List of Publications by Year in descending order

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Shiceaki Μοριτά

#	Article	IF	CITATIONS
1	Perturbation-Correlation Moving-Window Two-Dimensional Correlation Spectroscopy. Applied Spectroscopy, 2006, 60, 398-406.	1.2	244
2	The roles of water molecules at the biointerface of medical polymers. Polymer Journal, 2013, 45, 701-710.	1.3	216
3	Time-Resolved In Situ ATR-IR Observations of the Process of Sorption of Water into a Poly(2-methoxyethyl acrylate) Film. Langmuir, 2007, 23, 3750-3761.	1.6	169
4	Study on Temperature-Dependent Changes in Hydrogen Bonds in Cellulose Iβ by Infrared Spectroscopy with Perturbation-Correlation Moving-Window Two-Dimensional Correlation Spectroscopy. Biomacromolecules, 2006, 7, 3164-3170.	2.6	109
5	Structural Changes in Poly(2-methoxyethyl acrylate) Thin Films Induced by Absorption of Bisphenol A. An Infrared and Sum Frequency Generation (SFG) Study. Macromolecules, 2003, 36, 5694-5703.	2.2	96
6	Temperature-Dependent Changes in Hydrogen Bonds in Cellulose Iα Studied by Infrared Spectroscopy in Combination with Perturbation-Correlation Moving-Window Two-Dimensional Correlation Spectroscopy:  Comparison with Cellulose Iβ. Biomacromolecules, 2007, 8, 2969-2975.	2.6	95
7	Temperature-Dependent Structural Changes in Hydrogen Bonds in Microcrystalline Cellulose Studied by Infrared and Near-Infrared Spectroscopy with Perturbation-Correlation Moving-Window Two-Dimensional Correlation Analysis. Applied Spectroscopy, 2006, 60, 611-618.	1.2	91
8	Cd2+-Induced Interfacial Structural Changes of Langmuirâ^'Blodgett Films of Stearic Acid on Solid Substrates:  A Sum Frequency Generation Study. Langmuir, 2004, 20, 357-365.	1.6	90
9	Hydrogen Bonding on the Surface of Poly(2-methoxyethyl acrylate). Journal of the American Chemical Society, 2004, 126, 12198-12199.	6.6	89
10	Surface Molecular Structures of Langmuirâ^'Blodgett Films of Stearic Acid on Solid Substrates Studied by Sum Frequency Generation Spectroscopy. Langmuir, 2003, 19, 2238-2242.	1.6	80
11	Hydrogen-bonds structure in poly(2-hydroxyethyl methacrylate) studied by temperature-dependent infrared spectroscopy. Frontiers in Chemistry, 2014, 2, 10.	1.8	74
12	Drying process of microcrystalline cellulose studied by attenuated total reflection IR spectroscopy with two-dimensional correlation spectroscopy and principal component analysis. Journal of Molecular Structure, 2006, 799, 102-110.	1.8	72
13	Computational simulations and a practical application of moving-window two-dimensional correlation spectroscopy. Journal of Molecular Structure, 2006, 799, 111-120.	1.8	68
14	A Study on Water Adsorption onto Microcrystalline Cellulose by Near-Infrared Spectroscopy with Two-Dimensional Correlation Spectroscopy and Principal Component Analysis. Applied Spectroscopy, 2006, 60, 1054-1061.	1.2	61
15	Effect of band position shift on moving-window two-dimensional correlation spectroscopy. Journal of Molecular Structure, 2006, 799, 16-22.	1.8	49
16	Hydrogen-bond structures in poly(2-hydroxyethyl methacrylate): Infrared spectroscopy and quantum chemical calculations with model compounds. Vibrational Spectroscopy, 2009, 51, 28-33.	1.2	38
17	Perturbation-correlation moving-window 2D correlation analysis of temperature-dependent infrared spectra of a poly(vinyl alcohol) film. Journal of Molecular Structure, 2008, 883-884, 181-186.	1.8	35
18	Thermal Degradation of Poly(3-hydroxybutyrate) and Poly(3-hydroxybutyrate- <i>co</i> -3-hydroxyhexanoate) in Nitrogen and Oxygen Studied by Thermogravimetric–Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2007, 61, 755-764.	1.2	33

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19	Temperature-dependent structure changes in Nafion ionomer studied by PCMW2D IR correlation spectroscopy. Journal of Molecular Structure, 2010, 974, 56-59.	1.8	31
20	Effect of Sodium Chloride on Hydration Structures of PMEA and P(MPC- <i>r</i> BMA). Langmuir, 2014, 30, 10698-10703.	1.6	31
21	Moving-window two-dimensional correlation spectroscopy and perturbation-correlation moving-window two-dimensional correlation spectroscopy. Chemometrics and Intelligent Laboratory Systems, 2017, 168, 114-120.	1.8	31
22	Role of interfacial water in determining the interactions of proteins and cells with hydrated materials. Colloids and Surfaces B: Biointerfaces, 2021, 198, 111449.	2.5	31
23	Effect of the window size in moving-window two-dimensional correlation analysis. Journal of Molecular Structure, 2006, 799, 28-33.	1.8	30
24	Release mechanisms of acetaminophen from polyethylene oxide/polyethylene glycol matrix tablets utilizing magnetic resonance imaging. International Journal of Pharmaceutics, 2010, 395, 147-153.	2.6	30
25	Variable-Temperature Fourier Transform Infrared Spectroscopic Investigations of Poly(3-Hydroxyalkanoates) and Perturbation-Correlation Moving-Window Two-Dimensional Correlation Analysis. Part II: Study of Poly(ε-Caprolactone) Homopolymer and a Poly(3-Hydroxybutyrate)—Poly(ε-Caprolactone) Blend. Applied Spectroscopy. 2009. 63. 1034-1040.	1.2	28
26	Variable-Temperature Fourier Transform Infrared Spectroscopic Investigations of Poly(3-Hydroxyalkanoates) and Perturbation-Correlation Moving-Window Two-Dimensional Correlation Analysis. Part I: Study of Non-Annealed and Annealed Poly(3-Hydroxybutyrate) Homopolymer. Applied Spectroscopy, 2009, 63, 1027-1033.	1.2	27
27	Effect of glass transition temperature (Tg) on the absorption of bisphenol A in poly(acrylate)s thin films. Vibrational Spectroscopy, 2004, 35, 15-19.	1.2	26
28	Quartz Crystal Microbalance and Infrared Reflection Absorption Spectroscopy Characterization of Bisphenol A Absorption in the Poly(acrylate) Thin Films. Analytical Chemistry, 2004, 76, 788-795.	3.2	23
29	Surface force and vibrational spectroscopic analyses of interfacial water molecules in the vicinity of methoxy-tri(ethylene glycol)-terminated monolayers: mechanisms underlying the effect of lateral packing density on bioinertness. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1231-1243.	1.9	22
30	New Method for Spectral Data Classification: Two-Way Moving Window Principal Component Analysis. Applied Spectroscopy, 2006, 60, 884-891.	1.2	21
31	Identification of the epoxy curing mechanism under isothermal conditions by thermal analysis and infrared spectroscopy. Journal of Molecular Structure, 2014, 1069, 164-170.	1.8	21
32	Epoxy curing reaction studied by using twoâ€dimensional correlation infrared and nearâ€infrared spectroscopy. Journal of Applied Polymer Science, 2011, 119, 871-881.	1.3	20
33	Hydration Structure of Poly(2-methoxyethyl acrylate): Comparison with a 2-Methoxyethyl Acetate Model Monomer. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 1925-1935.	1.9	19
34	Novel Method of Constructing Two-Dimensional Correlation Spectroscopy without Subtracting a Reference Spectrum. Journal of Physical Chemistry A, 2018, 122, 788-797.	1.1	19
35	A novel systematic absence of cross peaks-based 2D-COS approach for bilinear data. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117103.	2.0	19
36	Polymer chain conformation in the phase separation process of a binary liquid mixture. European Polymer Journal, 2002, 38, 1863-1870.	2.6	18

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37	Multivariate Curve Resolution Analysis on the Multi-Component Water Sorption Process into a Poly(2-methoxyethyl Acrylate) Film. Applied Spectroscopy, 2008, 62, 46-50.	1.2	17
38	Two-Step Curing Reaction of Epoxy Resin Studied by Thermal Analysis and Infrared Spectroscopy. Applied Spectroscopy, 2012, 66, 926-933.	1.2	17
39	Phase Angle Description of Perturbation Correlation Analysis and its Application to Time-Resolved Infrared Spectra. Applied Spectroscopy, 2007, 61, 867-872.	1.2	16
40	Chemometrics and Related Fields in Python. Analytical Sciences, 2020, 36, 107-111.	0.8	16
41	Different hydration states and passive tumor targeting ability of polyethylene glycol-modified dendrimers with high and low PEG density. Materials Science and Engineering C, 2021, 126, 112159.	3.8	16
42	Temperature dependence of isothermal curing reaction of epoxy resin studied by modulated differential scanning calorimetry and infrared spectroscopy. Journal of Molecular Structure, 2016, 1124, 249-255.	1.8	14
43	Hydration mechanism on a poly(methacrylic acid) film studied by in situ attenuated total reflection infrared spectroscopy. Polymer, 2009, 50, 5765-5770.	1.8	13
44	Chemical degradation of Nafion ionomer at a catalyst interface of polymer electrolyte fuel cell by hydrogen and oxygen feeding in the anode. Microchemical Journal, 2013, 106, 384-388.	2.3	13
45	Real-time determination and visualization of two independent quantities during a manufacturing process of pharmaceutical tablets by near-infrared hyperspectral imaging combined with multivariate analysis. International Journal of Pharmaceutics, 2020, 590, 119871.	2.6	12
46	A new approach to removing interference of moisture from FTIR spectrum. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120373.	2.0	11
47	Thermal degradation of a poly(vinyl alcohol) film studied by multivariate curve resolution analysis. Polymer, 2013, 54, 2130-2137.	1.8	10
48	Thermal Behavior of Poly(lactic acid)-Nanocomposite Studied by Near-Infrared Imaging Based on Roundtrip Temperature Scan. Applied Spectroscopy, 2014, 68, 371-378.	1.2	10
49	Developing dissolution testing methodologies for extended-release oral dosage forms with supersaturating properties. Case example: Solid dispersion matrix of indomethacin. International Journal of Pharmaceutics, 2015, 490, 368-374.	2.6	10
50	Multivariate curve resolution using a combination of mid-infrared and near-infrared spectra for the analysis of isothermal epoxy curing reaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 114-120.	2.0	10
51	Effect of baseline drift on perturbation–correlation moving-window two-dimensional correlation spectroscopy, 2012, 60, 217-219.	1.2	9
52	Durability of Nafion-hydrophilic silica hybrid membrane against trace radial species in polymer electrolyte fuel cells. Microchemical Journal, 2013, 108, 60-63.	2.3	9
53	Understanding phase transition and vibrational mode coupling in ammonium nitrate using 2D correlation Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119581.	2.0	9
54	Moving-Window Two-Dimensional Heterospectral (MW2DHetero) Correlation Analysis and Its Application for the Process Monitoring of Alcoholic Fermentation. Applied Spectroscopy, 2015, 69, 665-670.	1.2	8

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55	In-situ spectroscopic monitoring of Jatropha oil combustion properties. Renewable Energy, 2014, 63, 775-778.	4.3	7
56	Time-resolved conformational analysis of poly(ethylene oxide) during the hydrogelling process. Polymer, 2011, 52, 5560-5566.	1.8	5
57	Hydration structure of trifluoromethanesulfonate studied by quantum chemical calculations. Computational and Theoretical Chemistry, 2012, 982, 30-33.	1.1	5
58	Rotational behavior of the fluorescent probe molecules near the critical point of phase separation. Physica B: Condensed Matter, 2003, 327, 108-115.	1.3	2
59	Two-Dimensional Imaging of Water Vapor by Near-Infrared Laser Absorption Spectroscopy. Applied Spectroscopy, 2008, 62, 1216-1220.	1.2	2
60	Visualization of Two-Dimensional Excitation Temperatures in CH4/N2/Ar Plasmas for Preparation of Carbonaceous Materials. Journal of Energy Resources Technology, Transactions of the ASME, 2013, 135, .	1.4	2
61	Use of Near-Infrared–Mid-Infrared Dual-Wavelength Spectrometry to Obtain Two-Dimensional Difference Spectra of Sesame Oil as Inactive Drug Ingredient. Applied Spectroscopy, 2021, 75, 385-394.	1.2	2
62	Infrared Emission Spectroscopic Imaging of a Combustion Flame. Bunseki Kagaku, 2012, 61, 275-279.	0.1	1
63	Spectroscopic visualization of CH in methane/hydrogen plasmas for synthesis of carbonaceous materials and surface micromorphology. Microchemical Journal, 2012, 104, 38-43.	2.3	1
64	2D spectroscopic observation on effect of nitrogen species on CH abundance and morphology of carbonaceous film by plasma-enhanced CVD. Microchemical Journal, 2013, 106, 373-377.	2.3	1
65	Intercorrelation between Interfacial Behavior of Water and Biocompatibility. Hyomen Kagaku, 2015, 36, 424-429.	0.0	1
66	<i>In Situ</i> ATR-IR Spectroscopy Combined with Chemometrics for the Analysis of a Polymer Membrane. Bunseki Kagaku, 2018, 67, 179-186.	0.1	1
67	Polymer Surface Explored by Infrared Spectroscopy and Atomic Force Microscopy. Journal of the Adhesion Society of Japan, 2005, 41, 183-195.	0.0	Ο
68	Measurement of One-dimensional Water Distribution in a Polymer Electrolyte Membrane for Fuel Cell with a Near-infrared Laser. , 2007, , .		0
69	Spectroscopic Monitoring of Energy Systems (Calvin W. Rice Lecture). , 2009, , .		0
70	Combustion diagnostics by laser spectrometry. , 2009, , .		0
71	Near-Infrared Imaging of Water in a Polymer Electrolyte Membrane during a Fuel Cell Operation. Analytical Chemistry, 2010, 82, 9221-9224.	3.2	0
72	Hydration Structure of a Nafion Membrane in a Polymer Electrolyte Fuel Cell. , 2010, , .		0