Megumi Akai-Kasaya

List of Publications by Year in descending order

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MECHNI AKAL-KASAYA

#	Article	IF	CITATIONS
1	Performance of reservoir computing in a random network of single-walled carbon nanotubes complexed with polyoxometalate. Neuromorphic Computing and Engineering, 2022, 2, 014003.	5.9	29
2	Physical Implementation of Reservoir Computing through Electrochemical Reaction. Advanced Science, 2022, 9, e2104076.	11.2	44
3	Heuristic model for configurable polymer wire synaptic devices. Nonlinear Theory and Its Applications IEICE, 2022, 13, 379-384.	0.6	Ο
4	Noise sensitivity of physical reservoir computing in a ring array of atomic switches. Nonlinear Theory and Its Applications IEICE, 2022, 13, 373-378.	0.6	1
5	Digital implementation of a multilayer perceptron based on stochastic computing with online learning function. Nonlinear Theory and Its Applications IEICE, 2022, 13, 324-329.	0.6	Ο
6	Smart hardware architecture with random weight elimination and weight balancing algorithms. Nonlinear Theory and Its Applications IEICE, 2022, 13, 336-342.	0.6	0
7	A 1-Msps 500-Node FORCE Learning Accelerator for Reservoir Computing. Journal of Signal Processing, 2022, 26, 103-106.	0.3	1
8	(Invited) Neuromorphic Devices and Systems Using Carbon Nanotubes. ECS Meeting Abstracts, 2022, MA2022-01, 778-778.	0.0	0
9	Long- and Short-Term Conductance Control of Artificial Polymer Wire Synapses. Polymers, 2021, 13, 312.	4.5	7
10	Simple Reservoir Computing Capitalizing on the Nonlinear Response of Materials: Theory and Physical Implementations. Physical Review Applied, 2021, 15, .	3.8	31
11	Adsorption and Light Emission of a Racemic Mixture of [7]thiaheterohelicene-2,13-carboxaldehyde on Au(111), Cu(001), and NiAl(110) Surfaces Investigated Using a Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2021, 125, 9419-9427.	3.1	8
12	Reservoir Computing on Atomic Switch Arrays with High Precision and Excellent Memory Characteristics. Journal of Signal Processing, 2021, 25, 123-126.	0.3	3
13	Evolving Conductive Polymer Neural Networks on Wetware. , 2021, , 583-607.		Ο
14	Hardware-oriented deep reinforcement learning for edge computing. Nonlinear Theory and Its Applications IEICE, 2021, 12, 526-544.	0.6	1
15	Applying a Molecular Device to Stochastic Computing Operation for a Hardware Al System Design. Journal of Signal Processing, 2021, 25, 221-225.	0.3	0
16	Coulomb blockade transport emerged in quasi one-dimensional PEDOT: PSS fiber. IOP Conference Series: Materials Science and Engineering, 2020, 835, 012017.	0.6	1
17	Evolving conductive polymer neural networks on wetware. Japanese Journal of Applied Physics, 2020, 59, 060601.	1.5	14
18	Spontaneous spike signals originated from redox-active molecules functionalised on carbon nanotubes. Japanese Journal of Applied Physics, 2019, 58, SIIB18.	1.5	5

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19	Towards Physical Biomimetic and Neuromorphic Device Consisting of Nanomaterial. Vacuum and Surface Science, 2019, 62, 356-362.	0.1	0
20	A molecular neuromorphic network device consisting of single-walled carbon nanotubes complexed with polyoxometalate. Nature Communications, 2018, 9, 2693.	12.8	100
21	Room-temperature discrete-charge-fluctuation dynamics of a single molecule adsorbed on a carbon nanotube. Nanoscale, 2017, 9, 10674-10683.	5.6	25
22	Single walled carbon nanotube-based stochastic resonance device with molecular self-noise source. Applied Physics Letters, 2017, 111, .	3.3	16
23	Nanoscale Dehydrogenation Observed by Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 18162-18168.	3.1	22
24	Coulomb-Blockade in Low-Dimensional Organic Conductors. Advances in Atom and Single Molecule Machines, 2017, , 111-134.	0.0	1
25	Anomalous hexagonal superstructure of aluminum oxide layer grown on NiAl(110) surface. Nanotechnology, 2016, 27, 455708.	2.6	3
26	Raman mapping investigation of single-walled carbon nanotube bending in bottom-contact field-effect-transistor devices. Journal of Applied Physics, 2016, 120, 094302.	2.5	0
27	Detection of Light Emission from (S)-PTCDI Molecules Adsorbed on Au(111) and NiAl(110) Surfaces Induced by a Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2016, 120, 3964-3977.	3.1	15
28	Nanoscale analysis of multiwalled carbon nanotube by tip-enhanced Raman spectroscopy. Carbon, 2016, 99, 642-648.	10.3	31
29	Coulomb Blockade in a Two-Dimensional Conductive Polymer Monolayer. Physical Review Letters, 2015, 115, 196801.	7.8	15
30	Simple mass-production method of substrate-free powders for applications of the Morpho-colored materials. , 2015, , .		4
31	Self-Assembly Formation of M-Type Enantiomer of 2,13-Bis(hydroxymethyl)[7]-thiaheterohelicene Molecules on Au(111) Surface Investigated by STM/CITS. Journal of Physical Chemistry C, 2015, 119, 21434-21442.	3.1	14
32	Advantages of flattened electrode in bottom contact single-walled carbon nanotube field-effect transistor. Applied Physics Letters, 2014, 105, .	3.3	7
33	Simulation analysis on the optical role of the number of randomly arranged nano-trees on the Morphobutterfly's scale. , 2013, , .		3
34	lsotropic charge transport in highly ordered regioregular poly(3-hexylthiophene) monolayer. Journal Physics D: Applied Physics, 2013, 46, 425303.	2.8	4
35	High-throughput reproduction of the Morpho butterfly's specific high contrast blue. , 2012, ,		7
36	Controlled chain polymerisation and chemical soldering for single-molecule electronics. Nanoscale, 2012, 4, 3013.	5.6	68

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#	Article	IF	CITATIONS
37	Verification of thermal effect produced by irradiation for scanning tunneling microscope combined with brilliant hard X-rays from synchrotron radiation. Current Applied Physics, 2012, 12, S52-S56.	2.4	7
38	Direct Observation of X-ray Induced Atomic Motion Using Scanning Tunneling Microscope Combined with Synchrotron Radiation. Journal of Nanoscience and Nanotechnology, 2011, 11, 2873-2881.	0.9	4
39	Charge-Carrier Injection into Pentacene Thin Film Formed on Si(111) Probed by STM Spectroscopy. Journal of Nanoscience and Nanotechnology, 2011, 11, 2867-2872.	0.9	0
40	STM-induced light emission from thin films of perylene derivatives on the HOPG and Au substrates. Nanoscale Research Letters, 2011, 6, 347.	5.7	19
41	Electrical conduction of organic ultrathin films evaluated by an independently driven double-tip scanning tunneling microscope. Journal of Physics Condensed Matter, 2011, 23, 434002.	1.8	1
42	Numerical Analysis on the Optical Role of Nano-Randomness on the <i>Morpho</i> Butterfly's Scale. Journal of Nanoscience and Nanotechnology, 2011, 11, 2785-2792.	0.9	52
43	Enhanced Red-Light Emission by Local Plasmon Coupling of Au Nanorods in an Organic Light-Emitting Diode. Applied Physics Express, 2011, 4, 032105.	2.4	28
44	Formation and electrical transport properties of pentacene nanorod crystal. Nanotechnology, 2010, 21, 365601.	2.6	3
45	Enhanced fluorescence by surface plasmon coupling of Au nanoparticles in an organic electroluminescence diode. Applied Physics Letters, 2010, 96, .	3.3	145
46	Reproduction of Morpho Butterfly's Color by Dielectric Multilayer Structure. Journal of the Vacuum Society of Japan, 2009, 52, 218-223.	0.3	2
47	Reproduction, mass production, and control of the Morpho butterfly's blue. , 2009, , .		32
48	Correlated growth of organic material tris (8-hydroxyquinoline) aluminum (Alq3) and its relation to optical properties. Journal of Applied Physics, 2009, 106, 096101.	2.5	2
49	ãfŠãfŽã,®ãf£ãffāf—å¹³å┥電極ãëä,€æ¬¡åfå^†åç∽ç·š. Electrochemistry, 2009, 77, 894-898.	1.4	0
50	Nanoscale elemental identification by synchrotronâ€radiationâ€based scanning tunneling microscopy. Surface and Interface Analysis, 2008, 40, 1033-1036.	1.8	12
51	Polymerizationâ€directionâ€controlled growth of polydiacetylene on artificial silicon oxide templates. Surface and Interface Analysis, 2008, 40, 1037-1041.	1.8	2
52	Spatially resolved detection of plasmonâ€enhanced fluorescence using scanning tunneling microscopy. Surface and Interface Analysis, 2008, 40, 1050-1053.	1.8	7
53	High-mobility organic single crystal transistors with submicrometer channels. Applied Physics Letters, 2008, 93, 023303.	3.3	14
54	Reproduction of Morpho Butterfly's Blue and its Optimization of Characteristics. Journal of the Society of Powder Technology, Japan, 2008, 45, 180-186.	0.1	1

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55	Study for noise reduction in synchrotron radiation based scanning tunneling microscopy by developing insulator-coat tip. Surface Science, 2007, 601, 5294-5299.	1.9	18
56	Local-plasmon-enhanced up-conversion fluorescence from copper phthalocyanine. Chemical Physics Letters, 2007, 448, 232-236.	2.6	53
57	Development of the Technology for Mass Production of Morpho-blue by Nanoimprint Lithography. Hyomen Kagaku, 2007, 28, 414-420.	0.0	1
58	Development of a scanning tunneling microscope forin situexperiments with a synchrotron radiation hard-X-ray microbeam. Journal of Synchrotron Radiation, 2006, 13, 216-220.	2.4	45
59	Control of conduction of iodine-doped poly(3-octylthiophene) thin films by double-tip scanning tunneling microscopy. Chemical Physics Letters, 2006, 419, 250-253.	2.6	2
60	Tunneling-current-induced light emission from individual carbon nanotubes. Surface Science, 2006, 600, L15-L19.	1.9	16
61	Scanning Tunneling Microscopy Combined with Hard X-ray Microbeam of High Brilliance from Synchrotron Radiation Source. Japanese Journal of Applied Physics, 2006, 45, 1913-1916.	1.5	8
62	Polaron Injection into One-Dimensional Polydiacetylene Nanowire. Japanese Journal of Applied Physics, 2006, 45, 2049-2052.	1.5	13
63	Application of Simple Mechanical Polishing to Fabrication of Nanogap Flat Electrodes. Japanese Journal of Applied Physics, 2006, 45, L145-L147.	1.5	18
64	Quantum point-contact switches using silver particles. Applied Physics Letters, 2006, 88, 023107.	3.3	7
65	Tunneling-Current-Induced Light Emission from Copper Phthalocyanine Thin Films. E-Journal of Surface Science and Nanotechnology, 2006, 4, 559-562.	0.4	6
66	Significant increase in conductivity of polydiacetylene thin film induced by iodine doping. Surface Science, 2005, 591, L273-L279.	1.9	35
67	Structural Study of Initial Growth of Nickel on Yttria-Stabilized Zirconia by Coaxial Impact-Collision Ion Scattering Spectroscopy. Japanese Journal of Applied Physics, 2005, 44, 2630-2633.	1.5	0
68	Construction of Independently Driven Double-Tip Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 2005, 44, L120-L122.	1.5	40
69	Structure of Atomically Smoothed LiNbO3(0001) Surface. Japanese Journal of Applied Physics, 2004, 43, 2057-2060.	1.5	18
70	Conductivity Measurement of Polydiacetylene Thin Films by Double-Tip Scanning Tunneling Microscopy. Journal of Physical Chemistry B, 2004, 108, 16353-16356.	2.6	61
71	Electronic Structure of a Polydiacetylene Nanowire Fabricated on Highly Ordered Pyrolytic Graphite. Physical Review Letters, 2003, 91, 255501.	7.8	72
72	Scanning tunneling microscopy observation of binary monolayers of 10,12-ticosadiynoic acid and stearic acid deposited by horizontal lifting method. Surface Science, 2001, 476, L254-L258.	1.9	6

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73	Scanning tunneling microscopy and molecular orbital calculation of pentacene molecules adsorbed on the Si(100)2×1 surface. Surface Science, 1998, 400, 367-374.	1.9	56
74	Scanning tunneling microscopy and molecular orbital calculation of organic molecules adsorbed on the Si(100)2×1 surface. Surface Science, 1998, 406, 302-311.	1.9	15
75	Scanning tunneling microscopy and molecular orbital calculation of thymine and adenine molecules adsorbed on the Si(100)2 × 1 surface. Surface Science, 1996, 357-358, 195-201.	1.9	15
76	Adsorption Structure of Copper-Phthalocyanine Molecules on a \$f Si(100)2imes 1\$ Surface Observed by Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 1996, 35, L405-L407.	1.5	21
77	Scanning tunneling microscopy observation and theoretical calculation of the adsorption of adenine on Si(100)2 × 1 surfaces. Surface Science, 1995, 342, 215-223.	1.9	24
78	Valence Band Density of States of the Iron Silicides Studied by Soft X-Ray Emission Spectroscopy. Journal of the Physical Society of Japan, 1994, 63, 4097-4101.	1.6	8
79	Study of iron silicide formation on Si(111) by soft x-ray emission spectroscopy. Applied Surface Science, 1994, 75, 110-114.	6.1	7