mediated Fabrication of a 3D Pollen Sponge for Oil Remediation Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2101091.   | 14.9 | 28        |
| 115 | Observation of Stripe Superstructure in the $\hat{I}^2$ -Two-Phase Coexistence Region of Cholesterol-Phospholipid Mixtures in Supported Membranes. <i>Journal of the American Chemical Society</i> , 2014, 136, 16962-16965.             | 13.7 | 27        |
| 116 | Characterizing How Acidic pH Conditions Affect the Membrane-Disruptive Activities of Lauric Acid and Glycerol Monolaurate. <i>Langmuir</i> , 2018, 34, 13745-13753.  | 3.5  | 27        |
| 117 | In-depth characterization of congenital Zika syndrome in immunocompetent mice: Antibody-dependent enhancement and an antiviral peptide therapy. <i>EBioMedicine</i> , 2019, 44, 516-529.   | 6.1  | 27        |
| 118 | A model derived from hydrodynamic simulations for extracting the size of spherical particles from the quartz crystal microbalance. <i>Analyst</i> , 2017, 142, 3370-3379.  | 3.5  | 26        |
| 119 | Quartz Crystal Microbalance Model for Quantitatively Probing the Deformation of Adsorbed Particles at Low Surface Coverage. <i>Analytical Chemistry</i> , 2017, 89, 11711-11718.   | 6.5  | 26        |
| 120 | Hydrolytic Stability of Methacrylamide and Methacrylate in Gelatin Methacryloyl and Decoupling of Gelatin Methacrylamide from Gelatin Methacryloyl through Hydrolysis. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800266. | 2.2  | 26        |
| 121 | Characterizing the Supported Lipid Membrane Formation from Cholesterol-Rich Bicelles. <i>Langmuir</i> , 2019, 35, 15063-15070.   | 3.5  | 26        |
| 122 | Natural Products for the Treatment of Trachoma and Chlamydia trachomatis. <i>Molecules</i> , 2015, 20, 4180-4203.  | 3.8  | 25        |
| 123 | Adsorption of hyaluronic acid on solid supports: Role of pH and surface chemistry in thin film self-assembly. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 197-207.  | 9.4  | 25        |
| 124 | Inflated Sporopollenin Exine Capsules Obtained from Thin-Walled Pollen. <i>Scientific Reports</i> , 2016, 6, 28017.  | 3.3  | 25        |
| 125 | Comparing the Membrane-Interaction Profiles of Two Antiviral Peptides: Insights into Structure-Function Relationship. <i>Langmuir</i> , 2019, 35, 9934-9943.   | 3.5  | 25        |
| 126 | Influence of NaCl Concentration on Bicelle-Mediated SLB Formation. <i>Langmuir</i> , 2019, 35, 10658-10666.  | 3.5  | 25        |



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|-----|---|------|-----------|
| 127 | Biomimetic Nanomaterial Strategies for Virus Targeting: Antiviral Therapies and Vaccines. <i>Advanced Functional Materials</i> , 2021, 31, 2008352.   | 14.9 | 25        |
| 128 | Creation of Lipid Partitions by Deposition of Amphipathic Viral Peptides. <i>Langmuir</i> , 2007, 23, 10855-10863.  | 3.5  | 24        |
| 129 | Chemical processing strategies to obtain sporopollenin exine capsules from multi-compartmental pine pollen. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 375-385.         | 5.8  | 24        |
| 130 | Macromolecular Microencapsulation Using Pine Pollen: Loading Optimization and Controlled Release with Natural Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28428-28439. | 8.0  | 24        |
| 131 | Targeting the Achilles Heel of Mosquito-Borne Viruses for Antiviral Therapy. <i>ACS Infectious Diseases</i> , 2019, 5, 4-8.   | 3.8  | 24        |
| 132 | Optimizing the Performance of Supported Lipid Bilayers as Cell Culture Platforms Based on Extracellular Matrix Functionalization. <i>ACS Omega</i> , 2017, 2, 2395-2404.                        | 3.5  | 23        |
| 133 | Long-term culture of human liver tissue with advanced hepatic functions. <i>JCI Insight</i> , 2017, 2, .  | 5.0  | 23        |
| 134 | Probing Spatial Proximity of Supported Lipid Bilayers to Silica Surfaces by Localized Surface Plasmon Resonance Sensing. <i>Analytical Chemistry</i> , 2017, 89, 4301-4308.                     | 6.5  | 22        |
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| 272 | Drug Delivery: Plant-Based Hollow Microcapsules for Oral Delivery Applications: Toward Optimized Loading and Controlled Release (Adv. Funct. Mater. 31/2017). Advanced Functional Materials, 2017, 27, .  | 14.9 | 0         |
| 273 | 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. | 14.9 | 0         |
| 274 | A Broad-Spectrum Antiviral Peptide for Combating Emerging Viral Pathogens. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY28-1.   | 0.0  | 0         |