

Ken-ichi Saitow

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73
papers

1,439
citations

23
h-index

34
g-index

75
ext. papers

1,593
ext. citations

4.6
avg, IF

4.85
L-index

#	Paper	IF	Citations
73	Study of inhomogeneity of supercritical water by small-angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2000 , 112, 4203-4211	3.9	96
72	Phototriggered self-assembly of hydrogen-bonded rosette. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11500-8	16.4	94
71	Raman spectral changes of neat CO ₂ across the ridge of density fluctuation in supercritical region. <i>Chemical Physics Letters</i> , 2000 , 320, 323-327	2.5	64
70	Effective Cooling Generates Efficient Emission: Blue, Green, and Red Light-Emitting Si Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8465-8470	3.8	61
69	Gold Nanospheres and Nanonecklaces Generated by Laser Ablation in Supercritical Fluid. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18340-18349	3.8	59
68	Silicon nanoclusters selectively generated by laser ablation in supercritical fluid. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3731-3	3.4	57
67	Photo-induced reactions of CH ₂ I ₂ in solution studied by the ultrafast transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 1996 , 262, 621-626	2.5	52
66	Spectrum of excess partial molar absorptivity. I. Near infrared spectroscopic study of aqueous acetonitrile and acetone. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 11928-35	3.4	48
65	White-blue electroluminescence from a Si quantum dot hybrid light-emitting diode. <i>Applied Physics Letters</i> , 2015 , 106, 201102	3.4	45
64	Dynamics of density fluctuation of supercritical fluid mapped on phase diagram. <i>Journal of the American Chemical Society</i> , 2004 , 126, 422-3	16.4	38
63	Terahertz absorption spectra of supercritical CHF ₃ to investigate local structure through rotational and hindered rotational motions. <i>Chemical Physics Letters</i> , 2001 , 341, 86-92	2.5	38
62	Enhancement of Out-of-plane Mobility in P3HT Film by Rubbing: Aggregation and Planarity Enhanced with Low Regioregularity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7987-7995	3.8	37
61	Local density enhancement in neat supercritical fluid due to attractive intermolecular interactions. <i>Chemical Physics Letters</i> , 2003 , 368, 209-214	2.5	37
60	White-Light-Emitting Silicon Nanocrystal Generated by Pulsed Laser Ablation in Supercritical Fluid: Investigation of Spectral Components As a Function of Excitation Wavelengths and Aging Time. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3928-3934	3.8	35
59	Performance of Si/PEDOT:PSS Hybrid Solar Cell Controlled by PEDOT:PSS Film Nanostructure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19043-19048	3.8	34
58	Formation of benzene dimer cations in neat liquid benzene studied by femtosecond transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 1997 , 269, 298-304	2.5	31
57	Attractive and Repulsive Intermolecular Interactions of a Polar Molecule: Short-Range Structure of Neat Supercritical CHF ₃ Investigated by Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 5770-5784	2.8	29

56	Attractive and repulsive interactions among methanol molecules in supercritical state investigated by Raman spectroscopy and perturbed hard-sphere theory. <i>Journal of Chemical Physics</i> , 2005 , 122, 104502 ^{3,9}	27
55	Solvent dependence of laser-synthesized blue-emitting Si nanoparticles: Size, quantum yield, and aging performance. <i>Chemical Physics Letters</i> , 2017 , 674, 90-97	2.5 26
54	Fractal of Gold Nanoparticles Controlled by Ambient Dielectricity: Synthesis by Laser Ablation as a Function of Permittivity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17252-17258	3.8 25
53	Correlation time of density fluctuation for supercritical ethylene studied by dynamic light scattering. <i>Journal of Chemical Physics</i> , 2002 , 116, 4985	3.9 25
52	130-fold enhancement of TiO ₂ photocatalytic activities by ball milling. <i>Applied Physics Letters</i> , 2013 , 103, 031916	3.4 24
51	Static inhomogeneity of supercritical ethylene studied by small-angle X-ray scattering. <i>Chemical Physics</i> , 2003 , 286, 421-430	2.3 23
50	Time evolution of density fluctuation in supercritical region. I. Non-hydrogen-bonded fluids studied by dynamic light scattering. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 83-91	2.8 22
49	How Are Hydrogen Bonds Perturbed in Aqueous NaClO ₄ Solutions Depending on the Concentration?: A Near Infrared Study of Water. <i>Journal of Solution Chemistry</i> , 2004 , 33, 689-698	1.8 22
48	Uniaxial orientation of P3HT film prepared by soft friction transfer method. <i>Scientific Reports</i> , 2017 , 7, 5141	4.9 20
47	Enhancement of Out-of-Plane Mobilities of Three Poly(3-alkylthiophene)s and Associated Mechanism. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23351-23357	3.8 19
46	Si-nanocrystal/P3HT hybrid films with a 50- and 12-fold enhancement of hole mobility and density: films prepared by successive drop casting. <i>Nanoscale</i> , 2015 , 7, 15780-8	7.7 17
45	One-pot facile synthesis of a concentrated Si nanoparticle solution. <i>Chemical Communications</i> , 2013 , 49, 10302-4	5.8 15
44	Si quantum dots with a high absorption coefficient: Analysis based on both intensive and extensive variables. <i>Applied Physics Letters</i> , 2013 , 103, 151912	3.4 15
43	Cost-Effective Synthesis of Silicon Quantum Dots. <i>Chemistry of Materials</i> , 2020 , 32, 8382-8392	9.6 15
42	Mechanochemical Synthesis of Red-Light-Active Green TiO ₂ Photocatalysts with Disorder: Defect-Rich, with Polymorphs, and No Metal Loading. <i>Chemistry of Materials</i> , 2020 , 32, 9190-9200	9.6 15
41	In situ multipurpose time-resolved spectrometer for monitoring nanoparticle generation in a high-pressure fluid. <i>Review of Scientific Instruments</i> , 2012 , 83, 073110	1.7 14
40	Time evolution of density fluctuation in the supercritical region. 2. Comparison of hydrogen- and non-hydrogen-bonded fluids. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 7365-70	2.8 14
39	Supercritical-fluid cell with device of variable optical path length giving fringe-free terahertz spectra. <i>Review of Scientific Instruments</i> , 2000 , 71, 4061	1.7 14

38	Comparison of picosecond and nanosecond lasers for the synthesis of TiN sub-micrometer spherical particles by pulsed laser melting in liquid. <i>Applied Physics Express</i> , 2018 , 11, 035001	2.4	13
37	Mechano-synthesized orange TiO shows significant photocatalysis under visible light. <i>Scientific Reports</i> , 2018 , 8, 15549	4.9	13
36	Extraordinary Field Enhancement of TiO ₂ Porous Layer up to 500-Fold. <i>Advanced Optical Materials</i> , 2018 , 6, 1800462	8.1	12
35	Performance of Si/PEDOT:PSS Solar Cell Controlled by Dipole Moment of Additives. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20130-20135	3.8	11
34	Solvation structures of cis- and trans-1,2-dichloroethylene in supercritical CO ₂ investigated by Raman spectroscopy and attractive energy calculations. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13291-9	3.4	11
33	Difference of solute-solvent interactions of cis- and trans-1,2-dichloroethylene in supercritical CO ₂ investigated by raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7980-3	3.4	11
32	Solvation of Esters and Ketones in Supercritical CO ₂ . <i>Journal of Physical Chemistry B</i> , 2016 , 120, 785-92	3.4	10
31	Enhancement of fluorescence intensity by silicon particles and its size effect. <i>Chemical Communications</i> , 2014 , 50, 1137-40	5.8	10
30	Hole mobility enhancement of MEH-PPV film by heat treatment at T _g . <i>AIP Advances</i> , 2015 , 5, 127130	1.5	10
29	Site-selective solvation in supercritical CO ₂ observed by Raman spectroscopy: phenyl group leads to greater attractive energy than chloro group. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16832-7	3.4	9
28	Solute-solvent intermolecular interactions in supercritical Xe, SF ₆ , CO ₂ , and CHF ₃ investigated by Raman spectroscopy: greatest attractive energy observed in supercritical Xe. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 8659-66	3.4	9
27	Effect of hydrogen bonding on laser-induced transfer of 1-pyrenebutyric acid in solid polymers. <i>Chemical Physics Letters</i> , 1998 , 291, 433-437	2.5	9
26	Development of a Polarized Raman Spectrometer for Supercritical Fluids Having High Critical Points. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2801-2806	1.4	9
25	Local enhancement effect in the photoluminescence intensity of Si quantum dots: Single Medusa-type particles investigated by in situ microscope spectrometer. <i>Chemical Physics Letters</i> , 2014 , 591, 37-42	2.5	7
24	Investigation of attractive and repulsive interactions associated with ketones in supercritical CO ₂ , based on Raman spectroscopy and theoretical calculations. <i>Journal of Chemical Physics</i> , 2013 , 139, 054509	3.9	7
23	Triplet exciton abstracts hydrogen from diphenylmethane doped in benzophenone crystal. <i>Chemical Physics Letters</i> , 1994 , 229, 323-327	2.5	7
22	1% defect enriches MoS quantum dot: catalysis and blue luminescence. <i>Nanoscale</i> , 2020 , 12, 4352-4358	7.7	7
21	Brush Printing Creates Polarized Green Fluorescence: 3D Orientation Mapping and Stochastic Analysis of Conductive Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46598-46608	9.5	7

20	Si nanocrystal solution with stability for one year.. <i>RSC Advances</i> , 2018 , 8, 41299-41307	3.7	7
19	Ultrapure Films of Polythiophene Derivatives are Born on a Substrate by Liquid Flow. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6881-6889	6.1	7
18	Synthesis of Size-controlled Luminescent Si Nanocrystals from (HSiO _{1.5}) _n Polymers. <i>Chemistry Letters</i> , 2017 , 46, 699-702	1.7	5
17	Designing Efficient Si Quantum Dots and LEDs by Quantifying Ligand Effects.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
16	Field enhancement of MoS: visualization of the enhancement and effect of the number of layers. <i>Nanoscale</i> , 2018 , 10, 22215-22222	7.7	5
15	Size-Selected Submicron Gold Spheres: Controlled Assembly onto Metal, Carbon, and Plastic Substrates. <i>ACS Omega</i> , 2019 , 4, 14307-14311	3.9	4
14	Significant substitution effects in dipolar and non-dipolar supercritical fluids. <i>Journal of Chemical Physics</i> , 2011 , 134, 234508	3.9	4
13	Photodissociation of CH ₂ I ₂ and subsequent electron transfer in solution. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 696-709	4.5	4
12	Nanogap-Rich TiO Film for 2000-Fold Field Enhancement with High Reproducibility. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8799-8809	6.4	4
11	Spectral Visualization of Near-Infrared Enhancement in 2D Layered WS ₂ . <i>ACS Applied Electronic Materials</i> , 2020 , 2, 437-446	4	3
10	Significant difference in the attractive energies of ethane and ethanol in supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2017 , 120, 328-334	4.2	2
9	Nanosecond photo-fusion of microcrystals on a polymer film observed with time-resolved ultramicroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 145, 159-164	4.7	2
8	OrangeRed Si Quantum Dot LEDs from Recycled Rice Husks. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1765-1776	8.3	2
7	Large Field Enhancement of Nanocoral Structures on Porous Si Synthesized from Rice Husks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1105-1113	9.5	2
6	Photochemical Hydrogen Abstraction in Benzophenone Single Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1996 , 277, 125-133		1
5	4D Microspectroscopy Explores Orientation and Aggregations in EConjugated Polymer Films Prepared by Brush Printing.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 653-660	6.4	1
4	Cellulose-Templated Stable Foldable Oriented Films with Polarized RGB Luminescence. <i>Chemistry of Materials</i> , 2022 , 34, 1052-1064	9.6	0
3	Local Structure of Supercritical Fluids and Nanomaterials Synthesis. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2015 , 25, 215-224	0	

2 Local Structure of Supercritical Fluids Investigated by Translational, Rotational, and Vibrational Motions. *Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu*, **2006**, 16, 120-130 ○

1 Photodissociation of CH₂I₂ and the Subsequent Electron Transfer in Its Cluster Formed in Solution. *Springer Series in Chemical Physics*, **1998**, 624-626 ○.3