

Keisuke Tominaga

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Terahertz Spectroscopic Measurements and Solid-State Density Functional Calculations on CH ₃ NH ₃ PbBr ₃ Perovskites: Short-Range Order of Methylammonium. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 339-348	3.8	2
92	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> , 2021 , 125, 16175-16182	3.8	4
91	Theoretical Modeling of Electronic Structures of Polyiodide Species Included in β -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4089-4096	3.4	5
90	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> , 2020 , 400, 112693	4.7	1
89	Vibrational Spectroscopic Map, Vibrational Spectroscopy, and Intermolecular Interaction. <i>Chemical Reviews</i> , 2020 , 120, 7152-7218	68.1	87
88	Temperature Dependence of THz Conductivity in Polyaniline Emeraldine Salt-Polyethylene Pellets. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 258-264	2.2	3
87	Molecular Mechanism of Acceleration and Retardation of Collective Orientation Relaxation of Water Molecules in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11730-11737	3.4	1
86	High-Resolution THz Spectroscopy and Solid-State Density Functional Theory Calculations of Polycyclic Aromatic Hydrocarbons. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1378-1392	2.2	6
85	Effects of Non-covalent Interactions on Molecular and Polymer Individuality in Crystals Studied by THz Spectroscopy and Solid-State Density Functional Theory 2019 , 459-495		5
84	Terahertz Fingerprints of Short-Range Correlations of Disordered Atoms in Diflunisal. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 4555-4564	2.8	3
83	Broadband dielectric spectroscopy from sub GHz to THz of hydrated lipid bilayer of DMPC. <i>European Physical Journal E</i> , 2019 , 42, 139	1.5	2
82	Vibrational Frequency Fluctuations of Ionic and Non-ionic Vibrational Probe Molecules in Aqueous Solutions. <i>Springer Series in Optical Sciences</i> , 2019 , 259-285	0.5	1
81	Rotational Dynamics of Solutes with Multiple Single Bond Axes Studied by Infrared Pump-Probe Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 946-954	2.8	
80	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> , 2018 , 122, 1367-1377	3.4	10
79	Theoretical investigation on vibrational frequency fluctuations of SCN-derivatized vibrational probe molecule in water. <i>Chemical Physics</i> , 2018 , 512, 82-87	2.3	6
78	Temperature Dependence of THz Conductivities of Polyaniline Emeraldine Salt/Bentonite Pellets 2018 ,		1
77	Temperature-Dependent Conductivity of Graphene Oxide and Graphene Oxide-Polyaniline Nanocomposites Studied by Terahertz Time-Domain Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 1442-1448	3.8	9

76	Conducting Properties of Polyaniline in the THz Region: Investigations of Various Processing Conditions. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017 , 38, 885-895	2.2	2
75	Vibrational frequency fluctuations of ionic vibrational probe in water: Theoretical study with molecular dynamics simulation. <i>Chemical Physics Letters</i> , 2017 , 683, 547-552	2.5	4
74	Probing Charge Carrier Dynamics in Porphyrin-Based Organic Semiconductor Thin Films by Time-Resolved THz Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10157-10165	3.4	17
73	Application of THz Vibrational Spectroscopy to Molecular Characterization and the Theoretical Fundamentals: An Illustration Using Saccharide Molecules. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 324-334	4.5	21
72	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> , 2016 , 7, 4671-4676	6.4	22
71	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> , 2016 , 120, 1698-710	3.4	21
70	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> , 2016 , 145, 114503	3.9	8
69	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> , 2016 , 6, 386-409	7.9	34
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> , 2016 , 120, 4743-55	3.4	28
67	Intramolecular vibrations in low-frequency normal modes of amino acids: L-alanine in the neat solid state. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 3008-22	2.8	28
66	Charge-carrier dynamics in benzoporphyrin films investigated by time-resolved terahertz spectroscopy. <i>Applied Physics Letters</i> , 2015 , 107, 183302	3.4	4
65	Vibrational dynamics of azide-derivatized amino acids studied by nonlinear infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2015 , 142, 212418	3.9	14
64	Vibrational dynamics of the CO stretching of 9-fluorenone studied by visible-pump and infrared-probe spectroscopy. <i>Faraday Discussions</i> , 2015 , 177, 65-75	3.6	5
63	Temperature and Hydration Dependence of Low-Frequency Spectra of Lipid Bilayers Studied by Terahertz Time-Domain Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9359-68	3.4	9
62	Low-frequency Spectra of a Phospholipid Bilayer Studied by Terahertz Time-domain Spectroscopy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014 , 35, 147-157	2.2	10
61	Analysis of vibrational spectra of solid-state adenine and adenosine in the terahertz region. <i>RSC Advances</i> , 2014 , 4, 269-278	3.7	37
60	Time-resolved fluorescence spectroscopy study of excited state dynamics of alkyl- and benzo-substituted triphyrin(2.1.1). <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13129-35	3.6	7
59	SoluteSolvent Interactions of Benzonitrile in Solutions Studied by Sub-Picosecond Infrared PumpProbe Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 470-478	5.1	2

58	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> , 2014 , 140, 174509	3.9	35
57	Low-frequency vibration study of amino acids using terahertz spectroscopy and solid-state density functional theory 2014 ,		4
56	Conduction in polyaniline emeraldine salt in the terahertz region: A temperature dependence study. <i>Chemical Physics Letters</i> , 2014 , 598, 39-42	2.5	10
55	Real-Time Monitoring of the Transesterification of Soybean Oil and Methanol by Fourier-Transform Infrared Spectroscopy. <i>Energy & Fuels</i> , 2013 , 27, 5957-5961	4.1	13
54	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> , 2013 , 117, 4723-31	3.4	4
53	Vibrational Mode Assignment in the Terahertz Frequency Region by Isotope Shift: Anthracene in Solid State. <i>Bulletin of the Chemical Society of Japan</i> , 2013 , 86, 714-720	5.1	12
52	Vibrational Transition Frequency Fluctuation of the NO Stretching Mode of Sodium Nitroprusside in Aqueous Solutions. <i>Chemistry Letters</i> , 2012 , 41, 366-368	1.7	7
51	Vibrational frequency fluctuation of ions in aqueous solutions studied by three-pulse infrared photon echo method. <i>Accounts of Chemical Research</i> , 2012 , 45, 1982-91	24.3	30
50	Vibrational dynamics of acetate in D2O studied by infrared pump-probe spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 6359-66	3.6	7
49	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> , 2012 , 8, 1997-2006	3.6	15
48	Ultrafast vibrational dynamics of SCN(-) and N3(-) in polar solvents studied by nonlinear infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10455-65	3.6	29
47	Intermolecular vibrational mode of the benzoic acid dimer in solution observed by terahertz time-domain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14742-9	3.6	11
46	Photophysical properties of triphyrin(2.1.1) investigated by time-resolved fluorescence measurements. <i>Chemical Physics Letters</i> , 2011 , 513, 67-71	2.5	9
45	Low-frequency spectra of metallocenium ionic liquids studied by terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 1313-9	2.8	26
44	Temperature dependence of vibrational frequency fluctuation of N(3) (-) in D(2)O. <i>Journal of Chemical Physics</i> , 2010 , 133, 014505	3.9	23
43	Low-frequency dynamics of bacteriorhodopsin studied by terahertz time-domain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10255-62	3.6	15
42	Subpicosecond UV-pump and IR-probe Spectroscopy of 9-Fluorenone in Deuterated Acetonitrile and Methanol. <i>Chemistry Letters</i> , 2010 , 39, 932-934	1.7	9
41	Vibrational dynamics of the CN stretching mode of [Ru(CN)6]4- in D2O studied by nonlinear infrared spectroscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010 , 53, 1013-1019	3.6	5

40	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> , 2010 , 31, 799-809	2.2	24
39	Terahertz time-domain spectroscopy of poly-L-lysine. <i>Biopolymers</i> , 2010 , 93, 735-9	2.2	15
38	Mode assignment of vibrational bands of 2-furoic acid in the terahertz frequency region. <i>Chemical Physics Letters</i> , 2010 , 498, 86-89	2.5	20
37	Dependence of low frequency spectra on solute and solvent in solutions studied by terahertz time-domain spectroscopy. <i>Molecular Physics</i> , 2009 , 107, 1845-1854	1.7	8
36	Obtaining low-frequency spectra of acetone dissolved in cyclohexane by terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8235-42	2.8	16
35	Vibrational dynamics of hydrogen-bonded complexes in solutions studied with ultrafast infrared pump-probe spectroscopy. <i>Accounts of Chemical Research</i> , 2009 , 42, 1259-69	24.3	57
34	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> , 2008 , 112, 4170-5	2.8	23
33	Structural changes of poly-L-lysine in solution and lyophilized form. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5042-4	3.6	14
32	Ultrafast vibrational dynamics and solvation complexes of methyl acetate in methanol studied by sub-picosecond infrared spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1531-1537	2.3	20
31	Vibrational dynamics of the CO stretching mode of 9-fluorenone in alcohol solution. <i>Chemical Physics Letters</i> , 2007 , 450, 44-48	2.5	23
30	Vibrational population relaxation of hydrogen-bonded phenol complexes in solution: Investigation by ultrafast infrared pump-probe spectroscopy. <i>Chemical Physics</i> , 2007 , 341, 310-319	2.3	25
29	Terahertz spectroscopy of polar solute molecules in non-polar solvents. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 4606-4609	3.9	10
28	Vibrational population relaxation of thiocyanate ion in polar solvents studied by ultrafast infrared spectroscopy. <i>Chemical Physics Letters</i> , 2006 , 429, 136-140	2.5	38
27	A femtosecond study of excitation-wavelength dependence of solvation dynamics in a vesicle. <i>Chemistry - an Asian Journal</i> , 2006 , 1, 188-94	4.5	31
26	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> , 2005 , 7, 1945-52	3.6	25
25	Terahertz time-domain spectroscopy of sulfur-containing biomolecules. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 2417	1.7	40
24	Terahertz time-domain spectroscopy of amino acids and polypeptides. <i>Biophysical Journal</i> , 2005 , 89, L22-4	2.9	71
23	Dynamical Interactions between Solute and Solvent Studied by Three-Pulse Photon Echo Method. <i>Bulletin of the Chemical Society of Japan</i> , 2005 , 78, 1581-1594	5.1	22

22	Vibrational dephasing of the $\text{N}(\text{CN})_2$ anti-symmetric stretching mode of carbodiimide studied by infrared photon echo method. <i>Journal of Molecular Structure</i> , 2005 , 735-736, 135-143	3.4	2
21	Excitation wavelength dependence of solvation dynamics of coumarin 480 in a lipid vesicle. <i>Chemical Physics Letters</i> , 2005 , 411, 339-344	2.5	42
20	Vibrational population relaxation and dephasing dynamics of $\text{Fe}(\text{CN})_6^{4-}$ in water: deuterium isotope effect of solvents. <i>Chemical Physics Letters</i> , 2004 , 386, 32-37	2.5	32
19	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> , 2004 , 6, 4074	3.6	28
18	Vibrational Population Relaxation and Dephasing Dynamics of $\text{Fe}(\text{CN})_6^{4-}$ in D_2O with Third-Order Nonlinear Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 1333-1341	2.8	43
17	Excitation Wavelength Dependence of Solvation Dynamics in a Water Pool of a Reversed Micelle. <i>Chemistry Letters</i> , 2004 , 33, 1090-1091	1.7	40
16	Probing the Spectral Diffusion of Vibrational Transitions of OCN^- and SCN^- in Methanol by Three-Pulse Infrared Photon Echo Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 5643-5649	2.8	40
15	Generation of 55 fs-Mid-Infrared Pulses with a 300 cm^{-1} -Spectral Width and μJ -Pulse Energy. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L329-L331	1.4	12
14	Vibrational Dynamics in Porous Silica Glasses Studied by Time-Resolved Coherent Anti-Stokes Raman Scattering. <i>ACS Symposium Series</i> , 2002 , 160-168	0.4	2
13	Investigation of Two-Dimensional Vibrational Spectrum by a Diagrammatic Approach. <i>Bulletin of the Chemical Society of Japan</i> , 2001 , 74, 279-286	5.1	6
12	Concentration Dependence of the Fifth-Order Two-Dimensional Raman Signal. <i>Journal of the Chinese Chemical Society</i> , 2000 , 47, 631-635	1.5	8
11	Stochastic-Liouville approach to optically induced electron transfer: electronic coherence in the reaction dynamics. <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 137-144	2.3	
10	Development of two-dimensional Raman spectroscopy by higher-order optical nonlinear spectroscopy. <i>Journal of Luminescence</i> , 2000 , 87-89, 101-104	3.8	2
9	Effects of the Solvent Dynamics and Vibrational Motions in Electron Transfer. <i>Bulletin of the Chemical Society of Japan</i> , 1995 , 68, 696-712	5.1	180
8	Chemically Induced Dynamic Electron Polarization Studies of Photochemical Reactions: Acetone in 2-Propanol and Triethylamine. <i>Bulletin of the Chemical Society of Japan</i> , 1995 , 68, 2997-3010	5.1	8
7	Substituent effects on intermolecular electron transfer: coumarins in electron-donating solvents. <i>Journal of the American Chemical Society</i> , 1993 , 115, 7922-7923	16.4	64
6	Femtosecond experiments and absolute rate calculations on intervalence electron transfer of mixed-valence compounds. <i>Journal of Chemical Physics</i> , 1993 , 98, 1228-1243	3.9	151
5	Observation of homogeneous vibrational dephasing in benzonitrile by ultrafast Raman echoes. <i>Chemical Physics Letters</i> , 1993 , 211, 183-188	2.5	67

4	Ultrafast charge separation in ADMA: experiment, simulation, and theoretical issues. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 10475-10485		113
3	Analysis of the radical decay in a magnetic field by stochastic-Liouville equation. <i>Chemical Physics Letters</i> , 1991 , 179, 35-40	2.5	7
2	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> , 1990 , 92, 5175-5185	3.9	54
1	Temperature dependence of the CIDEP spectrum of acetone. <i>Journal of Chemical Physics</i> , 1988 , 88, 553-562	3.9	54