Takashi Ikuta

List of Publications by Year in Descending Order

23 papers	300 citations	10 h-index	17 g-index
26 ext. papers	356 ext. citations	3.3 avg, IF	3.2 L-index

#	Paper	IF	Citations
23	Turbostratic stacked graphene-based high-responsivity mid-wavelength infrared detector using an enhanced photogating effect. *Optical Materials Express*, **2022**, 12, 458	2.6	1
22	Development of an odorant sensor with a cell-free synthesized olfactory receptor and a graphene field-effect transistor.. *Analytical Sciences*, **2022**, 38, 241-245	1.7	1
21	Effect of changing electronic states of molecules on frequency domain of graphene FETs. *Applied Physics Express*, **2022**, 15, 045001	2.4	1
20	Dirac-point Shift of Graphene-FET in the Presence of Ionic Molecules or Surfactants. *Chemistry Letters*, **2021**, 50, 1639-1642	1.7	
19	Electrical Detection of Molecular Transformations Associated with Chemical Reactions Using Graphene Devices. *ACS Applied Materials & Interfaces*, **2021**, 13, 45001-45007	9.5	3
18	Selective Detection of Cu Ions by Immobilizing Thiacalix[4]arene on Graphene Field-Effect Transistors. *ACS Omega*, **2020**, 5, 877-881	3.9	14
17	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	1.3	10
16	Large deformation and rapid response of spatial light modulators fabricated with suspended polymer. *Japanese Journal of Applied Physics*, **2019**, 58, SDDL04	1.4	
15	Photosensing System Using Photosystem I and Gold Nanoparticle on Graphene Field-Effect Transistor. *ACS Applied Materials & Interfaces*, **2019**, 11, 42773-42779	9.5	14
14	High-responsivity turbostratic stacked graphene photodetectors using enhanced photogating. *Applied Physics Express*, **2019**, 12, 122010	2.4	9
13	Graphene Surface Acoustic Wave Sensor for Simultaneous Detection of Charge and Mass. *ACS Sensors*, **2018**, 3, 200-204	9.2	31
12	Turbostratic stacked CVD graphene for high-performance devices. *Japanese Journal of Applied Physics*, **2018**, 57, 030311	1.4	26
11	Palladium configuration dependence of hydrogen detection sensitivity based on graphene FET for breath analysis. *Japanese Journal of Applied Physics*, **2018**, 57, 04FP05	1.4	7
10	Glycan-functionalized graphene-FETs toward selective detection of human-infectious avian influenza virus. *Japanese Journal of Applied Physics*, **2017**, 56, 030302	1.4	22
9	Room-temperature discrete-charge-fluctuation dynamics of a single molecule adsorbed on a carbon nanotube. *Nanoscale*, **2017**, 9, 10674-10683	7.7	18
8	Graphene device array using transfer-free patterned growth on insulator for an electrolyte-gated sensor. *Thin Solid Films*, **2016**, 612, 87-90	2.2	3
7	Acoustic carrier transportation induced by surface acoustic waves in graphene in solution. *Applied Physics Express*, **2016**, 9, 045104	2.4	14

6	Detection Kondo effect in graphene quantum dots **2016**,		1
5	Direct graphene synthesis on a Si/SiO2substrate by a simple annealing process. *Materials Research Express*, **2014**, 1, 025028	1.7	12
4	pH Sensor Based on Chemical-Vapor-Deposition-Synthesized Graphene Transistor Array. *Japanese Journal of Applied Physics*, **2013**, 52, 06GK04	1.4	19
3	Stroboscopic Observation of Magnetic Domain Wall Motion with a Light Emitting Diode. *Review of Scientific Instruments*, **1973**, 44, 1412-1413	1.7	7
2	The Monte Carlo technique as applied to the fundamentals of EPMA and SEM. *Journal of Applied Physics*, **1972**, 43, 4233-4249	2.5	79
1	Electrical detection of ppb region NO2 using Mg-porphyrin-modified graphene field-effect transistors. *Nanoscale Advances*,	5.1	6