

Kei Noda

List of Publications by Year in descending order

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63
papers

862
citations

567281

15
h-index

526287

27
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65
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65
docs citations

65
times ranked

1180
citing authors

#	ARTICLE	IF	CITATIONS
1	Remanent polarization of evaporated films of vinylidene fluoride oligomers. <i>Journal of Applied Physics</i> , 2003, 93, 2866-2870.	2.5	94
2	Self-Assembly of Metal-Organic Virus Nanodumbbells. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3149-3151.	13.8	60
3	Structures of vinylidene fluoride oligomer thin films on alkali halide substrate. <i>Journal of Applied Physics</i> , 1999, 86, 3688-3693.	2.5	56
4	Preparation and Photophysical and Photoelectrochemical Properties of a Covalently Fixed Porphyrin-Graphene Composite. <i>Chemistry - A European Journal</i> , 2012, 18, 4250-4257.	3.3	55
5	Alkyl and Alkoxy Monolayers Directly Attached to Silicon: Chemical Durability in Aqueous Solutions. <i>Langmuir</i> , 2009, 25, 5516-5525.	3.5	45
6	Molecular Ferroelectricity of Vinylidene Fluoride Oligomer Investigated by Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 4361-4364.	1.5	39
7	Comparison of Electrochemical Impedance Spectroscopy between Illumination and Dark Conditions. <i>Chemistry Letters</i> , 2011, 40, 890-892.	1.3	38
8	Structures and Ferroelectric Natures of Epitaxially Grown Vinylidene Fluoride Oligomer Thin Films. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 6358-6363.	1.5	34
9	Molecular doping effect in bottom-gate, bottom-contact pentacene thin-film transistors. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	24
10	Molecular-scale non-contact AFM studies of ferroelectric organic thin films epitaxially grown on alkali halides. <i>Surface Science</i> , 2002, 516, 103-108.	1.9	23
11	Investigation of electrical transport in anodized single TiO ₂ nanotubes. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	23
12	N-channel thin-film transistors based on 1,4,5,8-naphthalene tetracarboxylic dianhydride with ultrathin polymer gate buffer layer. <i>Thin Solid Films</i> , 2009, 518, 571-574.	1.8	20
13	Interlayer Resistance and Edge-Specific Charging in Layered Molecular Crystals Revealed by Kelvin-Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3006-3011.	3.1	20
14	Flexible programmable logic gate using organic ferroelectric multilayer. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	19
15	Intrinsic difference in Schottky barrier effect for device configuration of organic thin-film transistors. <i>Organic Electronics</i> , 2014, 15, 1571-1578.	2.6	16
16	Real-time investigation on photocatalytic oxidation of gaseous methanol with nanocrystalline WO ₃ -TiO ₂ composite films. <i>Thin Solid Films</i> , 2012, 520, 3847-3851.	1.8	13
17	Effect of deposition potential and annealing on performance of electrodeposited copper oxide thin films for supercapacitor application. <i>Solid State Sciences</i> , 2022, 123, 106780.	3.2	13
18	Pyroelectricity of Ferroelectric Vinylidene Fluoride-Oligomer-Evaporated Thin Films. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L1334-L1336.	1.5	12

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19	Intricate photocatalytic decomposition behavior of gaseous methanol with nanocrystalline tungsten trioxide films in high vacuum. <i>Applied Surface Science</i> , 2011, 257, 10300-10305.	6.1	12
20	Numerical investigation of organic thin-film transistors using a thermionic field emission model. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 06JH02.	1.5	12
21	Organosilane self-assembled multilayer formation based on activation of methyl-terminated surface with reactive oxygen species generated by vacuum ultra-violet excitation of atmospheric oxygen molecules. <i>Applied Surface Science</i> , 2009, 256, 1507-1513.	6.1	11
22	Visualization of trapped charges being ejected from organic thin-film transistor channels by Kelvin-probe force microscopy during gate voltage sweeps. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	11
23	High-purity hydrogen generation by ultraviolet illumination with the membrane composed of titanium dioxide nanotube array and Pd layer. <i>Applied Physics Letters</i> , 2011, 99, 123107.	3.3	10
24	Thermal Conversion of Precursor Polymer to Low Bandgap Conjugated Polymer Containing Isothianaphthene Dimer Subunits. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1256-1264.	3.1	10
25	DC Hall-effect measurement for inkjet-deposited films of poly(3,4-ethylenedioxythiophene)/poly(4-styrenesulfonate) by using microscale gap electrodes. <i>Synthetic Metals</i> , 2016, 215, 28-34.	3.9	10
26	Photocatalytic decomposition of gaseous methanol over anodized iron oxide nanotube arrays in high vacuum. <i>Materials Research Bulletin</i> , 2018, 99, 367-376.	5.2	10
27	N-channel operation of pentacene thin-film transistors with ultrathin polymer gate buffer layer. <i>Synthetic Metals</i> , 2010, 160, 83-87.	3.9	9
28	Investigation of electron trapping behavior in n-channel organic thin-film transistors with ultrathin polymer passivation on SiO ₂ gate insulator. <i>Synthetic Metals</i> , 2010, 160, 1574-1578.	3.9	9
29	A Photoconductive, Thiophene- Fullerene Double-Cable Polymer, Nanorod Device. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 478-481.	4.6	9
30	Current Enhancement with Contact-Area-Limited Doping for Bottom-Gate, Bottom-Contact Organic Thin-Film Transistors. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 021602.	1.5	9
31	Experimental and numerical analysis of channel-length-dependent electrical properties in bottom-gate, bottom-contact organic thin-film transistors with Schottky contact. <i>Organic Electronics</i> , 2014, 15, 3681-3687.	2.6	9
32	Extraction of contact resistance and channel parameters from the electrical characteristics of a single bottom-gate/top-contact organic transistor. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 03DC07.	1.5	9
33	Alternate stacking of transition metal ions and terephthalic acid molecules for the fabrication of self-assembled multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 321, 249-253.	4.7	8
34	Gas phase photocatalytic decomposition of alcohols with titanium dioxide nanotube arrays in high vacuum. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 549-551.	0.8	8
35	Donor-Acceptor Alternating Copolymer Based on Thermally Converted Isothianaphthene Dimer and Thiazolothiazole Subunits. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17414-17423.	3.1	8
36	Intricate behaviors of gas phase CO ₂ photoreduction in high vacuum using Cu ₂ O-loaded TiO ₂ nanotube arrays. <i>Journal of CO₂ Utilization</i> , 2022, 59, 101964.	6.8	8

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37	Real-time Detection of Photocatalytic Hydrogen Production for Platinized Titanium Dioxide Thin Films in High Vacuum. Japanese Journal of Applied Physics, 2007, 46, L749-L751.	1.5	7
38	Ultrathin polymer gate buffer layer for air-stable, low-voltage, n-channel organic thin-film transistors. Polymers for Advanced Technologies, 2010, 21, 528-532.	3.2	7
39	All electrochemical fabrication of a bilayer membrane composed of nanotubular photocatalyst and palladium toward high-purity hydrogen production. Applied Surface Science, 2015, 357, 214-220.	6.1	7
40	Experimental and numerical investigation of contact-area-limited doping for top-contact pentacene thin-film transistors with Schottky contact. Physical Chemistry Chemical Physics, 2015, 17, 26535-26540.	2.8	7
41	A dendritic oligoarylamine-substituted benzimidazole derivative as a useful n-type dopant. Journal of Materials Chemistry C, 2018, 6, 6429-6439.	5.5	7
42	Organic field-effect transistors with molecularly doped polymer gate buffer layer. Synthetic Metals, 2012, 162, 1887-1893.	3.9	6
43	All-electrochemical fabrication of Fe_2O_3 nanotube array/ Cu_2O composites toward visible-light-responsive photocatalysis. Japanese Journal of Applied Physics, 2020, 59, 065503.	1.5	5
44	Hydrogen production from gas phase photocatalytic decomposition of methanol using Pt-supported nanocrystalline WO_3 films. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 552-554.	0.8	4
45	Local carrier dynamics in organic thin film transistors investigated by time-resolved Kelvin probe force microscopy. Organic Electronics, 2018, 57, 118-122.	2.6	3
46	Temperature dependence of photoinduced hydrogen production and simultaneous separation in TiO_2 nanotubes/palladium bilayer membrane. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 04H101.	1.2	3
47	Effects of an edge vacancy on electron transport in zigzag-graphene nanoribbons with oxygen terminations. Japanese Journal of Applied Physics, 2019, 58, 025002.	1.5	3
48	Real-time monitoring of photocatalytic methanol decomposition over Cu_2O -loaded TiO_2 nanotube arrays in high vacuum. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	1.2	3
49	Visible light responsive photocatalytic hydrogen production over composites of anodized TiO_2 nanotube array and graphitic carbon nitride measured with a gas circulating reactor. Japanese Journal of Applied Physics, 2021, 60, 105504.	1.5	3
50	Hall-effect Measurement of Organic Semiconductor Layers Using Micro-scale Electrode Chips. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1398-1401.	0.2	3
51	Surface potential measurement of fullerene derivative/copper phthalocyanine on indium tin oxide electrode by Kelvin probe force microscopy. Japanese Journal of Applied Physics, 2015, 54, 08KF06.	1.5	2
52	Experimental and Numerical Investigation of Contact Doping Effects in Dinaphthothienothiophene Thin-Film Transistors. Electronics and Communications in Japan, 2017, 100, 61-68.	0.5	2
53	Contact effects analyzed by a parameter extraction method based on a single bottom-gate/top-contact organic thin-film transistor. Japanese Journal of Applied Physics, 2018, 57, 03EH04.	1.5	2
54	Switching characteristics in the ferroelectric organic molecular memories. , 2006, , .		1

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55	Photocatalytic Hydrogen Production from Gas-phase Methanol and Water with Nanocrystalline TiO ₂ Thin Films in High Vacuum. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	1
56	Spin-filter effect by introducing an edge vacancy on armchair graphene nanoribbons with oxygen termination. Japanese Journal of Applied Physics, 2019, 58, 045001.	1.5	1
57	Solvent vapor annealing for poly(2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene) thin films toward transistor fabrication. Japanese Journal of Applied Physics, 2020, 59, SDDA02.	1.5	1
58	Characteristic Control of n-Channel Organic Thin-Film Transistors Using a Dimethyl-Substituted Benzimidazole Dopant. ACS Applied Electronic Materials, 2021, 3, 5296-5306.	4.3	1
59	Density measurement for carbon nanotube film grown on flat substrates. Applied Physics Express, 2020, 13, 016501.	2.4	0
60	Charge Carrier Doping for Organic Transistors. Journal of the Institute of Electrical Engineers of Japan, 2016, 136, 78-81.	0.0	0
61	Introductory Remarks-Background of Organic Electronics and Importance of Molecular Control Techniques. Journal of the Institute of Electrical Engineers of Japan, 2016, 136, 72-73.	0.0	0
62	Experimental and Numerical Investigation of Contact Doping Effects in Dinaphthothienothiophene Thin-Film Transistors. IEEJ Transactions on Electronics, Information and Systems, 2017, 137, 20-25.	0.2	0
63	Formation and gas-phase photocatalysis of anodized hematite nanotubular arrays. Denki Kagaku, 2021, 89, 340-345.	0.0	0