

# Masaaki Shimatani

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18

papers

222

citations

10

h-index

14

g-index

26

ext. papers

302

ext. citations

2.8

avg, IF

3.3

L-index

#	Paper	IF	Citations
18	Graphene Surface Acoustic Wave Sensor for Simultaneous Detection of Charge and Mass. <i>ACS Sensors</i> , <b>2018</b> , 3, 200-204	9.2	31
17	Graphene on metal-insulator-metal-based plasmonic metamaterials at infrared wavelengths. <i>Optics Express</i> , <b>2018</b> , 26, 5665-5674	3.3	23
16	High responsivity middle-wavelength infrared graphene photodetectors using photo-gating. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 061102	3.4	22
15	Giant Dirac point shift of graphene phototransistors by doped silicon substrate current. <i>AIP Advances</i> , <b>2016</b> , 6, 035113	1.5	21
14	Enhanced photogating via pyroelectric effect induced by insulator layer for high-responsivity long-wavelength infrared graphene-based photodetectors operating at room temperature. <i>Applied Physics Express</i> , <b>2019</b> , 12, 025001	2.4	16
13	High-performance graphene/InSb heterojunction photodetectors for high-resolution mid-infrared image sensors. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 173102	3.4	16
12	Graphene Plasmonics in Sensor Applications: A Review. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
11	Photocurrent enhancement of graphene phototransistors using p $\bar{n}$ junction formed by conventional photolithography process. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 110307	1.4	14
10	Acoustic carrier transportation induced by surface acoustic waves in graphene in solution. <i>Applied Physics Express</i> , <b>2016</b> , 9, 045104	2.4	14
9	Low dark current and high-responsivity graphene mid-infrared photodetectors using amplification of injected photo-carriers by photo-gating. <i>Optics Letters</i> , <b>2019</b> , 44, 2598-2601	3	10
8	High-responsivity turbostratic stacked graphene photodetectors using enhanced photogating. <i>Applied Physics Express</i> , <b>2019</b> , 12, 122010	2.4	9
7	Broadband photoresponse of graphene photodetector from visible to long-wavelength infrared wavelengths. <i>Optical Engineering</i> , <b>2019</b> , 58, 1	1.1	7
6	Photogating for small high-responsivity graphene middle-wavelength infrared photodetectors. <i>Optical Engineering</i> , <b>2020</b> , 59, 1	1.1	7
5	Broadband photoresponse of graphene photodetector from visible to long-wavelength infrared wavelengths <b>2018</b> ,		4
4	Carrier density modulation and photocarrier transportation of graphene/InSb heterojunction middle-wavelength infrared photodetectors. <i>Optical Engineering</i> , <b>2020</b> , 59,	1.1	3
3	Graphene-based deep-ultraviolet photodetectors with ultrahigh responsivity using chemical vapor deposition of hexagonal boron nitride to achieve photogating. <i>Optical Materials Express</i> , <b>2022</b> , 12, 2090	2.6	3
2	Extraordinary Optical Transmission by Hybrid Phonon-Plasmon Polaritons Using hBN Embedded in Plasmonic Nanoslits. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2

- 1 Turbostratic stacked graphene-based high-responsivity mid-wavelength infrared detector using an enhanced photogating effect. *Optical Materials Express*, **2022**, 12, 458 2.6 1