

Hirotsugu Hiramatsu

List of Publications by Year in descending order

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51
papers

780
citations

566801

15
h-index

525886

27
g-index

53
all docs

53
docs citations

53
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	FT-IR approaches on amyloid fibril structure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1753, 100-107.	1.1	118
2	Evidence for the Cation- π Interaction between Cu ²⁺ and Tryptophan. <i>Journal of the American Chemical Society</i> , 2008, 130, 15266-15267.	6.6	111
3	Core Structure of Amyloid Fibril Proposed from IR-Microscope Linear Dichroism. <i>Journal of the American Chemical Society</i> , 2004, 126, 3008-3009.	6.6	49
4	Structural Model of the Amyloid Fibril Formed by β 2-Microglobulin #21-31 Fragment Based on Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 7988-7989.	6.6	37
5	Development of Infrared Electroabsorption Spectroscopy and its Application to Molecular Structural Studies. <i>Applied Spectroscopy</i> , 2004, 58, 355-366.	1.2	28
6	Enhancement of Proton Transport in an Oriented Polypeptide Thin Film. <i>Langmuir</i> , 2013, 29, 6798-6804.	1.6	28
7	Magnetic and Infrared Properties of the Azide Complex of (2,7,12,17-Tetrapropylporphycenato)iron(III): A Novel Admixing Mechanism of the $S = 5/2$ and $S = 3/2$ States. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3188-3194.	1.0	27
8	Efficient protein incorporation and release by a jigsaw-shaped self-assembling peptide hydrogel for injured brain regeneration. <i>Nature Communications</i> , 2021, 12, 6623.	5.8	26
9	The 532-nm-excited hyper-Raman spectroscopy of globular protein and aromatic amino acids. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 274-278.	1.2	22
10	Structure and Dipole Moments of the Two Distinct Solvated Forms of p-Nitroaniline in Acetonitrile/CCl ₄ Studied by Infrared Electroabsorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3738-3743.	1.1	21
11	Differences in the Molecular Structure of β 2-Microglobulin between Two Morphologically Different Amyloid Fibrils. <i>Biochemistry</i> , 2010, 49, 742-751.	1.2	21
12	Characterization of Intermolecular Structure of β 2-Microglobulin Core Fragments in Amyloid Fibrils by Vacuum-Ultraviolet Circular Dichroism Spectroscopy and Circular Dichroism Theory. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2785-2795.	1.2	21
13	Association structures of N-methylacetamide in solution studied by infrared electroabsorption spectroscopy. <i>Chemical Physics Letters</i> , 2002, 361, 457-464.	1.2	20
14	Structural Instability and Cu-Dependent Pro-Oxidant Activity Acquired by the Apo Form of Mutant SOD1 Associated with Amyotrophic Lateral Sclerosis. <i>Biochemistry</i> , 2011, 50, 4242-4250.	1.2	20
15	Development of infrared electroabsorption spectroscopy for liquids. <i>Chemical Physics Letters</i> , 2001, 347, 403-409.	1.2	19
16	Citrullination and deamidation affect aggregation properties of amyloid β -proteins. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2016, 23, 234-241.	1.4	16
17	Significance of the Molecular Shape of Iron Corrophycene in a Protein Pocket. <i>Inorganic Chemistry</i> , 2006, 45, 4238-4242.	1.9	14
18	The β -Sheet Structure pH Dependence of the Core Fragments of β 2-Microglobulin Amyloid Fibrils. <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 495-504.	2.0	14

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19	Involvement of Histidine Residues in the pH-Dependent \hat{I}^2 -Galactoside Binding Activity of Human Galectin-1. <i>Biochemistry</i> , 2013, 52, 2371-2380.	1.2	14
20	Electronic Properties in a Five-Coordinate Azido Complex of Nonplanar Iron(III) Porphyrin: Revisiting to Quantum Mechanical Spin Admixing. <i>Bulletin of the Chemical Society of Japan</i> , 2008, 81, 136-141.	2.0	13
21	532-nm-excited hyper-Raman spectroscopy of amino acids. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 641-654.	1.2	13
22	Vertical flow apparatus for enhancement and efficient collection of Raman signal. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 208-210.	1.2	11
23	Structure of Interacting Segments in the Growing Amyloid Fibril of \hat{I}^2 -Microglobulin Probed with IR Spectroscopy. <i>Journal of Molecular Biology</i> , 2006, 362, 355-364.	2.0	9
24	Preparation and photo-induced activities of water-soluble amyloid \hat{I}^2 -C60 complexes. <i>RSC Advances</i> , 2018, 8, 17847-17853.	1.7	9
25	A Vertical Flow Method for Sensitive Raman Protein Measurement in Aqueous Solutions. <i>Analytical Chemistry</i> , 2019, 91, 9806-9812.	3.2	8
26	Effects of conformation and hydrogen bonding on the C \hat{I} - \hat{I}^2 and NCN stretching Raman bands of \hat{I}^2 -deuterated histidinium. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1708-1713.	1.2	7
27	Directly Probing Intermolecular Structural Change of a Core Fragment of \hat{I}^2 -Microglobulin Amyloid Fibrils with Low-Frequency Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 490-496.	1.2	7
28	Tautomer Structures in Ketose \hat{I} -Aldose Transformation of 1,3-Dihydroxyacetone Studied by Infrared Electroabsorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10663-10671.	1.2	7
29	Online Liquid Chromatography \hat{I} -Raman Spectroscopy Using the Vertical Flow Method. <i>Analytical Chemistry</i> , 2020, 92, 14601-14607.	3.2	7
30	Linear, mixed-valent homocatenated tri-tin complexes featuring Sn \hat{I} -Sn bonds. <i>Chemical Communications</i> , 2020, 56, 6786-6789.	2.2	7
31	Hydrogel \hat{I} -Stiffening and Non \hat{I} -Cell Adhesive Properties of Amphiphilic Peptides with Central Alkylene Chains. <i>Chemistry - A European Journal</i> , 2021, 27, 9295-9301.	1.7	7
32	Time-resolved FTIR study on the structural switching of human galectin-1 by light-induced disulfide bond formation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1137-1144.	1.3	6
33	Regulation of Cell Volume by Nanosecond Pulsed Electric Fields. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10692-10700.	1.2	6
34	Infrared Electroabsorption Spectroscopic Study of Association Structures of 5CB in the Solution, Isotropic Liquid and Nematic Liquid Crystal States. <i>Chemistry Letters</i> , 2002, 31, 68-69.	0.7	5
35	Resonance \hat{I} -hyper-Raman spectroscopy of deoxythymidine monophosphate. <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 60-65.	0.8	5
36	pH-controlled stacking direction of the \hat{I}^2 -strands in peptide fibrils. <i>Scientific Reports</i> , 2020, 10, 22199.	1.6	5

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37	Effects of N-Methylated Amyloid β ₃₀₋₄₀ Peptides on the Fibrillation of Amyloid β ₁₋₄₀ . <i>Chemical Biology and Drug Design</i> , 2016, 87, 425-433.	1.5	4
38	Generation of self-clusters of galectin-1 in the farnesyl-bound form. <i>Scientific Reports</i> , 2016, 6, 32999.	1.6	4
39	Change in the structure and function of lectin by photodissociation of NO. <i>Chemical Communications</i> , 2017, 53, 10014-10017.	2.2	3
40	β -Galactoside-binding activity of human galectin-1 at basic pH. <i>Chemical Physics</i> , 2013, 419, 113-117.	0.9	2
41	Unique non-resonance hyper-Raman bands of glucose in phosphate-buffered saline. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 1845-1847.	1.2	2
42	Role of His16 in the structural flexibility of the C-terminal region of human endothelin-1. <i>Journal of Molecular Structure</i> , 2010, 976, 328-332.	1.8	1
43	The Extinction Coefficient of N-Methylated β ₃₀₋₄₀ Depends on the Position of N-Methylation. <i>Chemistry Letters</i> , 2015, 44, 35-37.	0.7	1
44	Application of IR spectra of two successive isotope labeled residues to the evaluation of dihedral angles of polyproline II structure. <i>Chemical Physics Letters</i> , 2019, 718, 27-31.	1.2	1
45	Evaluation of Dihedral Angles of Peptides Using IR Bands of Two Successive Isotope Labeled Residues. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 80-86.	2.0	1
46	Electric field effects on 1-hydroxyacetone revealed by IR electroabsorption spectroscopy. <i>Chemical Physics Letters</i> , 2019, 714, 18-23.	1.2	1
47	Sampling unit for efficient signal detection and application to liquid chromatography-Raman spectroscopy. <i>New Journal of Chemistry</i> , 2021, 45, 4128-4134.	1.4	1
48	Hydrogel Stiffening and Non-Cell Adhesive Properties of Amphiphilic Peptides with Central Alkylene Chains. <i>Chemistry - A European Journal</i> , 2021, 27, 9197-9197.	1.7	0
49	Amyloid Fibril Structure Elucidated from IR Microscope. <i>Seibutsu Butsuri</i> , 2006, 46, 98-101.	0.0	0
50	The EMBO Workshop Transducing Glycan Information into Function: Lessons from and for Galectins. <i>Trends in Glycoscience and Glycotechnology</i> , 2017, 29, E47-E47.	0.0	0
51	Detailed Raman analysis of protein denaturation using vertical flow method and programmable pump. , 2022, , .		0