

Seung-gu Kang

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Training and Seed Bias in Small Molecules Generated with a Conditional Graph-Based Variational Autoencoder—Insights for Practical AI-Driven Molecule Generation. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 801-816.	5.4	5
2	CASTELO: clustered atom subtypes aided lead optimization—a combined machine learning and molecular modeling method. <i>BMC Bioinformatics</i> , 2021, 22, 338.	2.6	4
3	Structural cavities are critical to balancing stability and activity of a membrane-integral enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22146-22156.	7.1	23
4	Modeling and Structural Characterization of the Sweet Taste Receptor Heterodimer. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4579-4592.	3.5	18
5	Charging nanoparticles: increased binding of Gd@C ₈₂ (OH) ₂₂ derivatives to human MMP-9. <i>Nanoscale</i> , 2018, 10, 5667-5677.	5.6	25
6	Rare Dissipative Transitions Punctuate the Initiation of Chemical Denaturation in Proteins. <i>Biophysical Journal</i> , 2018, 114, 812-821.	0.5	0
7	T cell receptors for the HIV KK10 epitope from patients with differential immunologic control are functionally indistinguishable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1877-1882.	7.1	15
8	Molecular Insight of Metallofullerenol GD@C ₈₂ (OH) ₂₂ in Cancer Anti-Metastasis: In Silico Modeling of Nanodrug. <i>Biophysical Journal</i> , 2018, 114, 690a.	0.5	0
9	Molecular mechanism of Gd@C ₈₂ (OH) ₂₂ increasing collagen expression: Implication for encaging tumor. <i>Biomaterials</i> , 2018, 152, 24-36.	11.4	26
10	Concentration-dependent binding of CdSe quantum dots on the SH3 domain. <i>Nanoscale</i> , 2018, 10, 351-358.	5.6	8
11	Molecular mechanism of phosphoinositides' specificity for the inwardly rectifying potassium channel Kir2.2. <i>Chemical Science</i> , 2018, 9, 8352-8362.	7.4	2
12	Structural Damage of a β -Sheet Protein upon Adsorption onto Molybdenum Disulfide Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6796-6803.	3.1	39
13	Robust Denaturation of Villin Headpiece by MoS ₂ Nanosheet: Potential Molecular Origin of the Nanotoxicity. <i>Scientific Reports</i> , 2016, 6, 28252.	3.3	33
14	Toward high permeability, selectivity and controllability of water desalination with FePc nanopores. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8140-8147.	2.8	11
15	Selection of an HLA-C*03:04-Restricted HIV-1 p24 Gag Sequence Variant Is Associated with Viral Escape from KIR2DL3+ Natural Killer Cells: Data from an Observational Cohort in South Africa. <i>PLoS Medicine</i> , 2015, 12, e1001900.	8.4	66
16	Hydrated Excess Protons Can Create Their Own Water Wires. <i>Journal of Physical Chemistry B</i> , 2015, 119, 9212-9218.	2.6	83
17	Gd—Metallofullerenol Nanomaterial Suppresses Pancreatic Cancer Metastasis by Inhibiting the Interaction of Histone Deacetylase 1 and Metastasis-Associated Protein 1. <i>ACS Nano</i> , 2015, 9, 6826-6836.	14.6	64
18	Protein corona mitigates the cytotoxicity of graphene oxide by reducing its physical interaction with cell membrane. <i>Nanoscale</i> , 2015, 7, 15214-15224.	5.6	204

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19	Structural and electronic properties of uranium-encapsulated Au ₁₄ cage. <i>Scientific Reports</i> , 2015, 4, 5862.	3.3	29
20	Interaction of Amyloid Inhibitor Proteins with Amyloid Beta Peptides: Insight from Molecular Dynamics Simulations. <i>PLoS ONE</i> , 2014, 9, e113041.	2.5	40
21	How force unfolding differs from chemical denaturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3413-3418.	7.1	83
22	Molecular Recognition of Metabotropic Glutamate Receptor Type 1 (mGluR1): Synergistic Understanding with Free Energy Perturbation and Linear Response Modeling. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6393-6404.	2.6	2
23	Nanomedicine: de novo design of nanodrugs. <i>Nanoscale</i> , 2014, 6, 663-677.	5.6	56
24	Effect of ligands on the characteristics of (CdSe) ₁₃ quantum dots. <i>RSC Advances</i> , 2014, 4, 27146-27151.	3.6	23
25	Characterization of a Novel Water Pocket Inside the Human Cx26 Hemichannel Structure. <i>Biophysical Journal</i> , 2014, 107, 599-612.	0.5	34
26	Size-dependent impact of CNTs on dynamic properties of calmodulin. <i>Nanoscale</i> , 2014, 6, 12828-12837.	5.6	18
27	Large scale molecular simulations of nanotoxicity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2014, 6, 329-343.	6.6	34
28	The complex and specific pMHC interactions with diverse HIV-1 TCR clonotypes reveal a structural basis for alterations in CTL function. <i>Scientific Reports</i> , 2014, 4, 4087.	3.3	22
29	Dual Inhibitory Pathways of Metallofullerenol Gd@C ₈₂ (OH) ₂₂ on Matrix Metalloproteinase-2: Molecular insight into drug-like nanomedicine. <i>Scientific Reports</i> , 2014, 4, 4775.	3.3	25
30	Interactions Between Proteins and Carbon-Based Nanoparticles: Exploring the Origin of Nanotoxicity at the Molecular Level. <i>Small</i> , 2013, 9, 1546-1556.	10.0	132
31	Metallofullerenol Gd@C ₈₂ (OH) ₂₂ distracts the proline-rich-motif from putative binding on the SH3 domain. <i>Nanoscale</i> , 2013, 5, 2703.	5.6	22
32	Hydrophobic Interaction Drives Surface-Assisted Epitaxial Assembly of Amyloid-like Peptides. <i>Journal of the American Chemical Society</i> , 2013, 135, 3150-3157.	13.7	56
33	Impacts of fullerene derivatives on regulating the structure and assembly of collagen molecules. <i>Nanoscale</i> , 2013, 5, 7341.	5.6	24
34	Salts drive controllable multilayered upright assembly of amyloid-like peptides at mica/water interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8543-8548.	7.1	46
35	Non-destructive Inhibition of Metallofullerenol Gd@C ₈₂ (OH) ₂₂ on WW domain: Implication on Signal Transduction Pathway. <i>Scientific Reports</i> , 2012, 2, 957.	3.3	41
36	Molecular mechanism of pancreatic tumor metastasis inhibition by Gd@C ₈₂ (OH) ₂₂ and its implication for de novo design of nanomedicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15431-15436.	7.1	200

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37	Molecular Mechanism of Surface-Assisted Epitaxial Self-Assembly of Amyloid-like Peptides. ACS Nano, 2012, 6, 9276-9282.	14.6	29
38	Free-Energy Simulations Reveal that Both Hydrophobic and Polar Interactions Are Important for Influenza Hemagglutinin Antibody Binding. Biophysical Journal, 2012, 102, 1453-1461.	0.5	30
39	Computational design of a protein crystal. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7304-7309.	7.1	157
40	Highly Tunable Photoluminescent Properties of Amphiphilic Conjugated Block Copolymers. Journal of the American Chemical Society, 2010, 132, 9931-9933.	13.7	131
41	Characterization of the Cofactor-Induced Folding Mechanism of a Zinc-Binding Peptide Using Computationally Designed Mutants. Journal of Molecular Biology, 2009, 389, 90-102.	4.2	19
42	Directing Noble Metal Ion Chemistry within a Designed Ferritin Protein. Biochemistry, 2008, 47, 12729-12739.	2.5	84
43	Chapter 9. Protein Design: Tailoring Sequence, Structure, and Folding Properties. RSC Biomolecular Sciences, 2008, , 188-213.	0.4	0
44	Computational protein design: structure, function and combinatorial diversity. Current Opinion in Chemical Biology, 2007, 11, 329-334.	6.1	42
45	Functional modification of phosphatidylinositol-specific phospholipase C from <i>Bacillus cereus</i> by computer modeling and site-directed mutagenesis. FASEB Journal, 2006, 20, A900.	0.5	0