

Eunji Sim

List of Publications by Year in descending order

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90
papers

2,812
citations

159585

30
h-index

182427

51
g-index

91
all docs

91
docs citations

91
times ranked

2829
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and Reducing Errors in Density Functional Calculations. <i>Physical Review Letters</i> , 2013, 111, 073003.	7.8	271
2	Ultrathin Zirconium Disulfide Nanodiscs. <i>Journal of the American Chemical Society</i> , 2011, 133, 7636-7639.	13.7	149
3	Composition-Dependent Hot Carrier Relaxation Dynamics in Cesium Lead Halide (CsPbX ₃). <i>Physical Review Letters</i> , 2017, 118, 077401.	13.8	141
4	Filtered propagator functional for iterative dynamics of quantum dissipative systems. <i>Computer Physics Communications</i> , 1997, 99, 335-354.	7.5	98
5	Long-time quantum simulation of the primary charge separation in bacterial photosynthesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 3926-3931.	7.1	97
6	Communication: Avoiding unbound anions in density functional calculations. <i>Journal of Chemical Physics</i> , 2011, 134, 171103.	3.0	93
7	The Importance of Being Inconsistent. <i>Annual Review of Physical Chemistry</i> , 2017, 68, 555-581.	10.8	93
8	Path Integral Simulation of Charge Transfer Dynamics in Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5446-5458.	2.6	89
9	Ions in solution: Density corrected density functional theory (DC-DFT). <i>Journal of Chemical Physics</i> , 2014, 140, 18A528.	3.0	87
10	Quantum dynamics for a system coupled to slow baths: On-the-fly filtered propagator method. <i>Journal of Chemical Physics</i> , 2001, 115, 4450-4456.	3.0	83
11	Improved DFT Potential Energy Surfaces via Improved Densities. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3802-3807.	4.6	79
12	Reversible Transformation of Helical Coils and Straight Rods in Cylindrical Assembly of Elliptical Macrocycles. <i>Journal of the American Chemical Society</i> , 2009, 131, 17768-17770.	13.7	78
13	Benchmarks and Reliable DFT Results for Spin Gaps of Small Ligand Fe(II) Complexes. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2304-2311.	5.3	71
14	Biased Helical Folding of Chiral Oligoindole Foldamers. <i>Organic Letters</i> , 2008, 10, 5373-5376.	4.6	70
15	Tensor propagator with weight-selected paths for quantum dissipative dynamics with long-memory kernels. <i>Chemical Physics Letters</i> , 1996, 249, 224-230.	2.6	67
16	Quantifying Density Errors in DFT. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6385-6392.	4.6	67
17	Density Functional Analysis: The Theory of Density-Corrected DFT. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6636-6646.	5.3	66
18	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2091-2095.	13.8	58

#	ARTICLE	IF	CITATIONS
19	Identification of Droplet-Flow-Induced Electric Energy on Electrolyte-Insulator-Semiconductor Structure. <i>Journal of the American Chemical Society</i> , 2017, 139, 10968-10971.	13.7	56
20	Quantum Rate Constants from Short-Time Dynamics: An Analytic Continuation Approach. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2824-2833.	2.5	50
21	Quantum time correlation functions from complex time Monte Carlo simulations: A maximum entropy approach. <i>Journal of Chemical Physics</i> , 2001, 114, 1075-1088.	3.0	48
22	Improving Results by Improving Densities: Density-Corrected Density Functional Theory. <i>Journal of the American Chemical Society</i> , 2022, 144, 6625-6639.	13.7	45
23	Time-dependent discrete variable representations for quantum wave packet propagation. <i>Journal of Chemical Physics</i> , 1995, 102, 5616-5625.	3.0	43
24	Halogen and Chalcogen Binding Dominated by Density-Driven Errors. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 295-301.	4.6	43
25	Testing the kinetic energy functional: Kinetic energy density as a density functional. <i>Journal of Chemical Physics</i> , 2003, 118, 8140-8148.	3.0	38
26	Folding of Coordination Polymers into Double-Stranded Helical Organization. <i>Chemistry - A European Journal</i> , 2008, 14, 3883-3888.	3.3	35
27	Effect of Conformational Heterogeneity on Excitation Energy Transfer Efficiency in Directly meso-meso Linked Zn(II) Porphyrin Arrays. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11223-11230.	2.6	33
28	Density-Corrected DFT Explained: Questions and Answers. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 817-827.	5.3	33
29	Excited-State Dynamic Planarization of Cyclic Oligothiophenes in the Vicinity of a Ring-Linear Excitonic Behavioral Turning Point. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12711-12715.	13.8	32
30	On the Bayesian approach to calculating time correlation functions in quantum systems; reaction dynamics and spectroscopy. <i>Chemical Physics</i> , 2001, 268, 21-34.	1.9	30
31	Pore dilatation increases the bicarbonate permeability of CFTR, ANO1 and glycine receptor anion channels. <i>Journal of Physiology</i> , 2016, 594, 2929-2955.	2.9	30
32	Composition-Dependent Hot Carrier Relaxation Dynamics in Cesium Lead Halide (CsPbX ₃). <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2900-2905.	2.0	29
33	Density Sensitivity of Empirical Functionals. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 800-807.	4.6	29
34	Measuring Density-Driven Errors Using Kohn-Sham Inversion. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5014-5023.	5.3	28
35	Superatom Superatom [Rh@Ag ₂₄ (SPhMe ₂) ₁₈] ²⁺ Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22293-22300.	13.8	28
36	Plasmon-enhanced total-internal-reflection fluorescence by momentum-mismatched surface nanostructures. <i>Optics Letters</i> , 2009, 34, 3905.	3.3	23

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37	Explaining and Fixing DFT Failures for Torsional Barriers. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2796-2804.	4.6	23
38	Stepped Strips from Self-Organization of Oligo(p-phenylene) Rods with Lateral Dendritic Chains. <i>Journal of the American Chemical Society</i> , 2008, 130, 14448-14449.	13.7	22
39	Nonmonotonic Size-Dependent Carrier Mobility in PbSe Nanocrystal Arrays. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 714-719.	4.6	22
40	Segmented coupled-wave analysis of a curved wire-grid polarizer. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 558.	1.5	20
41	Modulation of the photoelectrochemical behavior of Au nanocluster@TiO ₂ electrode by doping. <i>Chemical Science</i> , 2020, 11, 6248-6255.	7.4	20
42	Molecular Dipole Chains II. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8663-8670.	2.6	18
43	Determination of the Electron Transfer Mechanism through Decomposition of the Density Matrix. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19093-19095.	2.6	16
44	The Role of Linkers in the Excited-State Dynamic Planarization Processes of Macrocylic Oligothiophene 12-Mers. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4444-4450.	4.6	15
45	KS-pies: Kohn-Sham inversion toolkit. <i>Journal of Chemical Physics</i> , 2021, 154, 124122.	3.0	15
46	Blazed wire-grid polarizer for plasmon-enhanced polarization extinction: design and analysis. <i>Optics Express</i> , 2017, 25, 8098.	3.4	14
47	A New Semiempirical Approach to Study Ground and Excited States of Metal Complexes in Biological Systems. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8038-8046.	2.6	13
48	Influence of the block hydrophilicity of AB ₂ miktoarm star copolymers on cluster formation in solutions. <i>Journal of Chemical Physics</i> , 2011, 134, 204901.	3.0	13
49	Microscale heat transfer and thermal extinction of a wire-grid polarizer. <i>Scientific Reports</i> , 2018, 8, 14973.	3.3	13
50	Interior-filled self-assemblies of tyrosyl bolaamphiphiles regulated by hydrogen bonds. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10274-10281.	2.8	12
51	Distance Dependent Coherence Variation in DNA Charge-Transfer Processes. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2557-2561.	2.6	11
52	Effect of the Donor-Bridge Energy Gap on the Electron-Transfer Mechanism in Donor-Bridge-Acceptor Systems. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11829-11835.	2.6	10
53	Ultrafast Carrier-Lattice Interactions and Interlayer Modulations of Bi ₂ Se ₃ by X-ray Free-Electron Laser Diffraction. <i>Nano Letters</i> , 2021, 21, 8554-8562.	9.1	10
54	Environmental Effect on the Relative Contribution of the Charge-Transfer Mechanisms within a Short DNA Sequence. <i>Journal of Physical Chemistry B</i> , 2006, 110, 631-636.	2.6	9

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55	Monte Carlo study of coherent diffuse photon transport in a homogeneous turbid medium: a degree-of-coherence based approach. <i>Applied Optics</i> , 2008, 47, 336.	2.1	9
56	Parametrization of an anharmonic Kirkwood-Keating potential for Al _x Ga _{1-x} As alloys. <i>Journal of Chemical Physics</i> , 2005, 122, 174702.	3.0	8
57	Characterization of Quantum Dynamically Significant Paths of Bridge-Mediated Charge Transfer Systems. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13642-13648.	2.6	8
58	Evaluation of photoluminescence quenching for assessing the binding of nitroaromatic compounds to a tyrosyl bolaamphiphile self-assembly. <i>Analyst</i> , 2015, 140, 5354-5360.	3.5	8
59	Formation of Tubular Scrolls with Controlled Internal Cavity. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1796-1801.	2.6	7
60	Superatom Superatom [Rh@Ag ₂₄ (SPhMe ₂) ₁₈] ²⁺ Nanocluster. <i>Angewandte Chemie</i> , 2021, 133, 22467-22474.	2.0	7
61	Surface Graft Configuration Dependency of the Morphologies of Heterosurface Sheet Polymers. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5771-5776.	2.6	6
62	Formation of Rigid Organic Nanotubes with Controlled Internal Cavity Based on Frustrated Aggregate Internal Rearrangement Mechanism. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7763-7770.	2.6	6
63	Self-rolled nanotubes with controlled hollow interiors by patterned grafts. <i>Soft Matter</i> , 2015, 11, 3714-3723.	2.7	6
64	Fluorometric detection of nitroaromatics by fluorescent lead complexes: A spectroscopic assessment of detection mechanism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 194, 222-229.	3.9	6
65	Glass formation and local disorder: Amorphization in planar clusters. <i>Journal of Chemical Physics</i> , 1998, 109, 7901-7906.	3.0	5
66	Degree of Coherence of Single-Component Molecular Wires: Dependence on Length, Coupling Strength, and Dissipative Medium. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1312-1316.	3.1	5
67	Pathway Analysis on DNA Charge Transfer through Adenine and Guanine Bridges. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20394-20400.	3.1	5
68	Supercooling in a two-dimensional Lennard-Jones mixture. <i>Journal of Chemical Physics</i> , 2001, 114, 9048-9058.	3.0	4
69	Analysis of Bridge-Mediated Pathways for Long-Range Charge Transfer Systems. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16803-16807.	2.6	4
70	Distance-dependent charge transfer mechanism in adenine bridging DNA sequences. <i>Current Applied Physics</i> , 2009, 9, e276-e279.	2.4	4
71	Direct observation of structural properties and fluorescent trapping sites in macrocyclic porphyrin arrays at the single-molecule level. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3871-3877.	2.8	4
72	Effect of Nanogap-Based Light-Matter Colocalization on the Surface Plasmon Resonance Detection. <i>Journal of Lightwave Technology</i> , 2017, 35, 4721-4727.	4.6	4

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73	Ion Specificity on Electric Energy Generated by Flowing Water Droplets. <i>Angewandte Chemie</i> , 2018, 130, 2113-2117.	2.0	4
74	Conformational Heterogeneity in Large Macrocyclic Thiophenes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4136-4141.	4.6	4
75	Atomic classes: Rearrangement processes. <i>Journal of Chemical Physics</i> , 1999, 110, 6519-6529.	3.0	3
76	Coherence Length Determination of <i>meso</i> - <i>meso</i> Linked Porphyrin Arrays Based on Forward~Backward Pair Trajectory Analysis. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5040-5045.	2.5	3
77	Investigation and Control of Single Molecular Structures of <i>Meso</i> - <i>Meso</i> Linked Long Porphyrin Arrays. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5121-5125.	2.6	3
78	Local Structure Invariant Potential for In _x Ga _{1-x} As Semiconductor Alloys. <i>Bulletin of the Korean Chemical Society</i> , 2009, 30, 857-862.	1.9	2
79	Computation of Electron Delocalization for Extended Cyclic Conjugated Molecules. <i>Australian Journal of Chemistry</i> , 2016, 69, 999.	0.9	1
80	Coherent excitation energy transfer of meso-meso linked porphyrin array. , 2007, , .		0
81	Size-dependent quantum dynamical influence of metal nanoparticles on surface plasmon resonance. , 2007, 6479, 308.		0
82	Concentration dependent absorption and scattering characteristics of gold nanoparticles embedded in liquid phantoms. , 2007, , .		0
83	Size-dependent quantum dynamical perturbation of gold nanoparticles on surface plasmon resonance. , 2007, , .		0
84	Momentum mismatch for improved plasmon enhanced total internal reflection fluorescence imaging. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
85	Dissociation curves of diatomic molecules: A DC-DFT study. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
86	Frontispiz: Superatom~Superatom [Rh@Ag ₂₄ (SPhMe ₂) ₁₈] ²⁺ Nanocluster. <i>Angewandte Chemie</i> , 2021, 133, .	2.0	0
87	Frontispiece: Superatom~Superatom [Rh@Ag ₂₄ (SPhMe ₂) ₁₈] ²⁺ Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	0
88	Thermal properties and extinction of a wire-grid polarizer. , 2019, , .		0
89	~ ion transfer channel accurately predicts sterically hindered ion channel permeability. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 514-522.	1.9	0
90	Thermal extinction and image misregistration on metallic nanowire arrays. , 2022, , .		0