

Hiroko Satoh

List of Publications by Year in descending order

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42
papers

964
citations

471509

17
h-index

454955

30
g-index

53
all docs

53
docs citations

53
times ranked

1063
citing authors

#	ARTICLE	IF	CITATIONS
1	High performance global exploration of isomers and isomerization channels on quantum chemical potential energy surface of $\langle \text{H}_{5}\text{C}_{2}\text{NO}_{2} \rangle$. Journal of Computational Chemistry, 2021, 42, 192-204.	3.3	5
2	G-RMSD: Root Mean Square Deviation Based Method for Three-Dimensional Molecular Similarity Determination. Bulletin of the Chemical Society of Japan, 2021, 94, 655-665.	3.2	13
3	Quantum chemical exploration of polymerized forms of polycyclic aromatic hydrocarbons: D _{6h} tetramer and polymer of coronene. Chemical Physics Letters, 2020, 747, 137366.	2.6	3
4	Quantum chemical exploration of new π -electron systems: Capsule-formed dimers of polycyclic aromatic hydrocarbons. Chemical Physics Letters, 2019, 725, 59-65.	2.6	5
5	The Rise of Catalyst Informatics: Towards Catalyst Genomics. ChemCatChem, 2019, 11, 1146-1152.	3.7	72
6	Quantum chemical exploration of dimeric forms of polycyclic aromatic hydrocarbons, naphthalene, perylene, and coronene. Chemical Physics Letters, 2019, 716, 147-154.	2.6	6
7	Exploration of Carbon Allotropes with Four-membered Ring Structures on Quantum Chemical Potential Energy Surfaces. Journal of Computational Chemistry, 2019, 40, 14-28.	3.3	8
8	Global exploration of isomers and isomerization channels on the quantum chemical potential energy surface of $\text{H}_{3}\text{CNO}_{3}$. Journal of Computational Chemistry, 2017, 38, 669-687.	3.3	15
9	Potential Energy Surface-Based Automatic Deduction of Conformational Transition Networks and Its Application on Quantum Mechanical Landscapes of d -Glucose Conformers. Journal of Chemical Theory and Computation, 2016, 12, 5293-5308.	5.3	20
10	Handling of Highly Symmetric Molecules for Chemical Structure Elucidation in a CAST/CNMR System. Journal of Computer Chemistry Japan, 2016, 14, 193-195.	0.1	2
11	A Prism Carbon Molecule C ₂₀ . Chemistry Letters, 2015, 44, 712-714.	1.3	12
12	"Maizo"-chemistry Project: toward Molecular- and Reaction Discovery from Quantum Mechanical Global Reaction Route Mappings. Journal of Computer Chemistry Japan, 2015, 14, 77-79.	0.1	6
13	Prism-C _{2n} carbon dimer, trimer, and nano-sheets: A quantum chemical study. Chemical Physics Letters, 2015, 633, 120-125.	2.6	14
14	Wavy carbon: A new series of carbon structures explored by quantum chemical calculations. Chemical Physics Letters, 2015, 639, 178-182.	2.6	12
15	Computational Chemistry on Chemical Glycosylations. Trends in Glycoscience and Glycotechnology, 2014, 26, 11-27.	0.1	18
16	Significant Substituent Effect on the Anomerization of Pyranosides: Mechanism of Anomerization and Synthesis of a 1,2- <i>cis</i> Glucosamine Oligomer from the 1,2- <i>trans</i> Anomer. Chemistry - A European Journal, 2014, 20, 124-132.	3.3	21
17	Chemical Structure Elucidation from ¹³ C NMR Chemical Shifts: Efficient Data Processing Using Bipartite Matching and Maximal Clique Algorithms. Journal of Chemical Information and Modeling, 2014, 54, 1027-1035.	5.4	28
18	An Efficient Algorithm for Enumerating Chordless Cycles and Chordless Paths. Lecture Notes in Computer Science, 2014, , 313-324.	1.3	13

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19	Design of chemical glycosyl donors: does changing ring conformation influence selectivity/reactivity?. <i>Chemical Society Reviews</i> , 2013, 42, 4297.	38.1	71
20	Unique Reactivity of Pyranosides with 2,3- <i>trans</i> Carbamate Group; Renaissance of Endocyclic Cleavage Reaction. <i>Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry</i> , 2013, 71, 616-624.	0.1	2
21	Endocyclic Cleavage in Glycosides with 2,3- <i>trans</i> Cyclic Protecting Groups. <i>Journal of the American Chemical Society</i> , 2011, 133, 5610-5619.	13.7	62
22	Substituent effects in endocyclic cleavage-recyclization anomerization reaction of pyranosides. <i>Tetrahedron</i> , 2011, 67, 9966-9974.	1.9	18
23	Theoretical Investigation of Solvent Effects on Glycosylation Reactions: Stereoselectivity Controlled by Preferential Conformations of the Intermediate Oxacarbenium-Counterion Complex. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1783-1797.	5.3	137
24	Low-Barrier Pathway for <i>endo</i> -Cleavage Induced Anomerization of Pyranosides with <i>N</i> -Benzyl-2,3- <i>trans</i> -oxazolidinone Groups. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 1127-1131.	2.4	23
25	Structural Revision of Terpenoids with a (3 <i>Z</i>)-2-Methyl-3-penten-2-ol Moiety by the Synthesis of (23 <i>E</i>)- and (23 <i>Z</i>)-Cycloart-23-ene-3,25-diols. <i>Journal of Organic Chemistry</i> , 2007, 72, 4578-4581.	3.2	31
26	An Educational Environment for Chemical Contents with Haptic Interaction. , 2007, , .		4
27	Algorithm for Advanced Canonical Coding of Planar Chemical Structures That Considers Stereochemical and Symmetric Information. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 1734-1746.	5.4	17
28	Structural revision of peribysins C and D. <i>Tetrahedron Letters</i> , 2006, 47, 4623-4626.	1.4	26
29	Construction of Basic Haptic Systems for Feeling the Intermolecular Force in Molecular Models. <i>Journal of Computer Aided Chemistry</i> , 2006, 7, 38-47.	0.3	8
30	[Special Issue: Fact Databases and Freewares] ChemoJun: Open Source Chemical Graphics Library. <i>Journal of Computer Aided Chemistry</i> , 2006, 7, 141-149.	0.3	1
31	Effective consideration of ring structures in CAST/CNMR for highly accurate ¹³ C NMR chemical shift prediction. <i>Tetrahedron</i> , 2005, 61, 7431-7437.	1.9	16
32	CAST/CNMR: highly accurate ¹³ C NMR chemical shift prediction system considering stereochemistry. <i>Tetrahedron</i> , 2003, 59, 4539-4547.	1.9	27
33	Knowledge Discovery on Chemical Reactivity from Experimental Reaction Information. <i>Lecture Notes in Computer Science</i> , 2003, , 470-477.	1.3	1
34	Extended CAST Coding Method for Exact Search of Stereochemical Structures. <i>Journal of Computer Aided Chemistry</i> , 2002, 3, 48-55.	0.3	11
35	Representation of Molecular Configurations by CAST Coding Method. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 1106-1112.	2.8	20
36	Classification and Prediction of Reagents' Roles by FRAU System with Self-Organizing Neural Network Model. <i>Bulletin of the Chemical Society of Japan</i> , 2000, 73, 1955-1965.	3.2	5

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37	Novel Canonical Coding Method for Representation of Three-Dimensional Structures. Journal of Chemical Information and Computer Sciences, 2000, 40, 622-630.	2.8	26
38	A Novel Method for Characterization of Three-Dimensional Reaction Fields Based on Electrostatic and Steric Interactions toward the Goal of Quantitative Analysis and Understanding of Organic Reactions. Journal of Chemical Information and Computer Sciences, 1999, 39, 671-678.	2.8	15
39	Classification of Organic Reactions: Similarity of Reactions Based on Changes in the Electronic Features of Oxygen Atoms at the Reaction Sites ¹ . Journal of Chemical Information and Computer Sciences, 1998, 38, 210-219.	2.8	52
40	Development of a Program for Construction of a Starting Material Library for ALPHOS.. Journal of Chemical Software, 1998, 4, 101-111.	0.2	5
41	Further Development of a Reaction Generator in the SOPHIA System for Organic Reaction Prediction. Knowledge-Guided Addition of Suitable Atoms and/or Atomic Groups to Product Skeleton. Journal of Chemical Information and Computer Sciences, 1996, 36, 173-184.	2.8	32
42	SOPHIA, a Knowledge Base-Guided Reaction Prediction System - Utilization of a Knowledge Base Derived from a Reaction Database. Journal of Chemical Information and Computer Sciences, 1995, 35, 34-44.	2.8	81