Arindam Chakraborty

List of Publications by Year
in descending order

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23	592	687363 13	642732 23
papers	citations	h-index	g-index

24	24	24	688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Excited States in Quantum Dots. ACS in Focus, 2022, , .	0.6	0
2	Evidence of Skewness and Sub-Gaussian Character in Temperature-Dependent Distributions of One Million Electronic Excitation Energies in PbS Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 986-992.	4.6	3
3	Compact Real-Space Representation of Excited States Using Frequency-Dependent Explicitly Correlated Electronâ€“Hole Interaction Kernel. Journal of Chemical Theory and Computation, 2020, 16, 5762-5770.	5.3	1
4	Decoupling and Coupling of the Hostâ€“Dopant Interaction by Manipulating Dopant Movement in Core/Shell Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 5992-5999.	4.6	18
5	Linked-Cluster Formulation of Electronâ€“Hole Interaction Kernel in Real-Space Representation without Using Unoccupied States. Journal of Chemical Theory and Computation, 2018, 14, 3656-3666.	5.3	2
6	Development of effective stochastic potential method using random matrix theory for efficient conformational sampling of semiconductor nanoparticles at non-zero temperatures. Journal of Chemical Physics, 2018, 149, 014103.	3.0	7
7	Investigation of Many-Body Correlation in Biexcitonic Systems Using Electronâ€“Hole Multicomponent Coupled-Cluster Theory. Journal of Physical Chemistry C, 2017, 121, 1291-1298.	3.1	10
8	Shape Matters: Effect of 1D, 2D, and 3D Isovolumetric Quantum Confinement in Semiconductor Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 24999-25009.	3.1	21
9	Construction of explicitly correlated geminal-projected particle-hole creation operators for many-electron systems using the diagrammatic factorization approach. Physical Review A, 2016, 94, .	2.5	4
10	Development of the Multicomponent Coupled-Cluster Theory for Investigation of Multiexcitonic Interactions. Journal of Chemical Theory and Computation, 2016, 12, 188-200.	5.3	27
11	Effect of Heterojunction on Exciton Binding Energy and Electronâ€“Hole Recombination Probability in CdSe/ZnS Quantum Dots. Journal of Chemical Theory and Computation, 2015, 11, 462-471.	5.3	13
12	Infinite-order diagrammatic summation approach to the explicitly correlated congruent transformed Hamiltonian. Physical Review A, 2014, 89, .	2.5	5
13	Optical Signature of Formation of Protein Corona in the Firefly Luciferase-CdSe Quantum Dot Complex. Journal of Chemical Theory and Computation, 2014, 10, 5224-5228.	5.3	16
14	Effect of Dot Size on Exciton Binding Energy and Electronâ€“Hole Recombination Probability in CdSe Quantum Dots. Journal of Chemical Theory and Computation, 2013, 9, 4351-4359.	5.3	78
15	Development of polaron-transformed explicitly correlated full configuration interaction method for investigation of quantum-confined Stark effect in GaAs quantum dots. Journal of Chemical Physics, 2013, 138, 054114.	3.0	8
16	Variational solution of the congruently transformed Hamiltonian for many-electron systems using a full-configuration-interaction calculation. Physical Review A, 2012, 86, .	2.5	9
17	Calculation of electron-hole recombination probability using explicitly correlated Hartree-Fock method. Journal of Chemical Physics, 2012, 136, 124105.	3.0	26
18	Investigation of electronâ€“hole correlation using explicitly correlated configuration interaction method. Chemical Physics Letters, 2012, 535, 182-186.	2.6	19

#	Article	IF	Citations
19	Properties of the exact universal functional in multicomponent density functional theory. Journal of Chemical Physics, 2009, 131, 124115.	3.0	45
20	Inclusion of explicit electron-proton correlation in the nuclear-electronic orbital approach using Gaussian-type geminal functions. Journal of Chemical Physics, 2008, 129, 014101.	3.0	69
21	Density matrix formulation of the nuclear-electronic orbital approach with explicit electron-proton correlation. Journal of Chemical Physics, 2008, 129, 204101.	3.0	26
22	Development of Electron-Proton Density Functionals for Multicomponent Density Functional Theory. Physical Review Letters, 2008, 101, 153001.	7.8	90
23	Explicit Dynamical Electronâ^'Proton Correlation in the Nuclearâ^'Electronic Orbital Framework. Journal of Physical Chemistry A, 2006, 110, 9983-9987.	2.5	92