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Published Items in Each Year

Citations in Each Year

Results found: 38
Sum of the Times Cited: 865
Sum of Times Cited without self-citations: 791
Citing Articles: 550
Average Citations per Item: 22.76
h-index: 12

1. Title: Network of coupled promoting motions in enzyme catalysis
   Author(s): Agarwal PK; Billeter SR; Rajagopalan PTR; et al.
   Source: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 99 Issue: 5 Pages: 2794-2799 DOI: 10.1073/pnas.052005999 Published: MAR 5 2002
   Average Citations per Year: 22.00

2. Title: Hydride transfer in liver alcohol dehydrogenase: Quantum dynamics, kinetic isotope effects, and role of enzyme motion
   Author(s): Billeter SR; Webb SP; Agarwal PK; et al.
   Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 123 Issue: 45 Pages: 11262-11272 DOI: 10.1021/ja011384b Published: NOV 14 2001
   Average Citations per Year: 10.45

3. Title: Nuclear quantum effects and enzyme dynamics in dihydrofolate reductase catalysis
   Author(s): Agarwal PK; Billeter SR; Hammes-Schiffer S
   Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 106 Issue: 12 Pages: 3283-3293 DOI: 10.1021/jp020190v Published: MAR 28 2002
   Average Citations per Year: 9.70

4. Title: Computational studies of the mechanism for proton and hydride transfer in liver alcohol dehydrogenase
   Author(s): Agarwal PK; Webb SP; Hammes-Schiffer S
   Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 122 Issue: 19 Pages: 4803-4812 DOI: 10.1021/ja0104456w Published: MAY 17 2000
   Average Citations per Year: 6.75
5. Title: Hybrid approach for including electronic and nuclear quantum effects in molecular dynamics simulations of hydrogen transfer reactions in enzymes
   Author(s): Billeter SR; Webb SP; Iordanov T; et al.
   Source: JOURNAL OF CHEMICAL PHYSICS Volume: 114 Issue: 15 Pages: 6925-6936 DOI: 10.1063/1.1356441 Published: APR 15 2001
   Total: 865 Average: 72.08

6. Title: Role of protein dynamics in reaction rate enhancement by enzymes
   Author(s): Agarwal PK
   Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 127 Issue: 43 Pages: 15248-15256 DOI: 10.1021/ja055251s Published: NOV 2 2005
   Total: 61 Average: 8.71

7. Title: Effect of mutation on enzyme motion in dihydrofolate reductase
   Author(s): Watney JB; Agarwal PK; Hammes-Schiffer S
   Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 125 Issue: 13 Pages: 3745-3750 DOI: 10.1021/ja028487u Published: APR 2 2003
   Total: 59 Average: 6.56

8. Title: Combining electronic structure methods with the calculation of hydrogen vibrational wavefunctions: Application to hydride transfer in liver alcohol dehydrogenase
   Author(s): Webb SP; Agarwal PK; Hammes-Schiffer S
   Source: JOURNAL OF PHYSICAL CHEMISTRY B Volume: 104 Issue: 37 Pages: 8884-8894 DOI: 10.1021/jp001635n Published: SEP 21 2000
   Total: 38 Average: 3.17

9. Title: Protein dynamics and enzymatic catalysis: Investigating the peptidyl-prolyl cis-trans isomerization activity of cyclophilin A
   Author(s): Agarwal PK, Geist A; Gorin A
   Source: BIOCHEMISTRY Volume: 43 Issue: 33 Pages: 10605-10618 DOI: 10.1021/bi0495228 Published: AUG 24 2004
   Total: 30 Average: 3.75

10. Title: Enzymes: An integrated view of structure, dynamics and function
    Author(s): Agarwal PK
    Source: MICROBIAL CELL FACTORIES Volume: 5 Article Number: 2 DOI: 10.1186/1475-2859-5-2 Published: JAN 12 2006
    Total: 28 Average: 4.67

Results: 38

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12. Title: Using FPGA devices to accelerate biomolecular simulations
   Author(s): Alam Sadaf R.; Agarwal Pratul K.; Smith Melissa C.; et al.
   Source: COMPUTER  Volume: 40  Issue: 3  Pages: 66-+  DOI: 10.1109/MC.2007.108  Published: MAR 2007
   Citations per Year: 83 83 60 0 0 865 72.08

13. Title: Biomolecular simulations on petascale: promises and challenges
   Author(s): Agarwal Pratul K.; Alam Sadaf R.
   Editor(s): Tang WM
   Citations per Year: 4 0 0 0 5 0.83

14. Title: Computational Identification of Slow Conformational Fluctuations in Proteins
   Author(s): Ramanathan Arvind; Agarwal Pratul K.
   Source: JOURNAL OF PHYSICAL CHEMISTRY B  Volume: 113  Issue: 52  Pages: 16669-16680  DOI: 10.1021/jp9077213  Published: DEC 31 2009
   Citations per Year: 0 0 4 0 5 1.67

15. Title: Construction of a Multi RE module: Exploitation of mechanochemistry of restriction endonucleases
   Author(s): Agarwal PK; Bhattacharya SK
   Citations per Year: 1 0 0 0 4 0.31

16. Title: Experimental Evaluation of Molecular Dynamics Simulations on Multi-core Systems
   Author(s): Alam Sadaf R.; Agarwal Pratul K.; Hampton Scott S.; et al.
   Editor(s): Sadayappan P; Parashar M; Badrinath R; et al.
   Sponsor(s): IEEE Comp Soc; ACM SIGARCH; Infosys; DELL; NetApp; Intel; HP; IBM; Yahoo; Cray & Mellanox
   Citations per Year: 0 2 0 1 0 3 0.75
17. Title: Performance characteristics of biomolecular simulations on high-end systems with multi-core processors
   Author(s): Alam Sadaf R.; Agarwal Pratul K.; Vetter Jeffrey S.
   Conference: 6th IEEE International Workshop on High Performance Computational Biology
   Location: Long Beach, CA Date: MAR 26, 2007
   Sponsor(s): IEEE
   Source: PARALLEL COMPUTING Volume: 34 Issue: 11 Pages: 640-651 DOI: 10.1016/j.parco.2008.05.003 Published: NOV 2008

18. Title: Discovering Conformational Sub-States Relevant to Protein Function
   Author(s): Ramanathan Arvind; Savol Andrej J.; Langmead Christopher J.; et al.
   Source: PLOS ONE Volume: 6 Issue: 1 Article Number: e15827 DOI: 10.1371/journal.pone.0015827 Published: JAN 28 2011

19. Title: An Online Approach for Mining Collective Behaviors from Molecular Dynamics Simulations
   Author(s): Ramanathan Arvind; Agarwal Pratul K.; Kumikova Maria; et al.
   Source: JOURNAL OF COMPUTATIONAL BIOLOGY Volume: 17 Issue: 3 Pages: 309-324 DOI: 10.1089/cmb.2009.0167 Published: MAR 2010

20. Title: Computational studies of the mechanism for proton and hydride transfer in liver alcohol dehydrogenase.
   Author(s): Agarwal PK; Webb SP; Hammes-Schiffer S