Yoshifumi Kimura

List of Publications by Year
in descending order

93	1,626	279487 23	377514 34
papers	citations	h-index	g-index

96	96	96	1118
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Excited State Intramolecular Proton Transfer Reaction of 4â€²-N,N-Diethylamino-3-hydroxyflavone and Solvation Dynamics in Room Temperature Ionic Liquids Studied by Optical Kerr Gate Fluorescence Measurement. Journal of Physical Chemistry B, 2010, 114, 11847-11858.	1.2	79
2	Comparative Study on the Structural, Optical, and Electrochemical Properties of Bithiopheneâ€Fused Benzo[c]phospholes. Chemistry - A European Journal, 2008, 14, 8102-8115.	1.7	75
3	Raman Spectroscopic Study on Solvation of Diphenylcyclopropenone and Phenol Blue in Room Temperature Ionic Liquids. Journal of Physical Chemistry A, 2006, 110, 6164-6172.	1.1	52
4	Synthesis and Structureâ€“Property Relationships of 2,2â€²â€Bis(benzo[b]phosphole) and 2,2â€²â€Benzo[b]phospholeâ€“Benzo[b]heterole Hybrid Ï€ Systems. Chemistry - A European Journal, 2012, 18, 15972-15983.	1.7	52
5	Solvent and Solvent Density Effects on the Spectral Shifts and the Bandwidths of the Absorption and the Resonance Raman Spectra of Phenol Blue. Journal of Physical Chemistry A, 1997, 101, 9050-9060.	1.1	49
6	Comparison of 2-Arylnaphtho[2,3-b]phospholes and 2-Arylbenzo[b]phospholes: Effects of 2-Aryl Groups and Fused Arene Moieties on Their Optical and Photophysical Properties. Journal of Organic Chemistry, 2015, 80, 5944-5950.	1.7	46
7	Chemical equilibrium in fluids from the gaseous to liquid states: Solvent density dependence of the dimerization equilibrium of 2â€methylâ€2â€nitrosopropane in carbon dioxide, chlorotrifluoromethane, and trifluoromethane. Journal of Chemical Physics, 1992, 96, 3085-3091.	1.2	45
8	Excitation Wavelength Dependence of Excited State Intramolecular Proton Transfer Reaction of 4â€²-N,N-Diethylamino-3-hydroxyflavone in Room Temperature Ionic Liquids Studied by Optical Kerr Gate Fluorescence Measurement. Journal of Physical Chemistry B, 2013, 117, 12567-12582.	1.2	41
9	Ab Initio Study on an Excited-State Intramolecular Proton-Transfer Reaction in Ionic Liquid. Journal of Physical Chemistry B, 2013, 117, 6759-6767.	1.2	41
10	The role of the attractive and the repulsive interactions in the nonpolar solvation dynamics in simple fluids from the gas-like to the liquid-like densities. Journal of Chemical Physics, 1999, 111, 4169-4185.	1.2	40
11	Chemical reaction in medium density fluid. Solvent density effects on the dimerization equilibrium of 2â€methylâ€2â€nitrosopropane in carbon dioxide. Journal of Chemical Physics, 1989, 90, 5679-5686.	1.2	37
12	Effect of solvent density and species on static and dynamic fluorescence Stokes shifts of coumarin 153. Journal of Chemical Physics, 1999, 111, 5474-5484.	1.2	37
13	Raman Spectroscopic Study on the Solvation of N,N-Dimethyl-p-nitroaniline in Room-Temperature Ionic Liquids. Journal of Physical Chemistry A, 2007, 111, 7081-7089.	1.1	36
14	Solvent Effects on the Local Structure of p-Nitroaniline in Supercritical Water and Supercritical Alcohols. Journal of Physical Chemistry A, 2008, 112, 5515-5526.	1.1	34
15	Preparation of Gold Nanoparticles by the Laser Ablation in Room-temperature Ionic Liquids. Chemistry Letters, 2007, 36, 1130-1131.	0.7	33
16	Chemical equilibrium in simple fluids: Solvent density dependence of the dimerization equilibrium of 2â€methylâ€2â€nitrosopropane in argon and xenon. Journal of Chemical Physics, 1992, 96, 3824-3829.	1.2	32
17	Solvation state selective excitation in resonance Raman spectroscopy. I. Experimental study on the C=N and the C=O stretching modes of phenol blue. Journal of Chemical Physics, 1998, 109, 9075-9083.	1.2	32
18	Synthesis of 2-Alkenyl- and 2-Alkynyl-benzo[b]phospholes by Using Palladium-Catalyzed Cross-Coupling Reactions. Organic Letters, 2013, 15, 4458-4461.	2.4	31

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19	Translational diffusion of hydrophobic solutes in supercritical water studied by molecular dynamics simulations. Journal of Chemical Physics, 2003, 119, 7328-7334.	1.2	29
20	Universality of Viscosity Dependence of Translational Diffusion Coefficients of Carbon Monoxide, Diphenylacetylene, and Diphenylcyclopropenone in Ionic Liquids under Various Conditions. Journal of Physical Chemistry B, 2015, 119, 8096-8103.	1.2	29
21	Study on the excited state intramolecular proton transfer of 4â€²-N,N-diethylamino-3-hydroxyflavone in imidazolium-based room temperature ionic liquids. Chemical Physics Letters, 2008, 463, 364-368.	1.2	28
22	Solvent Density Dependence of Translational Diffusion of Transient Radicals in the Medium-Density Region of Trifluoromethane and Carbon Dioxide. Journal of Physical Chemistry B, 1997, 101, 4442-4447.	1.2	27
23	Excitation wavelength dependence of photo-induced intramolecular proton transfer reaction of 4â€²-N,N-diethylamino-3-hydroxyflavone in various liquids. Chemical Physics Letters, 2012, 531, 70-74.	1.2	24
24	Solute-solute potential of mean force in simple fluids at infinite dilution. Molecular Physics, 1991, 72, 279-294.	0.8	23
25	Acceptor Number of Room Temperature Ionic Liquid Determined by the Raman Spectrum of Diphenylcyclopropenone. Chemistry Letters, 2005, 34, 338-339.	0.7	23
26	Effect of the solvent density and species on the back-electron transfer rate in the hexamethylbenzene/tetracyanoethylene charge-transfer complex. Journal of Chemical Physics, 1998, 108, 1485-1498.	1.2	22
27	Soluteâ€“solvent hydrogen-bonding in room temperature ionic liquids studied by Raman spectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 13676.	1.3	22
28	Solvation state selective excitation in resonance Raman spectroscopy. II. Theoretical calculation. Journal of Chemical Physics, 1998, 109, 9084-9095.	1.2	21
29	Raman Spectroscopic Study on the Solvation of p-Aminobenzonitrile in Supercritical Water and Methanol. Journal of Physical Chemistry A, 2009, 113, 3143-3154.	1.1	21
30	Application of the Transient Grating Method to the Measurement of Transport Properties for High Pressure Fluids. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1995, 99, 196-203.	0.9	20
31	Polarity and Nonpolarity of Ionic Liquids Viewed from the Rotational Dynamics of Carbon Monoxide. Journal of Physical Chemistry B, 2015, 119, 15493-15501.	1.2	20
32	The excitation energy dependence of the Ramanâ€“Stokes shift: The resonance Raman spectra of phenol blue in methanol. Journal of Chemical Physics, 1997, 107, 4436-4438.	1.2	19
33	Vibrational energy relaxation of azulene studied by the transient grating method. I. Supercritical fluids. Journal of Chemical Physics, 2005, 123, 054512.	1.2	19
34	Effects of counter anions, P-substituents, and solvents on optical and photophysical properties of 2-phenylbenzo[b]phospholium salts. Dalton Transactions, 2017, 46, 9517-9527.	1.6	18
35	Synthesis of zero-valent iron nanoparticles via laser ablation in a formate ionic liquid under atmospheric conditions. Chemical Communications, 2018, 54, 7834-7837.	2.2	18
36	Excitation wavelength dependence of the Raman-Stokes shift of N,N-dimethyl-p-nitroaniline. Journal of Chemical Physics, 2006, 124, 184503.	1.2	17

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37	Origin of low melting point of ionic liquids: dominant role of entropy. Chemical Science, 2022, 13, 7560-7565.	3.7	16
38	Volume Profile of the Reversible Dimerization Reaction of 2â€Methylâ€2â€nitrosopropane: Validity of the Hard Sphere Fluid Model and the Transition State Theory. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1988, 92, 1095-1103.	0.9	15
39	Charge Effect on the Diffusion Coefficient and the Bimolecular Reaction Rate of Diiodide Anion Radical in Room Temperature Ionic Liquids. Journal of Physical Chemistry B, 2009, 113, 5188-5193.	1.2	15
40	Effects of boryl, phosphino, and phosphonio substituents on optical, electrochemical, and photophysical properties of 2,5-dithienylphospholes and 2-phenyl-5-thienylphospholes. Dalton Transactions, 2016, 45, 2190-2200.	1.6	15
41	Vibrational energy relaxation of azulene in the S2 state. I. Solvent species dependence. Journal of Chemical Physics, 2000, 113, 2772-2783.	1.2	14
42	Excitation Wavelength Dependence of the Solvation Dynamics of 4â€²-N,N-Diethylamino-3-methoxyflavon in Ionic Liquids. Bulletin of the Chemical Society of Japan, 2015, 88, 939-945.	2.0	14
43	Effect of Temperature and Water Concentration on CO2 Absorption by Tetrabutylphosphonium Formate Ionic Liquid. Journal of Chemical & Engineering Data, 2016, 61, 837-845.	1.0	14
44	Photodissociation Quantum Yield of Iodine in the Low-, Medium-, and High-Density Fluids Studied by the Transient Grating Method. Journal of Physical Chemistry A, 1999, 103, 7730-7741.	1.1	13
45	Solvophobic interaction in a simple associated fluid. Molecular Physics, 1992, 76, 737-755.	0.8	12
46	Study on the Chemical Reaction of Spiropyran in Medium- and High-Density Fluids. The Journal of Physical Chemistry, 1996, 100, 11009-11013.	2.9	12
47	Diffusion of Transient Radicals in Alcohols and Cyclohexane from Ambient to Supercritical Conditions Studied by the Transient Grating Method. Journal of Physical Chemistry B, 2003, 107, 5958-5966.	1.2	12
48	Transport Properties and Solvation Structure of Mixtures of Carbon Dioxide and Room-Temperature Ionic Liquids. Bulletin of the Chemical Society of Japan, 2011, 84, 70-78.	2.0	12
49	Study of the Excited-State Proton-Transfer Reaction of 5-Cyano-2-naphthol in Sub- and Supercritical Water. Journal of Physical Chemistry B, 2012, 116, 1043-1052.	1.2	12
50	Electron Transfer Reaction Dynamics of p-Nitroaniline in Water from Liquid to Supercritical Conditions. Journal of Physical Chemistry B, 2012, 116, 11508-11516.	1.2	12
51	Anomalous ground-state proton transfer of 4â€²-N,N-diethylamino-3-hydroxyflavone in ionic liquids of imidazolium-based cations with tetrafluoroborate. Chemical Communications, 2013, 49, 3976.	2.2	12
52	Synthesis of 3,5-Disubstituted BODIPYs Bearing N-Containing Five-Membered Heteroaryl Groups via Nucleophilic Câ€“N Bond Formation. Journal of Organic Chemistry, 2018, 83, 5274-5281.	1.7	11
53	Excited-State Proton Transfer of 5,8-Dicyano-2-naphthol in High-Temperature and High-Pressure Methanol: Effect of Solvent Polarity and Hydrogen Bonding Ability. Journal of Physical Chemistry B, 2018, 122, 12363-12374.	1.2	11
54	Understanding Structural Changes through Excited-State Intramolecular Proton Transfer in 4â€²-N,N-Diethylamino-3-hydroxyflavone (DEAHF) in Solution Based on Quantum Chemical Calculations. Journal of Physical Chemistry B, 2019, 123, 9872-9881.	1.2	11

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55	Photo-dissociation dynamics of bis(p-dimethylaminophenyl) disulfide in ionic liquids studied by ultrafast transient absorption spectroscopy. Chemical Physics Letters, 2013, 564, 21-25.	1.2	10
56	Systematic estimation and interpretation of fractional free volume in 1-alkyl-3-methylimidazolium-based ionic liquids. Fluid Phase Equilibria, 2019, 498, 144-150.	1.4	10
57	Vibrational energy relaxation of azulene in the S2 state. II. Solvent density dependence. Journal of Chemical Physics, 2000, 113, 4340-4348.	1.2	9
58	Effects of solute-solvent and solvent-solvent attractive interactions on solute diffusion. Molecular Physics, 2000, 98, 1553-1563.	0.8	9
59	Non-Gaussian dynamics of a dilute hard-sphere gas. Journal of Chemical Physics, 2001, 114, 3029-3034.	1.2	9
60	Chemisorption of Carbon Dioxide in Carboxylate-Functionalized Ionic Liquids: A Mechanistic Study. Chemistry Letters, 2014, 43, 626-628.	0.7	9
61	Nonâ€Flammable and Highly Concentrated Carbonate Esterâ€Free Electrolyte Solutions for 5 Vâ€Class Positive Electrodes in Lithiumâ€Ion Batteries. ChemSusChem, 2021, 14, 2445-2451.	3.6	9
62	Photo-excitation dynamics of Phenol Blue. Physical Chemistry Chemical Physics, 2000, 2, 1415-1420.	1.3	8
63	Excited-State Proton Transfer of Cyanonaphthols in Protic Ionic Liquids: Appearance of a New Fluorescent Species. Journal of Physical Chemistry B, 2017, 121, 6042-6049.	1.2	8
64	Extension of Anodic Potential Window of Ester-Based Electrolyte Solutions for High-Voltage Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7728-7732.	2.5	8
65	Photo-excitation dynamics of N, N-dimethyl-p-nitroaniline in ionic liquids: Effect of cation alkyl-chain length. Journal of Molecular Liquids, 2019, 289, 111128.	2.3	8
66	Heterogeneous Structures of Ionic Liquids as Probed by CO Rotation with Nuclear Magnetic Resonance Relaxation Analysis and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020, 124, 10465-10476.	1.2	8
67	Non-linear Laser Spectroscopy in Supercritical Fluids. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2006, 16, 87-94.	0.1	7
68	Regioselective functionalization at the 7-position of 1,2,3-triphenylbenzo[b]phosphole oxide via Pî€O-directed lithiation. Dalton Transactions, 2018, 47, 7123-7127.	1.6	7
69	Experimental observation of the unique solvation process along multiple solvation coordinates of photodissociated products. Physical Chemistry Chemical Physics, 2021, 23, 4569-4579.	1.3	7
70	Translational Diffusion of a Transient Chargeâ€Separated Species in Carbon Dioxide and Trifluoromethane Studied by the Transient Grating Method. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 656-660.	0.9	6
71	SO₂ capture by ionic liquid and spectroscopic speciation of sulfur(<scp>iv</scp>) therein. RSC Advances, 2017, 7, 6538-6547.	1.7	6
72	Photoexcitation dynamics of p-nitroaniline and N,N-dimethyl-p-nitroaniline in 1-alkyl-3-methylimidazolium-cation based ionic liquids with different alkyl-chain lengths. Physical Chemistry Chemical Physics, 2017, 19, 22161-22168.	1.3	6

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73	Application of the time-resolved spectroscopy on the photo-dissociation dynamics of disulfide compounds in supercritical fluids. Journal of Molecular Liquids, 2005, 119, 113-117.	2.3	5
74	Excited-State Intramolecular Proton Transfer Reaction and Ground-State Hole Dynamics of 4â€²-N,N-Dialkylamino-3-hydroxyflavone in Ionic Liquids Studied by Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2021, 125, 5373-5386.	1.2	5
75	Solvation heterogeneity in ionic liquids as demonstrated by photo-chemical reactions. Pure and Applied Chemistry, 2020, 92, 1695-1708.	0.9	5
76	Chemical equilibrium in argon: Anomaly of density dependence of dimerization reaction in the medium density region. Journal of Chemical Physics, 1989, 91, 2758-2759.	1.2	4
77	Solvent Density Dependence of the Dissociation Rates of 2â€Methylâ€2â€Nitrosopropane Dimer in Simple and Molecular Fluids. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1993, 97, 29-32.	0.9	4
78	Rotational dynamics of carbon dioxide in ionic liquids. Journal of Molecular Liquids, 2017, 226, 43-47.	2.3	4
79	Self-Assembly and Complexation of Cellulose/Ionic Liquid at High Cellulose Concentration: Anion Dependence. Crystal Growth and Design, 2020, 20, 6267-6271.	1.4	4
80	Study on the Photolysis Quantum Yield of Diphenyl Disulfide by the Transient Grating Method. Bulletin of the Chemical Society of Japan, 1997, 70, 2657-2664.	2.0	3
81	Raman spectroscopic study on the acceptor number of supercritical methanol and ethanol. Journal of Molecular Liquids, 2017, 245, 11-16.	2.3	3
82	Formate Ionic Liquids Playing the Roles of Reducer and Stabilizer for the Synthesis of Noble Metal Nanoparticles. Chemistry Letters, 2017, 46, 1344-1346.	0.7	3
83	Role of Hydrogenâ€Bond Interactions in CO₂ Capture by Wet Phosphonium Formate Ionic Liquid: A Raman Spectroscopic Study. ChemPhysChem, 2018, 19, 1674-1682.	1.0	3
84	Structureâ€“Property Relationship for 1-Isopropyl-3-methylimidazolium- and 1-tert-Butyl-3-methylimidazolium-Based Ionic Liquids: Thermal Properties, Densities, Viscosities, and Quantum Chemical Calculations. Journal of Chemical & Engineering Data, 2019, 64, 5857-5868.	1.0	3
85	Experimental and theoretical study on p-aminophenylthyil radical geminate recombination in ionic liquids; analysis using the Smoluchowskiâ€“Collinsâ€“Kimball equation. Journal of Chemical Physics, 2021, 154, 154504.	1.2	2
86	Factors Affecting VUV Emission Spectrum near Lyman-Î± from a Hydrogen Plasma Source. AIP Conference Proceedings, 2011, , .	0.3	1
87	Synthesis and Optical Properties of 1,2,5,10-Tetraphenylanthra[2,3-b]phosphole Derivatives. Journal of Organic Chemistry, 2022, 87, 10493-10500.	1.7	1
88	3P176 Pressure-induced reversal in the rotational direction of the bacterial flagellar motor(Molecular motors,Oral Presentations). Seibutsu Butsuri, 2007, 47, S247.	0.0	0
89	1P-170 Pressure-induced effects of the motility of Vibrio alginolyticus(The 46th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Ov	0.0	0
90	3P087 Determination of the photoreaction product of blue light sensor BLUF protein TePixD(Protein:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.0	0

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91	Effect of Hydrated Ionic Liquid on Photocycle and Dynamics of Photoactive Yellow Protein. Molecules, 2021, 26, 4554.	1.7	0
92	Solvent Density Dependence of the Photolysis Quantum Yield in Supercritical Fluids.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 1259-1261.	0.1	0
93	Electron-Transfer Rate in the Charge Transfer Complex in the Supercritical Fluids.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 1230-1232.	0.1	0