

Shinji Kajimoto

List of Publications by Year in descending order

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54
papers

637
citations

567144

15
h-index

642610

23
g-index

54
all docs

54
docs citations

54
times ranked

764
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of Liquid Structure Relaxation from Criticality after a Nanosecond Laser Initiated T-Jump in Triethylamine ³⁴ Water. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11411-11418.	1.2	41
2	Explosive boiling of water after pulsed IR laser heating. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 888-895.	1.3	40
3	Picosecond and nanosecond photo-dynamics of a naphthopyran merocyanine Dedicated to Professor Frank Wilkinson on the occasion of his retirement.. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 180-184.	1.3	39
4	Experimental Evaluation of the Density of Water in a Cell by Raman Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5241-5245.	2.1	38
5	Label-Free Imaging of Intracellular Temperature by Using the O-H Stretching Raman Band of Water. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7755-7760.	7.2	35
6	Observation of liquid-liquid phase separation of ataxin-3 and quantitative evaluation of its concentration in a single droplet using Raman microscopy. <i>Chemical Science</i> , 2021, 12, 7411-7418.	3.7	35
7	A silver nanowire-based tip suitable for STM tip-enhanced Raman scattering. <i>Chemical Communications</i> , 2014, 50, 9839-9841.	2.2	34
8	Formation of 3,4,9,10-perylenetetracarboxylic dianhydride nanoparticles with perylene and polyynes byproducts by 355 nm nanosecond pulsed laser ablation of microcrystal suspensions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 105-113.	2.0	27
9	Label-Free Imaging of Intracellular Temperature by Using the O-H Stretching Raman Band of Water. <i>Angewandte Chemie</i> , 2020, 132, 7829-7834.	1.6	27
10	Water expansion dynamics after pulsed IR laser heating. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5256.	1.3	21
11	Single bovine serum albumin molecule can hold plural blue-emissive gold nanoclusters: A quantitative study with two-photon excitation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 357, 168-174.	2.0	20
12	Real-time observation of X-ray-induced intramolecular and interatomic electronic decay in CH ₂ I ₂ . <i>Nature Communications</i> , 2019, 10, 2186.	5.8	19
13	Ultrafast laser-induced molecular and morphological changes during spinodal demixing of water/2-butoxyethanol/KCl. <i>Physical Review E</i> , 2003, 68, 020501.	0.8	16
14	Bias voltage-dependent STM tip-enhanced Raman spectroscopy of benzenethiol-modified gold nanoplates. <i>Chemical Physics Letters</i> , 2013, 582, 110-114.	1.2	16
15	Additive-Free Size-Controlled Synthesis of Gold Square Nanoplates Using Photochemical Reaction in Dynamic Phase-Separating Media. <i>Langmuir</i> , 2013, 29, 5889-5895.	1.6	16
16	Density functional theory study of the origin of IR and Raman band shifts in H-bond complexes of triethylamine with water. <i>International Journal of Quantum Chemistry</i> , 2005, 105, 376-386.	1.0	15
17	Effect of Sodium Dodecyl Sulfate on the Formation of Silver Nanoparticles by Biphotonic Reduction of Silver Nitrate in Water. <i>Chemistry Letters</i> , 2014, 43, 1693-1695.	0.7	14
18	Electrostatic potential gap at the interface between triethylamine and water phases studied by molecular dynamics simulation. <i>Chemical Physics Letters</i> , 2007, 448, 70-74.	1.2	13

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19	Nano-scale characterization of binary self-assembled monolayers under an ambient condition with STM and TERS. <i>Chemical Communications</i> , 2014, 50, 9862-9864.	2.2	13
20	Experimentally determined growth exponents during the late stage of spinodal demixing in binary liquid mixtures. <i>Physical Review E</i> , 2006, 73, 011502.	0.8	12
21	Concentration Quantification of the Low-Complexity Domain of Fused in Sarcoma inside a Single Droplet and Effects of Solution Parameters. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5692-5697.	2.1	12
22	Dynamics of Re(2,2'-bipyridine)(CO) ₃ Cl MLCT formation and decay after picosecond pulsed X-ray excitation and femtosecond UV excitation. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 113-118.	1.6	11
23	Neutron detection with LiCaAlF ₆ scintillator doped with 3d-transition metal ions. <i>Radiation Measurements</i> , 2013, 55, 128-131.	0.7	11
24	Laser-induced phase change in Langmuir films observed using nanosecond pump-probe Brewster angle microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 947-954.	1.1	10
25	Observation of Unusual Molecular Diffusion Behaviour below the Lower Critical Solution Temperature of Water/2-Butoxyethanol Mixtures by using Fluorescence Correlation Spectroscopy. <i>ChemPhysChem</i> , 2014, 15, 3832-3838.	1.0	9
26	Observation of the changes in the chemical composition of lipid droplets using Raman microscopy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21646-21650.	1.3	9
27	Photo-controlled phase separation and mixing of a mixture of water and 2-butoxyethanol caused by photochromic isomerisation of spiropyran. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 208-212.	1.6	8
28	Doping concentration dependence on VUV luminescence of Tm:CaF ₂ . <i>Optical Materials</i> , 2013, 35, 1898-1901.	1.7	7
29	Picosecond dynamics of hydrogen bond rearrangements during phase separation of a triethylamine and water mixture. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 891-897.	1.6	6
30	Regulation of Cell Volume by Nanosecond Pulsed Electric Fields. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10692-10700.	1.2	6
31	Development of a nanosecond time-resolved Brewster angle microscope to observe phase change at an interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 284-285, 514-520.	2.3	5
32	Surface Structuring Using Photo-Polymerization at the Interface between Vinyl-Modified Quartz and a Dynamic Phase Separating Solution. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L1016-L1018.	0.8	5
33	VUV Luminescence With Nd Doped KCaF ₃ Under X-Ray Excitation. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2183-2187.	1.2	5
34	Phase behavior of a binary fluid mixture of quadrupolar molecules. <i>Physical Review E</i> , 2016, 94, 052601.	0.8	5
35	Time-Resolved Structured Illumination Microscopy for Phase Separation Dynamics of Water and 2-Butoxyethanol Mixtures: Interpretation of "Early Stage" Involving Micelle-Like Structures. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12375-12385.	1.2	5
36	Label-free tracking of intracellular molecular crowding with cell-cycle progression using Raman microscopy. <i>Chemical Physics Letters</i> , 2021, 779, 138843.	1.2	5

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37	On the origin of the Raman band shifts for H-bonded complexes of normal alcohols and 2-butoxyethanol with water: A theoretical DFT and MP2 study. <i>Chemical Physics Letters</i> , 2010, 491, 151-155.	1.2	4
38	Conformational changes in inhibitory PAS domain protein associated with binding of HIF-1 α and Bcl-x _L in living cells. <i>Journal of Biochemistry</i> , 2017, 161, mvw068.	0.9	4
39	Time-Resolved Brewster Angle Microscopy for Photochemical and Photothermal Studies on Thin-Films and Monolayers. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 59-68.	0.9	3
40	Dynamics of Volume Expansion of De-Mixing Liquids after Pulsed IR Heating. <i>Australian Journal of Chemistry</i> , 2011, 64, 1274.	0.5	3
41	Excitation energy migration in yellow fluorescent protein (citrine) layers adsorbed on modified gold surfaces. <i>Applied Surface Science</i> , 2013, 280, 776-782.	3.1	2
42	Mesoscopic Dynamics of Laser-induced Phase Separation in Water and 2-Butoxyethanol Mixtures Revealed by Nanosecond Time-resolved Light Scattering. <i>Chemistry Letters</i> , 2014, 43, 1838-1840.	0.7	2
43	Embedding a Metal-Binding Motif for Copper Transporter into a Lipid Bilayer by Cu(I) Binding. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6364-6370.	1.2	2
44	Diagnosing metabolic acidosis in chronic kidney disease: importance of blood pH and serum anion gap. <i>Kidney Research and Clinical Practice</i> , 2022, 41, 288-297.	0.9	2
45	Cooperative photoinduced two-dimensional condensation in Langmuir films observed using nanosecond pump-probe Brewster angle microscopy. <i>Biointerphases</i> , 2010, 5, FA105-FA109.	0.6	1
46	Light output uniformity of czochralski grown rare-earth-ion doped LiCaAlF_6 single crystal for thermal neutron detection. , 2011, , .		1
47	Ultrafast Dynamics of Photoexcited Gold Nanostructures on Mica Substrates Probed by Transient Absorption Spectroscopy and Time-resolved X-ray Diffraction. <i>Chemistry Letters</i> , 2015, 44, 961-963.	0.7	1
48	Chlorine adlayer-templated growth of a hybrid inorganic-organic layered structure on Au(111). <i>Surface Science</i> , 2016, 652, 46-50.	0.8	1
49	Raman Imaging Microscopy for Quantitative Analysis of Biological Samples. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1035, 163-172.	0.8	1
50	Photothermal Laser Material Interactions - From the Sledgehammer to Nano-GPS. <i>Advances in Intelligent and Soft Computing</i> , 2012, , 85-111.	0.2	0
51	Phase Separation Dynamics of a Binary Fluid with a Closed-Loop Phase Diagram. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 024007.	0.7	0
52	A millisecond structured illumination microscope for super-resolution live cell imaging. <i>Applied Physics Express</i> , 2020, 13, 045002.	1.1	0
53	Bubble Formation and Emission During Phase Separation of Water and 2-Butoxyethanol Mixtures. , 2012, , .		0
54	Measuring the Water Density inside a Living Cell. <i>Seibutsu Butsuri</i> , 2019, 59, 097-099.	0.0	0