

Takashi Ikuta

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

407
citations

759055

12
h-index

794469

19
g-index

26
all docs

26
docs citations

26
times ranked

455
citing authors

#	ARTICLE	IF	CITATIONS
1	The Monte Carlo technique as applied to the fundamentals of EPMA and SEM. Journal of Applied Physics, 1972, 43, 4233-4249.	1.1	89
2	Graphene Surface Acoustic Wave Sensor for Simultaneous Detection of Charge and Mass. ACS Sensors, 2018, 3, 200-204.	4.0	42
3	Turbostratic stacked CVD graphene for high-performance devices. Japanese Journal of Applied Physics, 2018, 57, 030311.	0.8	38
4	Glycan-functionalized graphene-FETs toward selective detection of human-infectious avian influenza virus. Japanese Journal of Applied Physics, 2017, 56, 030302.	0.8	34
5	Room-temperature discrete-charge-fluctuation dynamics of a single molecule adsorbed on a carbon nanotube. Nanoscale, 2017, 9, 10674-10683.	2.8	25
6	Photosensing System Using Photosystem I and Gold Nanoparticle on Graphene Field-Effect Transistor. ACS Applied Materials & Interfaces, 2019, 11, 42773-42779.	4.0	24
7	Acoustic carrier transportation induced by surface acoustic waves in graphene in solution. Applied Physics Express, 2016, 9, 045104.	1.1	21
8	pH Sensor Based on Chemical-Vapor-Deposition-Synthesized Graphene Transistor Array. Japanese Journal of Applied Physics, 2013, 52, 06GK04.	0.8	20
9	High-responsivity turbostratic stacked graphene photodetectors using enhanced photogating. Applied Physics Express, 2019, 12, 122010.	1.1	18
10	Selective Detection of Cu ²⁺ Ions by Immobilizing Thiocalix[4]arene on Graphene Field-Effect Transistors. ACS Omega, 2020, 5, 877-881.	1.6	18
11	Ethanol Detection at the Parts per Billion Level with Single-stranded DNA-Modified Graphene Field-Effect Transistors. Physica Status Solidi (B): Basic Research, 2020, 257, 1900376.	0.7	13
12	Direct graphene synthesis on a Si/SiO ₂ substrate by a simple annealing process. Materials Research Express, 2014, 1, 025028.	0.8	12
13	Palladium configuration dependence of hydrogen detection sensitivity based on graphene FET for breath analysis. Japanese Journal of Applied Physics, 2018, 57, 04FP05.	0.8	11
14	Stroboscopic Observation of Magnetic Domain Wall Motion with a Light Emitting Diode. Review of Scientific Instruments, 1973, 44, 1412-1413.	0.6	8
15	Electrical detection of ppb region NO ₂ using Mg-porphyrin-modified graphene field-effect transistors. Nanoscale Advances, 0, , .	2.2	8
16	Electrical Detection of Molecular Transformations Associated with Chemical Reactions Using Graphene Devices. ACS Applied Materials & Interfaces, 2021, 13, 45001-45007.	4.0	7
17	Graphene device array using transfer-free patterned growth on insulator for an electrolyte-gated sensor. Thin Solid Films, 2016, 612, 87-90.	0.8	5
18	Development of an odorant sensor with a cell-free synthesized olfactory receptor and a graphene field-effect transistor. Analytical Sciences, 2022, 38, 241-245.	0.8	5

#	ARTICLE	IF	CITATIONS
19	Turbostratic stacked graphene-based high-responsivity mid-wavelength infrared detector using an enhanced photogating effect. <i>Optical Materials Express</i> , 2022, 12, 458.	1.6	4
20	Detection Kondo effect in graphene quantum dots. , 2016, , .		2
21	Enhanced photogating effect with turbostratic stacked graphene photodetectors for developing high-responsivity infrared sensors. , 2021, , .		1
22	First-principles calculation of electronic structure of turbostratic graphene for high-responsivity infrared detection with enhanced photogating effect. , 2020, , .		1
23	Effect of changing electronic states of molecules on frequency domain of graphene FETs. <i>Applied Physics Express</i> , 2022, 15, 045001.	1.1	1
24	Large deformation and rapid response of spatial light modulators fabricated with suspended polymer. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SDDL04.	0.8	0
25	Influence of DNA Sequences on Gas Responses Using DNA-modified Graphene Devices. , 2019, , .		0
26	Dirac-point Shift of Graphene-FET in the Presence of Ionic Molecules or Surfactants. <i>Chemistry Letters</i> , 2021, 50, 1639-1642.	0.7	0