Yutaka Ohno

List of Publications by Year
in descending order

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52	2,183	394421	214800
papers	citations	19 h-index	47 g-index

52	52	52	3025
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-plane dual-electrode triboelectric nanogenerator based on differential surface functionalization. Applied Physics Express, 2022, 15, 027006.	2.4	3
2	PMMA/Al₂O₃ bilayer passivation for suppression of hysteresis in chemically doped carbon nanotube thin-film transistors. Japanese Journal of Applied Physics, 2022, 61, 034002.	1.5	0
3	Key factors for ultra-high on/off ratio thin-film transistors using as-grown carbon nanotube networks. RSC Advances, 2022, 12, 16291-16295.	3.6	5
4	Lowâ€Voltage Operable and Strainâ€Insensitive Stretchable Allâ€Carbon Nanotube Integrated Circuits with Local Strain Suppression Layer. Advanced Electronic Materials, 2021, 7, .	5.1	9
5	Low-voltage carbon nanotube complementary electronics using chemical doping to tune the threshold voltage. Applied Physics Express, 2021, 14, 045002.	2.4	8
6	Simple and highly efficient intermittent operation circuit for triboelectric nanogenerator toward wearable electronic applications. Applied Physics Express, 2021, 14, 057001.	2.4	8
7	Tunable carbon nanotube diode with varying asymmetric geometry. AIP Advances, 2021, 11, 075212.	1.3	2
8	Dynamic Range Enhancement Via Linearized Output in Nanoelectromechanical Systems by Combining High-Order Harmonics. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3251-3255.	3.0	2
9	Cross-linking gelation of isomaltodextrin for the chromatographic separation of semiconducting carbon nanotubes. Applied Physics Express, 2021, 14, 017001.	2.4	4
10	Carbon Nanotube-Based Nanomechanical Receiver for Digital Data Transfer. ACS Applied Nano Materials, 2021, 4, 13041-13047.	5.0	4
11	High-output, transparent, stretchable triboelectric nanogenerator based on carbon nanotube thin film toward wearable energy harvesters. Nano Energy, 2020, 67, 104297.	16.0	64
12	Fabrication of Carbon Nanotube Thin Films for Flexible Transistors by Using a Crossâ€Linked Amine Polymer. Chemistry - A European Journal, 2020, 26, 6118-6121.	3.3	4
13	Effect of metal electrodes on optically detected magnetic resonance of nitrogen vacancy centers in diamond. Japanese Journal of Applied Physics, 2020, 59, 122002.	1.5	2
14	Dependence of enhancement factor on electrode size for field emission current from carbon nanotube on silicon wafer. Nanotechnology, 2019, 30, 425201.	2.6	5
15	Electrical property measurement of two-dimensional hole-gas layer on hydrogen-terminated diamond surface in vacuum-gap-gate structure. Applied Physics Letters, 2019, 114, .	3.3	6
16	Origins of the variability of the electrical characteristics of solution-processed carbon nanotube thin-film transistors and integrated circuits. Nanoscale Advances, 2019, 1, 636-642.	4.6	17
17	Highly Uniform, Flexible Microelectrodes Based on the Clean Single-Walled Carbon Nanotube Thin Film with High Electrochemical Activity. ACS Applied Materials & Interfaces, 2019, 11, 6389-6395.	8.0	13
18	Noise Modeling in Field Emission and Evaluation of the Nano-Receiver in Terms of Temperature. IEEE Access, 2019, 7, 57820-57828.	4.2	6

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19	Operando Analysis of Electron Devices Using Nanodiamond Thin Films Containing Nitrogen-Vacancy Centers. ACS Omega, 2019, 4, 7459-7466.	3.5	3
20	Carbon Nanotube Thin Films for High-Performance Flexible Electronics Applications. Topics in Current Chemistry, 2019, 377, 3.	5.8	19
21	Enhancement of the electron transfer rate in carbon nanotube flexible electrochemical sensors by surface functionalization. Electrochimica Acta, 2019, 295, 157-163.	5.2	21
22	Detection of Digitally Phase-Modulated Signals Utilizing Mechanical Vibration of CNT Cantilever. IEEE Nanotechnology Magazine, 2018, 17, 84-92.	2.0	12
23	Dry and Direct Deposition of Aerosol-Synthesized Single-Walled Carbon Nanotubes by Thermophoresis. ACS Applied Materials & Interfaces, 2017, 9, 20738-20747.	8.0	42
24	Highly individual SWCNTs for high performance thin film electronics. Carbon, 2016, 103, 228-234.	10.3	63
25	Toward the Limits of Uniformity of Mixed Metallicity SWCNT TFT Arrays with Spark-Synthesized and Surface-Density-Controlled Nanotube Networks. ACS Applied Materials & Interfaces, 2015, 7, 28134-28141.	8.0	11
26	Considerably improved photovoltaic performance of carbon nanotube-based solar cells using metal oxide layers. Nature Communications, 2015, 6, 6305.	12.8	135
27	Printed, short-channel, top-gate carbon nanotube thin-film transistors on flexible plastic film. Applied Physics Express, 2015, 8, 045102.	2.4	7
28	Overcoming the qualityâ€“quantity tradeoff in dispersion and printing of carbon nanotubes by a repetitive dispersionâ€“extraction process. Carbon, 2015, 91, 20-29.	10.3	25
29	Angular Sensitivity of VHF-Band CNT Antenna. IEEE Nanotechnology Magazine, 2015, 14, 1112-1116.	2.0	9
30	Fabrication of Single-Walled Carbon Nanotube/Si Heterojunction Solar Cells with High Photovoltaic Performance. ACS Photonics, 2014, 1, 360-364.	6.6	42
31	One-Step Sub-10 Î¼m Patterning of Carbon-Nanotube Thin Films for Transparent Conductor Applications. ACS Nano, 2014, 8, 3285-3293.	14.6	76
32	Mouldable all-carbon integrated circuits. Nature Communications, 2013, 4, 2302.	12.8	141
33	Spatially Resolved Transport Properties of Pristine and Doped Single-Walled Carbon Nanotube Networks. Journal of Physical Chemistry C, 2013, 117, 13324-13330.	3.1	86
34	Fabrication of highâ€mobility n â€type carbon nanotube thinâ€film transistors on plastic film. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1612-1615.	0.8	9
35	Electrical properties of the graphitic carbon contacts on carbon nanotube field effect transistors. Applied Physics Letters, 2012, 101, .	3.3	10
36	Effect of carbon nanotube network morphology on thin film transistor performance. Nano Research, 2012, 5, 307-319.	10.4	59

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37	Thin-Film Transistors with Length-Sorted DNA-Wrapped Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 270-273.	3.1	25
38	Flexible high-performance carbon nanotube integrated circuits. Nature Nanotechnology, 2011, 6, 156-161.	31.5	652
39	Length-sorted semiconducting carbon nanotubes for high-mobility thin film transistors. Nano Research, 2011, 4, 963-970.	10.4	128
40	Improvement in alignment of single-walled carbon nanotubes grown on quartz substrate. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 561-563.	0.8	1
41	Impact of fixed charges at interfaces on the operation of top-gate carbon nanotube field-effect transistors. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 567-569.	0.8	0
42	Highâ€Performance Thinâ€Film Transistors with DNAâ€Assisted Solution Processing of Isolated Singleâ€Walled Carbon Nanotubes. Advanced Materials, 2010, 22, 2698-2701.	21.0	54
43	A study of preferential growth of carbon nanotubes with semiconducting behavior grown by plasma-enhanced chemical vapor deposition. Journal of Applied Physics, 2009, 106, 073705.	2.5	27
44	POTENTIAL PROFILE MEASUREMENT OF CARBON NANOTUBE FETs BASED ON THE ELECTROSTATIC FORCE DETECTION. Nano, 2008, 03, 51-54.	1.0	5
45	Excitonic transition energies in single-walled carbon nanotubes: Dependence on environmental dielectric constant. Physica Status Solidi (B): Basic Research, 2007, 244, 4002-4005.	1.5	84
46	Interfacial Property of Metal/Nanotube Contacts in Carbon Nanotube Transistors. Hyomen Kagaku, 2007, 28, 40-45.	0.0	0
47	Chirality-dependent environmental effects in photoluminescence of single-walled carbon nanotubes. Physical Review B, 2006, 73, .	3.2	111
48	Surface potential measurements of AlGaNâˆ•GaN high-electron-mobility transistors by Kelvin probe force microscopy. Applied Physics Letters, 2004, 85, 6028-6029.	3.3	19
49	Effects of surface passivation on breakdown of AlGaN/GaN high-electron-mobility transistors. Applied Physics Letters, 2004, 84, 2184-2186.	3.3	124
50	Study on off-state breakdown in AlGaN/GaN HEMTs. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2335-2338.	0.8	18
51	Effects of the HEMT parameters on the operation frequency of resonant tunneling logic gate MOBILE. Electronics and Communications in Japan, 2002, 85, 1-6.	0.2	3
52	Effect of electrochemical functionalization of single-walled carbon nanotube electrodes in flexible enzymatic biofuel cells. Japanese Journal of Applied Physics, 0, , .	1.5	0