Debasis

List of Publications by Year
in descending order

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15 papers	220 citations	1040056 9 h-index	996975 15 g-index
15 all docs	15 docs citations	15 times ranked	73 citing authors

#	Article	IF	Citations
1	Conical intersections and diabatic potential energy surfaces for the three lowest electronic singlet states of ${m H}_3^+$H3+. Journal of Chemical Physics, 2014, 141, 204306.	3.0	47
2	Ab initio calculations on the excited states of Na3 cluster to explore beyond Born-Oppenheimer theories: Adiabatic to diabatic potential energy surfaces and nuclear dynamics. Journal of Chemical Physics, 2011, 135, 034107.	3.0	36
3	Rennerâ€"Teller intersections along the collinear axes of polyatomic molecules: H2CN as a case study. Journal of Chemical Physics, 2010, 133, 084107.	3.0	28
4	Jahnâ€"Teller Intersections Induced by Introduction of Bending in Linear Polyatomics: Study with HCNH, a Selected Molecular System. Journal of Physical Chemistry A, 2012, 116, 1774-1785.	2.5	15
5	The adiabaticâ€toâ€diabatic transformation angle and the berry phase for coupled jahnâ€"teller/rennerâ€"teller systems: The F + H₂ as a case study. International Journal of Quantum Chemistry, 2012, 112, 2561-2570.	2.0	15
6	Conical intersections in 22Eâ€² states of Na3 cluster. Chemical Physics Letters, 2011, 508, 300-305.	2.6	14
7	Beyond Bornâ€"Oppenheimer constructed diabatic potential energy surfaces for F + H2 reaction. Journal of Chemical Physics, 2020, 153, 174301.	3.0	14
8	Jahnâ€"Teller intersections involving excited states of the F+H2 system: Identification and influence on the reaction system. Chemical Physics, 2013, 412, 51-57.	1.9	11
9	Derivation of diabatic potentials for F+H2 employing non-adiabatic coupling terms. Chemical Physics Letters, 2011, 517, 92-97.	2.6	10
10	Study of Nonadiabatic Effects in Low-Lying Electronic States of HCNH with Implication in Its Dissociation to HCN and HNC. Journal of Physical Chemistry A, 2013, 117, 8680-8690.	2.5	9
11	Topological study of the H₃⁺⁺molecular system: H₃⁺⁺as a cornerstone for building molecules during the Big Bang. Molecular Physics, 2018, 116, 2435-2448.	1.7	8
12	The adiabaticâ€toâ€diabatic transformation angle and topological phases for strongly interacting states: Solution with four states. International Journal of Quantum Chemistry, 2012, 112, 2767-2774.	2.0	5
13	Study of nonâ€adiabatic interactions among lowâ€lying electronic states of HeH 2 + with its implication in its dissociation into various species. International Journal of Quantum Chemistry, 2021, 121, e26552.	2.0	5
14	Topological effects in low-lying electronic states of linear N₂H₂⁺ and HBNH⁺ associated with onset of bending. Molecular Physics, 2018, 116, 2642-2651.	1.7	2
15	On the aspect of plane of appearance of Jahnâ€Teller and Rennerâ€Teller intersections in tetraâ€atomic systemâ€"A case study with HCNO +. International Journal of Quantum Chemistry, 2020, 120, e26195.	2.0	1