

# Keisuke Tominaga

## List of Publications by Citations

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93  
papers

2,122  
citations

26  
h-index

42  
g-index

109  
ext. papers

2,419  
ext. citations

4.4  
avg, IF

4.67  
L-index

#	Paper	IF	Citations
93	Effects of the Solvent Dynamics and Vibrational Motions in Electron Transfer. <i>Bulletin of the Chemical Society of Japan</i> , <b>1995</b> , 68, 696-712	5.1	180
92	Femtosecond experiments and absolute rate calculations on intervalence electron transfer of mixed-valence compounds. <i>Journal of Chemical Physics</i> , <b>1993</b> , 98, 1228-1243	3.9	151
91	Ultrafast charge separation in ADMA: experiment, simulation, and theoretical issues. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 10475-10485		113
90	Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. <i>Chemical Reviews</i> , <b>2020</b> , 120, 7152-7218	68.1	87
89	Terahertz time-domain spectroscopy of amino acids and polypeptides. <i>Biophysical Journal</i> , <b>2005</b> , 89, L22-4	2.9	71
88	Observation of homogeneous vibrational dephasing in benzonitrile by ultrafast Raman echoes. <i>Chemical Physics Letters</i> , <b>1993</b> , 211, 183-188	2.5	67
87	Substituent effects on intermolecular electron transfer: coumarins in electron-donating solvents. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 7922-7923	16.4	64
86	Vibrational dynamics of hydrogen-bonded complexes in solutions studied with ultrafast infrared pump-probe spectroscopy. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 1259-69	24.3	57
85	A chemically induced dynamic electron polarization study on the acetone ketyl radical and radical pair in an alcohol solution. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 5175-5185	3.9	54
84	Temperature dependence of the CIDEP spectrum of acetone. <i>Journal of Chemical Physics</i> , <b>1988</b> , 88, 553-562	3.6	54
83	Vibrational Population Relaxation and Dephasing Dynamics of Fe(CN) <sub>6</sub> <sup>4-</sup> in D <sub>2</sub> O with Third-Order Nonlinear Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 1333-1341	2.8	43
82	Excitation wavelength dependence of solvation dynamics of coumarin 480 in a lipid vesicle. <i>Chemical Physics Letters</i> , <b>2005</b> , 411, 339-344	2.5	42
81	Terahertz time-domain spectroscopy of sulfur-containing biomolecules. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2005</b> , 22, 2417	1.7	40
80	Probing the Spectral Diffusion of Vibrational Transitions of OCN <sup>-</sup> and SCN <sup>-</sup> in Methanol by Three-Pulse Infrared Photon Echo Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 5643-5649	2.8	40
79	Excitation Wavelength Dependence of Solvation Dynamics in a Water Pool of a Reversed Micelle. <i>Chemistry Letters</i> , <b>2004</b> , 33, 1090-1091	1.7	40
78	Vibrational population relaxation of thiocyanate ion in polar solvents studied by ultrafast infrared spectroscopy. <i>Chemical Physics Letters</i> , <b>2006</b> , 429, 136-140	2.5	38
77	Analysis of vibrational spectra of solid-state adenine and adenosine in the terahertz region. <i>RSC Advances</i> , <b>2014</b> , 4, 269-278	3.7	37

76	Terahertz spectroscopy and solid-state density functional theory calculation of anthracene: effect of dispersion force on the vibrational modes. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 174509	3.9	35
75	Mixing of intermolecular and intramolecular vibrations in optical phonon modes: terahertz spectroscopy and solid-state density functional theory. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2016</b> , 6, 386-409	7.9	34
74	Vibrational population relaxation and dephasing dynamics of Fe(CN) <sub>6</sub> <sup>4-</sup> in water: deuterium isotope effect of solvents. <i>Chemical Physics Letters</i> , <b>2004</b> , 386, 32-37	2.5	32
73	A femtosecond study of excitation-wavelength dependence of solvation dynamics in a vesicle. <i>Chemistry - an Asian Journal</i> , <b>2006</b> , 1, 188-94	4.5	31
72	Vibrational frequency fluctuation of ions in aqueous solutions studied by three-pulse infrared photon echo method. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 1982-91	24.3	30
71	Ultrafast vibrational dynamics of SCN(-) and N3(-) in polar solvents studied by nonlinear infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10455-65	3.6	29
70	Intramolecular vibrations in low-frequency normal modes of amino acids: L-alanine in the neat solid state. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 3008-22	2.8	28
69	Spectral diffusion of the anti-symmetric stretching mode of azide ion in a reverse micelle studied by infrared three-pulse photon echo method. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 4074	3.6	28
68	Broadband Dielectric Spectroscopy on Lysozyme in the Sub-Gigahertz to Terahertz Frequency Regions: Effects of Hydration and Thermal Excitation. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4743-55	3.4	28
67	Low-frequency spectra of metallocenium ionic liquids studied by terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 1313-9	2.8	26
66	Vibrational population relaxation of hydrogen-bonded phenol complexes in solution: Investigation by ultrafast infrared pump-probe spectroscopy. <i>Chemical Physics</i> , <b>2007</b> , 341, 310-319	2.3	25
65	Low-frequency spectra of the hexamethylbenzene/tetracyanoethylene electron donor-acceptor complexes in solution studied by terahertz time-domain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 1945-52	3.6	25
64	Low-Frequency Spectra of Amino Acids and Short-Chain Peptides Studied by Terahertz Time-Domain Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2010</b> , 31, 799-809	2.2	24
63	Temperature dependence of vibrational frequency fluctuation of N(3) (-) in D(2)O. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 014505	3.9	23
62	Ultrafast dynamics of the carbonyl stretching vibration in acetic acid in aqueous solution studied by sub-picosecond infrared spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2008</b> , 112, 4170-5	2.8	23
61	Vibrational dynamics of the CO stretching mode of 9-fluorenone in alcohol solution. <i>Chemical Physics Letters</i> , <b>2007</b> , 450, 44-48	2.5	23
60	Elucidation of Chiral Symmetry Breaking in a Racemic Polymer System with Terahertz Vibrational Spectroscopy and Crystal Orbital Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4671-4676	6.4	22
59	Dynamical Interactions between Solute and Solvent Studied by Three-Pulse Photon Echo Method. <i>Bulletin of the Chemical Society of Japan</i> , <b>2005</b> , 78, 1581-1594	5.1	22

58	Characteristics of Low-Frequency Molecular Phonon Modes Studied by THz Spectroscopy and Solid-State ab Initio Theory: Polymorphs I and III of Diflunisal. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1698-710	3.4	21
57	Application of THz Vibrational Spectroscopy to Molecular Characterization and the Theoretical Fundamentals: An Illustration Using Saccharide Molecules. <i>Chemistry - an Asian Journal</i> , <b>2017</b> , 12, 324-334 <sup>5</sup>	4.5	21
56	Mode assignment of vibrational bands of 2-furoic acid in the terahertz frequency region. <i>Chemical Physics Letters</i> , <b>2010</b> , 498, 86-89	2.5	20
55	Ultrafast vibrational dynamics and solvation complexes of methyl acetate in methanol studied by sub-picosecond infrared spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2008</b> , 39, 1531-1537	2.3	20
54	Probing Charge Carrier Dynamics in Porphyrin-Based Organic Semiconductor Thin Films by Time-Resolved THz Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10157-10165	3.4	17
53	Obtaining low-frequency spectra of acetone dissolved in cyclohexane by terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 8235-42	2.8	16
52	Temperature and hydration dependence of low-frequency spectra of poly-L-glutamic acid with different secondary structures studied by terahertz time-domain spectroscopy. <i>Soft Matter</i> , <b>2012</b> , 8, 1997-2006	3.6	15
51	Low-frequency dynamics of bacteriorhodopsin studied by terahertz time-domain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 10255-62	3.6	15
50	Terahertz time-domain spectroscopy of poly-L-lysine. <i>Biopolymers</i> , <b>2010</b> , 93, 735-9	2.2	15
49	Vibrational dynamics of azide-derivatized amino acids studied by nonlinear infrared spectroscopy. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 212418	3.9	14
48	Structural changes of poly-L-lysine in solution and lyophilized form. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 5042-4	3.6	14
47	Real-Time Monitoring of the Transesterification of Soybean Oil and Methanol by Fourier-Transform Infrared Spectroscopy. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 5957-5961	4.1	13
46	Vibrational Mode Assignment in the Terahertz Frequency Region by Isotope Shift: Anthracene in Solid State. <i>Bulletin of the Chemical Society of Japan</i> , <b>2013</b> , 86, 714-720	5.1	12
45	Generation of 55 fs-Mid-Infrared Pulses with a 300 cm <sup>-1</sup> -Spectral Width and $\mu$ J-Pulse Energy. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, L329-L331	1.4	12
44	Intermolecular vibrational mode of the benzoic acid dimer in solution observed by terahertz time-domain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14742-9	3.6	11
43	Effect of Temperature and Hydration Level on Purple Membrane Dynamics Studied Using Broadband Dielectric Spectroscopy from Sub-GHz to THz Regions. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1367-1377	3.4	10
42	Low-frequency Spectra of a Phospholipid Bilayer Studied by Terahertz Time-domain Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2014</b> , 35, 147-157	2.2	10
41	Conduction in polyaniline emeraldine salt in the terahertz region: A temperature dependence study. <i>Chemical Physics Letters</i> , <b>2014</b> , 598, 39-42	2.5	10

40	Terahertz spectroscopy of polar solute molecules in non-polar solvents. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 4606-4609	3.9	10
39	Temperature-Dependent Conductivity of Graphene Oxide and Graphene Oxide-Polyaniline Nanocomposites Studied by Terahertz Time-Domain Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 1442-1448	3.8	9
38	Temperature and Hydration Dependence of Low-Frequency Spectra of Lipid Bilayers Studied by Terahertz Time-Domain Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 9359-68	3.4	9
37	Photophysical properties of triphyrin(2.1.1) investigated by time-resolved fluorescence measurements. <i>Chemical Physics Letters</i> , <b>2011</b> , 513, 67-71	2.5	9
36	Subpicosecond UV-pump and IR-probe Spectroscopy of 9-Fluorenone in Deuterated Acetonitrile and Methanol. <i>Chemistry Letters</i> , <b>2010</b> , 39, 932-934	1.7	9
35	Dependence of low frequency spectra on solute and solvent in solutions studied by terahertz time-domain spectroscopy. <i>Molecular Physics</i> , <b>2009</b> , 107, 1845-1854	1.7	8
34	Concentration Dependence of the Fifth-Order Two-Dimensional Raman Signal. <i>Journal of the Chinese Chemical Society</i> , <b>2000</b> , 47, 631-635	1.5	8
33	Chemically Induced Dynamic Electron Polarization Studies of Photochemical Reactions: Acetone in 2-Propanol and Triethylamine. <i>Bulletin of the Chemical Society of Japan</i> , <b>1995</b> , 68, 2997-3010	5.1	8
32	Comparison of vibrational dynamics between non-ionic and ionic vibrational probes in water: Experimental study with two-dimensional infrared and infrared pump-probe spectroscopies. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 114503	3.9	8
31	Time-resolved fluorescence spectroscopy study of excited state dynamics of alkyl- and benzo-substituted triphyrin(2.1.1). <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 13129-35	3.6	7
30	Vibrational Transition Frequency Fluctuation of the NO Stretching Mode of Sodium Nitroprusside in Aqueous Solutions. <i>Chemistry Letters</i> , <b>2012</b> , 41, 366-368	1.7	7
29	Vibrational dynamics of acetate in D2O studied by infrared pump-probe spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 6359-66	3.6	7
28	Analysis of the radical decay in a magnetic field by stochastic-Liouville equation. <i>Chemical Physics Letters</i> , <b>1991</b> , 179, 35-40	2.5	7
27	Theoretical investigation on vibrational frequency fluctuations of SCN-derivatized vibrational probe molecule in water. <i>Chemical Physics</i> , <b>2018</b> , 512, 82-87	2.3	6
26	Investigation of Two-Dimensional Vibrational Spectrum by a Diagrammatic Approach. <i>Bulletin of the Chemical Society of Japan</i> , <b>2001</b> , 74, 279-286	5.1	6
25	High-Resolution THz Spectroscopy and Solid-State Density Functional Theory Calculations of Polycyclic Aromatic Hydrocarbons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 1378-1392	3.2	6
24	Effects of Non-covalent Interactions on Molecular and Polymer Individuality in Crystals Studied by THz Spectroscopy and Solid-State Density Functional Theory <b>2019</b> , 459-495		5
23	Theoretical Modeling of Electronic Structures of Polyiodide Species Included in $\beta$ -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 4089-4096	3.4	5

22	Vibrational dynamics of the CO stretching of 9-fluorenone studied by visible-pump and infrared-probe spectroscopy. <i>Faraday Discussions</i> , <b>2015</b> , 177, 65-75	3.6	5
21	Vibrational dynamics of the CN stretching mode of [Ru(CN) <sub>6</sub> ] <sup>4-</sup> in D <sub>2</sub> O studied by nonlinear infrared spectroscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2010</b> , 53, 1013-1019	3.6	5
20	Vibrational frequency fluctuations of ionic vibrational probe in water: Theoretical study with molecular dynamics simulation. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 547-552	2.5	4
19	Charge-carrier dynamics in benzoporphyrin films investigated by time-resolved terahertz spectroscopy. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 183302	3.4	4
18	Low-frequency vibration study of amino acids using terahertz spectroscopy and solid-state density functional theory <b>2014</b> ,		4
17	Theoretical and experimental studies on vibrational energy relaxation of the CO stretching mode of acetone in alcohol solutions. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 4723-31	3.4	4
16	A Quantitative Interpretation for the Difference of Terahertz Spectra of dl- and l-Alanine: Origins of Infrared Intensities in Terahertz Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 16175-16182	3.8	4
15	Terahertz Fingerprints of Short-Range Correlations of Disordered Atoms in Diflunisal. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 4555-4564	2.8	3
14	Temperature Dependence of THz Conductivity in Polyaniline Emeraldine Salt-Polyethylene Pellets. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 258-264	2.2	3
13	Conducting Properties of Polyaniline in the THz Region: Investigations of Various Processing Conditions. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2017</b> , 38, 885-895	2.2	2
12	Broadband dielectric spectroscopy from sub GHz to THz of hydrated lipid bilayer of DMPC. <i>European Physical Journal E</i> , <b>2019</b> , 42, 139	1.5	2
11	Solute-Solvent Interactions of Benzonitrile in Solutions Studied by Sub-Picosecond Infrared Pump-Probe Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , <b>2014</b> , 87, 470-478	5.1	2
10	Vibrational dephasing of the $\nu_{\text{CN}}$ anti-symmetric stretching mode of carbodiimide studied by infrared photon echo method. <i>Journal of Molecular Structure</i> , <b>2005</b> , 735-736, 135-143	3.4	2
9	Vibrational Dynamics in Porous Silica Glasses Studied by Time-Resolved Coherent Anti-Stokes Raman Scattering. <i>ACS Symposium Series</i> , <b>2002</b> , 160-168	0.4	2
8	Development of two-dimensional Raman spectroscopy by higher-order optical nonlinear spectroscopy. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 101-104	3.8	2
7	Terahertz Spectroscopic Measurements and Solid-State Density Functional Calculations on CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskites: Short-Range Order of Methylammonium. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 339-348	3.8	2
6	Dynamic behavior of photogenerated charge carriers in diketopyrrolopyrrole-linked tetrabenzoporphyrin-based bulk heterojunction thin films probed with time-resolved terahertz spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 400, 112693	4.7	1
5	Vibrational Frequency Fluctuations of Ionic and Non-ionic Vibrational Probe Molecules in Aqueous Solutions. <i>Springer Series in Optical Sciences</i> , <b>2019</b> , 259-285	0.5	1

4	Molecular Mechanism of Acceleration and Retardation of Collective Orientation Relaxation of Water Molecules in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 11730-11737	3.4	1
3	Temperature Dependence of THz Conductivities of Polyaniline Emeraldine Salt/Bentonite Pellets <b>2018</b> ,		1
2	Rotational Dynamics of Solutes with Multiple Single Bond Axes Studied by Infrared Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 946-954	2.8	
1	Stochastic-Liouville approach to optically induced electron transfer: electronic coherence in the reaction dynamics. <i>Journal of Raman Spectroscopy</i> , <b>2000</b> , 31, 137-144	2.3	