

Kazuaki Furukawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1261891/publications.pdf>

Version: 2024-02-01

83
papers

1,766
citations

218677

26
h-index

302126

39
g-index

84
all docs

84
docs citations

84
times ranked

2162
citing authors

#	ARTICLE	IF	CITATIONS
1	Adhesive Layer for Robust Graphene Transferred on Solid Support and Its Application to Graphene Microelectrode Manufacturing. <i>Sensors and Materials</i> , 2019, 31, 1157.	0.5	0
2	Relaxation of Plasma Carriers in Graphene: An Approach by Frequency-Dependent Optical Conductivity Measurement. <i>Advanced Optical Materials</i> , 2018, 6, 1701402.	7.3	16
3	On-Chip FRET Graphene Aptasensor. <i>International Journal of Automation Technology</i> , 2018, 12, 37-44.	1.0	0
4	Self-propelled ion gel at air-water interface. <i>Scientific Reports</i> , 2017, 7, 9323.	3.3	14
5	Energy Dissipation in Graphene Mechanical Resonators with and without Free Edges. <i>Micromachines</i> , 2016, 7, 158.	2.9	14
6	Direct growth of graphene on SiC(0001) by KrF-excimer-laser irradiation. <i>Applied Physics Letters</i> , 2016, 108, 093107.	3.3	8
7	Planar cold cathode based on a multilayer-graphene/SiO ₂ /Si heterodevice. <i>Applied Physics Express</i> , 2016, 9, 105101.	2.4	5
8	Graphene FRET Aptasensor. <i>ACS Sensors</i> , 2016, 1, 710-716.	7.8	30
9	On-chip FRET Graphene Oxide Aptasensor: Quantitative Evaluation of Enhanced Sensitivity by Aptamer with a Double-stranded DNA Spacer. <i>Analytical Sciences</i> , 2015, 31, 875-879.	1.6	17
10	Direct growth of patterned graphene on SiC(0001) surfaces by KrF excimer-laser irradiation. , 2015, , .		0
11	Effects of UV light intensity on electrochemical wet etching of SiC for the fabrication of suspended graphene. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 036502.	1.5	3
12	On-chip graphene oxide aptasensor for multiple protein detection. <i>Analytica Chimica Acta</i> , 2015, 866, 1-9.	5.4	42
13	Electrostatic control of the dynamics of lipid bilayer self-spreading using a nanogap gate. <i>Materials Research Express</i> , 2014, 1, 035404.	1.6	0
14	Etchant-free and damageless transfer of monolayer and bilayer graphene grown on SiC. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 115101.	1.5	10
15	Energy dissipation in edged and edgeless graphene mechanical resonators. <i>Journal of Applied Physics</i> , 2014, 116, 064304.	2.5	13
16	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
17	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
18	Epitaxial Trilayer Graphene Mechanical Resonators Obtained by Electrochemical Etching Combined with Hydrogen Intercalation. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 04CH01.	1.5	13

#	ARTICLE	IF	CITATIONS
19	Selective charge doping of chemical vapor deposition-grown graphene by interface modification. Applied Physics Letters, 2013, 103, .	3.3	16
20	Graphene-modified Interdigitated Array Electrode: Fabrication, Characterization, and Electrochemical Immunoassay Application. Analytical Sciences, 2013, 29, 55-60.	1.6	28
21	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
22	Self-spreading of Supported Lipid Bilayer on SiO ₂ Surface Bearing Graphene Oxide. Chemistry Letters, 2012, 41, 1259-1261.	1.3	20
23	Graphene Growth from Spin-Coated Polymers without a Gas. Japanese Journal of Applied Physics, 2012, 51, 06FD01.	1.5	0
24	Near-Infrared Photoluminescence Spectral Imaging of Chemically Oxidized Graphene Flakes. E-Journal of Surface Science and Nanotechnology, 2012, 10, 513-517.	0.4	1
25	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
26	Graphene Growth from Spin-Coated Polymers without a Gas. Japanese Journal of Applied Physics, 2012, 51, 06FD01.	1.5	1
27	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
28	Supported Lipid Bilayer Composition Microarray Fabricated by Pattern-Guided Self-Spreading. Langmuir, 2011, 27, 7341-7344.	3.5	22
29	Graphene Growth from a Spin-Coated Polymer without a Reactive Gas. Applied Physics Express, 2011, 4, 065102.	2.4	18
30	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
31	Transistor Properties of Novel Organic Conducting Polymers Bearing Tetrathiafulvalene Units in the Backbone. Japanese Journal of Applied Physics, 2010, 49, 01AB08.	1.5	5
32	Pattern Formation and Molecular Transport of Histidine-Tagged GFPs Using Supported Lipid Bilayers. Langmuir, 2010, 26, 12716-12721.	3.5	10
33	Visualization of Single Membrane Protein Structure in Stretched Lipid Bilayer Suspended over Nanowells. Applied Physics Express, 2010, 3, 027002.	2.4	14
34	Self-spreading Lipid Bilayer as Nanofluidic Medium for Micro- and Nanostructured Biosurface Fabrication. Materials Research Society Symposia Proceedings, 2009, 1236, 1.	0.1	0
35	Structural and Electrical Properties of Organic Conducting Polymers Bearing Tetrathiafulvalene Backbone. Molecular Crystals and Liquid Crystals, 2009, 504, 231-237.	0.9	1
36	Supported Lipid Bilayer. Hyomen Kagaku, 2009, 30, 207-218.	0.0	1

#	ARTICLE	IF	CITATIONS
37	Elastic modulus of suspended purple membrane measured by atomic force microscopy. Applied Surface Science, 2008, 254, 7877-7880.	6.1	9
38	Novel "Lipid-Flow Chip" Configuration to Determine Donor-to-Acceptor Ratio-Dependent Fluorescence Resonance Energy Transfer Efficiency. Langmuir, 2008, 24, 921-926.	3.5	19
39	Self-Assembly of Gold Nanorods Induced by Intermolecular Interactions of Surface-Anchored Lipids. Langmuir, 2008, 24, 5654-5658.	3.5	61
40	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
41	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
42	Influence of the Local Environment on Determining Aspect-Ratio Distributions of Gold Nanorods in Solution Using Gans Theory. Journal of Physical Chemistry C, 2007, 111, 14299-14306.	3.1	31
43	Anisotropic assembly of gold nanorods assisted by selective ion recognition of surface-anchored crown ether derivatives. Chemical Communications, 2007, , 1080.	4.1	59
44	Supported Lipid Bilayer Self-Spreading on a Nanostructured Silicon Surface. Langmuir, 2007, 23, 367-371.	3.5	51
45	A new morphology of copper 7,7,8,8-tetracyano-p-quinodimethane. Micron, 2007, 38, 536-542.	2.2	15
46	Single Polymer Wiring and Nano-Scale Optoelectronic Properties. Kobunshi, 2007, 56, 438-438.	0.0	0
47	Microchannel device using self-spreading lipid bilayer as molecule carrier. Lab on A Chip, 2006, 6, 1001.	6.0	40
48	Advancing conjugated polymers into nanometer-scale devices. Pure and Applied Chemistry, 2006, 78, 1803-1822.	1.9	9
49	Molecular-Mediated Single-Electron Devices Operating at Room Temperature. Japanese Journal of Applied Physics, 2006, 45, 4285-4289.	1.5	6
50	Electron Transport in Self-Assembled Polymer Molecular Junctions. Physical Review Letters, 2006, 96, 027801.	7.8	69
51	A Self-Assembled Nano Optical Switch and Transistor Based on a Rigid Conjugated Polymer, Thioacetyl-End-Functionalized Poly(para-phenylene ethynylene). Journal of the American Chemical Society, 2005, 127, 2804-2805.	13.7	76
52	Selective Chemisorption of End-Functionalized Conjugated Polymer on Macro- and Nanoscale Surfaces. Langmuir, 2005, 21, 511-515.	3.5	41
53	Observation and Manipulation of Nanostructures Formed by Rigid Rodlike Polymers. Japanese Journal of Applied Physics, 2004, 43, 4521-4524.	1.5	5
54	Carrier injection from gold electrodes into thioacetyl-end-functionalized poly(para-phenyleneethynylene)s. Physical Review B, 2004, 69, .	3.2	19

#	ARTICLE	IF	CITATIONS
55	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
56	Heteroepitaxial metalorganic vapor phase epitaxial growth of InP nanowires on GaP(111)B. <i>Thin Solid Films</i> , 2004, 464-465, 248-250.	1.8	11
57	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
58	Oxygen Plasma Generated Copper/Copper Oxides Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13116-13118.	2.6	26
59	Synthesis and Electrolytic Polymerization of the Ethylenedioxy-Substituted Terthiophene-Fullerene Dyad. <i>Organic Letters</i> , 2004, 6, 4865-4868.	4.6	61
60	Fabrication of nano-gap electrodes using electroplating technique. <i>Thin Solid Films</i> , 2003, 438-439, 317-321.	1.8	69
61	End-Grafted Polysilane - An Approach to Single Polymer Science. <i>ChemInform</i> , 2003, 34, no.	0.0	0
62	Polysilane Bearing Sulfide Tripod-Terminus: Preparation and Selective Chemisorption on Gold Surface. <i>Macromolecules</i> , 2003, 36, 9-11.	4.8	27
63	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). <i>Macromolecules</i> , 2003, 36, 7681-7688.	4.8	9
64	End-Grafted Polysilane An Approach to Single Polymer Science. <i>Accounts of Chemical Research</i> , 2003, 36, 102-110.	15.6	35
65	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
66	Conformational Transition of End-Grafted Poly(di-n-hexylsilane) in Solventless Conditions. <i>Macromolecules</i> , 2002, 35, 327-329.	4.8	8
67	Polysilane light-emitting diodes. <i>Polymers for Advanced Technologies</i> , 2000, 11, 460-467.	3.2	39
68	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
69	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
70	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
71	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
72	Bipolar Carrier Behavior in a Near Ultraviolet Electroluminescent Silicon Polymer: Poly[Bis(p-n-butylphenyl)silane]. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 327, 181-184.	0.3	9

#	ARTICLE	IF	CITATIONS
73	Conformational phase transition in a high-efficiency near-ultraviolet electroluminescent diarylpolysilane. <i>Synthetic Metals</i> , 1999, 105, 17-22.	3.9	9
74	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
75	End-Grafted Semiconducting Polymer Candidate for Molecular Wire. <i>Materials Research Society Symposia Proceedings</i> , 1999, 582, .	0.1	0
76	End-Grafted Semiconducting Polymer Candidate for Molecular Wire. <i>Materials Research Society Symposia Proceedings</i> , 1999, 582, 1.	0.1	1
77	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
78	Novel Pyrolytic Conversion of Poly[(diisobutylsilylene)methylene] to Stoichiometric Silicon Carbide. <i>Macromolecules</i> , 1997, 30, 7618-7620.	4.8	4
79	Soft X-ray emission and absorption spectroscopy for electronic structure analysis of cubic silicon clusters in Si K-shell threshold. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1997, 85, 159-165.	1.7	3
80	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
81	A New Si Doping Source for GaAs Growth by Molecular Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 1994, 33, L413-L416.	1.5	4
82	Cubic silicon cluster. <i>Applied Physics Letters</i> , 1992, 60, 2744-2745.	3.3	82
83	Optical properties of silicon network polymers. <i>Macromolecules</i> , 1990, 23, 3423-3426.	4.8	112