

Yusuke Morisawa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Solvent Effect on Assembling and Interactions in Solutions of Phenol: Infrared Spectroscopic and Density Functional Theory Study. <i>Applied Spectroscopy</i> , 2022, 76, 28-37.	2.2	7
2	Experimental verification of increased electronic excitation energy of water in hydrate-melt water by attenuated total reflection-far-ultraviolet spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 074705.	3.0	3
3	Attenuated Total Reflection Far-Ultraviolet (ATR-FLUV) Spectroscopy is a Sensitive Tool for Investigation of Protein Adsorption. <i>Applied Spectroscopy</i> , 2022, 76, 793-800.	2.2	1
4	A Study of C=O and HO and OH (Dimer, Trimer, and Oligomer) Hydrogen Bonding in a Poly(4-vinylphenol) 30%/Poly(methyl methacrylate) 70% Blend and its Thermal Behavior Using Near-Infrared Spectroscopy and Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2022, 76, 831-840.	2.2	2
5	Advances, challenges and perspectives of quantum chemical approaches in molecular spectroscopy of the condensed phase. <i>Chemical Society Reviews</i> , 2021, 50, 10917-10954.	38.1	34
6	Solvent effect on the competition between weak and strong interactions in phenol solutions studied by near-infrared spectroscopy and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19188-19194.	2.8	9
7	ATR-far-ultraviolet spectroscopy in the condensed phase—The present status and future perspectives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 253, 119549.	3.9	14
8	Attenuated Total Reflection—Far-Ultraviolet Spectroscopy and Quantum Chemical Calculations of the Electronic Structure of the Top Surface and Bulk of Polyethylenes with Different Crystallinities. <i>Applied Spectroscopy</i> , 2021, 75, 971-979.	2.2	6
9	Far-Ultraviolet Spectroscopy and Quantum Chemical Calculation Studies of the Conformational Dependence on the Electronic Structure and Transitions of Cyclohexane, Methyl and Dimethyl Cyclohexane, and Decalin; Effects of Axial Substitutions on the Electronic Transitions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8205-8214.	2.5	3
10	Phosphorescence excitation mapping and vibrational spectroscopy of HC9N and HC11N cyanopolynes in organic solvents. <i>Journal of Molecular Structure</i> , 2020, 1214, 128201.	3.6	7
11	Determining the Coordination Number of Li ⁺ and Glyme or Poly(ethylene glycol) in Solution Using Attenuated Total Reflectance-Far Ultraviolet Spectroscopy. <i>Analytical Sciences</i> , 2020, 36, 91-93.	1.6	8
12	Solvation effects on wavenumbers and absorption intensities of the OH-stretch vibration in phenolic compounds—electrical- and mechanical anharmonicity—via a combined DFT/Numerov approach. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13017-13029.	2.8	14
13	Surface Structural Transformation of Pre-carbonized Solid Biomass from Japanese Cedar—via ATR-FTIR and PCA. <i>Analytical Sciences</i> , 2020, 36, 723-729.	1.6	3
14	Bi2Ne: Weakly bound cluster of diatomic bismuth with neon. <i>Low Temperature Physics</i> , 2019, 45, 689-696.	0.6	0
15	Changes in the Electronic Transitions of Polyethylene Glycol upon the Formation of a Coordinate Bond with Li ⁺ , Studied by ATR Far-Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10746-10756.	2.5	15
16	UV-polarizing linear polyyne molecules aligned in PVA. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 175-181.	1.3	8
17	Analysis Using a Multivariable Statistical Method. <i>Analytical Sciences</i> , 2019, 35, 833-834.	1.6	5
18	Elucidation of the electronic states in polyethylene glycol by attenuated Total reflectance spectroscopy in the far-ultraviolet region. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 170-175.	3.9	9

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19	Effects of intermolecular interactions on absorption intensities of the fundamental and the first, second, and third overtones of OH stretching vibrations of methanol and t-butanol in n-hexane studied by visible/near-infrared/infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 121-125.	3.9	3
20	Rydberg transitions as a probe for structural changes and phase transition at polymer surfaces: an ATR-FUV-DUV and quantum chemical study of poly(3-hydroxybutyrate) and its nanocomposite with graphene. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8859-8873.	2.8	20
21	Advances in Far-Ultraviolet Spectroscopy in the Solid and Liquid States. , 2018, , 251-285.		12
22	Electronic Spectra of Graphene in Far- and Deep-Ultraviolet Region: Attenuated Total Reflection Spectroscopy and Quantum Chemical Calculation Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28998-29008.	3.1	9
23	Generation and reactions of thiirenium ions by the Cation Pool method. <i>Arkivoc</i> , 2018, 2018, 97-113.	0.5	3
24	Investigation for electronic states of molecules in gel and solid electrolytes using attenuated total reflectance spectroscopy in the far-UV region. , 2018, , .		0
25	Changes in the Electronic States of Low-Temperature Solid <i>n</i> -Tetradecane: Decrease in the HOMO-LUMO Gap. <i>ACS Omega</i> , 2017, 2, 618-625.	3.5	25
26	A Correction Method for Attenuated Total Reflection Far Ultraviolet Spectra Via the Use of Charge Transfer to Solvent Band Intensities of Iodide in the Ultraviolet Region. <i>Applied Spectroscopy</i> , 2017, 71, 1530-1536.	2.2	11
27	New Application of Far-ultraviolet Spectroscopy. <i>Bunseki Kagaku</i> , 2017, 66, 319-331.	0.2	0
28	Far-UV Spectroscopy: Methods and Applications. , 2017, , 571-580.		1
29	Changes in electronic states of molecules resulted from interactions in the condensed phase. , 2017, , .		0
30	Attenuated total reflection far-ultraviolet spectroscopy. , 2016, , .		0
31	Study of electronic transitions by using attenuated total reflectance spectroscopy in the far-UV region. , 2016, , .		0
32	Electronic absorption spectra of imidazolium-based ionic liquids studied by far-ultraviolet spectroscopy and quantum chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22526-22530.	2.8	48
33	Analysis of Electronic Transition of Aqueous Solutions Studied by Far-ultraviolet Spectroscopy. <i>Bunseki Kagaku</i> , 2015, 64, 173-184.	0.2	0
34	Low-Lying Electronic States in Bismuth Trimer Bi_3 As Revealed by Laser-Induced NIR Emission Spectroscopy in Solid Ne. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2644-2650.	2.5	2
35	Low temperature in situ Raman spectroscopy of an electro-generated arylbis(arylthio)sulfonium ion. <i>Chemical Communications</i> , 2015, 51, 13106-13109.	4.1	6
36	Surface Effect of Alumina on the First Electronic Transition of Liquid Water Studied by Far-Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1022-1026.	4.6	28

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37	Advances in Molecular Structure and Interaction Studies Using Near-Infrared Spectroscopy. Chemical Reviews, 2015, 115, 9707-9744.	47.7	189
38	Electronic Structure and Transition in the Far-Ultraviolet Region. , 2015, , 29-54.		1
39	Instrumentation for FUV Spectroscopy. , 2015, , 17-28.		0
40	Concept and properties of an infrared hybrid single-beam spectrum and its application to eliminate solvent bands and other background interferences. Talanta, 2014, 119, 105-110.	5.5	4
41	Rydberg and π^* Transitions in Film Surfaces of Various Kinds of Nylons Studied by Attenuated Total Reflection Far-Ultraviolet Spectroscopy and Quantum Chemical Calculations: Peak Shifts in the Spectra and Their Relation to Nylon Structure and Hydrogen Bondings. Journal of Physical Chemistry B. 2014, 118, 11855-11861.	2.6	37
42	Tip-enhanced Raman spectroscopic measurement of stress change in the local domain of epitaxial graphene on the carbon face of 4H-SiC(000 $\bar{1}$). Physical Chemistry Chemical Physics, 2014, 16, 20236-20240.	2.8	28
43	Combined IR/NIR and Density Functional Theory Calculations Analysis of the Solvent Effects on Frequencies and Intensities of the Fundamental and Overtones of the C=O Stretching Vibrations of Acetone and 2-Hexanone. Journal of Physical Chemistry A, 2014, 118, 2576-2583.	2.5	40
44	Environmentally friendly synthesis and physical and optical properties of highly reflective green-black pigments. Journal of the Ceramic Society of Japan, 2014, 122, 322-328.	1.1	5
45	Quantum Mechanical Interpretation of Intermolecular Vibrational Modes of Crystalline Poly-(<i>l</i>)-3-Hydroxybutyrate Observed in Low-Frequency Raman and Terahertz Spectra. Journal of Physical Chemistry B, 2013, 117, 2180-2187.	2.6	58
46	Terahertz Spectroscopy in Polymer Research: Assignment of Intermolecular Vibrational Modes and Structural Characterization of Poly(3-Hydroxybutyrate). IEEE Transactions on Terahertz Science and Technology, 2013, 3, 248-258.	3.1	55
47	Pulse Laser Photolysis of Aqueous Ozone in the Microsecond Range Studied by Time-Resolved Far-Ultraviolet Absorption Spectroscopy. Analytical Chemistry, 2013, 85, 4500-4506.	6.5	18
48	Brill transition of nylon-6 characterized by low-frequency vibration through terahertz absorption spectroscopy. Chemical Physics Letters, 2013, 575, 36-39.	2.6	28
49	Electronic Transitions of Protonated and Deprotonated Amino Acids in Aqueous Solution in the Region 145–300 nm Studied by Attenuated Total Reflection Far-Ultraviolet Spectroscopy. Journal of Physical Chemistry A, 2013, 117, 2517-2528.	2.5	39
50	Terahertz vibrational spectroscopy of poly(3-hydroxybutyrate) and nylon: Potential of terahertz spectroscopy for polymer science. , 2013, , .		1
51	Electronic transitions in liquid amides studied by using attenuated total reflection far-ultraviolet spectroscopy and quantum chemical calculations. Journal of Chemical Physics, 2013, 139, 154301.	3.0	41
52	Development of a time-resolved attenuated total reflectance spectrometer in far-ultraviolet region. Review of Scientific Instruments, 2012, 83, 073103.	1.3	21
53	Vibrational spectra of nylon-6, nylon-6/6, nylon-11 and nylon-12 studied by terahertz spectroscopy. , 2012, , .		4
54	Monitoring of a Calcination Reaction of High Reflective Green-Black (HRGB) Pigments by Using Near-Infrared Electronic Spectroscopy: Calcination Temperature-Dependent Crystal Structural Changes of Their Components and Calibration of the Extent of the Reaction. Applied Spectroscopy, 2012, 66, 665-672.	2.2	8

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55	Far-Ultraviolet Spectroscopy in the Solid and Liquid States: A Review. Applied Spectroscopy, 2012, 66, 1-25.	2.2	77
56	Development of Far-UV Spectroscopy for Liquid and Solid and Its Application to Analytical Chemistry. Bunseki Kagaku, 2012, 61, 591-603.	0.2	3
57	The effect of metal cations on the nature of the first electronic transition of liquid water as studied by attenuated total reflection far-ultraviolet spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 8097.	2.8	44
58	Elucidating Electronic Transitions from π Orbitals of Liquid n - and Branched Alkanes by Far-Ultraviolet Spectroscopy and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2012, 116, 11957-11964.	2.5	51
59	Effects of Lanthanoid Cations on the First Electronic Transition of Liquid Water Studied Using Attenuated Total Reflection Far-Ultraviolet Spectroscopy: Ligand Field Splitting of Lanthanoid Hydrates in Aqueous Solutions. Inorganic Chemistry, 2012, 51, 10650-10656.	4.0	25
60	The dielectric constant dependence of absorption intensities and wavenumbers of the fundamental and overtone transitions of stretching vibration of the hydrogen fluoride studied by quantum chemistry calculations. Journal of Molecular Structure, 2012, 1018, 102-106.	3.6	20
61	Spectroscopic characterization of a series of polyyne-iodine molecular complexes $H(CC)_nH(I)_6$ of $n=5-9$. Chemical Physics Letters, 2012, 541, 54-59.	2.6	11
62	Isothermal crystallization of poly(3-hydroxybutyrate) studied by terahertz two-dimensional correlation spectroscopy. Applied Physics Letters, 2012, 100, .	3.3	38
63	Isothermal crystallization of poly(3-hydroxybutyrate) studied by terahertz time-domain spectroscopy. , 2011, , .		1
64	Low- n Rydberg Transitions of Liquid Ketones Studied by Attenuated Total Reflection Far-Ultraviolet Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 562-568.	2.5	50
65	Polarization and temperature dependent spectra of poly(3-hydroxyalkanoate)s measured at terahertz frequencies. Physical Chemistry Chemical Physics, 2011, 13, 9173.	2.8	97
66	Isothermal crystallization of poly(3-hydroxybutyrate) studied by terahertz two-dimensional correlation spectroscopy. , 2011, , .		0
67	Hydrogen Bonding Effects on the Wavenumbers and Absorption Intensities of the OH Fundamental and the First, Second, and Third Overtones of Phenol and 2,6-Dihalogenated Phenols Studied by Visible/Near-Infrared/Infrared Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 9845-9853.	2.5	60
68	Far-Ultraviolet Spectra of n -Alkanes and Branched Alkanes in the Liquid Phase Observed Using an Attenuated Total Reflection Far Ultraviolet (ATR-FUV) Spectrometer. Applied Spectroscopy, 2011, 65, 221-226.	2.2	47
69	Quantitative Analysis of Ions in Spring Water in Three Different Areas of Hyogo Prefecture in Japan by Far Ultraviolet Spectroscopy. Analytical Sciences, 2011, 27, 177-182.	1.6	14
70	Analysis of Water and Aqueous Solutions by Far Ultraviolet Spectroscopy. Bunseki Kagaku, 2011, 60, 19-31.	0.2	2
71	Terahertz spectroscopy of poly(3-hydroxyalkanoate)s. , 2011, , .		1
72	Higher order conformation of Poly(3-hydroxybutyrate)s studied by terahertz time-domain spectroscopy. , 2010, , .		0

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73	Higher order conformation of poly(3-hydroxyalkanoates) studied by terahertz time-domain spectroscopy. Applied Physics Letters, 2010, 96, .	3.3	70
74	Effect of Cations on Absorption Bands of First Electronic Transition of Liquid Water. Journal of Physical Chemistry A, 2010, 114, 8319-8322.	2.5	55
75	Attenuated total reflectanceâ€‘far ultraviolet (ATRâ€‘FUV) spectra of CH ₃ OH, CH ₃ OD, CD ₃ OH and CD ₃ OD in a liquid phase $\frac{1}{4}$ Rydberg states $\frac{1}{4}$. Chemical Physics Letters, 2009, 476, 205-208.	2.6	58
76	Photodissociation Dynamics of 2,5-Dihydroxyacetophenone. Journal of Physical Chemistry A, 2009, 113, 97-102.	2.5	7
77	Correlation between Nuclear Spin Ratio of Cyclic C ₃ H ₂ and Chemical Evolution in TMCâ€‘1 Cores. Astrophysical Journal, 2006, 642, 954-965.	4.5	12
78	Search for CCHâ€‘, NCOâ€‘, and NCSâ€‘ Negative Ions in Molecular Clouds. Publication of the Astronomical Society of Japan, 2005, 57, 325-334.	2.5	18
79	UV and IR absorption spectra of C ₃ embedded in solid para-hydrogen. Chemical Physics, 2004, 300, 69-77.	1.9	15