

# Yukio Furukawa

## List of Publications by Citations

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#	Paper	IF	Citations
77	Electronic Absorption and Vibrational Spectroscopies of Conjugated Conducting Polymers. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 15644-15653		281
76	Molecular Stacking Induced by Intermolecular C-H...N Hydrogen Bonds Leading to High Carrier Mobility in Vacuum-Deposited Organic Films. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1375-1382	15.6	130
75	Electronic and vibrational spectra of positive polarons and bipolarons in regioregular poly(3-hexylthiophene) doped with ferric chloride. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 4788-94	3.4	106
74	Raman spectral changes of PEDOT:PSS in polymer light-emitting diodes upon operation. <i>Chemical Physics Letters</i> , <b>2005</b> , 412, 395-398	2.5	95
73	Resonance Raman and Ultraviolet to Infrared Absorption Studies of Positive Polarons and Bipolarons in Sulfuric-Acid-Treated Poly(p-phenylenevinylene). <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 4635-4640		84
72	Electronic absorption and Raman studies of BF <sub>4</sub> <sup>-</sup> -doped polythiophene based on the spectra of the radical cation and dication of hexithiophene. <i>Chemical Physics Letters</i> , <b>1996</b> , 255, 431-436	2.5	83
71	Very High Yield Growth of Vertically Aligned Single-Walled Carbon Nanotubes by Point-Arc Microwave Plasma CVD. <i>Chemical Vapor Deposition</i> , <b>2005</b> , 11, 127-130		80
70	Raman studies of polarons and bipolarons in sodium-doped poly-p-phenylene. <i>Synthetic Metals</i> , <b>1993</b> , 55, 516-523	3.6	67
69	Infrared and Raman studies of poly(p-phenylenevinylene) and its model compounds. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 1490-1494		62
68	Resonance Raman characterization of polarons and bipolarons in sodium-doped poly(p-phenylenevinylene). <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 3870-3874		56
67	Reexamination of the assignments of electronic absorption bands of polarons and bipolarons in conducting polymers. <i>Synthetic Metals</i> , <b>1995</b> , 69, 629-632	3.6	52
66	Spectroscopic Studies on the Radical-Cation Dimer of a Model Compound of Poly(p-phenylenevinylene). Similarities between the Dimer and the State of Positive Polarons in the Sulfuric-Acid-Treated Polymer. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 1726-1732	3.4	39
65	Temperature-Dependent Evolution of Raman Spectra of Methylammonium Lead Halide Perovskites, CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> (X = I, Br). <i>Molecules</i> , <b>2019</b> , 24,	4.8	38
64	Synthesis and Properties of a Kinetically Stabilized 9-Silaphenanthrene. <i>Organometallics</i> , <b>2007</b> , 26, 4048-4053	4.85	37
63	Raman and infrared studies on the molecular structures of poly(1,4-phenylenevinylene) and poly(2,5-thienylenevinylene). <i>The Journal of Physical Chemistry</i> , <b>1989</b> , 93, 5354-5356		29
62	Raman spectra of Langmuir-Blodgett and Langmuir-Schaefer films of polydiacetylene prepared from 10,12-pentacosadiynoic acid. <i>Chemical Physics Letters</i> , <b>2007</b> , 444, 328-332	2.5	26
61	Synthesis and Characterization of Two Isomers of 14-Electron Germaaromatics: Kinetically Stabilized 9-Germaanthracene and 9-Germaphenanthrene. <i>Organometallics</i> , <b>2006</b> , 25, 3533-3536	3.8	26

60	Conformational analysis of p-terphenyl by vibrational spectroscopy and density functional theory calculations. <i>Journal of Molecular Structure</i> , <b>2005</b> , 735-736, 11-19	3.4	26
59	Organic Field-effect Transistor Based on a Thin Film of Polydiacetylene Prepared from 10,12-Pentacosadiynoic Acid. <i>Chemistry Letters</i> , <b>2006</b> , 35, 20-21	1.7	25
58	Study on solid structure of pentacene thin films using Raman imaging. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 2015-2019	2.3	23
57	DFT oligomer approach to vibrational spectra of poly(p-phenylenevinylene). <i>Vibrational Spectroscopy</i> , <b>2006</b> , 40, 149-154	2.1	22
56	Voltage-induced infrared spectra from polymer field-effect transistors. <i>Macromolecular Symposia</i> , <b>2004</b> , 205, 9-18	0.8	21
55	Raman characterization and electrical properties of poly(3-hexylthiophene) doped electrochemically in an ionic liquid-gated transistor geometry. <i>Organic Electronics</i> , <b>2016</b> , 28, 82-87	3.5	19
54	Synthesis of 1,4-Dihydropyridines and Their Fluorescence Properties. <i>European Journal of Organic Chemistry</i> , <b>2014</b> , 2014, 5281-5301	3.2	19
53	Crystalline/amorphous Raman markers of hole-transport material NPD in organic light-emitting diodes. <i>Chemical Physics Letters</i> , <b>2005</b> , 405, 330-333	2.5	19
52	Raman studies of intact and sodium doped <sup>13</sup> C-substituted poly-p-phenylene. <i>Journal of Raman Spectroscopy</i> , <b>1993</b> , 24, 551-554	2.3	18
51	Raman study of the interaction between regioregular poly(3-hexylthiophene) (P3HT) and transition-metal oxides MoO <sub>3</sub> , V <sub>2</sub> O <sub>5</sub> , and WO <sub>3</sub> in polymer solar cells. <i>Chemical Physics Letters</i> , <b>2016</b> , 644, 267-270	2.5	17
50	Electric-Field-Induced Dynamics of Polymer Chains in a Ferroelectric Melt-Quenched Cold-Drawn Film of Nylon-11 Using Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 14309-14	3.4	17
49	Infrared and Raman spectroscopy of organic thin films used for electronic devices. <i>Vibrational Spectroscopy</i> , <b>2012</b> , 60, 5-9	2.1	17
48	Density Functional Theory Study on the Raman Spectra of Negative Polarons and Negative Bipolarons in Na-Doped Poly(p-phenylene). <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 3587-3592	2.8	17
47	Raman Studies of Doped Polythiophene and the Radical Cation and Dication of Quinquethiophene. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 256, 113-120		16
46	Micro-Raman Spectroscopy on Pentacene Thin-Film Transistors. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 491, 317-323	0.5	15
45	Temperature measurements of the PEDOT-PSS layer in a polymer light-emitting diode by stokes and anti-stokes Raman scattering. <i>Chemical Physics Letters</i> , <b>2008</b> , 453, 238-241	2.5	14
44	<sup>13</sup> C-NMR Study of Acid Dissociation Constant (pKa) Effects on the CO <sub>2</sub> Absorption and Regeneration of Aqueous Tertiary Alkanolamines. <i>Energy Procedia</i> , <b>2014</b> , 63, 1876-1881	2.3	13
43	Effect of electric field on the infrared spectrum of a ferroelectric poly(vinylidene fluoride-co-hexafluoropropylene) film. <i>Vibrational Spectroscopy</i> , <b>2015</b> , 78, 12-16	2.1	12

42	13C-NMR Study of Acid Dissociation Constant (pKa) Effects on the CO <sub>2</sub> Absorption and Regeneration of Aqueous Tertiary Alkanolamine/Piperazine Blends. <i>Energy Procedia</i> , <b>2014</b> , 63, 1863-1868 <sup>2,3</sup>	10
41	Temperature Measurements of Organic Light-Emitting Diodes by Stokes and Anti-Stokes Raman Scattering. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 2171-2173	1.4 10
40	Infrared spectroscopy of electroluminescent conjugated polymers. <i>Macromolecular Symposia</i> , <b>2002</b> , 184, 99-106	0.8 10
39	Direct Observation of Structure and Dynamics of Photogenerated Charge Carriers in Poly(3-hexylthiophene) Films by Femtosecond Time-Resolved Near-IR Inverse Raman Spectroscopy. <i>Molecules</i> , <b>2019</b> , 24,	4.8 9
38	13C-NMR Spectroscopic Study on Chemical Species in Piperazine/Amine/CO <sub>2</sub> /H <sub>2</sub> O System before and after Heating. <i>Energy Procedia</i> , <b>2013</b> , 37, 869-876	2.3 9
37	Noncontact Temperature Measurements of Organic Layers in an Organic Light-Emitting Diode Using Wavenumber-Temperature Relations of Raman Bands. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 3537-3539	1.4 9
36	Spectroscopic studies of conducting polymers. <i>Macromolecular Symposia</i> , <b>1996</b> , 101, 95-102	0.8 9
35	Doping-level dependent mobilities of positive polarons and bipolarons in poly(2,5-bis(3-hexadecylthiophen-2-yl)thieno[3,2-b]thiophene) (PBTTT-C16) based on an ionic-liquid-gated transistor configuration. <i>Organic Electronics</i> , <b>2019</b> , 68, 28-34	3.5 9
34	45.1: An Improved Method for Lifetime Prediction Based on Decoupling of the Joule Self-Heating Effect from Coulombic Degradation in Accelerated Aging Tests of OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 642-645	0.5 8
33	Temperature measurements of a phosphorescent organic light-emitting diode by Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2010</b> , 488, 206-208	2.5 8
32	Infrared Absorption Induced by Field Effect from a Metal/Insulator/Semiconductor Diode Fabricated with Regioregular Poly(3-hexylthiophene). <i>Chemistry Letters</i> , <b>2003</b> , 32, 1168-1169	1.7 8
31	The 1320-nm excited FT-Raman spectra of lightly iodine-doped trans-polyacetylene. <i>Macromolecular Research</i> , <b>2002</b> , 10, 286-290	1.9 8
30	Structural properties of perovskite films on zinc oxide nanoparticles-reduced graphene oxide (ZnO-NPs/rGO) prepared by electrophoretic deposition technique <b>2018</b> ,	7
29	Vibrational Stark effect (VSE) on the infrared spectrum of a poly(methyl methacrylate) thin film. <i>Vibrational Spectroscopy</i> , <b>2015</b> , 78, 54-59	2.1 6
28	Raman imaging of carrier distribution in the channel of an ionic liquid-gated transistor fabricated with regioregular poly(3-hexylthiophene). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 197, 166-169	4.4 6
27	Raman Spectroscopic Study on Phosphorous-Doped Silicon Nanoparticles. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 877-82	3.1 6
26	Infrared absorption induced by field-effect doping from poly(3-alkylthiophene)s. <i>Synthetic Metals</i> , <b>2003</b> , 135-136, 341-342	3.6 6
25	Raman Spectra of Heavily Sodium-Doped Trans-Polyacetylene and the Radical Anions of Diphenylpolyenes and Dithienylpolyenes. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 256, 721-726	6

24	Raman spectra of carriers in ionic-liquid-gated transistors fabricated with poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene). <i>Vibrational Spectroscopy</i> , <b>2016</b> , 85, 29-34 <sup>2.1</sup>	6
23	High Performance n-Channel Organic Field-Effect Transistors Based on N,N'-Dioctyl-3,4,9,10-Perylene Tetracarboxylic Diimide. <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 462, 37-43	0.5 5
22	Raman study on a bulk-heterojunction film of pentacene and C60. <i>Chemical Physics Letters</i> , <b>2015</b> , 636, 58-61	2.5 4
21	Preparation of ZnO nanoparticles for blend of P3HT:ZnO nanoparticles:PCBM thin film and its charge carrier dynamics characterization <b>2013</b> ,	4
20	Field-effect transistor configuration for the measurement of infrared Stark spectra. <i>Science and Technology of Advanced Materials</i> , <b>2006</b> , 7, 456-460	7.1 4
19	Vibrational Stark effect of 9-cyanoanthracene dispersed in a poly(methyl methacrylate) film. <i>Chemical Physics Letters</i> , <b>2015</b> , 633, 252-255	2.5 3
18	Introduction of Na <sup>+</sup> in Reduced Graphene Oxide Prepared From Coconut Shells and Its Magnetic Properties. <i>IEEE Transactions on Magnetics</i> , <b>2020</b> , 56, 1-6	2 3
17	<sup>13</sup> C-NMR Study of Acid Dissociation Constant (pKa) Effects on the CO <sub>2</sub> Absorption and Regeneration of Aqueous Alkanolpiperidine. <i>Energy Procedia</i> , <b>2017</b> , 114, 1765-1771	2.3 3
16	DO BIPOLARONS EXIST IN DOPED OR PHOTOIRRADIATED CONJUGATED POLYMERS? -AN ANALYSIS BASED ON STUDIES OF MODEL COMPOUNDS <b>1998</b> , 496-523	3
15	Non-destructive Raman evaluation of a heavily doped surface layer fabricated by laser doping with B-doped Si nanoparticles. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 39, 748-754	4.3 2
14	Infrared spectroscopic study on electric-field-induced dynamics of polymer chains in a ferroelectric melt-quenched cold-drawn film of nylon-12. <i>Vibrational Spectroscopy</i> , <b>2016</b> , 84, 30-37	2.1 2
13	Voltage-induced Infrared Absorption from a Spin-cast Thin Film of Ferroelectric Poly(vinylidene fluoride-co-trifluoroethylene) (P(VDF-TrFE)). <i>Analytical Sciences</i> , <b>2017</b> , 33, 59-64	1.7 2
12	Vibrational spectroscopy of organic thin films used for solar cells <b>2013</b> ,	2
11	Vibrational Spectroscopy of Conducting Polymers: Fundamentals and Applications <b>2007</b> ,	2
10	Voltage-Induced Infrared Spectra from the Organic Field-Effect Transistor Based on N,N'-bis(3-methylphenyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine (TPD). <i>Molecular Crystals and Liquid Crystals</i> , <b>2006</b> , 455, 353-359	0.5 2
9	Infrared Stark spectra for a Nylon 6 film. <i>Chemical Physics Letters</i> , <b>2019</b> , 728, 32-36	2.5 1
8	Near-infrared resonance stimulated Raman study of short-lived transients in PTB7 films. <i>Vibrational Spectroscopy</i> , <b>2020</b> , 106, 103011	2.1 1
7	Raman study on pentacene:C60 bulk heterojunction films. <i>Vibrational Spectroscopy</i> , <b>2016</b> , 84, 133-138	2.1 1

6	Effect of Anions on Bipolaron Formation in Ionic-liquid-gated Transistors Fabricated with Poly(2,5-bis(3-hexadecylthiophen-2-yl)thieno[3,2-b]thiophene) (PBTTT-C16). <i>Chemistry Letters</i> , <b>2019</b> , 48, 498-501	1.7	1
5	Relationship between Film Structure and Electric Performance of Organic Field-Effect Transistors Based on Perylene Tetracarboxylic Diimide Derivatives. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 471, 189-194	0.5	1
4	Raman Temperature Measurements of Copper Phthalocyanine Layer of Organic Light-Emitting Diode Using Bandwidth-Temperature Relationship. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 05DC16 <sup>1,4</sup>		0
3	Ultraviolet/Visible, Infrared and Raman Spectra <b>2003</b> , 149-172		
2	Raman Spectrum of Model Peptide (Ala-Gly) <sub>15</sub> for Bombyx mori Silk Fibroin with Silk I Form and Theoretical Calculation According to Repeated .BETA.-Turn Type II Structural Model.. <i>Journal of Fiber Science and Technology</i> , <b>2002</b> , 58, 327-331		0
1	Recent Application of Vibrational Spectroscopy to Conjugated Conducting Polymers <b>2021</b> , 367-391		