

Andrea Danani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/755321/publications.pdf>

Version: 2024-02-01

70
papers

2,248
citations

218662

26
h-index

233409

45
g-index

77
all docs

77
docs citations

77
times ranked

2678
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution of the tunneling-percolation problem in the nanocomposite regime. <i>Physical Review B</i> , 2010, 81, .	3.2	203
2	Modeling the Multivalent Recognition between Dendritic Molecules and DNA: Understanding How Ligand "Sacrifice" and Screening Can Enhance Binding. <i>Journal of the American Chemical Society</i> , 2009, 131, 9686-9694.	13.7	118
3	Lattice-Gas Theory of Collective Diffusion in Adsorbed Layers. <i>International Journal of Modern Physics B</i> , 1997, 11, 2217-2279.	2.0	101
4	Ability to Adapt: Different Generations of PAMAM Dendrimers Show Different Behaviors in Binding siRNA. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2667-2675.	2.6	101
5	PAMAM Dendrimers for siRNA Delivery: Computational and Experimental Insights. <i>Chemistry - A European Journal</i> , 2010, 16, 7781-7795.	3.3	91
6	Validation of a Novel Molecular Dynamics Simulation Approach for Lipophilic Drug Incorporation into Polymer Micelles. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4338-4345.	2.6	84
7	Targeting the Blind Spot of Polycationic Nanocarrier-Based siRNA Delivery. <i>ACS Nano</i> , 2012, 6, 9447-9454.	14.6	83
8	Elucidating the molecular mechanism of PAMAM-siRNA dendriplex self-assembly: Effect of dendrimer charge density. <i>International Journal of Pharmaceutics</i> , 2011, 416, 410-418.	5.2	77
9	Computational Insights into the Interactions between DNA and siRNA with "Rigid" and "Flexible" Triazine Dendrimers. <i>Biomacromolecules</i> , 2010, 11, 721-730.	5.4	76
10	Quantifying the Effect of Surface Ligands on Dendron-DNA Interactions: Insights into Multivalency through a Combined Experimental and Theoretical Approach. <i>Chemistry - A European Journal</i> , 2010, 16, 4519-4532.	3.3	63
11	Percolative properties of hard oblate ellipsoids of revolution with a soft shell. <i>Physical Review E</i> , 2008, 78, 061126.	2.1	60
12	Catalytic Chameleon Dendrimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 14359-14367.	13.7	52
13	Ion-Selective Controlled Assembly of Dendrimer-Based Functional Nanofibers and Their Ionic-Competitive Disassembly. <i>Journal of the American Chemical Society</i> , 2012, 134, 3349-3357.	13.7	50
14	To the nanoscale, and beyond!. <i>Fluid Phase Equilibria</i> , 2007, 261, 366-374.	2.5	48
15	Molecular modeling and in vivo imaging can identify successful flexible triazine dendrimer-based siRNA delivery systems. <i>Journal of Controlled Release</i> , 2011, 153, 23-33.	9.9	47
16	The Extent of Human Apolipoprotein A-I Lipidation Strongly Affects the β -Amyloid Efflux Across the Blood-Brain Barrier in vitro. <i>Frontiers in Neuroscience</i> , 2019, 13, 419.	2.8	42
17	Cell penetrating peptide modulation of membrane biomechanics by Molecular dynamics. <i>Journal of Biomechanics</i> , 2018, 73, 137-144.	2.1	40
18	Computational Approach for Understanding the Interactions of UV-Degradable Dendrons with DNA and siRNA. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5686-5693.	2.6	38

#	ARTICLE	IF	CITATIONS
19	Generation-Dependent Molecular Recognition Controls Self-Assembly in Supramolecular Dendron-Virus Complexes. <i>Nano Letters</i> , 2011, 11, 723-728.	9.1	36
20	Cell Penetrating Peptide Adsorption on Magnetite and Silica Surfaces: A Computational Investigation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8239-8246.	2.6	33
21	Electron tunneling in conductor-insulator composites with spherical fillers. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	31
22	Genetic, cellular, and structural characterization of the membrane potential-dependent cell-penetrating peptide translocation pore. <i>ELife</i> , 2021, 10, .	6.0	31
23	Conformational fluctuations of the AXH monomer of Ataxin-1. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 52-59.	2.6	30
24	Conformational Dynamics and Stability of U-Shaped and S-Shaped Amyloid β Assemblies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 571.	4.1	30
25	Collective surface diffusion on triangular and square interacting lattice gases. <i>Surface Science</i> , 1998, 409, 117-129.	1.9	29
26	Investigation of the Josephin Domain Protein-Protein Interaction by Molecular Dynamics. <i>PLoS ONE</i> , 2014, 9, e108677.	2.5	28
27	Structure Based Modeling of Small Molecules Binding to the TLR7 by Atomistic Level Simulations. <i>Molecules</i> , 2015, 20, 8316-8340.	3.8	27
28	Multivalent interacting glycodendrimer to prevent amyloid-peptide fibril formation induced by Cu(II): A multidisciplinary approach. <i>Nano Research</i> , 2018, 11, 1204-1226.	10.4	27
29	Energetics of fcc and decahedral nanowires of Ag, Cu, Ni, and C60: A quenched molecular dynamics study. <i>Physical Review B</i> , 2004, 69, .	3.2	26
30	Free energy landscape of siRNA-polycation complexation: Elucidating the effect of molecular geometry, polymer flexibility, and charge neutralization. <i>PLoS ONE</i> , 2017, 12, e0186816.	2.5	25
31	Role of Generation, Architecture, pH and Ionic Strength on Successful siRNA Delivery and Transfection by Hybrid PPV-PAMAM Dendrimers. <i>Current Medicinal Chemistry</i> , 2012, 19, 4929-4941.	2.4	24
32	Josephin Domain Structural Conformations Explored by Metadynamics in Essential Coordinates. <i>PLoS Computational Biology</i> , 2016, 12, e1004699.	3.2	22
33	TAT-RasGAP ³¹⁷⁻³²⁶ kills cells by targeting inner-leaflet-enriched phospholipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31871-31881.	7.1	22
34	The influence of dendron's architecture on the rigid and flexible behaviour in binding DNA: a modelling study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13914.	2.8	21
35	Characterization of the AXH domain of Ataxin-1 using enhanced sampling and functional mode analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 666-673.	2.6	21
36	The Role of Structural Polymorphism in Driving the Mechanical Performance of the Alzheimer's Beta Amyloid Fibrils. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 83.	4.1	21

#	ARTICLE	IF	CITATIONS
37	Elucidating the role of surface chemistry on cationic phosphorus dendrimer-siRNA complexation. <i>Nanoscale</i> , 2018, 10, 10952-10962.	5.6	20
38	The synergistic effect of chlorotoxin-mApoE in boosting drug-loaded liposomes across the BBB. <i>Journal of Nanobiotechnology</i> , 2019, 17, 115.	9.1	20
39	Steroid identification via deep learning retention time predictions and two-dimensional gas chromatography-high resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1612, 460661.	3.7	19
40	Iron oxide/PAMAM nanostructured hybrids: combined computational and experimental studies. <i>Journal of Materials Science</i> , 2016, 51, 1996-2007.	3.7	18
41	The Impact of Natural Compounds on S-Shaped A β 242 Fibril: From Molecular Docking to Biophysical Characterization. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1017.	4.1	18
42	Fludarabine-Specific Molecular Interactions with Maltose-Modified Poly(propyleneimine) Dendrimer Enable Effective Cell Entry of the Active Drug Form: Comparison with Clofarabine. <i>Biomacromolecules</i> , 2019, 20, 1429-1442.	5.4	16
43	Molecular simulations of amyloid beta assemblies. <i>Advances in Physics: X</i> , 2020, 5, 1770627.	4.1	16
44	Making biological membrane resistant to the toxicity of misfolded protein oligomers: a lesson from trodusquemine. <i>Nanoscale</i> , 2020, 12, 22596-22614.	5.6	16
45	Biophysical Insights into Cancer Transformation and Treatment. <i>Scientific World Journal</i> , The, 2013, 2013, 1-11.	2.1	15
46	Thermodynamic and kinetic stability of the Josephin Domain closed arrangement: evidences from replica exchange molecular dynamics. <i>Biology Direct</i> , 2017, 12, 2.	4.6	15
47	Biofunctionalization of Silica Nanoparticles with Cell-Penetrating Peptides: Adsorption Mechanism and Binding Energy Estimation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10622-10630.	2.6	15
48	Collective surface diffusion on a triangular lattice in presence of ordered phases. <i>Surface Science</i> , 1998, 402-404, 281-285.	1.9	14
49	Highly Organized Self-Assembled Dendriplexes Based on Poly(propylene imine) Glycodendrimer and Anti-HIV Oligodeoxynucleotides. <i>Current Medicinal Chemistry</i> , 2012, 19, 4708-4719.	2.4	14
50	Destabilizing the AXH Tetramer by Mutations: Mechanisms and Potential Antiaggregation Strategies. <i>Biophysical Journal</i> , 2018, 114, 323-330.	0.5	14
51	Elucidating the Effect of Static Electric Field on Amyloid Beta 1 α 42 Supramolecular Assembly. <i>Journal of Molecular Graphics and Modelling</i> , 2020, 96, 107535.	2.4	14
52	Lattice-gas model of diffusion of NH ₃ on Re(0001). <i>Chemical Physics Letters</i> , 1995, 236, 533-537.	2.6	13
53	Homology and Molecular Dynamics Models of Toll-Like Receptor 7 Protein and Its Dimerization. <i>Chemical Biology and Drug Design</i> , 2014, 83, 656-665.	3.2	12
54	Preparation and characterization of new hybrid nanostructured thin films for biosensors design. <i>Materials Letters</i> , 2011, 65, 2032-2035.	2.6	11

#	ARTICLE	IF	CITATIONS
55	Molecular and Coarse-Grained Modeling to Characterize and Optimize Dendrimer-Based Nanocarriers for Short Interfering RNA Delivery. ACS Omega, 2020, 5, 2978-2986.	3.5	10
56	In situ functionalization of self-assembled dendrimer nanofibers with cadmium sulfide quantum dots through simple ionic-substitution. New Journal of Chemistry, 2016, 40, 6325-6331.	2.8	9
57	Wavelets as basis functions to represent the coarse-graining potential in multiscale coarse graining approach. Journal of Computational Physics, 2015, 300, 592-604.	3.8	8
58	Aminoacid substitutions in the glycine zipper affect the conformational stability of amyloid beta fibrils. Journal of Biomolecular Structure and Dynamics, 2020, 38, 3908-3915.	3.5	8
59	Fragmented blind docking: a novel protein-ligand binding prediction protocol. Journal of Biomolecular Structure and Dynamics, 2022, 40, 13472-13481.	3.5	8
60	Combined EPR and Molecular Modeling Study of PPI Dendrimers Interacting with Copper Ions: Effect of Generation and Maltose Decoration. Journal of Physical Chemistry B, 2014, 118, 12098-12111.	2.6	7
61	Explaining the Microtubule Energy Balance: Contributions Due to Dipole Moments, Charges, van der Waals and Solvation Energy. International Journal of Molecular Sciences, 2017, 18, 2042.	4.1	7
62	Supporting the Design of Efficient Dendritic DNA and siRNA Nano-Carriers with Molecular Modeling. Current Drug Discovery Technologies, 2011, 8, 314-328.	1.2	7
63	Protein-dendron conjugates for DNA binding: understanding the effect of the protein core on multivalency. RSC Advances, 2011, 1, 1677.	3.6	6
64	Self-Assembled Ligands Targeting TLR7: A Molecular Level Investigation. Langmuir, 2017, 33, 14460-14471.	3.5	5
65	Effect of Lactose Pseudopolymorphic Transition on the Aerosolization Performance of Drug/Carrier Mixtures. Pharmaceutics, 2019, 11, 576.	4.5	5
66	Spin probe analysis of microtubules structure and formation. Archives of Biochemistry and Biophysics, 2012, 522, 1-8.	3.0	3
67	A Novel Interaction Between the TLR7 and a Colchicine Derivative Revealed Through a Computational and Experimental Study. Pharmaceutics, 2018, 11, 22.	3.8	3
68	Multi-site correlation functions in two-dimensional lattice gases. Physica A: Statistical Mechanics and Its Applications, 1996, 223, 149-166.	2.6	2
69	Base Invaders. Coupling Experiments and Multiscale Modeling of Dendrimer-Based siRNA Delivery Agents. Advances in Science and Technology, 0, , .	0.2	1
70	Extended diffusion theory: Recovering dynamics from biased/accelerated molecular simulations. Journal of Computational Chemistry, 2021, 42, 586-599.	3.3	1