Younjoon J Jung

List of Publications by Year in descending order

62 papers	2,201 citations	279798 23 h-index	223800 46 g-index
64 all docs	64 docs citations	64 times ranked	2394 citing authors

#	Article	IF	Citations
1	THEORY OF SINGLE-MOLECULE SPECTROSCOPY: Beyond the Ensemble Average. Annual Review of Physical Chemistry, 2004, 55, 457-507.	10.8	266
2	Excitation lines and the breakdown of Stokes-Einstein relations in supercooled liquids. Physical Review E, 2004, 69, 061205.	2.1	200
3	Lineshape theory and photon counting statistics for blinking quantum dots: a LÃ©vy walk process. Chemical Physics, 2002, 284, 181-194.	1.9	110
4	Graphene-Based Supercapacitors: A Computer Simulation Study. Journal of Physical Chemistry C, 2011, 115, 23574-23583.	3.1	104
5	Dynamical exchanges in facilitated models of supercooled liquids. Journal of Chemical Physics, 2005, 123, 084509.	3.0	93
6	Nonequilibrium generalization of FÃ¶rsterâ€“Dexter theory for excitation energy transfer. Chemical Physics, 2002, 275, 319-332.	1.9	90
7	Graphene-based supercapacitors in the parallel-plate electrode configuration: Ionic liquidsversus organic electrolytes. Faraday Discussions, 2012, 154, 249-263.	3.2	79
8	Horizontal-to-Vertical Transition of 2D Layer Orientation in Low-Temperature Chemical Vapor Deposition-Grown PtSe₂ and Its Influences on Electrical Properties and Device Applications. ACS Applied Materials & Interfaces, 2019, 11, 13598-13607.	8.0	77
9	Time-Dependent Fluctuations in Single Molecule Spectroscopy: A Generalized Wiener-Khintchine Approach. Physical Review Letters, 2001, 87, 207403.	7.8	75
10	Current status of single-molecule spectroscopy: Theoretical aspects. Journal of Chemical Physics, 2002, 117, 10980-10995.	3.0	71
11	Slowing Down of Ring Polymer Diffusion Caused by Interâ€Ring Threading. Macromolecular Rapid Communications, 2015, 36, 1115-1121.	3.9	69
12	Understanding the charging dynamics of an ionic liquid electric double layer capacitor via molecular dynamics simulations. Physical Chemistry Chemical Physics, 2019, 21, 6790-6800.	2.8	65
13	Graphene Oxide Supercapacitors: A Computer Simulation Study. Journal of Physical Chemistry C, 2014, 118, 18472-18480.	3.1	60
14	Thickness-Independent Semiconducting-to-Metallic Conversion in Wafer-Scale Two-Dimensional PtSe₂ Layers by Plasma-Driven Chalcogen Defect Engineering. ACS Applied Materials & Interfaces, 2020, 12, 14341-14351.	8.0	51
15	Delfos: deep learning model for prediction of solvation free energies in generic organic solvents. Chemical Science, 2019, 10, 8306-8315.	7.4	49
16	Fragility, Stokesâ€“Einstein violation, and correlated local excitations in a coarse-grained model of an ionic liquid. Physical Chemistry Chemical Physics, 2010, 12, 2001.	2.8	48
17	Wafer-Scale Growth of 2D PtTe₂ with Layer Orientation Tunable High Electrical Conductivity and Superior Hydrophobicity. ACS Applied Materials & Interfaces, 2020, 12, 10839-10851.	8.0	48
18	Effects of Alkyl Chain Length on Interfacial Structure and Differential Capacitance in Graphene Supercapacitors: A Molecular Dynamics Simulation Study. Electrochimica Acta, 2017, 247, 634-645.	5.2	47

#	Article	IF	Citations
19	Computer Simulation Study of Graphene Oxide Supercapacitors: Charge Screening Mechanism. Journal of Physical Chemistry Letters, 2016, 7, 1180-1186.	4.6	38
20	Strainâ€Driven and Layerâ€Numberâ€Dependent Crossover of Growth Mode in van der Waals Heterostructures: 2D/2D Layerâ€Byâ€Layer Horizontal Epitaxy to 2D/3D Vertical Reorientation. Advanced Materials Interfaces, 2018, 5, 1800382.	3.7	35
21	Vertically Aligned 2D MoS₂ Layers with Strain-Engineered Serpentine Patterns for High-Performance Stretchable Gas Sensors: Experimental and Theoretical Demonstration. ACS Applied Materials & Interfaces, 2020, 12, 53174-53183.	8.0	35
22	Three dimensionally-ordered 2D MoS₂vertical layers integrated on flexible substrates with stretch-tunable functionality and improved sensing capability. Nanoscale, 2018, 10, 17525-17533.	5.6	31
23	Electronic Coherence in Mixed-Valence Systems:Â Spectral Analysis. Journal of Physical Chemistry A, 1999, 103, 9460-9468.	2.5	24
24	Time scale of dynamic heterogeneity in model ionic liquids and its relation to static length scale and charge distribution. Physical Chemistry Chemical Physics, 2015, 17, 29281-29292.	2.8	24
25	Diffusionâ€influenced radical recombination in the presence of a scavenger. Journal of Chemical Physics, 1996, 104, 5784-5797.	3.0	23
26	A Stochastic Theory of Single Molecule Spectroscopy. Advances in Chemical Physics, 2003, , 199-266.	0.3	23
27	Spectral analysis of electron transfer kinetics. I. Symmetric reactions. Journal of Chemical Physics, 2000, 112, 4716-4722.	3.0	22
28	Carbon nanotubes in benzene: internal and external solvation. Physical Chemistry Chemical Physics, 2011, 13, 3969.	2.8	22
29	Discrete Dipole Approximation Calculations of Optical Properties of Silver Nanorod Arrays in Porous Anodic Alumina. Journal of Physical Chemistry C, 2009, 113, 16321-16328.	3.1	19
30	Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie - International Edition, 2019, 58, 16764-16769.	13.8	19
31	Excluded Volume Effect on the Diffusion-Influenced Bimolecular Reactions. Journal of Physical Chemistry A, 1997, 101, 5255-5261.	2.5	18
32	1 âˆ• f spectrum and memory function analysis of solvation dynamics in a room-temperature ionic liquid. Journal of Chemical Physics, 2008, 128, 174504.	3.0	18
33	Segregated structures of ring polymer melts near the surface: a molecular dynamics simulation study. Soft Matter, 2015, 11, 6018-6028.	2.7	17
34	MLSolvA: solvation free energy prediction from pairwise atomistic interactions by machine learning. Journal of Cheminformatics, 2021, 13, 56.	6.1	17
35	Spectral analysis of electron transfer kinetics. II. Journal of Chemical Physics, 2002, 117, 3822-3836.	3.0	16
36	Computer simulation study of differential capacitance and charging mechanism in graphene supercapacitors: Effects of cyano-group in ionic liquids. Electrochimica Acta, 2018, 284, 577-586.	5.2	16

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37	Slow Dynamics of Ring Polymer Melts by Asymmetric Interaction of Threading Configuration: Monte Carlo Study of a Dynamically Constrained Lattice Model. Polymers, 2019, 11, 516.	4.5	16
38	Heterogeneous dynamics and its length scale in simple ionic liquid models: a computational study. Physical Chemistry Chemical Physics, 2016, 18, 6486-6497.	2.8	15
39	Cooperative Conformational Change of a Single Organic Molecule for Ultrafast Rechargeable Batteries. ACS Energy Letters, 2021, 6, 1659-1669.	17.4	15
40	Equivalence of the radical recombination rate theories of Waite and Szabo. Chemical Physics Letters, 1994, 231, 429-438.	2.6	14
41	Dynamic propensity as an indicator of heterogeneity in room-temperature ionic liquids. Physical Chemistry Chemical Physics, 2014, 16, 19712-19719.	2.8	14
42	The Nature of Hydrated Protons on Platinum Surfaces. Chemistry - A European Journal, 2017, 23, 17566-17575.	3.3	13
43	Structural Evolutions of Vertically Aligned Two-Dimensional MoS₂ Layers Revealed by in Situ Heating Transmission Electron Microscopy. Journal of Physical Chemistry C, 2019, 123, 27843-27853.	3.1	13
44	Six-wave mixing spectroscopy: Resonant coherent hyper-Raman scattering. Journal of Chemical Physics, 1998, 108, 4013-4020.	3.0	10
45	Entropic effect of macromolecular crowding enhances binding between nucleosome clutches in heterochromatin, but not in euchromatin. Scientific Reports, 2018, 8, 5469.	3.3	10
46	Many-chain effects on the co-nonsolvency of polymer brushes in a good solvent mixture. Soft Matter, 2019, 15, 7968-7980.	2.7	8
47	Excitation-energy dependence of solvation dynamics in room-temperature ionic liquids. Journal of Chemical Physics, 2016, 145, 044502.	3.0	6
48	Solvation of a Small Metal-Binding Peptide in Room-Temperature Ionic Liquids. Bulletin of the Korean Chemical Society, 2012, 33, 3601-3606.	1.9	6
49	Unusual size-dependence of effective interactions between collapsed polymers in crowded environments. Soft Matter, 2014, 10, 9098-9104.	2.7	5
50	Effects of a quantum-mechanically driven two-state gating mode on the diffusion-influenced bimolecular reactions. Journal of Chemical Physics, 1997, 107, 9864-9877.	3.0	4
51	Dynamic heterogeneity in crossover spin facilitated model of supercooled liquid and fractional Stokes-Einstein relation. Journal of Chemical Physics, 2015, 142, 244506.	3.0	4
52	Phase separation of a Lennard-Jones fluid interacting with a long, condensed polymer chain: implications for the nuclear body formation near chromosomes. Soft Matter, 2015, 11, 6450-6459.	2.7	4
53	Sequence-Dependent Kink Formation in Short DNA Loops: Theory and Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2021, 17, 1308-1317.	5.3	4
54	Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie, 2019, 131, 16920-16925.	2.0	3

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55	Dynamics and Entropy of Cyclohexane Rings Control pH-Responsive Reactivity. Jacs Au, 2021, 1, 2070-2079.	7.9	3
56	Dynamic Heterogeneity in Room-Temperature Ionic Liquids. , 2011, , .		2
57	Study of the upper-critical dimension of the East model through the breakdown of the Stokes-Einstein relation. Journal of Chemical Physics, 2017, 147, 084504.	3.0	2
58	Coarse-graining strategy for modeling effective, highly diffusive fluids with reduced polydispersity: A dynamical study. Journal of Chemical Physics, 2020, 153, 104509.	3.0	2
59	Computational investigation of dynamical heterogeneity in ionic liquids based on the restricted primitive model. Bulletin of the Korean Chemical Society, 2022, 43, 626-635.	1.9	2
60	Reaction-path statistical mechanics of enzymatic kinetics. Journal of Chemical Physics, 2022, 156, 134108.	3.0	1
61	Frontispiz: Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie, 2019, 131, .	2.0	0
62	Frontispiece: Biological Nicotinamide Cofactor as a Redoxâ€Active Motif for Reversible Electrochemical Energy Storage. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0