

Debasis Sengupta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10996557/publications.pdf>

Version: 2024-02-01

28
papers

908
citations

586496

16
h-index

591227

27
g-index

28
all docs

28
docs citations

28
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab initio Based Structure Property Relationship for Prediction of Ignition Delay of Hypergolic Ionic Liquids. Propellants, Explosives, Pyrotechnics, 2015, 40, 759-764.	1.0	14
2	Molecular Orbital Based Design Guideline for Hypergolic Ionic Liquids. Propellants, Explosives, Pyrotechnics, 2015, 40, 144-149.	1.0	15
3	High-Temperature Oxidation of SiC-Based Composite: Rate Constant Calculation from ReaxFF MD Simulations, Part II. Journal of Physical Chemistry C, 2013, 117, 5014-5027.	1.5	26
4	Oxidation of Silicon Carbide by O_2 and H_2O : A ReaxFF Reactive Molecular Dynamics Study, Part I. Journal of Physical Chemistry C, 2012, 116, 16111-16121.	1.5	177
5	Combined ab initio quantum chemistry and computational fluid dynamics calculations for prediction of gallium nitride growth. Journal of Crystal Growth, 2005, 279, 369-382.	0.7	74
6	A new approach to performing equilibrium surface reaction calculations and its application to predicting growth of gallium nitride. Journal of Crystal Growth, 2004, 261, 165-174.	0.7	5
7	Does the Ring Compound $[(CH_3)_2GaNH_2]_3$ Form During MOVPE of Gallium Nitride? Investigations via Density Functional and Reaction Rate Theories.. ChemInform, 2003, 34, no.	0.1	0
8	Does the Ring Compound $[(CH_3)_2GaNH_2]_3$ Form during MOVPE of Gallium Nitride? Investigations via Density Functional and Reaction Rate Theories. Journal of Physical Chemistry B, 2003, 107, 291-297.	1.2	51
9	Unimolecular decomposition of the isomers of $[HNO_2]^+$ and $[HNO_2]^{\ddagger}$ systems: a DFT study. Chemical Physics, 1999, 248, 147-159.	0.9	10
10	Rearrangement and Fragmentation Processes on the Potential Energy Surfaces of the $(CH_nS)^+(n=1-4)$ Systems. Journal of Physical Chemistry A, 1999, 103, 772-778.	1.1	18
11	Theoretical analysis of reactions related to the HNO_2 energy surface: $OH + NO$ and $H + NO_2$. Chemical Physics, 1998, 230, 1-11.	0.9	35
12	Theoretical Study of the $H_2 + NO$ and Related Reactions of $[H_2NO]$ Isomers. Journal of Physical Chemistry A, 1998, 102, 3175-3183.	1.1	57
13	Mechanism of $NH_2 + CO_2$ formation in $OH + HNCO$ reaction: Rate constant evaluation via ab initio calculations and statistical theory. Journal of Chemical Physics, 1997, 106, 9703-9707.	1.2	15
14	Regioselectivity of Oxetane Formation in the Photocycloaddition of Lowest $3(n, \pi^*)$ State of Carbonyl Compounds: An Interpretation Using Local Softness. Journal of Organic Chemistry, 1997, 62, 6404-6406.	1.7	37
15	Ab initio calculations and quantum statistical analysis of the $SiH_3 + NO$ reaction. Chemical Physics Letters, 1997, 265, 35-40.	1.2	5
16	Reaction of Isocyanic Acid and Hydrogen Atom ($H + HNCO$): Theoretical Characterization. The Journal of Physical Chemistry, 1996, 100, 1615-1621.	2.9	42
17	Kinetic Analyses Combining Quantum Chemical and Quantum Statistical Methods: Some Case Studies. The Journal of Physical Chemistry, 1996, 100, 10956-10966.	2.9	19
18	Another Look at the Decomposition of Methyl Azide and Methanimine: How Is HCN Formed?. The Journal of Physical Chemistry, 1996, 100, 6499-6503.	2.9	62

#	ARTICLE	IF	CITATIONS
19	Kinetic Study in a Microwave-Induced Plasma Afterglow of the Cu(2S) Atom Reaction with CH ₃ Cl in the Temperature Range 389~853 K. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8302-8307.	2.9	2
20	Ab initio calculation and kinetic analysis of the reaction of silylene with ethylene (SiH ₂ + C ₂ H ₄). <i>Molecular Physics</i> , 1996, 89, 1567-1576.	0.8	23
21	A theoretical study of the reaction of SiH ₂ with C ₂ H ₂ and C ₂ D ₂ . <i>Chemical Physics Letters</i> , 1995, 240, 513-520.	1.2	29
22	Can silacetylene be observed? A theoretical treatment of the tunneling effect. <i>Chemical Physics Letters</i> , 1995, 244, 83-88.	1.2	39
23	Further studies on Norrish type II reactions including a reaction in the first excited singlet state and cyclization of 1:4 biradicals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 86, 161-170.	2.0	6
24	Theoretical Study of the Thermal Decomposition of Acetic Acid: Decarboxylation Versus Dehydration. <i>The Journal of Physical Chemistry</i> , 1995, 99, 11883-11888.	2.9	93
25	Role of the HNO ₃ ~NOH Isomerization in reactions (i) NH(3~) + O(3P) and (ii) N(4S) + OH(2~): Ab initio calculations and quantum statistical Rice~Ramsperger~Kassel analysis of the potential energy surfaces. <i>Journal of Chemical Physics</i> , 1994, 101, 3906-3915.	1.2	22
26	Role of tunneling of hydrogen in photoenolization of a ketone. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 1317-1328.	1.0	9
27	Studies on the Norrish type II reactions of aliphatic ~-diketones and the accompanying cyclization and disproportionation of 1:4 biradicals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1993, 75, 151-162.	2.0	9
28	Role of barriers to conformational changes in ketones undergoing the Norrish type II process. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1991, 60, 149-159.	2.0	14