# Sebyung Kang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1146237/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 67 papers | 4,077 citations | 145106 33 h-index | 129628 63 g-index |
| 69 all docs | 69 docs citations | 69 times ranked | 6498 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Construction of SARS-CoV-2 virus-like particles in plant. Scientific Reports, 2022, 12, 1005. | 1.6 | 26 |
| 2 | Application of periostin peptide-decorated self-assembled protein cage nanoparticles for therapeutic angiogenesis. BMB Reports, 2022, 55, 175-180. | 1.1 | 4 |
| 3 | TRAIL & EGFR affibody dual-display on a protein nanoparticle synergistically suppresses tumor growth. Journal of Controlled Release, 2022, 349, 367-378. | 4.8 | 12 |
| 4 | Accessibility-dependent topology studies of membrane proteins using a SpyTag/SpyCatcher protein-ligation system. International Journal of Biological Macromolecules, 2021, 175, 171-178. | 3.6 | 5 |
| 5 | Development of HER2-Targeting-Ligand-Modified Albumin Nanoparticles Based on the SpyTag/SpyCatcher System for Photothermal Therapy. Biomacromolecules, 2021, 22, 2649-2658. | 2.6 | 13 |
| 6 | Load and Display: Engineering Encapsulin as a Modular Nanoplatform for Protein-Cargo Encapsulation and Protein-Ligand Decoration Using Split Intein and SpyTag/SpyCatcher. Biomacromolecules, 2021, 22, 3028-3039. | 2.6 | 25 |
| 7 | Target-switchable Gd(III)-DOTA/protein cage nanoparticle conjugates with multiple targeting affibody molecules as target selective T1 contrast agents for high-field MRI. Journal of Controlled Release, 2021, 335, 269-280. | 4.8 | 14 |
| 8 | Application of Periostin Peptide-Decorated Self-Assembled Protein Cage Nanoparticles for Therapeutic Angiogenesis. BMB Reports, 2021, , . | 1.1 | 0 |
| 9 | Selective and Effective Cancer Treatments using Targetâ€Switchable Intracellular Bacterial Toxin Delivery Systems. Advanced Therapeutics, 2020, 3, 2000043. | 1.6 | 7 |
| 10 | Development of Recombinant Immunoglobulin G-Binding Luciferase-Based Signal Amplifiers in Immunoassays. Analytical Chemistry, 2020, 92, 5473-5481. | 3.2 | 6 |
| 11 | HRP-conjugated plug-and-playable IgG-binding nanobodies as secondary antibody mimics in immunoassays. Sensors and Actuators B: Chemical, 2020, 320, 128312. | 4.0 | 14 |
| 12 | Development of targetâ€tunable P22 VLPâ€based delivery nanoplatforms using bacterial superglue. Biotechnology and Bioengineering, 2019, 116, 2843-2851. | 1.7 | 45 |
| 13 | Protein Cage Nanoparticles as Delivery Nanoplatforms. Advances in Experimental Medicine and Biology, 2018, 1064, 27-43. | 0.8 | 24 |
| 14 | Cloaking nanoparticles with protein corona shield for targeted drug delivery. Nature Communications, 2018, 9, 4548. | 5.8 | 297 |
| 15 | Engineering Tunable Dual Functional Protein Cage Nanoparticles Using Bacterial Superglue. Biomacromolecules, 2018, 19, 2896-2904. | 2.6 | 49 |
| 16 | Fabrication of Nanoreaction Clusters with Dualâ€Functionalized Protein Cage Nanobuilding Blocks. Small, 2018, 14, e1801488. | 5.2 | 24 |
| 17 | Nickel-Catalyzed Azideâ€“Alkyne Cycloaddition To Access 1,5-Disubstituted 1,2,3-Triazoles in Air and Water. Journal of the American Chemical Society, 2017, 139, 12121-12124. | 6.6 | 127 |
| 18 | Effective Delivery of Antigenâ€“Encapsulin Nanoparticle Fusions to Dendritic Cells Leads to Antigen-Specific Cytotoxic T Cell Activation and Tumor Rejection. ACS Nano, 2016, 10, 7339-7350. | 7.3 | 84 |

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|---|---|---|---|
| 19 | Covalent Conjugation of Small-Molecule Adjuvants to Nanoparticles Induces Robust Cytotoxic T Cell Responses via DC Activation. Bioconjugate Chemistry, 2016, 27, 2007-2013. | 1.8 | 28 |
| 20 | Plug-and-playable fluorescent cell imaging modular toolkits using the bacterial superglue, SpyTag/SpyCatcher. Chemical Communications, 2016, 52, 14051-14054. | 2.2 | 35 |
| 21 | A Recombinant Secondary Antibody Mimic as a Target-specific Signal Amplifier and an Antibody Immobilizer in Immunoassays. Scientific Reports, 2016, 6, 24159. | 1.6 | 11 |
| 22 | Development of an antibody-binding modular nanoplatform for antibody-guided targeted cell imaging and delivery. RSC Advances, 2016, 6, 19208-19213. | 1.7 | 22 |
| 23 | Lumazine Synthase Protein Nanoparticle-Gd(III)-DOTA Conjugate as a T1 contrast agent for high-field MRI. Scientific Reports, 2015, 5, 15656. | 1.6 | 29 |
| 24 | An enhanced ascorbate peroxidase 2/antibody-binding domain fusion protein (APEX2â€“ABD) as a recombinant target-specific signal amplifier. Chemical Communications, 2015, 51, 10945-10948. | 2.2 | 18 |
| 25 | Surface Plasmon Resonance: A Versatile Technique for Biosensor Applications. Sensors, 2015, 15, 10481-10510. | 2.1 | 917 |
| 26 | Mesoporous monoliths of inverse bicontinuous cubic phases of block copolymer bilayers. Nature Communications, 2015, 6, 6392. | 5.8 | 57 |
| 27 | Lumazine synthase protein cage nanoparticles as antigen delivery nanoplatforms for dendritic cell-based vaccine development. Clinical and Experimental Vaccine Research, 2014, 3, 227. | 1.1 | 44 |
| 28 | Polyvalent Display of Monosaccharides on Ferritin Protein Cage Nanoparticles for the Recognition and Binding of Cellâ€Surface Lectins. Macromolecular Bioscience, 2014, 14, 619-625. | 2.1 | 15 |
| 29 | Genetically engineering encapsulin protein cage nanoparticle as a SCC-7 cell targeting optical nanoprobe. Biomaterials Research, 2014, 18, 21. | 3.2 | 34 |
| 30 | A variant of green fluorescent protein exclusively deposited to active intracellular inclusion bodies. Microbial Cell Factories, 2014, 13, 68. | 1.9 | 12 |
| 31 | Ferritin protein cage nanoparticles as versatile antigen delivery nanoplatforms for dendritic cell (DC)-based vaccine development. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 561-569. | 1.7 | 92 |
| 32 | Development of P22 Viral Capsid Nanocomposites as Antiâ€<scp>C</scp>ancer Drug, Bortezomib (<scp>BTZ</scp>), Delivery Nanoplatforms. Macromolecular Bioscience, 2014, 14, 557-564. | 2.1 | 27 |
| 33 | Colloidal inverse bicontinuous cubic membranes of block copolymers with tunable surface functional groups. Nature Chemistry, 2014, 6, 534-541. | 6.6 | 129 |
| 34 | Developing Genetically Engineered Encapsulin Protein Cage Nanoparticles as a Targeted Delivery Nanoplatform. Biomacromolecules, 2014, 15, 3794-3801. | 2.6 | 116 |
| 35 | Lumazine synthase protein cage nanoparticles as modular delivery platforms for targeted drug delivery. RSC Advances, 2014, 4, 48596-48600. | 1.7 | 41 |
| 36 | Overexpression and self-assembly of virus-like particles in Nicotiana benthamiana by a single-vector DNA replicon system. Applied Microbiology and Biotechnology, 2014, 98, 8281-8290. | 1.7 | 18 |

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|---|---|---|---|
| 37 | Natural Polypeptide-Based Supramolecular Nanogels for Stable Noncovalent Encapsulation. Biomacromolecules, 2013, 14, 3515-3522. | 2.6 | 49 |
| 38 | Fabrication of uniform layer-by-layer assemblies with complementary protein cage nanobuilding blocks via simple His-tag/metal recognition. Journal of Materials Chemistry B, 2013, 1, 4504. | 2.9 | 21 |
| 39 | Implementation of P22 Viral Capsids As Intravascular Magnetic Resonance T<sub>1</sub> Contrast Conjugates via Site-Selective Attachment of Gd(III)-Chelating Agents. Biomacromolecules, 2013, 14, 2332-2339. | 2.6 | 45 |
| 40 | Glucose-Responsive Disassembly of Polymersomes of Sequence-Specific Boroxole-Containing Block Copolymers under Physiologically Relevant Conditions. ACS Macro Letters, 2012, 1, 1194-1198. | 2.3 | 90 |
| 41 | Incorporation of Thrombin Cleavage Peptide into a Protein Cage for Constructing a Protease-Responsive Multifunctional Delivery Nanoplatform. Biomacromolecules, 2012, 13, 4057-4064. | 2.6 | 33 |
| 42 | Development of Proteinâ€Cageâ€Based Delivery Nanoplatforms by Polyvalently Displaying Î²â€Cyclodextrins on the Surface of Ferritins Through Copper(I)â€Catalyzed Azide/Alkyne Cycloaddition. Macromolecular Bioscience, 2012, 12, 1452-1458. | 2.1 | 19 |
| 43 | Monosaccharide-Responsive Release of Insulin from Polymersomes of Polyboroxole Block Copolymers at Neutral pH. Journal of the American Chemical Society, 2012, 134, 4030-4033. | 6.6 | 205 |
| 44 | Site-Directed Coordination Chemistry with P22 Virus-like Particles. Langmuir, 2012, 28, 1998-2006. | 1.6 | 38 |
| 45 | Developing an antibody-binding protein cage as a molecular recognition drug modular nanoplatform. Biomaterials, 2012, 33, 5423-5430. | 5.7 | 66 |
| 46 | Structure, Energetics, and Dynamics of Binding Coactivator Peptide to the Human Retinoid X Receptor Î± Ligand Binding Domain Complex with 9-cis-Retinoic Acid. Biochemistry, 2011, 50, 93-105. | 1.2 | 23 |
| 47 | Biomimetic FePt nanoparticle synthesis within Pyrococcus furiosus ferritins and their layer-by-layer formation. Soft Matter, 2011, 7, 11078. | 1.2 | 24 |
| 48 | A Retroviral Chimeric Capsid Protein Reveals the Role of the N-Terminal Î²-Hairpin in Mature Core Assembly. Journal of Molecular Biology, 2011, 410, 641-652. | 2.0 | 29 |
| 49 | Hydrogen/Deuterium Exchange Analysis of HIV-1 Capsid Assembly and Maturation. Structure, 2010, 18, 1483-1491. | 1.6 | 45 |
| 50 | Targeted Delivery of a Photosensitizer to Aggregatibacter actinomycetemcomitans Biofilm. Antimicrobial Agents and Chemotherapy, 2010, 54, 2489-2496. | 1.4 | 30 |
| 51 | Some Enzymes Just Need a Space of Their Own. Science, 2010, 327, 42-43. | 6.0 | 31 |
| 52 | A Docking Model Based on Mass Spectrometric and Biochemical Data Describes Phage Packaging Motor Incorporation. Molecular and Cellular Proteomics, 2010, 9, 1764-1773. | 2.5 | 31 |
| 53 | Size and Crystallinity in Protein-Templated Inorganic Nanoparticles. Chemistry of Materials, 2010, 22, 4612-4618. | 3.2 | 37 |
| 54 | Implementation of P22 Viral Capsids as Nanoplatforms. Biomacromolecules, 2010, 11, 2804-2809. | 2.6 | 87 |

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|---|---|---|---|
| 55 | The ferritin superfamily: Supramolecular templates for materials synthesis. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 834-845. | 1.1 | 210 |
| 56 | Bio-templated CdSe nanoparticle synthesis in a cage shaped protein, Listeria-Dps, and their two dimensional ordered array self-assembly. Chemical Communications, 2010, 46, 8797. | 2.2 | 47 |
| 57 | From Metal Binding to Nanoparticle Formation: Monitoring Biomimetic Iron Oxide Synthesis within Protein Cages using Mass Spectrometry. Angewandte Chemie - International Edition, 2009, 48, 4772-4776. | 7.2 | 26 |
| 58 | Synthesis of biotinâ€tagged chemical crossâ€linkers and their applications for mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 1719-1726. | 0.7 | 52 |
| 59 | Janus-like Protein Cages. Spatially Controlled Dual-Functional Surface Modifications of Protein Cages. Nano Letters, 2009, 9, 2360-2366. | 4.5 | 47 |
| 60 | A Streptavidinâ^'Protein Cage Janus Particle for Polarized Targeting and Modular Functionalization. Journal of the American Chemical Society, 2009, 131, 9164-9165. | 6.6 | 63 |
| 61 | Development of Bacteriophage P22 as a Platform for Molecular Display: Genetic and Chemical Modifications of the Procapsid Exterior Surface. ChemBioChem, 2008, 9, 514-518. | 1.3 | 41 |
| 62 | Monitoring Biomimetic Platinum Nanocluster Formation Using Mass Spectrometry and Clusterâ€Dependent H<sub>2</sub> Production. Angewandte Chemie - International Edition, 2008, 47, 7845-7848. | 7.2 | 40 |
| 63 | Probing Conserved Helical Modules of Portal Complexes by Mass Spectrometry-based Hydrogen/Deuterium Exchange. Journal of Molecular Biology, 2008, 381, 772-784. | 2.0 | 13 |
| 64 | Controlled Assembly of Bifunctional Chimeric Protein Cages and Composition Analysis Using Noncovalent Mass Spectrometry. Journal of the American Chemical Society, 2008, 130, 16527-16529. | 6.6 | 69 |
| 65 | Subunit Conformations and Assembly States of a DNA-translocating Motor: The Terminase of Bacteriophage P22. Journal of Molecular Biology, 2007, 374, 817-836. | 2.0 | 43 |
| 66 | Identification of Subunitâ^'Subunit Interactions in Bacteriophage P22 Procapsids by Chemical Cross-linking and Mass Spectrometry. Journal of Proteome Research, 2006, 5, 370-377. | 1.8 | 49 |
| 67 | Domain Study of Bacteriophage P22 Coat Protein and Characterization of the Capsid Lattice Transformation by Hydrogen/Deuterium Exchange. Journal of Molecular Biology, 2005, 347, 935-948. | 2.0 | 41 |