

# 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

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times ranked

2013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast photothermoelectric effect in Dirac semimetallic Cd <sub>3</sub> As <sub>2</sub> revealed by terahertz emission. Nature Communications, 2022, 13, 1623.	12.8	29
2	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
3	Circular photogalvanic effect from third-order nonlinear effect in 1Tâ™-MoTe <sub>2</sub> . 2D Materials, 2021, 8, 025016.	4.4	8
4	Gradient rhenium doping enabled tunable anisotropic valleytronic material based on monolayer molybdenum disulfide. 2D Materials, 2021, 8, 035031.	4.4	4
5	Dynamical evolution of anisotropic response of type-II Weyl semimetal TaIrTe <sub>4</sub> under ultrafast photoexcitation. Light: Science and Applications, 2021, 10, 101.	16.6	17
6	Photoluminescent Quantum Interference in a van der Waals Magnet Preserved by Symmetry Breaking. ACS Nano, 2020, 14, 1003-1010.	14.6	23
7	Photocurrent response of type-II Dirac semimetal PtTe <sub>2</sub> . 2D Materials, 2020, 7, 034003.	4.4	24
8	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. Nature Nanotechnology, 2019, 14, 217-222.	31.5	153
9	Nonlinear photoresponse of type-II Weyl semimetals. Nature Materials, 2019, 18, 476-481.	27.5	185
10	Wet Chemical Method for Black Phosphorus Thinning and Passivation. ACS Applied Materials & Interfaces, 2019, 11, 9213-9222.	8.0	23
11	Robust edge photocurrent response on layered type II Weyl semimetal WTe <sub>2</sub> . Nature Communications, 2019, 10, 5736.	12.8	69
12	Single crystalline SmB <sub>6</sub> nanowires for self-powered, broadband photodetectors covering mid-infrared. Applied Physics Letters, 2018, 112, .	3.3	14
13	Anisotropic Broadband Photoresponse of Layered Type-II Weyl Semimetal MoTe <sub>2</sub> . Advanced Materials, 2018, 30, e1707152.	21.0	139
14	Broadband Anisotropic Photoresponse of the "Hydrogen Atom"-Version Type-II Weyl Semimetal Candidate TaIrTe <sub>4</sub> . ACS Nano, 2018, 12, 4055-4061.	14.6	94
15	Dynamical anisotropic response of black phosphorus under magnetic field. 2D Materials, 2018, 5, 025010.	4.4	10
16	Liquid phase mass production of air-stable black phosphorus/phospholipids nanocomposite with ultralow tunneling barrier. 2D Materials, 2018, 5, 025012.	4.4	4
17	Anisotropic visible photoluminescence from thermally annealed few-layer black phosphorus. Nanotechnology, 2018, 29, 245202.	2.6	13
18	Seamless lateral graphene p-n junctions formed by selective in situ doping for high-performance photodetectors. Nature Communications, 2018, 9, 5168.	12.8	71

#	ARTICLE	IF	CITATIONS
19	Ultrafast Broadband Photodetectors Based on Three-Dimensional Dirac Semimetal $Cd_3As_2$ . Nano Letters, 2017, 17, 834-841. Ultrafast relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal $Cd_3As_2$ . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> <math>C</math> <math>d</math> <math>_3</math> <math>A</math> <math>s</math> <math>_2</math>	9.1	162
20	Physi Review of ultrafast spectroscopy studies of valley carrier dynamics in two-dimensional semiconducting transition metal dichalcogenides. Chinese Physics B, 2017, 26, 037801.	3.2	47
21	Thin tungsten telluride layer preparation by thermal annealing. Nanotechnology, 2016, 27, 414006.	1.4	25
22	Review of photo response in semiconductor transition metal dichalcogenides based photosensitive devices. Optical Materials Express, 2016, 6, 2313.	2.6	12
23		3.0	44