

Yukihio Ozaki

List of Publications by Year in descending order

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437
papers

19,417
citations

13865

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20961

115
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503
all docs

503
docs citations

503
times ranked

14802
citing authors

#	ARTICLE	IF	CITATIONS
1	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020, 14, 28-117.	14.6	2,153
2	Generalized Two-Dimensional Correlation Spectroscopy. <i>Applied Spectroscopy</i> , 2000, 54, 236A-248A.	2.2	752
3	Surface-enhanced Raman scattering for protein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1719-1727.	3.7	317
4	Semiconductor-enhanced Raman scattering: active nanomaterials and applications. <i>Nanoscale</i> , 2017, 9, 4847-4861.	5.6	289
5	Studies on the Structure of Water Using Two-Dimensional Near-Infrared Correlation Spectroscopy and Principal Component Analysis. <i>Analytical Chemistry</i> , 2001, 73, 3153-3161.	6.5	281
6	Structural Changes and Crystallization Dynamics of Poly(l-lactide) during the Cold-Crystallization Process Investigated by Infrared and Two-Dimensional Infrared Correlation Spectroscopy. <i>Macromolecules</i> , 2004, 37, 6433-6439.	4.8	257
7	Structure, Dispersibility, and Crystallinity of Poly(hydroxybutyrate)/Poly(l-lactic acid) Blends Studied by FT-IR Microspectroscopy and Differential Scanning Calorimetry. <i>Macromolecules</i> , 2005, 38, 6445-6454.	4.8	233
8	Conformational Change of Poly(N-isopropylacrylamide) during the Coil-to-Globule Transition Investigated by Attenuated Total Reflection/Infrared Spectroscopy and Density Functional Theory Calculation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3429-3435.	2.5	230
9	Near-Infrared Spectroscopy—Its Versatility in Analytical Chemistry. <i>Analytical Sciences</i> , 2012, 28, 545-563.	1.6	222
10	Infrared Spectroscopy Studies of CH ₂ -O Hydrogen Bondings and Thermal Behavior of Biodegradable Poly(hydroxyalkanoate). <i>Macromolecules</i> , 2004, 37, 7203-7213.	4.8	221
11	Near Infrared Spectroscopy and Chemometrics Studies of Temperature-Dependent Spectral Variations of Water: Relationship between Spectral Changes and Hydrogen Bonds. <i>Journal of Near Infrared Spectroscopy</i> , 1995, 3, 191-201.	1.5	198
12	Short-Wave Near-Infrared Spectroscopy of Biological Fluids. 1. Quantitative Analysis of Fat, Protein, and Lactose in Raw Milk by Partial Least-Squares Regression and Band Assignment. <i>Analytical Chemistry</i> , 2001, 73, 64-71.	6.5	195
13	Advances in Molecular Structure and Interaction Studies Using Near-Infrared Spectroscopy. <i>Chemical Reviews</i> , 2015, 115, 9707-9744.	47.7	189
14	Surface-enhanced Raman spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	183
15	Generation of the topa quinone cofactor in bacterial monoamine oxidase by cupric ion-dependent autooxidation of a specific tyrosyl residue. <i>FEBS Letters</i> , 1994, 351, 360-364.	2.8	175
16	Weak Intermolecular Interactions during the Melt Crystallization of Poly(l-lactide) Investigated by Two-Dimensional Infrared Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11514-11520.	2.6	173
17	Thermal Behavior and Molecular Interaction of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Studied by Wide-Angle X-ray Diffraction. <i>Macromolecules</i> , 2004, 37, 3763-3769.	4.8	172
18	FTIR and FT-Raman Studies of Partially Miscible Poly(methyl methacrylate)/Poly(4-vinylphenol) Blends in Solid States. <i>Macromolecules</i> , 1997, 30, 286-292.	4.8	156

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19	Functional nanomaterials with unique enzyme-like characteristics for sensing applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 850-875.	5.8	155
20	Quantitative evaluation of electromagnetic enhancement in surface-enhanced resonance Raman scattering from plasmonic properties and morphologies of individual Ag nanostructures. <i>Physical Review B</i> , 2010, 81, .	3.2	152
21	Self-Assembled Metal Colloid Films: Two Approaches for Preparing New SERS Active Substrates. <i>Langmuir</i> , 2004, 20, 1298-1304.	3.5	146
22	Enhanced Raman Scattering by ZnO Superstructures: Synergistic Effect of Charge Transfer and Mie Resonances. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14452-14456.	13.8	133
23	Recent progress and frontiers in the electromagnetic mechanism of surface-enhanced Raman scattering. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014, 21, 81-104.	11.6	131
24	Semiconductor materials in analytical applications of surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 51-58.	2.5	127
25	FTIR Study on Hydrogen-Bonding Interactions in Biodegradable Polymer Blends of Poly(3-hydroxybutyrate) and Poly(4-vinylphenol). <i>Macromolecules</i> , 2010, 43, 3897-3902.	4.8	125
26	Conformation Rearrangement and Molecular Dynamics of Poly(3-hydroxybutyrate) during the Melt-Crystallization Process Investigated by Infrared and Two-Dimensional Infrared Correlation Spectroscopy. <i>Macromolecules</i> , 2005, 38, 4274-4281.	4.8	120
27	Sensing of polycyclic aromatic hydrocarbons with cyclodextrin inclusion complexes on silver nanoparticles by surface-enhanced Raman scattering. <i>Analyst</i> , 2010, 135, 1389.	3.5	118
28	Near-infrared Fourier transform Raman spectroscopic study of human brain tissues and tumours. <i>Journal of Raman Spectroscopy</i> , 1994, 25, 25-29.	2.5	116
29	Plasmon-enhanced spectroscopy of absorption and spontaneous emissions explained using cavity quantum optics. <i>Chemical Society Reviews</i> , 2017, 46, 3904-3921.	38.1	113
30	Second enhancement in surface-enhanced resonance Raman scattering revealed by an analysis of anti-Stokes and Stokes Raman spectra. <i>Physical Review B</i> , 2007, 76, .	3.2	112
31	PLLA Mesophase and Its Phase Transition Behavior in the PLLA-PEG-PLLA Copolymer As Revealed by Infrared Spectroscopy. <i>Macromolecules</i> , 2010, 43, 4240-4246.	4.8	111
32	Crystal and Lamella Structure and C-H...O Hydrogen Bonding of Poly(3-hydroxyalkanoate) Studied by X-ray Diffraction and Infrared Spectroscopy. <i>Macromolecules</i> , 2006, 39, 1525-1531.	4.8	109
33	Two-Dimensional Near-Infrared Correlation Spectroscopy Study of Premelting Behavior of Nylon 12. <i>Macromolecules</i> , 1997, 30, 2391-2399.	4.8	107
34	Surface-enhanced Raman scattering: realization of localized surface plasmon resonance using unique substrates and methods. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1747-1760.	3.7	107
35	A New Possibility of the Generalized Two-Dimensional Correlation Spectroscopy. 1. Sample-Sample Correlation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6380-6387.	2.5	105
36	Two-Dimensional Correlation Spectroscopy Study of Temperature-Dependent Spectral Variations of N-Methylacetamide in the Pure Liquid State. 2. Two-Dimensional Raman and Infrared-Raman Heterospectral Analysis. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8674-8680.	2.9	104

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37	Surface-enhanced resonance Raman scattering and background light emission coupled with plasmon of single Ag nanoaggregates. <i>Journal of Chemical Physics</i> , 2006, 124, 134708.	3.0	103
38	Polarization and temperature dependent spectra of poly(3-hydroxyalkanoate)s measured at terahertz frequencies. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9173.	2.8	97
39	Multivariate data analysis for Raman spectroscopic imaging. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1720-1725.	2.5	96
40	Critical evaluation of spectral information of benchtop vs. portable near-infrared spectrometers: quantum chemistry and two-dimensional correlation spectroscopy for a better understanding of PLS regression models of the rosmarinic acid content in <i>Rosmarini folium</i> . <i>Analyst, The</i> , 2017, 142, 455-464.	3.5	94
41	Conformational changes in seventeen cystine disulfide bridges of bovine serum albumin proved by Raman spectroscopy. <i>FEBS Letters</i> , 1997, 417, 375-378.	2.8	92
42	Self-Modeling Curve Resolution Study of Temperature-Dependent Near-Infrared Spectra of Water and the Investigation of Water Structure. <i>Journal of Physical Chemistry A</i> , 2002, 106, 760-766.	2.5	92
43	Semiconductor-driven α -surface-enhanced Raman scattering spectroscopy: application in selective determination of chromium(VI) in water. <i>Chemical Science</i> , 2015, 6, 342-348.	7.4	92
44	Two-Dimensional Correlation Spectroscopy Study of Temperature-Dependent Spectral Variations of N-Methylacetamide in the Pure Liquid State. 1. Two-Dimensional Infrared Analysis. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8665-8673.	2.9	91
45	Exploring the Effect of Intermolecular H-Bonding: A Study on Charge-Transfer Contribution to Surface-Enhanced Raman Scattering of p-Mercaptobenzoic Acid. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10191-10197.	3.1	91
46	Two-Dimensional Near-Infrared Spectroscopy Study of Human Serum Albumin in Aqueous Solutions: Using Overtones and Combination Modes to Monitor Temperature-Dependent Changes in the Secondary Structure. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5840-5847.	2.6	87
47	Comparison of miscibility and structure of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)/poly(L-lactic acid) blends with those of poly(3-hydroxybutyrate)/poly(L-lactic acid) blends studied by wide angle X-ray diffraction, differential scanning calorimetry, and FTIR microspectroscopy. <i>Polymer</i> , 2007, 48, 1749-1755.	3.8	87
48	A dual colorimetric and SERS detection of Hg ²⁺ based on the stimulus of intrinsic oxidase-like catalytic activity of Ag-CoFe ₂ O ₄ /reduced graphene oxide nanocomposites. <i>Chemical Engineering Journal</i> , 2018, 350, 120-130.	12.7	87
49	Raman microspectroscopy study of structure, dispersibility, and crystallinity of poly(hydroxybutyrate)/poly(L-lactic acid) blends. <i>Polymer</i> , 2006, 47, 3132-3140.	3.8	86
50	Crystal Structures, Thermal Behaviors, and C-H...O Hydrogen Bondings of Poly(3-hydroxyvalerate) and Poly(3-hydroxybutyrate) Studied by Infrared Spectroscopy and X-ray Diffraction. <i>Macromolecules</i> , 2008, 41, 4305-4312.	4.8	85
51	Enantioselective Discrimination of Alcohols by Hydrogen Bonding: A SERS Study. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13866-13870.	13.8	83
52	Analysis of Near-Infrared Spectra of Complicated Biological Fluids by Two-Dimensional Correlation Spectroscopy: Protein and Fat Concentration-Dependent Spectral Changes of Milk. <i>Applied Spectroscopy</i> , 1999, 53, 1582-1594.	2.2	82
53	Crystallization Behaviors of Poly(3-hydroxybutyrate) and Poly(L-lactic acid) in Their Immiscible and Miscible Blends. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24463-24471.	2.6	79
54	Direct observation of the absorption bands of the first electronic transition in liquid H ₂ O and D ₂ O by attenuated total reflectance far-UV spectroscopy. <i>Journal of Chemical Physics</i> , 2008, 129, 234510.	3.0	79

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55	Far-Ultraviolet Spectroscopy in the Solid and Liquid States: A Review. <i>Applied Spectroscopy</i> , 2012, 66, 1-25.	2.2	77
56	Experimental evaluation of the twofold electromagnetic enhancement theory of surface-enhanced resonance Raman scattering. <i>Physical Review B</i> , 2009, 79, .	3.2	75
57	Unsaturated lipid bodies as a hallmark of inflammation studied by Raman 2D and 3D microscopy. <i>Scientific Reports</i> , 2017, 7, 40889.	3.3	75
58	Two-Dimensional Infrared Spectroscopy and Principle Component Analysis Studies of the Secondary Structure and Kinetics of Hydrogen ² Deuterium Exchange of Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6251-6259.	2.6	74
59	SELF-MODELING CURVE RESOLUTION (SMCR): PRINCIPLES, TECHNIQUES, AND APPLICATIONS. <i>Applied Spectroscopy Reviews</i> , 2002, 37, 321-345.	6.7	74
60	Studies on Spectra/Structure Correlations in Near-Infrared Spectra of Proteins and Polypeptides. Part I: A Marker Band for Hydrogen Bonds. <i>Applied Spectroscopy</i> , 1994, 48, 1249-1254.	2.2	73
61	An attenuated total reflectance far-UV spectrometer. <i>Review of Scientific Instruments</i> , 2007, 78, 103107.	1.3	73
62	Crystallization behavior of poly(L-lactic acid) affected by the addition of a small amount of poly(3-hydroxybutyrate). <i>Polymer</i> , 2008, 49, 4204-4210.	3.8	73
63	A spectroscopic and theoretical study in the near-infrared region of low concentration aliphatic alcohols. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13666-13682.	2.8	72
64	Fundamental studies on enhancement and blinking mechanism of surface-enhanced Raman scattering (SERS) and basic applications of SERS biological sensing. <i>Frontiers of Physics</i> , 2014, 9, 31-46.	5.0	71
65	Higher order conformation of poly(3-hydroxyalkanoates) studied by terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	70
66	The formation and characterization of the in vitro polymeric aggregates of bacteriochlorophyllc homologs from <i>Chlorobium limicola</i> in aqueous suspension in the presence of monogalactosyl diglyceride. <i>Photosynthesis Research</i> , 1994, 41, 235-243.	2.9	68
67	FTIR studies of conformational energies of poly(acrylic acid) in cast films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 507-515.	2.1	68
68	Two-Dimensional/Attenuated Total Reflection Infrared Correlation Spectroscopy Studies on Secondary Structural Changes in Human Serum Albumin in Aqueous Solutions: pH-Dependent Structural Changes in the Secondary Structures and in the Hydrogen Bondings of Side Chains. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4763-4769.	2.6	68
69	Molecular structure and hydrogen bonding in pure liquid ethylene glycol and ethylene glycol ² water mixtures studied using NIR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18694.	2.8	68
70	Effect of TiO ₂ on Altering Direction of Interfacial Charge Transfer in a TiO ₂ -Ag ⁺ MPY ⁺ FePc System by SERS. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8172-8176.	13.8	66
71	C ¹³ H ¹⁵ O ¹⁸ Hydrogen Bonding and Isothermal Crystallization Kinetics of Poly(3-hydroxybutyrate) Investigated by Near-Infrared Spectroscopy. <i>Macromolecules</i> , 2006, 39, 3841-3847.	4.8	64
72	Correlations between Structure and Near-Infrared Spectra of Saturated and Unsaturated Carboxylic Acids. Insight from Anharmonic Density Functional Theory Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3437-3451.	2.5	64

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73	A New Possibility of the Generalized Two-Dimensional Correlation Spectroscopy. 2. Sample and Wavenumber-Wavenumber Correlations of Temperature-Dependent Near-Infrared Spectra of Oleic Acid in the Pure Liquid State. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6388-6394.	2.5	63
74	Selective SERS detection of each polycyclic aromatic hydrocarbon (PAH) in a mixture of five kinds of PAHs. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 945-950.	2.5	63
75	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. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9845-9853.	2.5	60
76	pH-Response Mechanism of <i>p</i> -Aminobenzenethiol on Ag Nanoparticles Revealed By Two-Dimensional Correlation Surface-Enhanced Raman Scattering Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3204-3209.	4.6	60
77	Acetic, propionic, and oleic acid as the possible factors influencing the predominant residence of some species of <i>Propionibacterium</i> and coagulase-negative <i>Staphylococcus</i> on normal human skin. <i>Canadian Journal of Microbiology</i> , 1984, 30, 647-652.	1.7	58
78	Attenuated total reflectance-far ultraviolet (ATR-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 $\frac{1}{4}$. <i>Chemical Physics Letters</i> , 2009, 476, 205-208.	2.6	58
79	Highly Sensitive Protein Concentration Assay over a Wide Range via Surface-Enhanced Raman Scattering of Coomassie Brilliant Blue. <i>Analytical Chemistry</i> , 2010, 82, 4325-4328.	6.5	58
80	Quantum Mechanical Interpretation of Intermolecular Vibrational Modes of Crystalline Poly-(<i>R</i>)-3-Hydroxybutyrate Observed in Low-Frequency Raman and Terahertz Spectra. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2180-2187.	2.6	58
81	Direct demonstration for changes in surface plasmon resonance induced by surface-enhanced Raman scattering quenching of dye molecules adsorbed on single Ag nanoparticles. <i>Applied Physics Letters</i> , 2003, 83, 5557-5559.	3.3	57
82	Melt Crystallization and Crystal Transition of Poly(butylene adipate) Revealed by Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3311-3314.	2.6	56
83	Semiconductor-enhanced Raman scattering for highly robust SERS sensing: the case of phosphate analysis. <i>Chemical Communications</i> , 2015, 51, 7641-7644.	4.1	56
84	Effect of Cations on Absorption Bands of First Electronic Transition of Liquid Water. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8319-8322.	2.5	55
85	Terahertz Spectroscopy in Polymer Research: Assignment of Intermolecular Vibrational Modes and Structural Characterization of Poly(3-Hydroxybutyrate). <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 248-258.	3.1	55
86	Site-specific deposition of Ag nanoparticles on ZnO nanorod arrays via galvanic reduction and their SERS applications. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 907-913.	2.5	54
87	Dissociation of dimeric cis-9-octadecenoic acid in its pure liquid state as observed by near-infrared spectroscopic measurement. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3129-3133.	2.9	53
88	Hyper-Rayleigh scattering and hyper-Raman scattering of dye-adsorbed silver nanoparticles induced by a focused continuous-wave near-infrared laser. <i>Applied Physics Letters</i> , 2006, 88, 084102.	3.3	53
89	Single-molecular surface-enhanced resonance Raman scattering as a quantitative probe of local electromagnetic field: The case of strong coupling between plasmonic and excitonic resonance. <i>Physical Review B</i> , 2014, 89, .	3.2	53
90	Potential of Fourier Transform Near-Infrared Spectroscopy in Studies of the Dissociation of Fatty Acids in the Liquid Phase. <i>Applied Spectroscopy</i> , 1993, 47, 2162-2168.	2.2	52

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91	Intermolecular interactions and crystallization behaviors of biodegradable polymer blends between poly(3-hydroxybutyrate) and cellulose acetate butyrate studied by DSC, FT-IR, and WAXD. <i>Polymer</i> , 2011, 52, 461-471.	3.8	51
92	Elucidating Electronic Transitions from $\dot{\sigma}$ Orbitals of Liquid n - and Branched Alkanes by Far-Ultraviolet Spectroscopy and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11957-11964.	2.5	51
93	Consistent changes in electronic states and photocatalytic activities of metal (Au, Pd, Pt)-modified TiO_2 studied by far-ultraviolet spectroscopy. <i>Chemical Communications</i> , 2014, 50, 2117-2119.	4.1	51
94	Near-IR molar absorption coefficient for the OH-stretching mode of cis-9-octadecenoic acid and dissociation of the acid dimers in the pure liquid state. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 697.	1.7	50
95	Low- n Rydberg Transitions of Liquid Ketones Studied by Attenuated Total Reflection Far-Ultraviolet Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 562-568.	2.5	50
96	Contribution of hydrogen bonding to charge-transfer induced surface-enhanced Raman scattering of an intermolecular system comprising p-aminothiophenol and benzoic acid. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3153.	2.8	49
97	Solvent Dependence of Absorption Intensities and Wavenumbers of the Fundamental and First Overtone of NH Stretching Vibration of Pyrrole Studied by Near-Infrared/Infrared Spectroscopy and DFT Calculations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1194-1198.	2.5	48
98	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
99	Temperature Drift of Conformational Equilibria of Butyl Alcohols Studied by Near-Infrared Spectroscopy and Fully Anharmonic DFT. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1950-1961.	2.5	48
100	Resolution Enhancement and Band Assignments for the First Overtone of OH(D) Stretching Modes of Butanols by Two-Dimensional Near-Infrared Correlation Spectroscopy. 3. Thermal Dynamics of Hydrogen Bonding in Butan-1-(ol-d) and 2-Methylpropan-2-(ol-d) in the Pure Liquid States. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4906-4911.	2.5	47
101	Far-Ultraviolet Spectra of n -Alkanes and Branched Alkanes in the Liquid Phase Observed Using an Attenuated Total Reflection Far Ultraviolet (ATR-FUV) Spectrometer. <i>Applied Spectroscopy</i> , 2011, 65, 221-226.	2.2	47
102	Fabrication of a highly sensitive surface-enhanced Raman scattering substrate for monitoring the catalytic degradation of organic pollutants. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13556-13562.	10.3	46
103	A novel reversed reporting agent method for surface-enhanced Raman scattering; highly sensitive detection of glutathione in aqueous solutions. <i>Analyst</i> , 2009, 134, 2468.	3.5	45
104	Intermolecular hydrogen bondings in the poly(3-hydroxybutyrate) and chitin blends: Their effects on the crystallization behavior and crystal structure of poly(3-hydroxybutyrate). <i>Polymer</i> , 2015, 75, 141-150.	3.8	45
105	Synthesis of bifunctional reduced graphene oxide/CuS/Au composite nanosheets for in situ monitoring of a peroxidase-like catalytic reaction by surface-enhanced Raman spectroscopy. <i>RSC Advances</i> , 2016, 6, 54456-54462.	3.6	45
106	Formation and stability of β -structure in biodegradable ultra-high-molecular-weight poly(3-hydroxybutyrate) by infrared, Raman, and quantum chemical calculation studies. <i>Polymer</i> , 2007, 48, 2672-2680.	3.8	44
107	Infrared Spectroscopy and X-ray Diffraction Studies of Thermal Behavior and Lamella Structures of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (P(HB-co-HV)) with PHB-Type Crystal Structure and PHV-Type Crystal Structure. <i>Macromolecules</i> , 2011, 44, 2829-2837.	4.8	44
108	A study on the crystallization behavior of poly(β -hydroxybutyrate) thin films on Si wafers. <i>Polymer</i> , 2011, 52, 3865-3870.	3.8	44

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109	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. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8097.	2.8	44
110	3D SERS Imaging Using Chemically Synthesized Highly Symmetric Nanoporous Silver Microparticles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8391-8395.	13.8	44
111	Spectroscopic and Computational Study of Acetic Acid and Its Cyclic Dimer in the Near-Infrared Region. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6170-6183.	2.5	44
112	Three different kinds of weak C-H \cdots O=C inter- and intramolecular interactions in poly(μ -caprolactone) studied by using terahertz spectroscopy, infrared spectroscopy and quantum chemical calculations. <i>Polymer</i> , 2018, 137, 245-254.	3.8	44
113	NIR SERS detection of immune reaction on gold colloid particles without bound/free antigen separation. <i>Journal of Raman Spectroscopy</i> , 1998, 29, 739-742.	2.5	43
114	Frequencies and absorption intensities of fundamentals and overtones of NH stretching vibrations of pyrrole and pyrrole \cdots pyridine complex studied by near-infrared/infrared spectroscopy and density-functional-theory calculations. <i>Chemical Physics Letters</i> , 2009, 482, 320-324.	2.6	43
115	Nanoscale pH Profile at a Solution/Solid Interface by Chemically Modified Tip-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14663-14668.	3.1	43
116	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.	2.2	42
117	Tip-Enhanced Raman Scattering of the Local Nanostructure of Epitaxial Graphene Grown on 4H-SiC (0001 $\bar{1}$...). <i>Journal of Physical Chemistry C</i> , 2014, 118, 25809-25815.	3.1	42
118	Infrared Spectroscopy \hat{e} Mid-infrared, Near-infrared, and Far-infrared/Terahertz Spectroscopy. <i>Analytical Sciences</i> , 2021, 37, 1193-1212.	1.6	42
119	Study on the Phase Transition Behavior of Poly(butylene adipate) in its Blends with Poly(vinyl phenol). <i>Journal of Physical Chemistry B</i> , 2011, 115, 1950-1957.	2.6	41
120	Electronic transitions in liquid amides studied by using attenuated total reflection far-ultraviolet spectroscopy and quantum chemical calculations. <i>Journal of Chemical Physics</i> , 2013, 139, 154301.	3.0	41
121	Sample \hat{e} Sample and Wavenumber \hat{e} Wavenumber Two-Dimensional Correlation Analyses of Attenuated Total Reflection Infrared Spectra of Polycondensation Reaction of Bis(Hydroxyethyl terephthalate). <i>Analytical Chemistry</i> , 2001, 73, 5184-5190.	6.5	40
122	Investigations of bagged kernel partial least squares (KPLS) and boosting KPLS with applications to near-infrared (NIR) spectra. <i>Journal of Chemometrics</i> , 2006, 20, 436-444.	1.3	40
123	A study on the interaction of single-walled carbon nanotubes (SWCNTs) and polystyrene (PS) at the interface in SWCNT \hat{e} PS nanocomposites using tip-enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20618.	2.8	40
124	Application of a newly developed portable NIR imaging device to monitor the dissolution process of tablets. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9401-9409.	3.7	40
125	Significant enhancement of photocatalytic activity of rutile TiO \langle sub \rangle 2 \langle sub \rangle compared with anatase TiO \langle sub \rangle 2 \langle sub \rangle upon Pt nanoparticle deposition studied by far-ultraviolet spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7749-7753.	2.8	40
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