

# Ken-ichi Saitow

## 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.

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	4D Microspectroscopy Explores Orientation and Aggregations in EConjugated Polymer Films Prepared by Brush Printing.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 13, 653-660	6.4	1
72	OrangeRed Si Quantum Dot LEDs from Recycled Rice Husks. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1765-1776	8.3	2
71	Cellulose-Templated Stable Foldable Oriented Films with Polarized RGB Luminescence. <i>Chemistry of Materials</i> , <b>2022</b> , 34, 1052-1064	9.6	0
70	Designing Efficient Si Quantum Dots and LEDs by Quantifying Ligand Effects.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	5
69	Large Field Enhancement of Nanocoral Structures on Porous Si Synthesized from Rice Husks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 1105-1113	9.5	2
68	Cost-Effective Synthesis of Silicon Quantum Dots. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8382-8392	9.6	15
67	1% defect enriches MoS quantum dot: catalysis and blue luminescence. <i>Nanoscale</i> , <b>2020</b> , 12, 4352-4358	7.7	7
66	Spectral Visualization of Near-Infrared Enhancement in 2D Layered WS <sub>2</sub> . <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 437-446	4	3
65	Nanogap-Rich TiO Film for 2000-Fold Field Enhancement with High Reproducibility. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8799-8809	6.4	4
64	Brush Printing Creates Polarized Green Fluorescence: 3D Orientation Mapping and Stochastic Analysis of Conductive Polymer Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46598-46608	9.5	7
63	Mechanochemical Synthesis of Red-Light-Active Green TiO <sub>2</sub> Photocatalysts with Disorder: Defect-Rich, with Polymorphs, and No Metal Loading. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9190-9200	9.6	15
62	Size-Selected Submicron Gold Spheres: Controlled Assembly onto Metal, Carbon, and Plastic Substrates. <i>ACS Omega</i> , <b>2019</b> , 4, 14307-14311	3.9	4
61	Performance of Si/PEDOT:PSS Solar Cell Controlled by Dipole Moment of Additives. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 20130-20135	3.8	11
60	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> , <b>2018</b> , 11, 035001	2.4	13
59	Field enhancement of MoS: visualization of the enhancement and effect of the number of layers. <i>Nanoscale</i> , <b>2018</b> , 10, 22215-22222	7.7	5
58	Si nanocrystal solution with stability for one year.. <i>RSC Advances</i> , <b>2018</b> , 8, 41299-41307	3.7	7
57	Ultrapure Films of Polythiophene Derivatives are Born on a Substrate by Liquid Flow. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6881-6889	6.1	7

56	Extraordinary Field Enhancement of TiO <sub>2</sub> Porous Layer up to 500-Fold. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800462	8.1	12
55	Mechano-synthesized orange TiO shows significant photocatalysis under visible light. <i>Scientific Reports</i> , <b>2018</b> , 8, 15549	4.9	13
54	Solvent dependence of laser-synthesized blue-emitting Si nanoparticles: Size, quantum yield, and aging performance. <i>Chemical Physics Letters</i> , <b>2017</b> , 674, 90-97	2.5	26
53	Synthesis of Size-controlled Luminescent Si Nanocrystals from (HSiO <sub>1.5</sub> ) <sub>n</sub> Polymers. <i>Chemistry Letters</i> , <b>2017</b> , 46, 699-702	1.7	5
52	Uniaxial orientation of P3HT film prepared by soft friction transfer method. <i>Scientific Reports</i> , <b>2017</b> , 7, 5141	4.9	20
51	Significant difference in the attractive energies of ethane and ethanol in supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 120, 328-334	4.2	2
50	Solvation of Esters and Ketones in Supercritical CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 785-92	3.4	10
49	Enhancement of Out-of-Plane Mobilities of Three Poly(3-alkylthiophene)s and Associated Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 23351-23357	3.8	19
48	Performance of Si/PEDOT:PSS Hybrid Solar Cell Controlled by PEDOT:PSS Film Nanostructure. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 19043-19048	3.8	34
47	White-blue electroluminescence from a Si quantum dot hybrid light-emitting diode. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 201102	3.4	45
46	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> , <b>2015</b> , 119, 7987-7995	3.8	37
45	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> , <b>2015</b> , 7, 15780-8	7.7	17
44	Hole mobility enhancement of MEH-PPV film by heat treatment at T <sub>g</sub> . <i>AIP Advances</i> , <b>2015</b> , 5, 127130	1.5	10
43	Local Structure of Supercritical Fluids and Nanomaterials Synthesis. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2015</b> , 25, 215-224	0	
42	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> , <b>2014</b> , 591, 37-42	2.5	7
41	Enhancement of fluorescence intensity by silicon particles and its size effect. <i>Chemical Communications</i> , <b>2014</b> , 50, 1137-40	5.8	10
40	130-fold enhancement of TiO <sub>2</sub> photocatalytic activities by ball milling. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 031916	3.4	24
39	One-pot facile synthesis of a concentrated Si nanoparticle solution. <i>Chemical Communications</i> , <b>2013</b> , 49, 10302-4	5.8	15

38	Si quantum dots with a high absorption coefficient: Analysis based on both intensive and extensive variables. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 151912	3.4	15
37	Investigation of attractive and repulsive interactions associated with ketones in supercritical CO <sub>2</sub> , based on Raman spectroscopy and theoretical calculations. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 054509	3.9	7
36	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> , <b>2012</b> , 116, 3928-3934	3.8	35
35	In situ multipurpose time-resolved spectrometer for monitoring nanoparticle generation in a high-pressure fluid. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 073110	1.7	14
34	Fractal of Gold Nanoparticles Controlled by Ambient Dielectricity: Synthesis by Laser Ablation as a Function of Permittivity. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 17252-17258	3.8	25
33	Significant substitution effects in dipolar and non-dipolar supercritical fluids. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 234508	3.9	4
32	Site-selective solvation in supercritical CO <sub>2</sub> observed by Raman spectroscopy: phenyl group leads to greater attractive energy than chloro group. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 16832-7	3.4	9
31	Solute-solvent intermolecular interactions in supercritical Xe, SF <sub>6</sub> , CO <sub>2</sub> , and CHF <sub>3</sub> investigated by Raman spectroscopy: greatest attractive energy observed in supercritical Xe. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 8659-66	3.4	9
30	Effective Cooling Generates Efficient Emission: Blue, Green, and Red Light-Emitting Si Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 8465-8470	3.8	61
29	Spectrum of excess partial molar absorptivity. I. Near infrared spectroscopic study of aqueous acetonitrile and acetone. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 11928-35	3.4	48
28	Solvation structures of cis- and trans-1,2-dichloroethylene in supercritical CO <sub>2</sub> investigated by Raman spectroscopy and attractive energy calculations. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 13291-9	3.4	11
27	Difference of solute-solvent interactions of cis- and trans-1,2-dichloroethylene in supercritical CO <sub>2</sub> investigated by raman spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 7980-3	3.4	11
26	Gold Nanospheres and Nanonecklaces Generated by Laser Ablation in Supercritical Fluid. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18340-18349	3.8	59
25	Photodissociation of CH <sub>2</sub> I <sub>2</sub> and subsequent electron transfer in solution. <i>Chemistry - an Asian Journal</i> , <b>2008</b> , 3, 696-709	4.5	4
24	Development of a Polarized Raman Spectrometer for Supercritical Fluids Having High Critical Points. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 2801-2806	1.4	9
23	Local Structure of Supercritical Fluids Investigated by Translational, Rotational, and Vibrational Motions. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , <b>2006</b> , 16, 120-130	0	
22	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> , <b>2005</b> , 109, 83-91	2.8	22
21	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> , <b>2005</b> , 109, 7365-70	2.8	14

20	Silicon nanoclusters selectively generated by laser ablation in supercritical fluid. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 3731-3	3.4	57
19	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> , <b>2005</b> , 122, 10450-2	3.9	27
18	How Are Hydrogen Bonds Perturbed in Aqueous NaClO <sub>4</sub> Solutions Depending on the Concentration?: A Near Infrared Study of Water. <i>Journal of Solution Chemistry</i> , <b>2004</b> , 33, 689-698	1.8	22
17	Dynamics of density fluctuation of supercritical fluid mapped on phase diagram. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 422-3	16.4	38
16	Attractive and Repulsive Intermolecular Interactions of a Polar Molecule: Short-Range Structure of Neat Supercritical CHF <sub>3</sub> Investigated by Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 5770-5784	2.8	29
15	Phototriggered self-assembly of hydrogen-bonded rosette. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 11500-8	16.4	94
14	Local density enhancement in neat supercritical fluid due to attractive intermolecular interactions. <i>Chemical Physics Letters</i> , <b>2003</b> , 368, 209-214	2.5	37
13	Static inhomogeneity of supercritical ethylene studied by small-angle X-ray scattering. <i>Chemical Physics</i> , <b>2003</b> , 286, 421-430	2.3	23
12	Correlation time of density fluctuation for supercritical ethylene studied by dynamic light scattering. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 4985	3.9	25
11	Nanosecond photo-fusion of microcrystals on a polymer film observed with time-resolved ultramicroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2001</b> , 145, 159-164	4.7	2
10	Terahertz absorption spectra of supercritical CHF <sub>3</sub> to investigate local structure through rotational and hindered rotational motions. <i>Chemical Physics Letters</i> , <b>2001</b> , 341, 86-92	2.5	38
9	Raman spectral changes of neat CO <sub>2</sub> across the ridge of density fluctuation in supercritical region. <i>Chemical Physics Letters</i> , <b>2000</b> , 320, 323-327	2.5	64
8	Study of inhomogeneity of supercritical water by small-angle x-ray scattering. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 4203-4211	3.9	96
7	Supercritical-fluid cell with device of variable optical path length giving fringe-free terahertz spectra. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 4061	1.7	14
6	Effect of hydrogen bonding on laser-induced transfer of 1-pyrenebutyric acid in solid polymers. <i>Chemical Physics Letters</i> , <b>1998</b> , 291, 433-437	2.5	9
5	Photodissociation of CH <sub>2</sub> I <sub>2</sub> and the Subsequent Electron Transfer in Its Cluster Formed in Solution. <i>Springer Series in Chemical Physics</i> , <b>1998</b> , 624-626	0.3	
4	Formation of benzene dimer cations in neat liquid benzene studied by femtosecond transient absorption spectroscopy. <i>Chemical Physics Letters</i> , <b>1997</b> , 269, 298-304	2.5	31
3	Photo-induced reactions of CH <sub>2</sub> I <sub>2</sub> in solution studied by the ultrafast transient absorption spectroscopy. <i>Chemical Physics Letters</i> , <b>1996</b> , 262, 621-626	2.5	52

- 2 Photochemical Hydrogen Abstraction in Benzophenone Single Crystal. *Molecular Crystals and Liquid Crystals*, **1996**, 277, 125-133 1
- 1 Triplet exciton abstracts hydrogen from diphenylmethane doped in benzophenone crystal. *Chemical Physics Letters*, **1994**, 229, 323-327 2.5 7