

Yusuke Kanematsu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

299
citations

933447

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h-index

888059

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23
all docs

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docs citations

23
times ranked

404
citing authors

#	ARTICLE	IF	CITATIONS
1	Capturing an initial intermediate during the P450 _{nor} enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. <i>Nature Communications</i> , 2017, 8, 1585.	12.8	74
2	Theoretical study of the H/D isotope effect on phase transition of hydrogen-bonded organic conductor $\text{I}^{\text{e}}\text{-H}^3$ (Cat-EDT-TTF) ₂ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29673-29680.	2.8	26
3	Theoretical analysis of geometry and NMR isotope shift in hydrogen-bonding center of photoactive yellow protein by combination of multicomponent quantum mechanics and ONIOM scheme. <i>Journal of Chemical Physics</i> , 2014, 141, 185101.	3.0	22
4	Short-lived intermediate in N ₂ O generation by P450 NO reductase captured by time-resolved IR spectroscopy and XFEL crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
5	Development of multicomponent hybrid density functional theory with polarizable continuum model for the analysis of nuclear quantum effect and solvent effect on NMR chemical shift. <i>Journal of Chemical Physics</i> , 2014, 140, 164111.	3.0	16
6	Strong Hydrogen Bonds at the Interface between Proton-Donating and -Accepting Self-Assembled Monolayers on Au(111). <i>Langmuir</i> , 2018, 34, 2189-2197.	3.5	16
7	Computational study of distortion effect of Fe-porphyrin found as a biological active site. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 010502.	1.5	14
8	Statistical and quantum-chemical analysis of the effect of heme porphyrin distortion in heme proteins: Differences between oxidoreductases and oxygen carrier proteins. <i>Chemical Physics Letters</i> , 2018, 710, 108-112.	2.6	13
9	Multicomponent DFT study of geometrical H/D isotope effect on hydrogen-bonded organic conductor, $\text{I}^{\text{e}}\text{-H}^3$ (Cat EDT-ST) ₂ . <i>Chemical Physics Letters</i> , 2017, 674, 168-172.	2.6	12
10	PyDISH: database and analysis tools for heme porphyrin distortion in heme proteins. <i>Database: the Journal of Biological Databases and Curation</i> , 2023, 2023, .	3.0	12
11	Performance Test of Multicomponent Quantum Mechanical Calculation with Polarizable Continuum Model for Proton Chemical Shift. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4933-4938.	2.5	11
12	Global Analysis of Heme Proteins Elucidates the Correlation between Heme Distortion and the Heme-Binding Pocket. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 775-784.	5.4	10
13	Isotope effect on the circular dichroism spectrum of methyl $\text{I}^{\pm}\text{-D}$ -glucopyranoside in aqueous solution. <i>Scientific Reports</i> , 2016, 5, 17900.	3.3	9
14	Applicability of Density Functional Tight Binding Method with Dispersion Correction to Investigate the Adsorption of Porphyrin/Porphycene Metal Complexes on Graphene. <i>Chemistry Letters</i> , 2017, 46, 51-52.	1.3	8
15	Structure of Heme-binding Pocket in Heme Protein is Generally Rigid and can be Predicted by AlphaFold2. <i>Chemistry Letters</i> , 2022, 51, 704-708.	1.3	8
16	Inverse Ubbelohde effect in the short hydrogen bond of photosystem II: Relation between H/D isotope effect and symmetry in potential energy profile. <i>Journal of Computational Chemistry</i> , 2016, 37, 2140-2145.	3.3	6
17	Vibrational analysis on the revised potential energy curve of the low-barrier hydrogen bond in photoactive yellow protein. <i>Computational and Structural Biotechnology Journal</i> , 2016, 14, 16-19.	4.1	6
18	A computational examination of the electric-field-induced proton transfer along the interface hydrogen bond between proton donating and accepting self-assembled monolayers. <i>Chemical Physics Letters</i> , 2020, 741, 137091.	2.6	5

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19	Quantum Mechanics/Molecular Mechanics Study of the Sialyltransferase Reaction Mechanism. <i>Biochemistry</i> , 2016, 55, 5764-5771.	2.5	4
20	Hydrogen/Deuterium Transfer from Anisole to Methoxy Radicals: A Theoretical Study of a Deuterium-Labeled Drug Model. <i>Journal of Physical Chemistry A</i> , 2022, 126, 155-163.	2.5	3
21	Substrate shielding and hydrolytic reaction in hydrolases. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 926-932.	2.6	1
22	H/D isotope effect between adsorbed water (H ₂ O, D ₂ O, and HDO) and H ₂ O- and D ₂ O-ice Ih(0001) basal surfaces based on the combined plane wave and localized basis set method. <i>Applied Surface Science</i> , 2021, 561, 150100.	6.1	1
23	Nuclear quantum effect and H/D isotope effect in excited state intramolecular proton transfer and electron-induced intramolecular proton transfer reactions in 8-hydroxyquinoline. <i>International Journal of Quantum Chemistry</i> , 0, , .	2.0	1