

Daiju Tsuya

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,101
citations

471509

17
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

1897
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization independent visible color filter comprising an aluminum film with surface-plasmon enhanced transmission through a subwavelength array of holes. Applied Physics Letters, 2011, 98, .	3.3	208
2	Electrochemical impedance spectroscopy biosensor with interdigitated electrode for detection of human immunoglobulin A. Biosensors and Bioelectronics, 2013, 40, 422-426.	10.1	108
3	Introducing Nonuniform Strain to Graphene Using Dielectric Nanopillars. Applied Physics Express, 2011, 4, 075102.	2.4	101
4	Low contact resistance metals for graphene based devices. Diamond and Related Materials, 2012, 24, 171-174.	3.9	94
5	Observation of the quantum valley Hall state in ballistic graphene superlattices. Science Advances, 2018, 4, eaaq0194.	10.3	78
6	Coupled Quantum Dots in a Graphene-Based Two-Dimensional Semimetal. Nano Letters, 2009, 9, 2891-2896.	9.1	59
7	Bubble-Free Transfer Technique for High-Quality Graphene/Hexagonal Boron Nitride van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 8533-8538.	8.0	49
8	Fabrication of single and coupled quantum dots in single-wall carbon nanotubes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 2770.	1.6	32
9	Development of AlN/diamond heterojunction field effect transistors. Diamond and Related Materials, 2012, 24, 206-209.	3.9	31
10	Low-Temperature Transport Properties of Holes Introduced by Ionic Liquid Gating in Hydrogen-Terminated Diamond Surfaces. Journal of the Physical Society of Japan, 2013, 82, 074718.	1.6	30
11	Topological valley currents in bilayer graphene/hexagonal boron nitride superlattices. Applied Physics Letters, 2019, 114, .	3.3	29
12	Electrical transport in semiconducting carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 24, 46-49.	2.7	26
13	Cell cycle and size sorting of mammalian cells using a microfluidic device. Analytical Methods, 2010, 2, 657.	2.7	22
14	Optical rectification effect due to surface plasmon polaritons at normal incidence in a nondiffraction regime. Optics Letters, 2012, 37, 2793.	3.3	21
15	Controlled formation of wrinkled diamond-like carbon (DLC) film on grooved poly(dimethylsiloxane) substrate. Diamond and Related Materials, 2012, 22, 48-51.	3.9	21
16	Fabrication of high- <i>k</i> /metal-gate MoS ₂ field-effect transistor by device isolation process utilizing Ar-plasma etching. Japanese Journal of Applied Physics, 2015, 54, 046502.	1.5	20
17	Field-induced confined states in graphene. Applied Physics Letters, 2014, 104, 053108.	3.3	19
18	Fabrication of quantum-dot devices in graphene. Science and Technology of Advanced Materials, 2010, 11, 054601.	6.1	15

#	ARTICLE	IF	CITATIONS
19	Characterization of Effective Mobility and Its Degradation Mechanism in MoS ₂ MOSFETs. IEEE Nanotechnology Magazine, 2016, 15, 651-656.	2.0	14
20	Oriented antibody immobilization on self-assembled monolayers applied as impedance biosensors. Journal of Physics: Conference Series, 2017, 924, 012015.	0.4	12
21	Fabrication of a Single-Electron Inverter in Single-Wall Carbon Nanotubes. Japanese Journal of Applied Physics, 2005, 44, 1588-1591.	1.5	12
22	Quantum Dots and Their Tunnel Barrier in Semiconducting Single-Wall Carbon Nanotubes with a p-Type Behavior. Japanese Journal of Applied Physics, 2005, 44, 2596-2599.	1.5	11
23	Transmission phase control by stacked metal-dielectric hole array with two-dimensional geometric design. Optics Express, 2012, 20, 16092.	3.4	9
24	Polarization Filters for Visible Light Consisting of Subwavelength Slits in an Aluminum Film. Journal of Lightwave Technology, 2012, 30, 3463-3467.	4.6	9
25	Transfection efficiency for size-separated cells synchronized in cell cycle by microfluidic device. Biomedical Microdevices, 2011, 13, 725-729.	2.8	7
26	Wavefront control by stacked metal-dielectric hole array with variable hole shapes. Optics Express, 2013, 21, 6153.	3.4	7
27	RGB color filter comprising aluminum film with surface plasmon enhanced transmission through sub-wavelength hole-arrays. , 2009, , .		6
28	Magnetoresistance of Drop-Cast Film of Cobalt-Substituted Magnetite Nanocrystals. ACS Applied Materials & Interfaces, 2014, 6, 17410-17415.	8.0	6
29	Self-powered hydrogen peroxide sensor and its application as a biosensor. Japanese Journal of Applied Physics, 2019, 58, SBBG16.	1.5	6
30	Metal-insulator transition sustained by Cr-doping in V ₂ O ₃ nanocrystals. Applied Physics Letters, 2012, 100, 043103.	3.3	5
31	Nanometer-thin ALD-Al ₂ O ₃ for the improvement of the structural quality of AlN grown on sapphire substrate by MOVPE. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600727.	1.8	5
32	Toward a Practical Impedimetric Biosensor: A Micro-Gap Parallel Plate Electrode Structure That Suppresses Unexpected Device-to-Device Variations. ACS Omega, 2022, 7, 11017-11022.	3.5	5
33	Non-equilibrium photoexcited carrier effects in a graphene-based Josephson junction. Applied Physics Letters, 2016, 108, .	3.3	4
34	Logarithmic temperature dependence of resistivity in CVD graphene. Current Applied Physics, 2017, 17, 474-478.	2.4	4
35	Development of nano and micro SQUIDs based on Al tunnel junctions. Journal of Physics: Conference Series, 2014, 568, 022019.	0.4	3
36	Preparation of large-area molecular junctions with metallic conducting Langmuir-Blodgett films. Thin Solid Films, 2014, 554, 84-88.	1.8	3

#	ARTICLE	IF	CITATIONS
37	Regenerable myoglobin biosensor based on protein G immobilized on interdigitated electrodes. Japanese Journal of Applied Physics, 2020, 59, SCCA05.	1.5	3
38	Observation of discrete quantum levels in multi-wall carbon nanotube quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 24, 50-53.	2.7	2
39	Fabrication of folded bilayer-bilayer graphene/hexagonal boron nitride superlattices. Applied Physics Express, 2020, 13, 035003.	2.4	2
40	Carbon nanotubes as a building block of quantum dot devices. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 24, 10-13.	2.7	1
41	Coulomb blockade behavior in nanostructured graphene with direct contacts. Materials Express, 2013, 3, 92-96.	0.5	1
42	Optical Filters Based on Nano-Sized Hole and Slit Patterns in Aluminum Films. IEICE Transactions on Electronics, 2016, E99.C, 358-364.	0.6	1
43	One-dimensional shell-filling and single spin polarization in carbon nanotube quantum dots. , 2005, 5732, 19.		0
44	Magnetoresistance over 1000 % in CoFe/carbon nanotube/CoFe junctions. AIP Conference Proceedings, 2005, , .	0.4	0
45	Characterization of effective mobility by split C-V technique in MoS2 MOSFETs with high-k/metal gate. , 2015, , .		0
46	Observation of Hofstadter butterfly and valley Hall effect in hBN/graphene/hBN heterostructures. , 2016, , .		0
47	Field Effect of a Chemically Assembled Fe ₃ O ₄ Nanocrystal Film Single-Electron Transistor. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700608.	1.8	0
48	Tunnel barrier formation in carbon nanotubes for quantum dot devices. , 2003, , .		0
49	Nanophotonics Based on Semiconductor-Photonic Crystal/Quantum Dot and Metal-/Semiconductor-Plasmonics. IEICE Transactions on Electronics, 2012, E95-C, 178-187.	0.6	0
50	Development of New Neutron Mirrors for Measuring the Neutron Electric Dipole Moment. , 2018, , .		0