Seokmin Shin

List of Publications by Year
in descending order

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		759233	526287
42	757	12	27
papers	citations	h-index	g-index

43	43	43	1164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutation effects on FAS1 domain 4 based on structure and solubility. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2022, 1870, 140746.	2.3	0
2	Electron Attachment to the (O2Â·Â·Â·CO2) van der Waals Complex Results in a Monomeric Anion (O2â€“CO2)â^', a Possible Form of CO4â€“. Journal of Physical Chemistry A, 2021, 125, 5794-5799.	2.5	5
3	Site-Specific Backbone and Side-Chain Contributions to Thermodynamic Stabilizing Forces of the WW Domain. Journal of Physical Chemistry B, 2021, 125, 7108-7116.	2.6	4
4	Dynamics and Entropy of Cyclohexane Rings Control pH-Responsive Reactivity. Jacs Au, 2021, 1, 2070-2079.	7.9	3
5	Graphene Quantum Dots Alleviate Impaired Functions in Niemann-Pick Disease Type C in Vivo. Nano Letters, 2021, 21, 2339-2346.	9.1	17
6	Computational Insights into the Aggregation Pathway of Self-Assembled Nanotubules. Journal of Physical Chemistry B, 2021, 125, 12082-12094.	2.6	0
7	Electrocatalytic Oxygen Reduction Reaction Improved By Facilitated Proton Transfer. ECS Meeting Abstracts, 2020, MA2020-02, 3632-3632.	0.0	0
8	Grid-Based Ehrenfest Model To Study Electronâ€“Nuclear Processes. Journal of Physical Chemistry A, 2019, 123, 7171-7176.	2.5	3
9	Computational Study on Structure and Aggregation Pathway of AÎ²₄₂ Amyloid Protofibril. Journal of Physical Chemistry B, 2019, 123, 7859-7868.	2.6	4
10	Control defeasance by anti-alignment in the excited state. Physical Chemistry Chemical Physics, 2019, 21, 23620-23625.	2.8	4
11	Graphene quantum dots prevent Î±-synucleinopathy in Parkinsonâ€™s disease. Nature Nanotechnology, 2018, 13, 812-818.	31.5	339
12	Conformational sampling of metastable states: Tq-REM as a novel replica exchange method. Physical Chemistry Chemical Physics, 2017, 19, 5454-5464.	2.8	2
13	Geometrical Optimization Approach to Isomerization: Models and Limitations. Journal of Physical Chemistry A, 2017, 121, 8280-8287.	2.5	2
14	Site-dependent effects of methylation on the electronic spectra of jet-cooled methylated xanthine compounds. Physical Chemistry Chemical Physics, 2017, 19, 22375-22384.	2.8	4
15	Laser control of the RbCs bond. European Physical Journal D, 2017, 71, 1.	1.3	3
16	Molecular events in the light of strong fields: A lightâ€induced potential scenario. International Journal of Quantum Chemistry, 2016, 116, 608-621.	2.0	15
17	The role of the acidic domain of Î±-synuclein in amyloid fibril formation: a molecular dynamics study. Journal of Biomolecular Structure and Dynamics, 2016, 34, 376-383.	3.5	19
18	A Molecular Dynamics Study on Controlling the Selfâ€Assembly of Î²â€Sheet Peptides with Designer Nanorings. Chemistry - an Asian Journal, 2015, 10, 1684-1689.	3.3	2

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19	Oscillating molecular dipoles require strongly correlated electronic and nuclear motion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 043001.	1.5	14
20	Ultrafast Population Inversion without the Strong Field Catch: The Parallel Transfer. Journal of Physical Chemistry Letters, 2015, 6, 1724-1728.	4.6	9
21	The Hydrogen molecular cation as a molecular antenna. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 174005.	1.5	5
22	â€œStirred, Not Shakenâ€• Vibrational Coherence Can Speed Up Electronic Absorption. Journal of Physical Chemistry A, 2015, 119, 9091-9097.	2.5	6
23	State-Selective Excitation of Quantum Systems via Geometrical Optimization. Journal of Chemical Theory and Computation, 2015, 11, 4005-4010.	5.3	7
24	Computational Study on Removal of Epoxide from Narrow Zigzag Graphene Nanoribbons. Journal of Physical Chemistry C, 2014, 118, 27123-27130.	3.1	2
25	Ultrafast coherent control of giant oscillating molecular dipoles in the presence of static electric fields. Journal of Chemical Physics, 2013, 139, 084306.	3.0	14
26	Twoâ€Pulse Control of Largeâ€Amplitude Vibrations in H₂⁺. ChemPhysChem, 2013, 14, 1405-1412.	2.1	10
27	Tuning of the Band Structures of Zigzag Graphene Nanoribbons by an Electric Field and Adsorption of Pyridine and BF3: A DFT Study. Journal of Physical Chemistry C, 2012, 116, 20054-20061.	3.1	10
28	Simulated Q-annealing: conformational search with an effective potential. Journal of Molecular Modeling, 2012, 18, 213-220.	1.8	3
29	Laser adiabatic manipulation of the bond length of diatomic molecules with a single chirped pulse. Journal of Chemical Physics, 2011, 134, 144303.	3.0	9
30	Inducing changes in the bond length of diatomic molecules by time-symmetric chirped pulses. Physical Review A, 2010, 82, .	2.5	19
31	Ultrafast photodissociation assisted by strong non-resonant Stark effect: the â€˜straddlingâ€™ control pulse. Journal of Modern Optics, 2009, 56, 811-821.	1.3	11
32	Folding simulations with novel conformational search method. Journal of Chemical Physics, 2007, 126, 104906.	3.0	10
33	Structure of 4-biphenylthiolate on Au nanoparticle surfaces studied by UV-Vis absorption spectroscopy, transmission electron microscopy and surface-enhanced Raman scattering. Surface and Interface Analysis, 2004, 36, 43-48.	1.8	6
34	Replica-Exchange Method Using the Generalized Effective Potential. Physical Review Letters, 2003, 91, 058305.	7.8	91
35	Prediction of helical peptide folding in an implicit water by a new molecular dynamics scheme with generalized effective potential. Journal of Chemical Physics, 2002, 116, 6831-6835.	3.0	11
36	Computational Studies of Essential Dynamics ofPseudomonas cepaciaLipase. Journal of Biomolecular Structure and Dynamics, 2000, 18, 297-309.	3.5	12

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37	Molecular dynamics studies of semifluorinated hydrocarbon monolayers. Journal of Chemical Physics, 1999, 111, 6556-6564.	3.0	12
38	Formation of ordered structure in Langmuir monolayers of semifluorinated hydrocarbons: Molecular dynamics simulations. Journal of Chemical Physics, 1999, 110, 10239-10242.	3.0	17
39	One-electron model for photodissociation dynamics of diatomic anion. Journal of Chemical Physics, 1998, 109, 10087-10095.	3.0	8
40	On the numerical solutions of kinetic equations for diffusion-influenced bimolecular reactions. Journal of Chemical Physics, 1998, 108, 5861-5869.	3.0	20
41	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
42	Monte Carlo simulation study of recombination dynamics in solution. Journal of Chemical Physics, 1996, 105, 7705-7711.	3.0	21