

# Nicole F Steinmetz

## List of Publications by Year in descending order

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Version: 2024-02-01

225  
papers

12,375  
citations

19657

61  
h-index

36028

97  
g-index

232  
all docs

232  
docs citations

232  
times ranked

11361  
citing authors

| #  | ARTICLE                                                                                                                                                                          | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | COVID-19 vaccine development and a potential nanomaterial path forward. <i>Nature Nanotechnology</i> , 2020, 15, 646-655.                                                        | 31.5 | 501       |
| 2  | In situ vaccination with cowpea mosaic virus nanoparticles suppresses metastatic cancer. <i>Nature Nanotechnology</i> , 2016, 11, 295-303.                                       | 31.5 | 392       |
| 3  | Labeling Live Cells by Copper-Catalyzed Alkyne-Azide Click Chemistry. <i>Bioconjugate Chemistry</i> , 2010, 21, 1912-1916.                                                       | 3.6  | 347       |
| 4  | Design of virus-based nanomaterials for medicine, biotechnology, and energy. <i>Chemical Society Reviews</i> , 2016, 45, 4074-4126.                                              | 38.1 | 313       |
| 5  | Applications of viral nanoparticles in medicine. <i>Current Opinion in Biotechnology</i> , 2011, 22, 901-908.                                                                    | 6.6  | 260       |
| 6  | COVID-19 Vaccine Frontrunners and Their Nanotechnology Design. <i>ACS Nano</i> , 2020, 14, 12522-12537.                                                                          | 14.6 | 259       |
| 7  | The Art of Engineering Viral Nanoparticles. <i>Molecular Pharmaceutics</i> , 2011, 8, 29-43.                                                                                     | 4.6  | 233       |
| 8  | Viral nanoparticles for drug delivery, imaging, immunotherapy, and theranostic applications. <i>Advanced Drug Delivery Reviews</i> , 2020, 156, 214-235.                         | 13.7 | 231       |
| 9  | Viral nanoparticles as platforms for next-generation therapeutics and imaging devices. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 634-641.            | 3.3  | 229       |
| 10 | Biodistribution, pharmacokinetics, and blood compatibility of native and PEGylated tobacco mosaic virus nano-rods and -spheres in mice. <i>Virology</i> , 2014, 449, 163-173.    | 2.4  | 165       |
| 11 | Built-in Active Microneedle Patch with Enhanced Autonomous Drug Delivery. <i>Advanced Materials</i> , 2020, 32, e1905740.                                                        | 21.0 | 160       |
| 12 | The Impact of Aspect Ratio on the Biodistribution and Tumor Homing of Rigid Soft-Matter Nanorods. <i>Advanced Healthcare Materials</i> , 2015, 4, 874-882.                       | 7.6  | 148       |
| 13 | Dual-Modal Magnetic Resonance and Fluorescence Imaging of Atherosclerotic Plaques in Vivo Using VCAM-1 Targeted Tobacco Mosaic Virus. <i>Nano Letters</i> , 2014, 14, 1551-1558. | 9.1  | 145       |
| 14 | Tobacco Mosaic Virus Delivery of Phenanthriplatin for Cancer therapy. <i>ACS Nano</i> , 2016, 10, 4119-4126.                                                                     | 14.6 | 145       |
| 15 | Hydrazone Ligation Strategy to Assemble Multifunctional Viral Nanoparticles for Cell Imaging and Tumor Targeting. <i>Nano Letters</i> , 2010, 10, 1093-1097.                     | 9.1  | 144       |
| 16 | Increased Tumor Homing and Tissue Penetration of the Filamentous Plant Viral Nanoparticle <i>Potato virus X</i>. <i>Molecular Pharmaceutics</i> , 2013, 10, 33-42.               | 4.6  | 139       |
| 17 | CPMV-DOX Delivers. <i>Molecular Pharmaceutics</i> , 2013, 10, 3-10.                                                                                                              | 4.6  | 139       |
| 18 | Utilisation of plant viruses in bionanotechnology. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2891.                                                                    | 2.8  | 138       |

| #  | ARTICLE                                                                                                                                                                                               | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Virus-Based Nanoparticles as Versatile Nanomachines. <i>Annual Review of Virology</i> , 2015, 2, 379-401.                                                                                             | 6.7  | 136       |
| 20 | Model-Independent Analysis of QCM Data on Colloidal Particle Adsorption. <i>Langmuir</i> , 2009, 25, 5177-5184.                                                                                       | 3.5  | 133       |
| 21 | Solvation Effects in the Quartz Crystal Microbalance with Dissipation Monitoring Response to Biomolecular Adsorption. A Phenomenological Approach. <i>Analytical Chemistry</i> , 2008, 80, 8880-8890. | 6.5  | 132       |
| 22 | Titanium dioxide nanoparticle-induced oxidative stress triggers DNA damage and hepatic injury in mice. <i>Nanomedicine</i> , 2014, 9, 1423-1434.                                                      | 3.3  | 132       |
| 23 | Intravital imaging of embryonic and tumor neovasculature using viral nanoparticles. <i>Nature Protocols</i> , 2010, 5, 1406-1417.                                                                     | 12.0 | 129       |
| 24 | PEGylated Viral Nanoparticles for Biomedicine: The Impact of PEG Chain Length on VNP Cell Interactions In Vitro and Ex Vivo. <i>Biomacromolecules</i> , 2009, 10, 784-792.                            | 5.4  | 128       |
| 25 | Buckyballs Meet Viral Nanoparticles: Candidates for Biomedicine. <i>Journal of the American Chemical Society</i> , 2009, 131, 17093-17095.                                                            | 13.7 | 119       |
| 26 | Nanocarriers for the Delivery of Medical, Veterinary, and Agricultural Active Ingredients. <i>ACS Nano</i> , 2020, 14, 2678-2701.                                                                     | 14.6 | 113       |
| 27 | Potato virus X, a filamentous plant viral nanoparticle for doxorubicin delivery in cancer therapy. <i>Nanoscale</i> , 2017, 9, 2348-2357.                                                             | 5.6  | 108       |
| 28 | Cowpea mosaic virus nanoparticles target surface vimentin on cancer cells. <i>Nanomedicine</i> , 2011, 6, 351-364.                                                                                    | 3.3  | 107       |
| 29 | Intravital Imaging of Human Prostate Cancer Using Viral Nanoparticles Targeted to Gastrin Releasing Peptide Receptors. <i>Small</i> , 2011, 7, 1664-1672.                                             | 10.0 | 100       |
| 30 | Potato Virus X as a Novel Platform for Potential Biomedical Applications. <i>Nano Letters</i> , 2010, 10, 305-312.                                                                                    | 9.1  | 99        |
| 31 | Tobacco mosaic virus rods and spheres as supramolecular high-relaxivity MRI contrast agents. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1482.                                                 | 5.8  | 95        |
| 32 | Interior Engineering of a Viral Nanoparticle and Its Tumor Homing Properties. <i>Biomacromolecules</i> , 2012, 13, 3990-4001.                                                                         | 5.4  | 94        |
| 33 | Treatment of Canine Oral Melanoma with Nanotechnology-Based Immunotherapy and Radiation. <i>Molecular Pharmaceutics</i> , 2018, 15, 3717-3722.                                                        | 4.6  | 92        |
| 34 | Infusion of imaging and therapeutic molecules into the plant virus-based carrier cowpea mosaic virus: Cargo-loading and delivery. <i>Journal of Controlled Release</i> , 2013, 172, 568-578.          | 9.9  | 90        |
| 35 | Plant viruses and bacteriophages for drug delivery in medicine and biotechnology. <i>Current Opinion in Chemical Biology</i> , 2017, 38, 108-116.                                                     | 6.1  | 90        |
| 36 | Dysprosium-Modified Tobacco Mosaic Virus Nanoparticles for Ultra-High-Field Magnetic Resonance and Near-Infrared Fluorescence Imaging of Prostate Cancer. <i>ACS Nano</i> , 2017, 11, 9249-9258.      | 14.6 | 90        |

| #  | ARTICLE                                                                                                                                                                                                     | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Fluorescent Nanodiamonds Embedded in Biocompatible Translucent Shells. <i>Small</i> , 2014, 10, 1106-1115.                                                                                                  | 10.0 | 88        |
| 38 | Plant viral nanoparticles-based HER2 vaccine: Immune response influenced by differential transport, localization and cellular interactions of particulate carriers. <i>Biomaterials</i> , 2017, 121, 15-27. | 11.4 | 88        |
| 39 | Cowpea Mosaic Virus for Material Fabrication: Addressable Carboxylate Groups on a Programmable Nanoscaffold. <i>Langmuir</i> , 2006, 22, 3488-3490.                                                         | 3.5  | 86        |
| 40 | POxylation as an alternative stealth coating for biomedical applications. <i>European Polymer Journal</i> , 2017, 88, 679-688.                                                                              | 5.4  | 81        |
| 41 | Bioinspired Shielding Strategies for Nanoparticle Drug Delivery Applications. <i>Molecular Pharmaceutics</i> , 2018, 15, 2900-2909.                                                                         | 4.6  | 81        |
| 42 | Stealth filaments: Polymer chain length and conformation affect the in vivo fate of PEGylated potato virus X. <i>Acta Biomaterialia</i> , 2015, 19, 166-179.                                                | 8.3  | 79        |
| 43 | In Situ Vaccination with Cowpea vs Tobacco Mosaic Virus against Melanoma. <i>Molecular Pharmaceutics</i> , 2018, 15, 3700-3716.                                                                             | 4.6  | 79        |
| 44 | Decoration of Cowpea Mosaic Virus with Multiple, Redox-Active, Organometallic Complexes. <i>Small</i> , 2006, 2, 530-533.                                                                                   | 10.0 | 78        |
| 45 | Serum albumin "camouflage" of plant virus based nanoparticles prevents their antibody recognition and enhances pharmacokinetics. <i>Biomaterials</i> , 2016, 89, 89-97.                                     | 11.4 | 78        |
| 46 | Delivery of Pesticides to Plant Parasitic Nematodes Using Tobacco Mild Green Mosaic Virus as a Nanocarrier. <i>ACS Nano</i> , 2017, 11, 4719-4730.                                                          | 14.6 | 77        |
| 47 | Combination of Plant Virus Nanoparticle-Based in Situ Vaccination with Chemotherapy Potentiates Antitumor Response. <i>Nano Letters</i> , 2017, 17, 4019-4028.                                              | 9.1  | 77        |
| 48 | Virus-Templated Silica Nanoparticles. <i>Small</i> , 2009, 5, 813-816.                                                                                                                                      | 10.0 | 76        |
| 49 | Chemical Modification of the Inner and Outer Surfaces of Tobacco Mosaic Virus (TMV). <i>Methods in Molecular Biology</i> , 2014, 1108, 173-185.                                                             | 0.9  | 74        |
| 50 | Plant Viral Capsids as Nanobuilding Blocks: Construction of Arrays on Solid Supports. <i>Langmuir</i> , 2006, 22, 10032-10037.                                                                              | 3.5  | 73        |
| 51 | The Protein Corona of Plant Virus Nanoparticles Influences their Dispersion Properties, Cellular Interactions, and In Vivo Fates. <i>Small</i> , 2016, 12, 1758-1769.                                       | 10.0 | 72        |
| 52 | Structure-Based Engineering of an Icosahedral Virus for Nanomedicine and Nanotechnology. <i>Current Topics in Microbiology and Immunology</i> , 2009, 327, 23-58.                                           | 1.1  | 71        |
| 53 | Membrane-Grafted Hyaluronan Films: A Well-Defined Model System of Glycoconjugate Cell Coats. <i>Journal of the American Chemical Society</i> , 2007, 129, 5306-5307.                                        | 13.7 | 70        |
| 54 | Polymer Structure and Conformation Alter the Antigenicity of Virus-like Particle-Polymer Conjugates. <i>Journal of the American Chemical Society</i> , 2017, 139, 3312-3315.                                | 13.7 | 70        |

| #  | ARTICLE                                                                                                                                                                                         | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Molecular mechanism and binding free energy of doxorubicin intercalation in DNA. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3877-3893.                                              | 2.8  | 70        |
| 56 | Engineering Gd-loaded nanoparticles to enhance MRI sensitivity via $T_1$ shortening. <i>Nanotechnology</i> , 2013, 24, 462001.                                                                  | 2.6  | 69        |
| 57 | Enhancing the Angular Sensitivity of Plasmonic Sensors Using Hyperbolic Metamaterials. <i>Advanced Optical Materials</i> , 2016, 4, 1767-1772.                                                  | 7.3  | 69        |
| 58 | Shaping bio-inspired nanotechnologies to target thrombosis for dual optical-magnetic resonance imaging. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6037-6045.                           | 5.8  | 68        |
| 59 | Radiation Therapy Combined with Cowpea Mosaic Virus Nanoparticle in Situ Vaccination Initiates Immune-Mediated Tumor Regression. <i>ACS Omega</i> , 2018, 3, 3702-3707.                         | 3.5  | 68        |
| 60 | Tobacco mosaic virus-based protein nanoparticles and nanorods for chemotherapy delivery targeting breast cancer. <i>Journal of Controlled Release</i> , 2016, 231, 103-113.                     | 9.9  | 67        |
| 61 | Integrating plant molecular farming and materials research for next-generation vaccines. <i>Nature Reviews Materials</i> , 2022, 7, 372-388.                                                    | 48.7 | 65        |
| 62 | Shape matters: the diffusion rates of TMV rods and CPMV icosahedrons in a spheroid model of extracellular matrix are distinct. <i>Biomaterials Science</i> , 2013, 1, 581.                      | 5.4  | 64        |
| 63 | Physalis Mottle Virus-Like Particles as Nanocarriers for Imaging Reagents and Drugs. <i>Biomacromolecules</i> , 2017, 18, 4141-4153.                                                            | 5.4  | 63        |
| 64 | Soil mobility of synthetic and virus-based model nanopesticides. <i>Nature Nanotechnology</i> , 2019, 14, 712-718.                                                                              | 31.5 | 59        |
| 65 | Cowpea Mosaic Virus Nanoparticles and Empty Virus-Like Particles Show Distinct but Overlapping Immunostimulatory Properties. <i>Journal of Virology</i> , 2019, 93, .                           | 3.4  | 58        |
| 66 | The Antitumor Efficacy of CpG Oligonucleotides is Improved by Encapsulation in Plant Virus-Like Particles. <i>Advanced Functional Materials</i> , 2020, 30, 1908743.                            | 14.9 | 58        |
| 67 | Development of viral nanoparticles for efficient intracellular delivery. <i>Nanoscale</i> , 2012, 4, 3567.                                                                                      | 5.6  | 57        |
| 68 | Tobacco Mosaic Virus-Delivered Cisplatin Restores Efficacy in Platinum-Resistant Ovarian Cancer Cells. <i>Molecular Pharmaceutics</i> , 2018, 15, 2922-2931.                                    | 4.6  | 57        |
| 69 | Layer-by-Layer Assembly of Viral Nanoparticles and Polyelectrolytes: The Film Architecture is Different for Spheres Versus Rods. <i>ChemBioChem</i> , 2008, 9, 1662-1670.                       | 2.6  | 56        |
| 70 | Assembly of Multilayer Arrays of Viral Nanoparticles via Biospecific Recognition: A Quartz Crystal Microbalance with Dissipation Monitoring Study. <i>Biomacromolecules</i> , 2008, 9, 456-462. | 5.4  | 56        |
| 71 | Biodistribution and clearance of a filamentous plant virus in healthy and tumor-bearing mice. <i>Nanomedicine</i> , 2014, 9, 221-235.                                                           | 3.3  | 56        |
| 72 | Delivery of siRNA therapeutics using cowpea chlorotic mottle virus-like particles. <i>Biomaterials Science</i> , 2019, 7, 3138-3142.                                                            | 5.4  | 56        |

| #  | ARTICLE                                                                                                                                                                                                                    | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Virus-based nanoparticles as platform technologies for modern vaccines. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2016, 8, 554-578.                                                     | 6.1  | 55        |
| 74 | Heterologous Prime-Boost Enhances the Antitumor Immune Response Elicited by Plant-Virus-Based Cancer Vaccine. <i>Journal of the American Chemical Society</i> , 2019, 141, 6509-6518.                                      | 13.7 | 55        |
| 75 | Plant Virus-Like Particle In Situ Vaccine for Intracranial Glioma Immunotherapy. <i>Cancers</i> , 2019, 11, 515.                                                                                                           | 3.7  | 55        |
| 76 | Site-specific and Spatially Controlled Addressability of a New Viral Nanobuilding Block: <i>Sulfolobus islandicus</i> Rod-shaped Virus 2. <i>Advanced Functional Materials</i> , 2008, 18, 3478-3486.                      | 14.9 | 54        |
| 77 | Slow Release Formulation of Cowpea Mosaic Virus for In Situ Vaccine Delivery to Treat Ovarian Cancer. <i>Advanced Science</i> , 2018, 5, 1700991.                                                                          | 11.2 | 54        |
| 78 | Design rules for nanomedical engineering: from physical virology to the applications of virus-based materials in medicine. <i>Journal of Biological Physics</i> , 2013, 39, 301-325.                                       | 1.5  | 53        |
| 79 | Interface of Physics and Biology: Engineering Virus-Based Nanoparticles for Biophotonics. <i>Bioconjugate Chemistry</i> , 2015, 26, 51-62.                                                                                 | 3.6  | 53        |
| 80 | Utilizing Viral Nanoparticle/Dendron Hybrid Conjugates in Photodynamic Therapy for Dual Delivery to Macrophages and Cancer Cells. <i>Bioconjugate Chemistry</i> , 2016, 27, 1227-1235.                                     | 3.6  | 53        |
| 81 | Intra- and intermolecular atomic-scale interactions in the receptor binding domain of SARS-CoV-2 spike protein: implication for ACE2 receptor binding. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18272-18283. | 2.8  | 53        |
| 82 | Transferrin-mediated targeting of bacteriophage HK97 nanoparticles into tumor cells. <i>Nanomedicine</i> , 2011, 6, 55-68.                                                                                                 | 3.3  | 52        |
| 83 | Guiding plant virus particles to integrin-displaying cells. <i>Nanoscale</i> , 2012, 4, 3698.                                                                                                                              | 5.6  | 50        |
| 84 | Detection and Imaging of Aggressive Cancer Cells Using an Epidermal Growth Factor Receptor (EGFR)-Targeted Filamentous Plant Virus-Based Nanoparticle. <i>Bioconjugate Chemistry</i> , 2015, 26, 262-269.                  | 3.6  | 50        |
| 85 | Cowpea Mosaic Virus Immunotherapy Combined with Cyclophosphamide Reduces Breast Cancer Tumor Burden and Inhibits Lung Metastasis. <i>Advanced Science</i> , 2019, 6, 1802281.                                              | 11.2 | 50        |
| 86 | Chemical Introduction of Reactive Thiols Into a Viral Nanoscaffold: A Method that Avoids Virus Aggregation. <i>ChemBioChem</i> , 2007, 8, 1131-1136.                                                                       | 2.6  | 49        |
| 87 | Engineering of Brome mosaic virus for biomedical applications. <i>RSC Advances</i> , 2012, 2, 3670.                                                                                                                        | 3.6  | 49        |
| 88 | Controlled immobilisation of active enzymes on the cowpea mosaic virus capsid. <i>Nanoscale</i> , 2012, 4, 5640.                                                                                                           | 5.6  | 49        |
| 89 | Trivalent Subunit Vaccine Candidates for COVID-19 and Their Delivery Devices. <i>Journal of the American Chemical Society</i> , 2021, 143, 14748-14765.                                                                    | 13.7 | 48        |
| 90 | Molecular farming of fluorescent virus-based nanoparticles for optical imaging in plants, human cells and mouse models. <i>Biomaterials Science</i> , 2014, 2, 784.                                                        | 5.4  | 47        |

| #   | ARTICLE                                                                                                                                                                                                                                                 | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | High Aspect Ratio Nanotubes Formed by Tobacco Mosaic Virus for Delivery of Photodynamic Agents Targeting Melanoma. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 838-844.                                                                  | 5.2  | 47        |
| 92  | Biodegradable Viral Nanoparticle/Polymer Implants Prepared <i>via</i> Melt-Processing. <i>ACS Nano</i> , 2017, 11, 8777-8789.                                                                                                                           | 14.6 | 47        |
| 93  | Tobacco mosaic virus delivery of mitoxantrone for cancer therapy. <i>Nanoscale</i> , 2018, 10, 16307-16313.                                                                                                                                             | 5.6  | 47        |
| 94  | CD47 Blockade and Cowpea Mosaic Virus Nanoparticle In Situ Vaccination Triggers Phagocytosis and Tumor Killing. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801288.                                                                               | 7.6  | 47        |
| 95  | Cowpea Mosaic Virus Promotes Anti-Tumor Activity and Immune Memory in a Mouse Ovarian Tumor Model. <i>Advanced Therapeutics</i> , 2019, 2, 1900003.                                                                                                     | 3.2  | 47        |
| 96  | Cancer Theranostic Applications of Albumin-Coated Tobacco Mosaic Virus Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39468-39477.                                                                                            | 8.0  | 45        |
| 97  | Antibody Response against Cowpea Mosaic Viral Nanoparticles Improves <i>In Situ</i> Vaccine Efficacy in Ovarian Cancer. <i>ACS Nano</i> , 2020, 14, 2994-3003.                                                                                          | 14.6 | 44        |
| 98  | Protein cages and virus-like particles: from fundamental insight to biomimetic therapeutics. <i>Biomaterials Science</i> , 2020, 8, 2771-2777.                                                                                                          | 5.4  | 44        |
| 99  | Physalis Mottle Virus-like Nanoparticles for Targeted Cancer Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18213-18223.                                                                                                            | 8.0  | 42        |
| 100 | The unique potency of Cowpea mosaic virus (CPMV) <i>in situ</i> cancer vaccine. <i>Biomaterials Science</i> , 2020, 8, 5489-5503.                                                                                                                       | 5.4  | 42        |
| 101 | Virus-based nanomaterials as positron emission tomography and magnetic resonance contrast agents: from technology development to translational medicine. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 708-721. | 6.1  | 41        |
| 102 | Implication of the solvent effect, metal ions and topology in the electronic structure and hydrogen bonding of human telomeric G-quadruplex DNA. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21573-21585.                                    | 2.8  | 41        |
| 103 | Elongated Plant Virus-Based Nanoparticles for Enhanced Delivery of Thrombolytic Therapies. <i>Molecular Pharmaceutics</i> , 2017, 14, 3815-3823.                                                                                                        | 4.6  | 41        |
| 104 | Active Delivery of VLPs Promotes Anti-Tumor Activity in a Mouse Ovarian Tumor Model. <i>Small</i> , 2020, 16, e1907150.                                                                                                                                 | 10.0 | 40        |
| 105 | Cowpea mosaic virus stimulates antitumor immunity through recognition by multiple MYD88-dependent toll-like receptors. <i>Biomaterials</i> , 2021, 275, 120914.                                                                                         | 11.4 | 40        |
| 106 | Plasmonic Nanodiamonds: Targeted Core-Shell Type Nanoparticles for Cancer Cell Thermoablation. <i>Advanced Healthcare Materials</i> , 2015, 4, 460-468.                                                                                                 | 7.6  | 39        |
| 107 | Biomimetic Virus-Like Particles as Severe Acute Respiratory Syndrome Coronavirus 2 Diagnostic Tools. <i>ACS Nano</i> , 2021, 15, 1259-1272.                                                                                                             | 14.6 | 39        |
| 108 | Genetic Engineering and Chemical Conjugation of Potato Virus X. <i>Methods in Molecular Biology</i> , 2014, 1108, 3-21.                                                                                                                                 | 0.9  | 38        |

| #   | ARTICLE                                                                                                                                                                                                                         | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Viral Nanoparticles in Drug Delivery and Imaging. <i>Molecular Pharmaceutics</i> , 2013, 10, 1-2.                                                                                                                               | 4.6  | 37        |
| 110 | The <i>in vivo</i> fates of plant viral nanoparticles camouflaged using self-proteins: overcoming immune recognition. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2204-2216.                                             | 5.8  | 37        |
| 111 | Polydopamine-decorated tobacco mosaic virus for photoacoustic/magnetic resonance bimodal imaging and photothermal cancer therapy. <i>Nanoscale</i> , 2019, 11, 9760-9768.                                                       | 5.6  | 37        |
| 112 | A Combination of Cowpea Mosaic Virus and Immune Checkpoint Therapy Synergistically Improves Therapeutic Efficacy in Three Tumor Models. <i>Advanced Functional Materials</i> , 2020, 30, 2002299.                               | 14.9 | 37        |
| 113 | Two Domains of Vimentin Are Expressed on the Surface of Lymph Node, Bone and Brain Metastatic Prostate Cancer Lines along with the Putative Stem Cell Marker Proteins CD44 and CD133. <i>Cancers</i> , 2011, 3, 2870-2885.      | 3.7  | 36        |
| 114 | Delivery of mitoxantrone using a plant virus-based nanoparticle for the treatment of glioblastomas. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5888-5895.                                                               | 5.8  | 36        |
| 115 | Silica-coated Gd(DOTA)-loaded protein nanoparticles enable magnetic resonance imaging of macrophages. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7503-7510.                                                             | 5.8  | 35        |
| 116 | Nanomanufacturing of Tobacco Mosaic Virus-Based Spherical Biomaterials Using a Continuous Flow Method. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 13-18.                                                        | 5.2  | 35        |
| 117 | Photodynamic activity of viral nanoparticles conjugated with C60. <i>Chemical Communications</i> , 2012, 48, 9044.                                                                                                              | 4.1  | 34        |
| 118 | To Target or Not to Target: Active vs. Passive Tumor Homing of Filamentous Nanoparticles Based on Potato virus X. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 433-444.                                              | 2.1  | 34        |
| 119 | Active Microneedle Administration of Plant Virus Nanoparticles for Cancer In Situ Vaccination Improves Immunotherapeutic Efficacy. <i>ACS Applied Nano Materials</i> , 2020, 3, 8037-8051.                                      | 5.0  | 34        |
| 120 | Electronic Structure, Dielectric Response and Surface Charge Distribution of RGD (1FUV) Peptide. <i>Scientific Reports</i> , 2014, 4, 5605.                                                                                     | 3.3  | 33        |
| 121 | Determination of the second virial coefficient of bovine serum albumin under varying pH and ionic strength by composition-gradient multi-angle static light scattering. <i>Journal of Biological Physics</i> , 2015, 41, 85-97. | 1.5  | 32        |
| 122 | Production of Immunoabsorbent Nanoparticles by Displaying Single-Domain Protein A on Potato Virus X. <i>Macromolecular Bioscience</i> , 2016, 16, 231-241.                                                                      | 4.1  | 32        |
| 123 | Diffusion and Uptake of Tobacco Mosaic Virus as Therapeutic Carrier in Tumor Tissue: Effect of Nanoparticle Aspect Ratio. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6120-6129.                                        | 2.6  | 31        |
| 124 | Viral Nanoparticles for <i>In vivo</i> Tumor Imaging. <i>Journal of Visualized Experiments</i> , 2012, , e4352.                                                                                                                 | 0.3  | 30        |
| 125 | Impact of Hydrogen Bonding in the Binding Site between Capsid Protein and MS2 Bacteriophage ssRNA. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6321-6330.                                                               | 2.6  | 30        |
| 126 | Delivery of thrombolytic therapy using rod-shaped plant viral nanoparticles decreases the risk of hemorrhage. <i>Nanoscale</i> , 2018, 10, 16547-16555.                                                                         | 5.6  | 30        |



| #   | ARTICLE                                                                                                                                                                                                | IF   | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 127 | Optical and Magnetic Resonance Imaging Using Fluorous Colloidal Nanoparticles. <i>Biomacromolecules</i> , 2017, 18, 103-112.                                                                           | 5.4  | 29        |
| 128 | Presentation and Delivery of Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand <i>via</i> Elongated Plant Viral Nanoparticle Enhances Antitumor Efficacy. <i>ACS Nano</i> , 2019, 13, 2501-2510. | 14.6 | 29        |
| 129 | The pharmacology of plant virus nanoparticles. <i>Virology</i> , 2021, 556, 39-61.                                                                                                                     | 2.4  | 29        |
| 130 | Chemical addressability of potato virus X for its applications in bio/nanotechnology. <i>Journal of Structural Biology</i> , 2017, 200, 360-368.                                                       | 2.8  | 28        |
| 131 | Speciation of Phenanthriplatin and Its Analogs in the Core of Tobacco Mosaic Virus. <i>Journal of the American Chemical Society</i> , 2018, 140, 4279-4287.                                            | 13.7 | 28        |
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| 133 | Electrostatic layer-by-layer construction of fibrous TMV biofilms. <i>Nanoscale</i> , 2017, 9, 1580-1590.                                                                                              | 5.6  | 27        |
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