

# Yasushi Kanai

## List of Publications by Year in descending order

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36  
papers

740  
citations

516710

16  
h-index

526287

27  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar Hall effect from the surface of topological insulators. Nature Communications, 2017, 8, 1340.	12.8	123
2	Electrical Biosensing at Physiological Ionic Strength Using Graphene Field-Effect Transistor in Femtoliter Microdroplet. Nano Letters, 2019, 19, 4004-4009.	9.1	63
3	Graphene Field Effect Transistor-Based Immunosensor for Ultrasensitive Noncompetitive Detection of Small Antigens. ACS Sensors, 2020, 5, 24-28.	7.8	58
4	Switching of charge-current-induced spin polarization in the topological insulator $\text{BiSbTeSe}$ . Physical Review B, 2016, 94, .	3.2	16
5	High responsivity middle-wavelength infrared graphene photodetectors using photo-gating. Applied Physics Letters, 2018, 113, .	3.3	43
6	Graphene Surface Acoustic Wave Sensor for Simultaneous Detection of Charge and Mass. ACS Sensors, 2018, 3, 200-204.	7.8	42
7	Giant Dirac point shift of graphene phototransistors by doped silicon substrate current. AIP Advances, 2016, 6, .	1.3	38
8	Glycan-functionalized graphene-FETs toward selective detection of human-infectious avian influenza virus. Japanese Journal of Applied Physics, 2017, 56, 030302.	1.5	34
9	Glycan structures of human alveoli provide insight into influenza A virus infection and pathogenesis. FEBS Journal, 2018, 285, 1611-1634.	4.7	31
10	Enhanced photogating via pyroelectric effect induced by insulator layer for high-responsivity long-wavelength infrared graphene-based photodetectors operating at room temperature. Applied Physics Express, 2019, 12, 025001.	2.4	26
11	Room-temperature discrete-charge-fluctuation dynamics of a single molecule adsorbed on a carbon nanotube. Nanoscale, 2017, 9, 10674-10683.	5.6	25
12	Photocurrent enhancement of graphene phototransistors using p-n junction formed by conventional photolithography process. Japanese Journal of Applied Physics, 2016, 55, 110307.	1.5	24
13	Low dark current and high-responsivity graphene mid-infrared photodetectors using amplification of injected photo-carriers by photo-gating. Optics Letters, 2019, 44, 2598.	3.3	24
14	Acoustic carrier transportation induced by surface acoustic waves in graphene in solution. Applied Physics Express, 2016, 9, 045104.	2.4	21
15	Improved sensitivity of a graphene FET biosensor using porphyrin linkers. Japanese Journal of Applied Physics, 2018, 57, 065103.	1.5	18
16	State-space modeling for dynamic response of graphene FET biosensors. Japanese Journal of Applied Physics, 2020, 59, SGGH04.	1.5	16
17	Graphene as an Imaging Platform of Charged Molecules. ACS Omega, 2018, 3, 3137-3142.	3.5	15
18	Single-electron charge sensing in self-assembled quantum dots. Scientific Reports, 2018, 8, 13188.	3.3	14

#	ARTICLE	IF	CITATIONS
19	Turbostratic Stacking Effect in Multilayer Graphene on the Electrical Transport Properties. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900437.	1.5	13
20	Drift Suppression of Solution-Gated Graphene Field-Effect Transistors by Cation Doping for Sensing Platforms. <i>Sensors</i> , 2021, 21, 7455.	3.8	11
21	Deep-learning-based semantic image segmentation of graphene field-effect transistors. <i>Applied Physics Express</i> , 2021, 14, 036504.	2.4	9
22	Dynamical thermodiffusion model of graphene synthesis on polymer films by laser irradiation and application to strain sensors. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 075102.	1.5	6
23	Graphene-FET-based gas sensor properties depending on substrate surface conditions. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FF11.	1.5	5
24	Carbon nanotube single-electron transistors with single-electron charge storages. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FF05.	1.5	5
25	Broadband photoresponse of graphene photodetector from visible to long-wavelength infrared wavelengths. , 2018, , .		5
26	Ionic strength-sensitive and pH-insensitive interactions between C-reactive protein (CRP) and an anti-CRP antibody. <i>Biophysics and Physicobiology</i> , 2022, 19, n/a.	1.0	5
27	Top-gated graphene field-effect transistors by low-temperature synthesized SiN <sub>x</sub> insulator on SiC substrates. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 06GF09.	1.5	3
28	Graphene field-effect transistor for biosensor. , 2016, , .		2
29	Detection Kondo effect in graphene quantum dots. , 2016, , .		2
30	Zero-bias conductance anomaly in graphene dots. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 06GE07.	1.5	1
31	Universal Conductance Fluctuation Due to Development of Weak Localization in Monolayer Graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800515.	1.5	1
32	High Stability of Epitaxial Graphene on a SiC Substrate. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900357.	1.5	1
33	High-responsivity graphene infrared photodetectors using photo-gating effect. , 2019, , .		1
34	Lab-on-a-Graphene: Functionalized Graphene Transistors and Their Application for Biosensing. , 2017, , 79-90.		0
35	Effective binding of sugar chains to influenza virus on the surface by bovine serum albumin localization. <i>Japanese Journal of Applied Physics</i> , 2019, 58, S1D03.	1.5	0
36	Biosensing Platforms Based on Graphene Field Effect Transistors. <i>Vacuum and Surface Science</i> , 2020, 63, 358-363.	0.1	0