

Kazuaki Furukawa

List of Publications by Year in descending order

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83
papers

1,766
citations

218677

26
h-index

302126

39
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84
all docs

84
docs citations

84
times ranked

2162
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical properties of silicon network polymers. <i>Macromolecules</i> , 1990, 23, 3423-3426.	4.8	112
2	Cubic silicon cluster. <i>Applied Physics Letters</i> , 1992, 60, 2744-2745.	3.3	82
3	A Self-Assembled Nano Optical Switch and Transistor Based on a Rigid Conjugated Polymer, Thioacetyl-End-Functionalized Poly(para-phenylene ethynylene). <i>Journal of the American Chemical Society</i> , 2005, 127, 2804-2805.	13.7	76
4	Fabrication of nano-gap electrodes using electroplating technique. <i>Thin Solid Films</i> , 2003, 438-439, 317-321.	1.8	69
5	Electron Transport in Self-Assembled Polymer Molecular Junctions. <i>Physical Review Letters</i> , 2006, 96, 027801.	7.8	69
6	Synthesis and Electrolytic Polymerization of the Ethylenedioxy-Substituted Terthiophene~Fullerene Dyad. <i>Organic Letters</i> , 2004, 6, 4865-4868.	4.6	61
7	Self-Assembly of Gold Nanorods Induced by Intermolecular Interactions of Surface-Anchored Lipids. <i>Langmuir</i> , 2008, 24, 5654-5658.	3.5	61
8	Anisotropic assembly of gold nanorods assisted by selective ion recognition of surface-anchored crown ether derivatives. <i>Chemical Communications</i> , 2007, , 1080.	4.1	59
9	Effects of structural defects on hole drift mobility in aryl-substituted polysilanes. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 1631-1645.	0.6	55
10	Supported Lipid Bilayer Self-Spreading on a Nanostructured Silicon Surface. <i>Langmuir</i> , 2007, 23, 367-371.	3.5	51
11	Vapor~liquid~solid growth of vertically aligned InP nanowires by metalorganic vapor phase epitaxy. <i>Thin Solid Films</i> , 2004, 464-465, 244-247.	1.8	50
12	Synthesis and Characterization of End-Grafted Polysilane on a Substrate Surface. <i>Journal of the American Chemical Society</i> , 1998, 120, 7367-7368.	13.7	48
13	On-chip graphene oxide aptasensor for multiple protein detection. <i>Analytica Chimica Acta</i> , 2015, 866, 1-9.	5.4	42
14	Selective Chemisorption of End-Functionalized Conjugated Polymer on Macro- and Nanoscale Surfaces. <i>Langmuir</i> , 2005, 21, 511-515.	3.5	41
15	Microchannel device using self-spreading lipid bilayer as molecule carrier. <i>Lab on A Chip</i> , 2006, 6, 1001.	6.0	40
16	Polysilane light-emitting diodes. <i>Polymers for Advanced Technologies</i> , 2000, 11, 460-467.	3.2	39
17	Near-ultraviolet electroluminescent performance of polysilane-based light-emitting diodes with a double-layer structure. <i>Journal of Applied Physics</i> , 2000, 87, 1968-1973.	2.5	38
18	Self-assembled rigid conjugated polymer nanojunction and its nonlinear current~voltage characteristics at room temperature. <i>Applied Physics Letters</i> , 2004, 85, 115-117.	3.3	37

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19	End-Grafted Polysilane An Approach to Single Polymer Science. <i>Accounts of Chemical Research</i> , 2003, 36, 102-110.	15.6	35
20	Molecular design for enhanced sensitivity of a FRET aptasensor built on the graphene oxide surface. <i>Chemical Communications</i> , 2013, 49, 10346-10348.	4.1	32
21	Influence of the Local Environment on Determining Aspect-Ratio Distributions of Gold Nanorods in Solution Using Gans Theory. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14299-14306.	3.1	31
22	Graphene FRET Aptasensor. <i>ACS Sensors</i> , 2016, 1, 710-716.	7.8	30
23	Protein recognition on a single graphene oxide surface fixed on a solid support. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1119.	5.8	29
24	Graphene-modified Interdigitated Array Electrode: Fabrication, Characterization, and Electrochemical Immunoassay Application. <i>Analytical Sciences</i> , 2013, 29, 55-60.	1.6	28
25	Polysilane Bearing α -Sulfide Tripod-Terminus: Preparation and Selective Chemisorption on Gold Surface. <i>Macromolecules</i> , 2003, 36, 9-11.	4.8	27
26	Oxygen Plasma Generated Copper/Copper Oxides Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13116-13118.	2.6	26
27	Supported Lipid Bilayer Composition Microarray Fabricated by Pattern-Guided Self-Spreading. <i>Langmuir</i> , 2011, 27, 7341-7344.	3.5	22
28	Molecular weight dependent electroluminescence of silicon polymer near-ultraviolet light-emitting diodes. <i>Journal of Applied Physics</i> , 2000, 88, 2892-2897.	2.5	21
29	Superlattice structure of octa-tert-butylpentacyclo[4.2.0.0 ^{2,5} .0 ^{3,8} .0 ^{4,7}]octasilane found by reinvestigation of X-ray structure analysis. <i>Journal of Organometallic Chemistry</i> , 1996, 515, 37-41.	1.8	20
30	Self-spreading of Supported Lipid Bilayer on SiO ₂ Surface Bearing Graphene Oxide. <i>Chemistry Letters</i> , 2012, 41, 1259-1261.	1.3	20
31	Preparation and single molecule structure of electroactive polysilane end-grafted on a crystalline silicon surface. <i>Applied Physics Letters</i> , 2000, 77, 4289-4291.	3.3	19
32	Carrier injection from gold electrodes into thioacetyl-end-functionalized poly(para-phenyleneethynylene)s. <i>Physical Review B</i> , 2004, 69, .	3.2	19
33	Novel α -Lipid-Flow Chip Configuration to Determine Donor-to-Acceptor Ratio-Dependent Fluorescence Resonance Energy Transfer Efficiency. <i>Langmuir</i> , 2008, 24, 921-926.	3.5	19
34	Graphene Growth from a Spin-Coated Polymer without a Reactive Gas. <i>Applied Physics Express</i> , 2011, 4, 065102.	2.4	18
35	Molecular weight dependence of the conformational phase transition and electroluminescence of diarylpolysilane diodes. <i>Journal of Applied Physics</i> , 2000, 88, 3408-3413.	2.5	17
36	Synthesis and atomic force microscopy observations of the single-peptide nanotubes and their micro-order assemblies. <i>Physical Review B</i> , 2002, 66, .	3.2	17

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37	Self-Spreading Behavior of Supported Lipid Bilayer through Single Sub-100-nm Gap. Japanese Journal of Applied Physics, 2008, 47, 3248-3252.	1.5	17
38	On-chip FRET Graphene Oxide Aptasensor: Quantitative Evaluation of Enhanced Sensitivity by Aptamer with a Double-stranded DNA Spacer. Analytical Sciences, 2015, 31, 875-879.	1.6	17
39	Selective charge doping of chemical vapor deposition-grown graphene by interface modification. Applied Physics Letters, 2013, 103, .	3.3	16
40	Relaxation of Plasma Carriers in Graphene: An Approach by Frequency-Dependent Optical Conductivity Measurement. Advanced Optical Materials, 2018, 6, 1701402.	7.3	16
41	A new morphology of copper 7,7,8,8-tetracyano-p-quinodimethane. Micron, 2007, 38, 536-542.	2.2	15
42	Energy Dissipation in Graphene Mechanical Resonators with and without Free Edges. Micromachines, 2016, 7, 158.	2.9	14
43	Self-propelled ion gel at air-water interface. Scientific Reports, 2017, 7, 9323.	3.3	14
44	Visualization of Single Membrane Protein Structure in Stretched Lipid Bilayer Suspended over Nanowells. Applied Physics Express, 2010, 3, 027002.	2.4	14
45	Epitaxial Trilayer Graphene Mechanical Resonators Obtained by Electrochemical Etching Combined with Hydrogen Intercalation. Japanese Journal of Applied Physics, 2013, 52, 04CH01.	1.5	13
46	Energy dissipation in edged and edgeless graphene mechanical resonators. Journal of Applied Physics, 2014, 116, 064304.	2.5	13
47	Heteroepitaxial metalorganic vapor phase epitaxial growth of InP nanowires on GaP(111)B. Thin Solid Films, 2004, 464-465, 248-250.	1.8	11
48	Pattern Formation and Molecular Transport of Histidine-Tagged GFPs Using Supported Lipid Bilayers. Langmuir, 2010, 26, 12716-12721.	3.5	10
49	Electrostatic Control of Lipid Bilayer Self-Spreading Using a Nanogap Gate on a Solid Support. Journal of the American Chemical Society, 2011, 133, 6118-6121.	13.7	10
50	Etchant-free and damageless transfer of monolayer and bilayer graphene grown on SiC. Japanese Journal of Applied Physics, 2014, 53, 115101.	1.5	10
51	Bipolar Carrier Behavior in a Near Ultraviolet Electroluminescent Silicon Polymer: Poly[Bis (p-n-butylphenyl)silane]. Molecular Crystals and Liquid Crystals, 1999, 327, 181-184.	0.3	9
52	Conformational phase transition in a high-efficiency near-ultraviolet electroluminescent diarylpolysilane. Synthetic Metals, 1999, 105, 17-22.	3.9	9
53	Side Chain Effect on Thermochromism and Solvatochromism of End-Grafted Polysilane [Si(CH ₃) ₂ SiR ₂] _n (R = C ₂ H ₅ , n-C ₄ H ₉ , n-C ₆ H ₁₃ , n-C ₈ H ₁₇ , n-C ₁₀ H ₂₁). Macromolecules, 2003, 36, 7681-7688.	4.8	9
54	Advancing conjugated polymers into nanometer-scale devices. Pure and Applied Chemistry, 2006, 78, 1803-1822.	1.9	9

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55	Elastic modulus of suspended purple membrane measured by atomic force microscopy. Applied Surface Science, 2008, 254, 7877-7880.	6.1	9
56	Effect of Ca ²⁺ on Vesicle Fusion on Solid Surface: An In vitro Model of Protein-Accelerated Vesicle Fusion. Japanese Journal of Applied Physics, 2008, 47, 6164.	1.5	9
57	Conformational Transition of End-Grafted Poly(di-n-hexylsilane) in Solventless Conditions. Macromolecules, 2002, 35, 327-329.	4.8	8
58	Direct growth of graphene on SiC(0001) by KrF-excimer-laser irradiation. Applied Physics Letters, 2016, 108, 093107.	3.3	8
59	Molecular-Mediated Single-Electron Devices Operating at Room Temperature. Japanese Journal of Applied Physics, 2006, 45, 4285-4289.	1.5	6
60	Observation and Manipulation of Nanostructures Formed by Rigid Rodlike Polymers. Japanese Journal of Applied Physics, 2004, 43, 4521-4524.	1.5	5
61	Transistor Properties of Novel Organic Conducting Polymers Bearing Tetrathiafulvalene Units in the Backbone. Japanese Journal of Applied Physics, 2010, 49, 01AB08.	1.5	5
62	Planar cold cathode based on a multilayer-graphene/SiO ₂ /Si heterodevice. Applied Physics Express, 2016, 9, 105101.	2.4	5
63	A New Si Doping Source for GaAs Growth by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 1994, 33, L413-L416.	1.5	4
64	Novel Pyrolytic Conversion of Poly[(diisobutylsilylene)methylene] to Stoichiometric Silicon Carbide. Macromolecules, 1997, 30, 7618-7620.	4.8	4
65	Soft X-ray emission and absorption spectroscopy for electronic structure analysis of cubic silicon clusters in Si K-shell threshold. Journal of Electron Spectroscopy and Related Phenomena, 1997, 85, 159-165.	1.7	3
66	Self-Spreading Supported Lipid Bilayer Passing through Single Nanogap Structure: Effect of Position of Dyes in Lipid Molecules. Japanese Journal of Applied Physics, 2010, 49, 04DL15.	1.5	3
67	Effects of UV light intensity on electrochemical wet etching of SiC for the fabrication of suspended graphene. Japanese Journal of Applied Physics, 2015, 54, 036502.	1.5	3
68	End-Grafted Semiconducting Polymer—Candidate for Molecular Wire. Materials Research Society Symposia Proceedings, 1999, 582, 1.	0.1	1
69	Structural and Electrical Properties of Organic Conducting Polymers Bearing Tetrathiafulvalene Backbone. Molecular Crystals and Liquid Crystals, 2009, 504, 231-237.	0.9	1
70	Electrostatic Control of Artificial Cell Membrane Spreading by Tuning the Thickness of an Electric Double Layer in a Nanogap. IEICE Transactions on Electronics, 2013, E96.C, 344-347.	0.6	1
71	Supported Lipid Bilayer. Hyomen Kagaku, 2009, 30, 207-218.	0.0	1
72	Near-Infrared Photoluminescence Spectral Imaging of Chemically Oxidized Graphene Flakes. E-Journal of Surface Science and Nanotechnology, 2012, 10, 513-517.	0.4	1

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73	Graphene Growth from Spin-Coated Polymers without a Gas. Japanese Journal of Applied Physics, 2012, 51, 06FD01.	1.5	1
74	End-Grafted Semiconducting Polymer Candidate for Molecular Wire. Materials Research Society Symposia Proceedings, 1999, 582, .	0.1	0
75	End-Grafted Polysilane An Approach to Single Polymer Science. ChemInform, 2003, 34, no.	0.0	0
76	Self-spreading Lipid Bilayer as Nanofluidic Medium for Micro- and Nanostructured Biosurface Fabrication. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
77	Graphene Growth from Spin-Coated Polymers without a Gas. Japanese Journal of Applied Physics, 2012, 51, 06FD01.	1.5	0
78	Electrostatic control of the dynamics of lipid bilayer self-spreading using a nanogap gate. Materials Research Express, 2014, 1, 035404.	1.6	0
79	Direct growth of patterned graphene on SiC(0001) surfaces by KrF excimer-laser irradiation. , 2015, , .		0
80	Single Polymer Wiring and Nano-Scale Optoelectronic Properties. Kobunshi, 2007, 56, 438-438.	0.0	0
81	Donor-to-Acceptor Distance Dependent Fluorescence Resonance Energy Transfer Efficiency for Multiple Donors and Acceptors System Confined within 2-Dimensional Fluid of Supported Lipid Bilayer. E-Journal of Surface Science and Nanotechnology, 2012, 10, 121-127.	0.4	0
82	On-Chip FRET Graphene Aptasensor. International Journal of Automation Technology, 2018, 12, 37-44.	1.0	0
83	Adhesive Layer for Robust Graphene Transferred on Solid Support and Its Application to Graphene Microelectrode Manufacturing. Sensors and Materials, 2019, 31, 1157.	0.5	0