

# Jiawei Lai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4098465/publications.pdf>

Version: 2024-02-01

23  
papers

1,179  
citations

567281

15  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear photoresponse of type-II Weyl semimetals. <i>Nature Materials</i> , 2019, 18, 476-481.	27.5	185
2	Ultrafast Broadband Photodetectors Based on Three-Dimensional Dirac Semimetal $\text{Cd}_3\text{As}_2$ . <i>Nano Letters</i> , 2017, 17, 834-841.	9.1	162
3	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. <i>Nature Nanotechnology</i> , 2019, 14, 217-222.	31.5	153
4	Anisotropic Broadband Photoresponse of Layered Type-II Weyl Semimetal $\text{MoTe}_2$ . <i>Advanced Materials</i> , 2018, 30, e1707152.	21.0	139
5	Broadband Anisotropic Photoresponse of the Hydrogen Atom-Version Type-II Weyl Semimetal Candidate $\text{TaIrTe}_4$ . <i>ACS Nano</i> , 2018, 12, 4055-4061.	14.6	94
6	Seamless lateral graphene $\pi$ -n junctions formed by selective in situ doping for high-performance photodetectors. <i>Nature Communications</i> , 2018, 9, 5168.	12.8	71
7	Robust edge photocurrent response on layered type II Weyl semimetal $\text{WTe}_2$ . <i>Nature Communications</i> , 2019, 10, 5736.	12.8	69
8	Ultrafast relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal $\text{Cd}_3\text{As}_2$ . <i>Nature Communications</i> , 2019, 10, 5736.	3.2	47
9	Physi Review of photo response in semiconductor transition metal dichalcogenides based photosensitive devices. <i>Optical Materials Express</i> , 2016, 6, 2313.	3.0	44
10	Ultrafast photothermoelectric effect in Dirac semimetallic $\text{Cd}_3\text{As}_2$ revealed by terahertz emission. <i>Nature Communications</i> , 2022, 13, 1623.	12.8	29
11	Review of ultrafast spectroscopy studies of valley carrier dynamics in two-dimensional semiconducting transition metal dichalcogenides. <i>Chinese Physics B</i> , 2017, 26, 037801.	1.4	25
12	Photocurrent response of type-II Dirac semimetal $\text{PtTe}_2$ . <i>2D Materials</i> , 2020, 7, 034003.	4.4	24
13	Wet Chemical Method for Black Phosphorus Thinning and Passivation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9213-9222.	8.0	23
14	Photoluminescent Quantum Interference in a van der Waals Magnet Preserved by Symmetry Breaking. <i>ACS Nano</i> , 2020, 14, 1003-1010.	14.6	23
15	Dynamical evolution of anisotropic response of type-II Weyl semimetal $\text{TaIrTe}_4$ under ultrafast photoexcitation. <i>Light: Science and Applications</i> , 2021, 10, 101.	16.6	17
16	Single crystalline $\text{SmB}_6$ nanowires for self-powered, broadband photodetectors covering mid-infrared. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	14
17	Anisotropic visible photoluminescence from thermally annealed few-layer black phosphorus. <i>Nanotechnology</i> , 2018, 29, 245202.	2.6	13
18	Thin tungsten telluride layer preparation by thermal annealing. <i>Nanotechnology</i> , 2016, 27, 414006.	2.6	12

#	ARTICLE	IF	CITATIONS
19	Dynamical anisotropic response of black phosphorus under magnetic field. 2D Materials, 2018, 5, 025010.	4.4	10
20	Direct Light Orbital Angular Momentum Detection in Mid-Infrared Based on the Type-II Weyl Semimetal TaIrTe <sub>4</sub> . Advanced Materials, 2022, 34, .	21.0	9
21	Circular photogalvanic effect from third-order nonlinear effect in 1Tâ€™-MoTe <sub>2</sub> . 2D Materials, 2021, 8, 025016.	4.4	8
22	Liquid phase mass production of air-stable black phosphorus/phospholipids nanocomposite with ultralow tunneling barrier. 2D Materials, 2018, 5, 025012.	4.4	4
23	Gradient rhenium doping enabled tunable anisotropic valleytronic material based on monolayer molybdenum disulfide. 2D Materials, 2021, 8, 035031.	4.4	4