

Joonsuk Huh

List of Publications by Year in descending order

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55
papers

1,064
citations

516215

16
h-index

433756

31
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all docs

55
docs citations

55
times ranked

1197
citing authors

#	ARTICLE	IF	CITATIONS
1	Ternary Transition Metal Chalcogenide Nb ₂ Pd ₃ Se ₈ : A New Candidate of 1D Van der Waals Materials for Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2108104.	7.8	19
2	Carrier mobility of one-dimensional vanadium selenide (V ₂ Se ₉) monolayer and nanoribbon systems: DFT study. <i>Nanotechnology</i> , 2022, 33, 135703.	1.3	3
3	Unconventional assemblies of bisacylhydrazones: The role of water for circularly polarized luminescence. <i>Aggregate</i> , 2022, 3, .	5.2	3
4	Midwavelength Infrared Colloidal Nanowire Laser. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1431-1437.	2.1	1
5	BoostSweet: Learning molecular perceptual representations of sweeteners. <i>Food Chemistry</i> , 2022, 383, 132435.	4.2	8
6	Unveiling two-dimensional magnesium hydride as a hydrogen storage material via a generative adversarial network. <i>Nanoscale Advances</i> , 2022, 4, 2332-2338.	2.2	2
7	Structural, electronic, and transport properties of 1D Ta ₂ Ni ₃ Se ₈ semiconducting material. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
8	Additive-free photo-mediated oxidative cyclization of pyridinium acylhydrazones to 1,3,4-oxadiazoles: solid-state conversion in a microporous organic polymer and supramolecular energy-level engineering. <i>RSC Advances</i> , 2021, 11, 1969-1975.	1.7	1
9	Unveiling the role of micropores in porous carbon for Li-S batteries using operando SAXS. <i>Chemical Communications</i> , 2021, 57, 10500-10503.	2.2	10
10	Evidence for the Coexistence of Polysulfide and Conversion Reactions in the Lithium Storage Mechanism of MoS ₂ Anode Material. <i>Chemistry of Materials</i> , 2021, 33, 1935-1945.	3.2	16
11	Analog Quantum Simulation of Non-Condon Effects in Molecular Spectroscopy. <i>ACS Photonics</i> , 2021, 8, 2007-2016.	3.2	8
12	Ta ₂ Ni ₃ Se ₈ : 1D van der Waals Material with Ambipolar Behavior. <i>Small</i> , 2021, 17, e2102602.	5.2	15
13	One-dimensional van der Waals stacked p-type crystal Ta ₂ Pt ₃ Se ₈ for nanoscale electronics. <i>Nanoscale</i> , 2021, 13, 17945-17952.	2.8	9
14	Theoretical Study of Anisotropic Carrier Mobility for Two-Dimensional Nb ₂ Se ₉ Material. <i>ACS Omega</i> , 2021, 6, 26782-26790.	1.6	8
15	Tuning the electronic properties of highly anisotropic 2D dangling-bond-free sheets from 1D V ₂ Se ₉ chain structures. <i>Nanotechnology</i> , 2021, 32, 095203.	1.3	6
16	Partial distinguishability as a coherence resource in boson sampling. <i>Quantum Information Processing</i> , 2020, 19, 1.	1.0	4
17	Edge Defect-Free Anisotropic Two-Dimensional Sheets with Nearly Direct Band Gaps from a True One-Dimensional Van der Waals Nb ₂ Se ₉ Material. <i>ACS Omega</i> , 2020, 5, 10800-10807.	1.6	14
18	Sampling photons to simulate molecules. <i>Physics Magazine</i> , 2020, 13, .	0.1	1

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19	LiO <i>t</i> /i>Bu-promoted stereoselective deconjugation of $\hat{1}_{\pm}, \hat{1}_{2}$ -unsaturated diesters probed using density functional theory. <i>Organic Chemistry Frontiers</i> , 2020, 7, 3427-3433.	2.3	4
20	Multimode Bogoliubov transformation and Husimi's Q-function. <i>Journal of Physics: Conference Series</i> , 2020, 1612, 012015.	0.3	7
21	Raman scattering of true 1D van der Waals Nb ₂ Se ₉ nanowires. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1100-1107.	1.2	5
22	Connection between Boson Sampling with quantum and classical input states. <i>Optics Express</i> , 2020, 28, 6929.	1.7	9
23	Entangling bosons through particle indistinguishability and spatial overlap. <i>Optics Express</i> , 2020, 28, 38083.	1.7	19
24	One-Dimensional Single-Chain Nb ₂ Se ₉ as Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5785-5792.	2.5	18
25	Quantum Algorithm for Calculating Molecular Vibronic Spectra. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3586-3591.	2.1	39
26	Entanglement of identical particles and coherence in the first quantization language. <i>Physical Review A</i> , 2019, 99, .	1.0	16
27	Experimental linear optical computing of the matrix permanent. <i>Physical Review A</i> , 2019, 99, .	1.0	5
28	Majorization and the time complexity of linear optical networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 245301.	0.7	5
29	Universal bound on sampling bosons in linear optics and its computational implications. <i>National Science Review</i> , 2019, 6, 719-729.	4.6	11
30	Structural and electronic properties of Mo ₆ S ₃ I ₆ nanowires by newly proposed theoretical compositional ordering. <i>Scientific Reports</i> , 2019, 9, 1222.	1.6	7
31	Indirect-To-Direct Band Gap Transition of One-Dimensional V ₂ Se ₉ : Theoretical Study with Dispersion Energy Correction. <i>ACS Omega</i> , 2019, 4, 18392-18397.	1.6	27
32	New One-Dimensional Material Nb ₂ Se ₉ : Theoretical Prediction of Indirect to Direct Band Gap Transition due to Dimensional Reduction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800517.	1.2	20
33	Dynamical Casimir Effect for Gaussian Boson Sampling. <i>Scientific Reports</i> , 2018, 8, 3751.	1.6	11
34	Generalized concurrence in boson sampling. <i>Scientific Reports</i> , 2018, 8, 6101.	1.6	18
35	Quantum optical emulation of molecular vibronic spectroscopy using a trapped-ion device. <i>Chemical Science</i> , 2018, 9, 836-840.	3.7	42
36	Highly concentrated single-chain atomic crystal LiMo ₃ Se ₃ solution using ion-exchange chromatography. <i>Chemical Communications</i> , 2018, 54, 12503-12506.	2.2	14

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37	Approximating vibronic spectroscopy with imperfect quantum optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 245503.	0.6	32
38	Dynamic Covalent Hydrazone Supramolecular Polymers toward Multiresponsive Self-Assembled Nanowire System. <i>Macromolecules</i> , 2018, 51, 8278-8285.	2.2	13
39	Quantum Computing for Molecular Vibronic Spectra and Gaussian Boson Sampling. <i>Journal of Physics: Conference Series</i> , 2018, 1071, 012009.	0.3	2
40	Emulation of complex open quantum systems using superconducting qubits. <i>Quantum Information Processing</i> , 2017, 16, 1.	1.0	23
41	Vibronic Boson Sampling: Generalized Gaussian Boson Sampling for Molecular Vibronic Spectra at Finite Temperature. <i>Scientific Reports</i> , 2017, 7, 7462.	1.6	48
42	Quantum Emulation of Molecular Force Fields: A Blueprint for a Superconducting Architecture. <i>Physical Review Applied</i> , 2017, 8, .	1.5	6
43	Cumulant expansion for fast estimate of non-Condon effects in vibronic transition profiles. <i>Scientific Reports</i> , 2017, 7, 17561.	1.6	3
44	Proposal for Microwave Boson Sampling. <i>Physical Review Letters</i> , 2016, 117, 140505.	2.9	40
45	Fast Delocalization Leads To Robust Long-Range Excitonic Transfer in a Large Quantum Chlorosome Model. <i>Nano Letters</i> , 2015, 15, 1722-1729.	4.5	29
46	Boson sampling for molecular vibronic spectra. <i>Nature Photonics</i> , 2015, 9, 615-620.	15.6	230
47	Linear-algebraic bath transformation for simulating complex open quantum systems. <i>New Journal of Physics</i> , 2014, 16, 123008.	1.2	16
48	A stochastic reorganizational bath model for electronic energy transfer. <i>Journal of Chemical Physics</i> , 2014, 140, 244103.	1.2	4
49	Theoretical characterization of excitation energy transfer in chlorosome light-harvesting antennae from green sulfur bacteria. <i>Photosynthesis Research</i> , 2014, 120, 273-289.	1.6	41
50	Atomistic Study of Energy Funneling in the Light-Harvesting Complex of Green Sulfur Bacteria. <i>Journal of the American Chemical Society</i> , 2014, 136, 2048-2057.	6.6	78
51	Chromatic acclimation and population dynamics of green sulfur bacteria grown with spectrally tailored light. <i>Scientific Reports</i> , 2014, 4, 5057.	1.6	15
52	Temperature and Carbon Assimilation Regulate the Chlorosome Biogenesis in Green Sulfur Bacteria. <i>Biophysical Journal</i> , 2013, 105, 1346-1356.	0.2	14
53	Application of time-independent cumulant expansion to calculation of Franck-Condon profiles for large molecular systems. <i>Faraday Discussions</i> , 2011, 150, 363.	1.6	20
54	Franck-Condon profiles in photodetachment-photoelectron spectra of and based on vibrational configuration interaction wavefunctions. <i>Molecular Physics</i> , 2010, 108, 409-423.	0.8	11

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55	An Atomic-Orbital-Based Lagrangian Approach for Calculating Geometric Gradients of Linear Response Properties. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1028-1047.	2.3	28