

# Jun Soo Kim

## List of Publications by Year in descending order

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44  
papers

1,039  
citations

430874

18  
h-index

434195

31  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Diffusion and Viscosity in Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12007-12013.	2.6	156
2	Effect of Macromolecular Crowding on Reaction Rates: A Computational and Theoretical Study. <i>Biophysical Journal</i> , 2009, 96, 1333-1340.	0.5	114
3	Crowding-Induced Structural Alterations of Random-Loop Chromosome Model. <i>Physical Review Letters</i> , 2011, 106, 168102.	7.8	52
4	Visible-Light-Induced Synthesis of Carbazoles by in Situ Formation of Photosensitizing Intermediate. <i>Organic Letters</i> , 2017, 19, 1906-1909.	4.6	51
5	Collapse–Swelling Transitions of a Thermoresponsive, Single Poly( <i>N</i> -isopropylacrylamide) Chain in Water. <i>Journal of Physical Chemistry B</i> , 2016, 120, 13184-13192.	2.6	49
6	Visible-Light-Induced Arylthiofluoroalkylations of Unactivated Heteroaromatics and Alkenes. <i>Organic Letters</i> , 2016, 18, 3246-3249.	4.6	48
7	Crowding Effects on Association Reactions at Membranes. <i>Biophysical Journal</i> , 2010, 98, 951-958.	0.5	45
8	The effect of salt on the melting of ice: A molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2008, 129, 124504.	3.0	43
9	Crowding Effects on the Formation and Maintenance of Nuclear Bodies: Insights from Molecular-Dynamics Simulations of Simple Spherical Model Particles. <i>Biophysical Journal</i> , 2012, 103, 424-433.	0.5	40
10	Transport dynamics of complex fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12733-12742.	7.1	34
11	The influence of chromosome density variations on the increase in nuclear disorder strength in carcinogenesis. <i>Physical Biology</i> , 2011, 8, 015004.	1.8	33
12	Crowding Effects on Protein Association: Effect of Interactions between Crowding Agents. <i>Journal of Physical Chemistry B</i> , 2011, 115, 347-353.	2.6	33
13	A Diffusive Anomaly of Water in Aqueous Sodium Chloride Solutions at Low Temperatures. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1729-1735.	2.6	32
14	Retardation of Ice Crystallization by Short Peptides. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4403-4407.	2.5	30
15	Depletion Effect on Polymers Induced by Small Depleting Spheres. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20864-20869.	3.1	30
16	Selective Ring-Opening of <i>N</i> -Alkyl Pyrrolidines with Chloroformates to 4-Chlorobutyl Carbamates. <i>Journal of Organic Chemistry</i> , 2017, 82, 6615-6620.	3.2	21
17	Tracer Diffusion in Tightly-Meshed Homogeneous Polymer Networks: A Brownian Dynamics Simulation Study. <i>Polymers</i> , 2020, 12, 2067.	4.5	21
18	In-layer stacking competition during ice growth. <i>Journal of Chemical Physics</i> , 2014, 140, 014701.	3.0	20

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19	Crowding-Induced Phase Separation of Lennard-Jones Particles: Implications to Nuclear Structures in a Biological Cell. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3874-3879.	2.6	17
20	Directional Ostwald Ripening for Producing Aligned Arrays of Nanowires. <i>Nano Letters</i> , 2019, 19, 4306-4313.	9.1	14
21	Crowding-Induced Formation and Structural Alteration of Nuclear Compartments. <i>International Review of Cell and Molecular Biology</i> , 2014, 307, 73-108.	3.2	13
22	Vesicle-like assemblies of ligand-stabilized nanoparticles with controllable membrane composition and properties. <i>Nanoscale</i> , 2019, 11, 1837-1846.	5.6	13
23	Synthesis of cyclopenta-fused polycyclic aromatic hydrocarbons utilizing aryl-substituted anilines. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6804-6810.	2.8	11
24	New Method for Constant- <i>NPT</i> Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1689-1699.	2.5	11
25	Cluster growth mechanisms in Lennard-Jones fluids: A comparison between molecular dynamics and Brownian dynamics simulations. <i>Chemical Physics</i> , 2015, 449, 1-9.	1.9	10
26	Entropic effect of macromolecular crowding enhances binding between nucleosome clutches in heterochromatin, but not in euchromatin. <i>Scientific Reports</i> , 2018, 8, 5469.	3.3	10
27	Confinement and partitioning of a single polymer chain in a dense array of nanoposts. <i>Soft Matter</i> , 2015, 11, 8262-8272.	2.7	9
28	Droplet formation and growth inside a polymer network: A molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2016, 144, 134502.	3.0	9
29	Photosensitizer-conjugated tryptophan-containing peptide ligands as new dual-targeted theranostics for cancers. <i>International Journal of Pharmaceutics</i> , 2016, 513, 584-590.	5.2	8
30	In silico construction of a flexibility-based DNA Brownian ratchet for directional nanoparticle delivery. <i>Science Advances</i> , 2019, 5, eaav4943.	10.3	8
31	Confinement-driven organization of a histone-complexed DNA molecule in a dense array of nanoposts. <i>Nanoscale</i> , 2017, 9, 6391-6398.	5.6	7
32	Effect of DNA Flexibility on Complex Formation of a Cationic Nanoparticle with Double-Stranded DNA. <i>ACS Omega</i> , 2021, 6, 18728-18736.	3.5	7
33	Sequence-dependent twist-bend coupling in DNA minicircles. <i>Nanoscale</i> , 2021, 13, 20186-20196.	5.6	7
34	The breakdown of the local thermal equilibrium approximation for a polymer chain during packaging. <i>Journal of Chemical Physics</i> , 2019, 150, 204901.	3.0	6
35	Unusual size-dependence of effective interactions between collapsed polymers in crowded environments. <i>Soft Matter</i> , 2014, 10, 9098-9104.	2.7	5
36	Directional rolling of positively charged nanoparticles along a flexibility gradient on long DNA molecules. <i>Soft Matter</i> , 2018, 14, 817-825.	2.7	5

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37	Phase separation of a Lennard-Jones fluid interacting with a long, condensed polymer chain: implications for the nuclear body formation near chromosomes. <i>Soft Matter</i> , 2015, 11, 6450-6459.	2.7	4
38	Nematic ordering of hard rods under strong confinement in a dense array of nanoposts. <i>Physical Review E</i> , 2020, 101, 032705.	2.1	4
39	Potential of Mean Force for DNA Wrapping Around a Cationic Nanoparticle. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7952-7961.	5.3	3
40	Dynamics of a <scp>DNA</scp> minicircle: Poloidal rotation and inâ€plane circular vibration. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 523-528.	1.9	3
41	Macromolecular Crowding and Nanoscale Confinement on the Structural Regulation of Chromatins/DNAs. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1343-1350.	3.2	1
42	A model for cascading failures with the probability of failure described as a logistic function. <i>Scientific Reports</i> , 2022, 12, 989.	3.3	1
43	Liquid-like properties of cyclopentadienyl complexes of barium: molecular dynamics simulations of nanoscale droplets. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15982-15990.	2.8	1
44	Monolayer and Bilayer Structures of Mixtures of Ceramide IIIb and c16â€Alkyl Glucosides. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 982-987.	1.9	0