

# Celeste Sagui

## List of Publications by Year in descending order

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80  
papers

3,585  
citations

159525

30  
h-index

138417

58  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel eGZ-motif formed by regularly extruded guanine bases in a left-handed Z-DNA helix as a major motif behind CGG trinucleotide repeats. <i>Nucleic Acids Research</i> , 2022, 50, 4860-4876.	6.5	10
2	Structure of a pathologic amyloid nucleus determined by rational genetic deconstruction of an intracellular nucleation barrier. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
3	The F19W mutation reduces the binding affinity of the transmembrane A <sup>β</sup> 40 trimer to the membrane bilayer. <i>RSC Advances</i> , 2021, 11, 2664-2676.	1.7	2
4	Molecular conformations and dynamics of nucleotide repeats associated with neurodegenerative diseases: double helices and CAG hairpin loops. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 2819-2832.	1.9	11
5	Construction of DNA/RNA Triplex Helices Based on GAA/TTC Trinucleotide Repeats. <i>Bio-protocol</i> , 2021, 11, e4155.	0.2	2
6	Atypical structures of GAA/TTC trinucleotide repeats underlying Friedreich's ataxia: DNA triplexes and RNA/DNA hybrids. <i>Nucleic Acids Research</i> , 2020, 48, 9899-9917.	6.5	25
7	Dynamics of strand slippage in DNA hairpins formed by CAG repeats: roles of sequence parity and trinucleotide interrupts. <i>Nucleic Acids Research</i> , 2020, 48, 2232-2245.	6.5	39
8	Structure and Dynamics of DNA and RNA Double Helices Obtained from the CCG and GGC Trinucleotide Repeats. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4491-4512.	1.2	16
9	Structural and Dynamical Characterization of DNA and RNA Quadruplexes Obtained from the GGGGCC and GGGCCT Hexanucleotide Repeats Associated with C9FTD/ALS and SCA36 Diseases. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1104-1117.	1.7	22
10	E-motif formed by extrahelical cytosine bases in DNA homoduplexes of trinucleotide and hexanucleotide repeats. <i>Nucleic Acids Research</i> , 2018, 46, 942-955.	6.5	19
11	Structure and Dynamics of DNA and RNA Double Helices Obtained from the GGGGCC and CCCCCG Hexanucleotide Repeats That Are the Hallmark of C9FTD/ALS Diseases. <i>ACS Chemical Neuroscience</i> , 2017, 8, 578-591.	1.7	31
12	Structure and Dynamics of DNA and RNA Double Helices of CAG and GAC Trinucleotide Repeats. <i>Biophysical Journal</i> , 2017, 113, 19-36.	0.2	19
13	Comparative melting and healing of B-DNA and Z-DNA by an infrared laser pulse. <i>Journal of Chemical Physics</i> , 2016, 144, 145101.	1.2	6
14	Stability and Ion Distributions Around Left- and Right-Handed DNA and RNA Duplexes: A Comparative Study. <i>Biophysical Journal</i> , 2016, 110, 407a.	0.2	1
15	Picosecond infrared laser-induced all-atom nonequilibrium molecular dynamics simulation of dissociation of viruses. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11951-11958.	1.3	9
16	Amyloid Properties of Asparagine and Glutamine in Prion-like Proteins. <i>ACS Chemical Neuroscience</i> , 2016, 7, 576-587.	1.7	30
17	Picosecond dissociation of amyloid fibrils with infrared laser: A nonequilibrium simulation study. <i>Journal of Chemical Physics</i> , 2015, 143, 155101.	1.2	41
18	The Adaptively Biased Molecular Dynamics method revisited: New capabilities and an application. <i>Journal of Physics: Conference Series</i> , 2015, 640, 012020.	0.3	12

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19	Structural Determinants of Polyglutamine Protofibrils and Crystallites. <i>ACS Chemical Neuroscience</i> , 2015, 6, 632-645.	1.7	12
20	Picosecond melting of peptide nanotubes using an infrared laser: a nonequilibrium simulation study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27275-27280.	1.3	14
21	Secondary structure assignment for conformationally irregular peptides: Comparison between DSSP, STRIDE and KAKSI. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 55, 72-84.	1.3	40
22	Investigating rare events with nonequilibrium work measurements. II. Transition and reaction rates. <i>Journal of Chemical Physics</i> , 2014, 140, 034115.	1.2	13
23	Investigating rare events with nonequilibrium work measurements. I. Nonequilibrium transition path probabilities. <i>Journal of Chemical Physics</i> , 2014, 140, 034114.	1.2	14
24	Ion distributions around left- and right-handed DNA and RNA duplexes: a comparative study. <i>Nucleic Acids Research</i> , 2014, 42, 13981-13996.	6.5	53
25	Classical Electrostatics for Biomolecular Simulations. <i>Chemical Reviews</i> , 2014, 114, 779-814.	23.0	229
26	The gp41659â€“671HIV-1 Antibody Epitope: A Structurally Challenging Small Peptide. <i>Journal of Physical Chemistry B</i> , 2014, 118, 69-80.	1.2	7
27	Recipes for Free Energy Calculations in Biomolecular Systems. <i>Methods in Molecular Biology</i> , 2013, 924, 313-337.	0.4	6
28	Binding Polymorphism in the DNA Bound State of the Pdx1 Homeodomain. <i>PLoS Computational Biology</i> , 2013, 9, e1003160.	1.5	9
29	Reaction path ensemble of the Bâ€“Z-DNA transition: a comprehensive atomistic study. <i>Nucleic Acids Research</i> , 2013, 41, 33-43.	6.5	48
30	Are Long-Range Structural Correlations Behind the Aggregation Phenomena of Polyglutamine Diseases?. <i>PLoS Computational Biology</i> , 2012, 8, e1002501.	1.5	18
31	A Statistical Analysis of the PPII Propensity of Amino Acid Guests in Proline-Rich Peptides. <i>Biophysical Journal</i> , 2011, 100, 1083-1093.	0.2	24
32	PPII Propensity of Multiple-Guest Amino Acids in a Proline-Rich Environment. <i>Journal of Physical Chemistry B</i> , 2011, 115, 8645-8656.	1.2	17
33	Calculating relative transition rates with driven nonequilibrium simulations. <i>Chemical Physics Letters</i> , 2011, 518, 109-113.	1.2	18
34	The Î±â€“sheet: A missingâ€“action secondary structure?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 937-946.	1.5	19
35	Free energy and structure of polyproline peptides: An ab initio and classical molecular dynamics investigation. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2865-2879.	1.0	16
36	Dimerization free energy of vancomycinâ€“group antibiotics and the cooperative effect: A density functional approach. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2894-2902.	1.0	2

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37	Conformational free energies of methyl- $\alpha$ -L-iduronic and methyl- $\alpha$ -D-glucuronic acids in water. <i>Journal of Chemical Physics</i> , 2010, 132, 104108.	1.2	49
38	A classical molecular dynamics investigation of the free energy and structure of short polyproline conformers. <i>Journal of Chemical Physics</i> , 2010, 133, 125104.	1.2	32
39	Conformations and free energy landscapes of polyproline peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20746-20751.	3.3	92
40	Adaptively biased molecular dynamics: An umbrella sampling method with a time-dependent potential. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3666-3678.	1.0	35
41	Chapter 2 Electrostatics in <i>Biomolecular Simulations: Where Are We Now and Where Are We Heading?</i> . <i>Current Topics in Membranes</i> , 2008, 60, 49-89.	0.5	62
42	Amino Acid Adsorption on the Si(100) Surface: The Case of Glycine. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2640-2648.	1.5	11
43	Adaptively biased molecular dynamics for free energy calculations. <i>Journal of Chemical Physics</i> , 2008, 128, 134101.	1.2	168
44	Theoretical Investigation of the Interaction of Glycine with Diamond C(100) and C(111) ( $2 \text{ \AA} - 1$ ) Surfaces. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12760-12767.	1.5	2
45	Deprotonation of Solvated Formic Acid: Parrinello and Metadynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2325-2331.	1.2	51
46	The free energy landscape of small peptides as obtained from metadynamics with umbrella sampling corrections. <i>Journal of Chemical Physics</i> , 2006, 125, 204909.	1.2	74
47	Molecular Dynamics Simulations of DNA with Polarizable Force Fields: Convergence of an Ideal B-DNA Structure to the Crystallographic Structure. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11571-11581.	1.2	65
48	Molecular dynamics simulations of polarizable DNA in crystal environment. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 3260-3269.	1.0	12
49	Surface solvation for an ion in a water cluster. <i>Journal of Chemical Physics</i> , 2005, 122, 024513.	1.2	78
50	Exploring Intramolecular Reactions in Complex Systems with Metadynamics: The Case of the Malonate Anions. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7682-7687.	1.1	16
51	New and Exotic Self-Organized Patterns for Modulated Nanoscale Systems. <i>Nano Letters</i> , 2005, 5, 389-395.	4.5	5
52	Quantum Simulations of the Structure and Binding of Glycopeptide Antibiotic Aglycons to Cell Wall Analogues. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20588-20596.	1.2	10
53	Ab initio calculation of electrostatic multipoles with Wannier functions for large-scale biomolecular simulations. <i>Journal of Chemical Physics</i> , 2004, 120, 4530-4544.	1.2	31
54	First Principles Investigation of Vancomycin and Teicoplanin Binding to Bacterial Cell Wall Termini. <i>Journal of the American Chemical Society</i> , 2004, 126, 8384-8385.	6.6	25

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55	Molecular dynamics simulations of the d(CCAACGTTGG) <sub>2</sub> decamer in crystal environment: Comparison of atomic point-charge, extra-point, and polarizable force fields. <i>Journal of Chemical Physics</i> , 2004, 121, 6998-7008.	1.2	36
56	Towards an accurate representation of electrostatics in classical force fields: Efficient implementation of multipolar interactions in biomolecular simulations. <i>Journal of Chemical Physics</i> , 2004, 120, 73-87.	1.2	207
57	Calculation of ionic charging free energies in simulation systems with atomic charges, dipoles, and quadrupoles. <i>Journal of Chemical Physics</i> , 2003, 119, 7621-7632.	1.2	20
58	Multigrid methods for classical molecular dynamics simulations of biomolecules. <i>Journal of Chemical Physics</i> , 2001, 114, 6578-6591.	1.2	119
59	Liquid-crystal phases of capped carbon nanotubes. <i>Physical Review B</i> , 2001, 63, .	1.1	55
60	Efficient Treatment of Fixed and Induced Dipolar Interactions. <i>Materials Research Society Symposia Proceedings</i> , 2000, 653, .	0.1	0
61	Two- and three-dimensional simulations of the phase separation of elastically coherent binary alloys subject to external stresses. <i>Physical Review B</i> , 2000, 62, 3160-3168.	1.1	19
62	Efficient particle-mesh Ewald based approach to fixed and induced dipolar interactions. <i>Journal of Chemical Physics</i> , 2000, 113, 10913-10927.	1.2	394
63	Efficient Treatment of Fixed and Induced Dipolar Interactions. <i>Materials Research Society Symposia Proceedings</i> , 2000, 653, 1.	0.1	0
64	Large-scale simulations of phase separation of elastically coherent binary alloy systems. <i>Physical Review B</i> , 1999, 59, 8646-8659.	1.1	52
65	MOLECULAR DYNAMICS SIMULATIONS OF BIOMOLECULES: Long-Range Electrostatic Effects. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1999, 28, 155-179.	18.3	552
66	Theory of nucleation and growth during phase separation. <i>Physical Review E</i> , 1999, 59, 4175-4187.	0.8	53
67	Phase Separation and Elastic Fields: Three Dimensional Simulations of a Phase Field Model. <i>Materials Research Society Symposia Proceedings</i> , 1999, 580, 21.	0.1	0
68	P3M and PME: A comparison of the two methods. , 1999, , .		19
69	Three-dimensional simulations of Ostwald ripening with elastic effects. <i>Physical Review E</i> , 1998, 58, R4092-R4095.	0.8	27
70	Elastic effects in the foaming of thermoplastics. <i>Physical Review E</i> , 1998, 58, 4654-4657.	0.8	19
71	Nucleation and growth: Decay of a metastable state. <i>Physical Review E</i> , 1997, 56, R21-R24.	0.8	22
72	Spinodal decomposition in an order-disorder transition: Effect of interfacial properties. <i>Physical Review E</i> , 1996, 53, 5101-5105.	0.8	9

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73	Kinetics of an order-disorder phase transition with topological defects. Physical Review E, 1996, 54, 4775-4781.	0.8	0
74	Kinetics of phase ordering in systems with competing interactions. Journal of Magnetism and Magnetic Materials, 1995, 149, 87-92.	1.0	1
75	Effects of long-range repulsive interactions on Ostwald ripening. Physical Review E, 1995, 52, 2822-2840.	0.8	24
76	Ostwald Ripening in Systems with Competing Interactions. Physical Review Letters, 1995, 74, 1119-1122.	2.9	48
77	Late-stage kinetics of systems with competing interactions quenched into the hexagonal phase. Physical Review E, 1995, 52, 2807-2821.	0.8	34
78	Spinodal decomposition in an order-disorder phase transition with elastic fields. Physical Review E, 1994, 50, 4865-4879.	0.8	73
79	Kinetics of phase separation in two-dimensional systems with competing interactions. Physical Review E, 1994, 49, 2225-2244.	0.8	80
80	Kinetics of topological defects in systems with competing interactions. Physical Review Letters, 1993, 71, 3995-3998.	2.9	46