

Isao Noda

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Continuing progress in the field of two-dimensional correlation spectroscopy (2D-COS): Part III. Versatile applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 284, 121636.	2.0	11
2	A new approach to removing interference of moisture from FTIR spectrum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 265, 120373.	2.0	11
3	Novel Method for Extracting the Spectrum of a Supramolecular Complex via a Comprehensive Approach Involving Two-Dimensional Correlation Spectroscopy, Genetic Algorithm, and Grid Searching. <i>Analytical Chemistry</i> , 2022, 94, 2348-2355.	3.2	3
4	Random swapping, an effective and efficient way to boost the intensities of cross peaks in a 2D asynchronous spectrum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 120968.	2.0	0
5	Estimating more than two pure component spectra from only two mixture spectra using two-dimensional correlation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121221.	2.0	4
6	Deprotonation from an OH on <i>myo</i> -Inositol Promoted by $\frac{1}{4}$ -Bridges with Possible Regioselectivity/Chiral Selectivity. <i>Inorganic Chemistry</i> , 2022, 61, 6138-6148.	1.9	1
7	Two-trace two-dimensional (2T2D) correlation applied to a number of spectra beyond a simple pair. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 277, 121258.	2.0	0
8	Continuing progress in the field of two-dimensional correlation spectroscopy (2D-COS), part I. Yesterday and today. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 281, 121573.	2.0	13
9	Lamellar orientation evolution of poly(3-hydroxybutyrate- <i>co</i> -3-hydroxyhexanoate) thin film with 3-hydroxyhexanoate comonomer content difference. <i>International Journal of Polymer Analysis and Characterization</i> , 2021, 26, 17-23.	0.9	3
10	Intensity Enhancement of a Two-Dimensional Asynchronous Spectrum Without Noise Level Fluctuation Escalation Using a One-Dimensional Spectra Sequence Change. <i>Applied Spectroscopy</i> , 2021, 75, 422-433.	1.2	7
11	Unexpected Deprotonation from a Chemically Inert OH Group Promoted by Metal Ions in Lanthanide-Erythritol Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 5172-5182.	1.9	3
12	The Study of pH Effects on Phase Transition of Multi-Stimuli Responsive P(NiPAAm-co-AAc) Hydrogel Using 2D-COS. <i>Polymers</i> , 2021, 13, 1447.	2.0	11
13	Investigation on the luminescence behavior of terbium acetylsalicylate/bilirubin system via 2D-COS approaches. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 251, 119427.	2.0	6
14	Understanding Thermal Behavior of Poly(ethylene glycol)-block-poly(N-isopropylacrylamide) Hydrogel Using Two-Dimensional Correlation Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2021, 75, 957-962.	1.2	1
15	Two-Trace Two-Dimensional Correlation Spectroscopy Study of the Crystallization Behavior of Bioplastics. <i>Applied Spectroscopy</i> , 2021, 75, 963-970.	1.2	11
16	Characterization of the phase transition mechanism of P(NiPAAm-co-AAc) copolymer hydrogel using 2D correlation IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 252, 119525.	2.0	10
17	Investigation on the interaction between theophylline and alkaline substances using the DAOSD approach. <i>Journal of Molecular Structure</i> , 2020, 1202, 127294.	1.8	4
18	Sample- <i>Sample</i> Correlation Asynchronous Spectroscopic Method Coupled with Multivariate Curve Resolution-Alternating Least Squares To Analyze Challenging Bilinear Data. <i>Analytical Chemistry</i> , 2020, 92, 1477-1484.	3.2	12

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19	Identification of systematic absence of cross-peaks (SACPs) in a two-dimensional asynchronous Spectrum using an auxiliary 2D quotient Spectrum and a statistical test. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118789.	2.0	11
20	Two-dimensional correlation spectroscopy studies on degradation of photovoltaic backsheets from indoor to outdoor. <i>Polymer Degradation and Stability</i> , 2020, 181, 109341.	2.7	3
21	Intermolecular Hydrogen Bonding between Poly[(<i>R</i>)-3-hydroxybutyrate] (PHB) and Pseudoboehmite and Its Effect on Crystallization of PHB. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4762-4769.	2.0	6
22	Two-dimensional correlation and codistribution spectroscopy (2D-COS and 2D-CDS) analyses of planar spectral image data. <i>Journal of Molecular Structure</i> , 2020, 1211, 128068.	1.8	12
23	Analysis of nonlinear structural dynamics of uncrystallized polyester under heating using a pulse-induced dynamic compression (PDC) IR method. <i>Vibrational Spectroscopy</i> , 2020, 109, 103067.	1.2	3
24	Emerging developments in two-dimensional correlation spectroscopy (2D-COS). <i>Journal of Molecular Structure</i> , 2020, 1217, 128405.	1.8	56
25	Chemical images and 2D-COS analysis of spin-coated PHBHx/PEG blend films. <i>Journal of Molecular Structure</i> , 2020, 1216, 128344.	1.8	5
26	Two-dimensional correlation analysis of highly spatially resolved simultaneous IR and Raman spectral imaging of bioplastics composite using optical photothermal Infrared and Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2020, 1210, 128045.	1.8	29
27	Two-dimensional correlation spectroscopy of proteins. , 2020, , 337-373.		1
28	Closer examination of two-trace two-dimensional (2T2D) correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2020, 1213, 128194.	1.8	28
29	Application of two-dimensional correlation fluorescence spectroscopy to detect the presence of trace amount of substances. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 237, 118374.	2.0	6
30	Crystallization Retardation of Ultrathin Films of Poly[(<i>R</i>)-3-hydroxybutyrate] and a Random Copolymer Poly[(<i>R</i>)-3-hydroxybutyrate- <i>co</i> -(<i>R</i>)-3-hydroxyhexanoate] on an Aluminum Oxide Surface. <i>Macromolecules</i> , 2019, 52, 7343-7352.	2.2	8
31	A novel systematic absence of cross peaks-based 2D-COS approach for bilinear data. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117103.	2.0	19
32	A Novel Approach Based on Two-Dimensional Correlation Spectroscopy to Determine the Stoichiometric Ratio of Two Substances Involved in Intermolecular Interactions. <i>Applied Spectroscopy</i> , 2019, 73, 1051-1060.	1.2	12
33	Studies on Chemical IR Images of Poly(hydroxybutyrate- <i>co</i> -hydroxyhexanoate)/Poly(ethylene glycol) Blends and Two-Dimensional Correlation Spectroscopy. <i>Polymers</i> , 2019, 11, 507.	2.0	12
34	Microstructure effects on the rheology of nanoclay-filled PHB/LDPE blends. <i>Polymer Composites</i> , 2019, 40, 4125-4134.	2.3	13
35	Two-Dimensional Correlation Spectroscopy (2D-COS) Studies of Solution Mixtures in the Low Frequency Raman Region. <i>Applied Spectroscopy</i> , 2019, 73, 1012-1018.	1.2	6
36	A preliminary study on constructing a high-dimensional asynchronous spectrum to analyze bilinear data. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 76-84.	2.0	14

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37	Investigation of the Phase Transition Mechanism in LiFePO ₄ Cathode Using In Situ Raman Spectroscopy and 2D Correlation Spectroscopy during Initial Cycle. <i>Molecules</i> , 2019, 24, 291.	1.7	22
38	Two-Dimensional Correlation Spectroscopy (2D-COS) for Analysis of Spatially Resolved Vibrational Spectra. <i>Applied Spectroscopy</i> , 2019, 73, 359-379.	1.2	110
39	Revealing thermal behavior of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) and its polyethylene glycol blends thin films: Effect of 3-Hydroxyhexanoate comonomer content. <i>Journal of Molecular Structure</i> , 2018, 1162, 140-144.	1.8	9
40	Two-trace two-dimensional (2T2D) correlation spectroscopy – A method for extracting useful information from a pair of spectra. <i>Journal of Molecular Structure</i> , 2018, 1160, 471-478.	1.8	87
41	Two-dimensional correlation spectroscopic studies on coordination between organic ligands and Ni ²⁺ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 126-132.	2.0	6
42	Novel Method of Constructing Two-Dimensional Correlation Spectroscopy without Subtracting a Reference Spectrum. <i>Journal of Physical Chemistry A</i> , 2018, 122, 788-797.	1.1	19
43	Recent progresses in two-dimensional correlation spectroscopy (2D-COS). <i>Journal of Molecular Structure</i> , 2018, 1168, 1-21.	1.8	73
44	Two-dimensional correlation and codistribution spectroscopy (2DCOS and 2DCDS) analyses of time-dependent ATR IR spectra of d-glucose anomers undergoing mutarotation process in water. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 4-9.	2.0	37
45	Two-dimensional correlation analysis of spectra collected without knowing sampling order. <i>Journal of Molecular Structure</i> , 2018, 1156, 418-423.	1.8	23
46	Thermally stable low-density polyethylene/polyhydroxybutyrate pairs: Synergy between organomodified nanoclay and LDPE-g-MAH. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45922.	1.3	2
47	Design of a Novel Apparatus to Enrich Analytes via a Diffuse-Evaporation Process for HPLC-FTIR Analysis. <i>Analytical Sciences</i> , 2018, 34, 1351-1356.	0.8	3
48	Smooth Factor Analysis (SFA) to Effectively Remove High Levels of Noise from Spectral Data Sets. <i>Applied Spectroscopy</i> , 2018, 72, 765-775.	1.2	20
49	2D Correlation Spectroscopy and Its Application in Vibrational and Optical Spectroscopy. , 2018, , 217-240.		6
50	Advances in Two-Dimensional Correlation Spectroscopy (2DCOS). , 2018, , 47-75.		12
51	Growth of anisotropic single crystals of a random copolymer, poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] driven by cooperative CH ₂ -O H-bonding. <i>Polymer</i> , 2018, 154, 111-118.	1.8	12
52	Analysis of Molecular-level Conditions in Polymer Systems by Using a Pulse-Induced Dynamic Compression ATR Infrared Step Scan Time Resolved FT-IR. Part 1 – Basic Simulation Study Based on a Fresnel Multiple Reflection Model. <i>Kobunshi Ronbunshu</i> , 2018, 75, 597-606.	0.2	2
53	Chloroform induces outstanding crystallization of poly(hydroxybutyrate) (PHB) vesicles within bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 2353-2361.	1.9	16
54	Investigation on the relationship between solubility of artemisinin and polyvinylpyrrolidone addition by using DAOSD approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 182, 136-142.	2.0	9

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55	Two-Dimensional Raman Correlation Spectroscopy Study of Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] Copolymers. <i>Applied Spectroscopy</i> , 2017, 71, 1427-1431.	1.2	7
56	Influence of polyethylene glycol on the phase transition of poly(butylene adipate) thin films: Polymorphic control. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 228-234.	2.0	8
57	Observation of Intermolecular Hydrogen Bonding Interactions in Biosynthesized and Biodegradable Poly [(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] in Chloroform and 1,1,1,3,3,3-Hexafluoro-2-propanol (HFIP). <i>Applied Spectroscopy</i> , 2017, 71, 2339-2343.	1.2	3
58	Investigation on intermolecular interaction between berberine and β -cyclodextrin by 2D UV-Vis asynchronous spectra. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 343-348.	2.0	18
59	Reorientation of the poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) crystal in thin film induced by polyethylene glycol. <i>Polymer</i> , 2017, 120, 59-67.	1.8	13
60	Two-Dimensional Correlation Spectroscopy for Multimodal Analysis of FT-IR, Raman, and MALDI-TOF MS Hyperspectral Images with Hamster Brain Tissue. <i>Analytical Chemistry</i> , 2017, 89, 5008-5016.	3.2	62
61	Artifact Correction in Temperature-Dependent Attenuated Total Reflection Infrared (ATR-IR) Spectra. <i>Applied Spectroscopy</i> , 2017, 71, 1868-1875.	1.2	11
62	Investigation on the Behavior of Noise in Asynchronous Spectra in Generalized Two-Dimensional (2D) Correlation Spectroscopy and Application of Butterworth Filter in the Improvement of Signal-to-Noise Ratio of 2D Asynchronous Spectra. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7524-7533.	1.1	21
63	Thermally reversible physical gels of poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate]: Part 1 gelation in dimethylformamide. <i>Polymer</i> , 2017, 131, 217-223.	1.8	3
64	Polymorphic Distribution in Individual Electrospun Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] (PHBHx) Nanofibers. <i>Macromolecules</i> , 2017, 50, 5510-5517.	2.2	21
65	Vibrational two-dimensional correlation spectroscopy (2DCOS) study of proteins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 187, 119-129.	2.0	49
66	Use of CuO Particles as an Interface in LC-FTIR Analysis. <i>Analytical Sciences</i> , 2017, 33, 105-110.	0.8	4
67	Analysis of molecular interactions in polymer systems by using a pulsed compression time-resolved FT-IR/2D-IR spectroscopy. Generation of ring down compression pulses. <i>Vibrational Spectroscopy</i> , 2016, 86, 149-159.	1.2	7
68	A simplified concentration series to produce a pair of 2D asynchronous spectra based on the DAOSD approach. <i>Journal of Molecular Structure</i> , 2016, 1124, 151-158.	1.8	8
69	Investigation on the intermolecular interaction between diethyl ether and dichloromethane in gaseous phase by using the DAOSD approach. <i>Journal of Molecular Structure</i> , 2016, 1124, 244-248.	1.8	10
70	Investigation on intermolecular interaction between two solutes where one solute occurs in two states. <i>Journal of Molecular Structure</i> , 2016, 1124, 228-237.	1.8	7
71	2DCOS and I. Three decades of two-dimensional correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2016, 1124, 3-7.	1.8	16
72	Novel developments and applications of two-dimensional correlation spectroscopy. <i>Journal of Molecular Structure</i> , 2016, 1124, 11-28.	1.8	72

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73	Techniques useful in two-dimensional correlation and codistribution spectroscopy (2DCOS and Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	88
74	Quadrature two-dimensional correlation spectroscopy (Q-2DCOS). Journal of Molecular Structure, 2016, 1124, 42-52.	1.8	4
75	Two-dimensional correlation spectroscopy (2DCOS) analysis of polynomials. Journal of Molecular Structure, 2016, 1124, 53-60.	1.8	20
76	Modified two-dimensional correlation spectra for streamlined determination of sequential order of intensity variations. Journal of Molecular Structure, 2016, 1124, 197-206.	1.8	14
77	Investigation on the spectral properties of 2D asynchronous fluorescence spectra generated by using variable excitation wavelengths as a perturbation. Journal of Molecular Structure, 2016, 1124, 221-227.	1.8	4
78	Influence of polyethylene glycol (PEG) chain length on the thermal behavior of spin-coated thin films of biodegradable poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)/PEG blends. Journal of Molecular Structure, 2016, 1124, 159-163.	1.8	19
79	Coordination between lanthanide (III) ions and organic ligands of natural pharmaceutical containing lactone group probed by DAOSD approach. Biomedical Spectroscopy and Imaging, 2015, 4, 129-137.	1.2	10
80	Analysis of Molecular Interactions in Polymer Systems by Using a Pulsed Compression ATR Dynamic Infrared Linear Dichroism Step Scan Time Resolved FT-IR/2D-IR—Generation of Ring Down Compression Pulses—. Kobunshi Ronbunshu, 2015, 72, 505-512.	0.2	5
81	Design of a New Concentration Series for the Orthogonal Sample Design Approach and Estimation of the Number of Reactions in Chemical Systems. Applied Spectroscopy, 2015, 69, 1229-1242.	1.2	15
82	Two-dimensional correlation spectroscopy in polymer study. Frontiers in Chemistry, 2015, 3, 14.	1.8	44
83	Techniques of two-dimensional (2D) correlation spectroscopy useful in life science research. Biomedical Spectroscopy and Imaging, 2015, 4, 109-127.	1.2	48
84	Finding a suitable separation condition for TLC/FTIR analysis by using multiple-narrow-band TLC technique. RSC Advances, 2015, 5, 21544-21549.	1.7	7
85	Tensile deformation of isotactic polypropylene (iPP) and iPP-nanocomposite studied by rheo-optical near-infrared (NIR) spectroscopy. Vibrational Spectroscopy, 2015, 78, 34-38.	1.2	15
86	Interactions between pyridinium and Nd ³⁺ . Chinese Chemical Letters, 2015, 26, 182-186.	4.8	15
87	Two-dimensional correlation spectroscopic studies on coordination between carbonyl group of butanone and metal ions. Chinese Chemical Letters, 2015, 26, 177-181.	4.8	15
88	Two-dimensional asynchronous spectrum with auxiliary cross peaks in probing intermolecular interactions. RSC Advances, 2015, 5, 87739-87749.	1.7	25
89	Discovery of β -Form Crystal Structure in Electrospun Poly[(<i>R</i>)-3-hydroxybutyrate-co-(<i>R</i>)-3-hydroxyhexanoate] (PHBHx) Nanofibers: From Fiber Mats to Single Fibers. Macromolecules, 2015, 48, 6197-6205.	2.2	68
90	Investigation on the trioctylphosphine oxide-based super-concentrated HCl system. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 136, 288-294.	2.0	2

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91	Recent developments in two-dimensional (2D) correlation spectroscopy. Chinese Chemical Letters, 2015, 26, 167-172.	4.8	36
92	Analysis of an Alanine/Arginine Mixture by Using TLC/FTIR Technique. Journal of Spectroscopy, 2014, 2014, 1-4.	0.6	2
93	Characterization of the coordination between Nd ³⁺ and ester groups by using double asynchronous orthogonal sample design approach. Journal of Molecular Structure, 2014, 1069, 205-210.	1.8	16
94	Coordination between cobalt (II) ion and carbonyl group in acetone probed by using DAOSD approach. Journal of Molecular Structure, 2014, 1069, 217-222.	1.8	19
95	Near-infrared (NIR) imaging analysis of polylactic acid (PLA) nanocomposite by multiple-perturbation two-dimensional (2D) correlation spectroscopy. Journal of Molecular Structure, 2014, 1069, 171-175.	1.8	15
96	Vibrational spectroscopy in the development of surface hydrophilic elastomer latex (SHEL). Vibrational Spectroscopy, 2014, 71, 70-75.	1.2	4
97	The dependence of signal-to-noise ratio on number of scans in covariance spectroscopy. Solid State Nuclear Magnetic Resonance, 2014, 59-60, 31-33.	1.5	7
98	Frontiers of Two-Dimensional Correlation Spectroscopy. Part 1. New concepts and noteworthy developments. Journal of Molecular Structure, 2014, 1069, 3-22.	1.8	125
99	Two-dimensional codistribution spectroscopy to determine the sequential order of distributed presence of species. Journal of Molecular Structure, 2014, 1069, 50-59.	1.8	46
100	Multiple-perturbation two-dimensional (2D) correlation analysis for spectroscopic imaging data. Journal of Molecular Structure, 2014, 1069, 176-182.	1.8	14
101	Two-Dimensional Correlation Spectroscopy Study of Polystyrene. Macromolecular Symposia, 2014, 339, 17-23.	0.4	4
102	Frontiers of two-dimensional correlation spectroscopy. Part 2. Perturbation methods, fields of applications, and types of analytical probes. Journal of Molecular Structure, 2014, 1069, 23-49.	1.8	94
103	Investigation on the dipole-dipole interactions between tetramethylurea and acetonitrile by two-dimensional asynchronous spectroscopy. Journal of Molecular Structure, 2014, 1069, 264-271.	1.8	22
104	A method based on the DAOSD approach to estimate the variation of the peak position and bandwidth caused by intermolecular interactions. Journal of Molecular Structure, 2014, 1069, 211-216.	1.8	17
105	Characterization of intermolecular interaction between two substances when one substance does not possess any characteristic peak. Journal of Molecular Structure, 2014, 1069, 127-132.	1.8	19
106	Using 2D correlation analysis to enhance spectral information available from highly spatially resolved AFM-IR spectra. Journal of Molecular Structure, 2014, 1069, 284-289.	1.8	26
107	Rheo-optical near-infrared (NIR) spectroscopy study of low-density polyethylene (LDPE) in conjunction with projection two-dimensional (2D) correlation analysis. Vibrational Spectroscopy, 2014, 70, 53-57.	1.2	30
108	Molecular interaction of polyimide films probed by using soft-pulse dynamic compression ATR time-resolved infrared and double Fourier-transform based 2D-IR spectroscopy. Vibrational Spectroscopy, 2014, 72, 79-89.	1.2	12

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109	Dipole-dipole interactions in solution mixtures probed by two-dimensional synchronous spectroscopy based on orthogonal sample design scheme. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 124, 697-702.	2.0	17
110	Using Lanthanum Fluoride Fine Particles as Stationary Phase for Thin-Layer Chromatography/Fourier Transform Infrared Spectroscopy Analysis. <i>Journal of Planar Chromatography - Modern TLC</i> , 2014, 27, 80-83.	0.6	6
111	Improvement of the sensitivity of the two-dimensional asynchronous spectroscopy based on the AOSD approach by using a modified reference spectrum. <i>Journal of Molecular Structure</i> , 2013, 1034, 101-111.	1.8	29
112	Comparison of various sampling schemes and accumulation profiles in covariance spectroscopy with exponentially decaying 2D signals. <i>Analyst, The</i> , 2013, 138, 2411.	1.7	13
113	Development of narrow-band TLC plates for TLC/FTIR analysis. <i>Analytical Methods</i> , 2013, 5, 4138.	1.3	7
114	Pressure-induced variation of cellulose tablet studied by two-dimensional (2D) near-infrared (NIR) correlation spectroscopy in conjunction with projection pretreatment. <i>Vibrational Spectroscopy</i> , 2013, 65, 28-35.	1.2	30
115	Terahertz vibrational spectroscopy of poly(3-hydroxybutyrate) and nylon: Potential of terahertz spectroscopy for polymer science. , 2013, , .		1
116	Differentiation of <i>Rhizoma Curcumas Longae</i> and <i>Radix Curcumae</i> by a Multistep Infrared Macro-Fingerprint Method. <i>Analytical Letters</i> , 2013, 46, 2597-2609.	1.0	6
117	Multiple-Perturbation Two-Dimensional Near-Infrared Correlation Study of Time-Dependent Water Absorption Behavior of Cellulose Affected by Pressure. <i>Applied Spectroscopy</i> , 2013, 67, 163-170.	1.2	25
118	Analysis of a Benzamide/Cholesterol Mixture by Using TLC/FTIR Technique. <i>Journal of Spectroscopy</i> , 2013, 2013, 1-5.	0.6	3
119	Detection of Reversible Nonlinear Dynamic Responses of Polymer Films by Using Time-Resolved Soft-Pulse Compression Attenuated Total Reflection Step-Scan Fourier Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2012, 66, 312-318.	1.2	11
120	Parallel factor (PARAFAC) kernel analysis of temperature- and composition-dependent NMR spectra of poly(lactic acid) nanocomposites. <i>Analyst, The</i> , 2012, 137, 1913.	1.7	23
121	Double Asynchronous Orthogonal Sample Design Scheme for Probing Intermolecular Interactions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10904-10916.	1.1	42
122	Isothermal crystallization of poly(3-hydroxybutyrate) studied by terahertz two-dimensional correlation spectroscopy. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	38
123	Covariance spectroscopy with a non-uniform and consecutive acquisition scheme for signal enhancement of the NMR experiments. <i>Journal of Magnetic Resonance</i> , 2012, 217, 106-111.	1.2	14
124	Spectral inter-conversion analysis of thermally induced structural changes in polyethylene crystals. <i>Vibrational Spectroscopy</i> , 2012, 60, 92-97.	1.2	1
125	The influence of changing the sequence of concentration series on the 2D asynchronous spectroscopy generated by the asynchronous orthogonal sample design (AOSD) approach. <i>Vibrational Spectroscopy</i> , 2012, 60, 212-216.	1.2	30
126	Quantitative comparison of reversibility in thermal-induced hydration of poly(N-isopropylacrylamide) and poly(N-isopropylmethacrylamide) in aqueous solutions by concatenated 2D correlation analysis. <i>Vibrational Spectroscopy</i> , 2012, 60, 200-205.	1.2	6

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127	Close-up view on the inner workings of two-dimensional correlation spectroscopy. <i>Vibrational Spectroscopy</i> , 2012, 60, 146-153.	1.2	159
128	Two-dimensional infrared (2D IR) correlation spectroscopy study of self-assembly of oleic acid (OA) in conjunction with partial attenuation of dominant factor by eigenvalue manipulating transformation (EMT). <i>Vibrational Spectroscopy</i> , 2012, 60, 180-184.	1.2	17
129	Improvement of concatenated two-dimensional correlation analysis and its new potential applications on the quantitative evaluation of the process reversibility under different perturbations. <i>Vibrational Spectroscopy</i> , 2012, 60, 220-225.	1.2	10
130	Isothermal melt crystallization behavior of neat poly(l-lactide) (PLLA) and PLLA/organically modified layered silicate (OMLS) nanocomposite studied by two-dimensional (2D) correlation spectroscopy. <i>Vibrational Spectroscopy</i> , 2012, 60, 158-162.	1.2	11
131	Projection 2D correlation analysis of spin-coated film of biodegradable P(HB-co-HHx)/PEG blend. <i>Vibrational Spectroscopy</i> , 2012, 60, 163-167.	1.2	20
132	Isothermal crystallization of poly(3-hydroxybutyrate) studied by terahertz time-domain spectroscopy. , 2011, , .		1
133	Superconcentrated Hydrochloric Acid. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7823-7829.	1.2	3
134	Polarization and temperature dependent spectra of poly(3-hydroxyalkanoate)s measured at terahertz frequencies. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9173.	1.3	97
135	Two-Dimensional Correlation Analysis and Waterfall Plots for Detecting Positional Fluctuations of Spectral Changes. <i>Applied Spectroscopy</i> , 2011, 65, 359-368.	1.2	23
136	Solvent Interactions in Methanol/N, N-Dimethylamide Binary Systems Studied by Fourier Transform Infrared Attenuated Total Reflection (FT-IR/ATR) and Two-Dimensional Correlation Spectroscopy (2D-COS). <i>Applied Spectroscopy</i> , 2011, 65, 892-900.	1.2	13
137	Asynchronous Orthogonal Sample Design Scheme for TwoDimensional Correlation Spectroscopy (2D-COS) and Its Application in Probing Intermolecular Interactions from Overlapping Infrared (IR) Bands. <i>Applied Spectroscopy</i> , 2011, 65, 901-917.	1.2	42
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