Ursula Wurstbauer

List of Publications by Year
in descending order

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45	2,291	304743	276875
papers	citations	22 h-index	41 g-index

47	47	47	3869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recommended Methods to Study Resistive Switching Devices. Advanced Electronic Materials, 2019, 5, 1800143.	5.1	452
2	Long-Lived Direct and Indirect Interlayer Excitons in van der Waals Heterostructures. Nano Letters, 2017, 17, 5229-5237.	9.1	281
3	Photocatalytic Stability of Single- and Few-Layer MoS₂. ACS Nano, 2015, 9, 11302-11309.	14.6	197
4	Site-selectively generated photon emitters in monolayer MoS2 via local helium ion irradiation. Nature Communications, 2019, 10, 2755.	12.8	132
5	Direct exciton emission from atomically thin transition metal dichalcogenide heterostructures near the lifetime limit. Scientific Reports, 2017, 7, 12383.	3.3	122
6	Imaging ellipsometry of graphene. Applied Physics Letters, 2010, 97, 231901.	3.3	99
7	Lightâ€“matter interaction in transition metal dichalcogenides and their heterostructures. Journal Physics D: Applied Physics, 2017, 50, 173001.	2.8	91
8	Imaging spectroscopic ellipsometry of MoS₂. Journal of Physics Condensed Matter, 2016, 28, 385301.	1.8	84
9	Photogating of mono- and few-layer MoS2. Applied Physics Letters, 2015, 106, .	3.3	83
10	Tuning the FrÃ¶hlich exciton-phonon scattering in monolayer MoS2. Nature Communications, 2019, 10, 807.	12.8	65
11	Robust valley polarization of helium ion modified atomically thin MoS ₂. 2D Materials, 2018, 5, 011007.	4.4	55
12	Atomistic defects as single-photon emitters in atomically thin MoS2. Applied Physics Letters, 2020, 117, .	3.3	51
13	Atomistic Positioning of Defects in Helium Ion Treated Single-Layer MoS₂. Nano Letters, 2020, 20, 4437-4444.	9.1	48
14	Engineering the Luminescence and Generation of Individual Defect Emitters in Atomically Thin MoS₂. ACS Photonics, 2021, 8, 669-677.	6.6	48
15	Signatures of a degenerate many-body state of interlayer excitons in a van der Waals heterostack. Physical Review Research, 2020, 2, .	3.6	42
16	Control of the orbital character of indirect excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoS</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="normal">WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> heterobilayers. Physical Review B, 2020, 101, .	3.7	37
17	Gate-Switchable Arrays of Quantum Light Emitters in Contacted Monolayer MoS₂ van der Waals Heterodevices. Nano Letters, 2021, 21, 1040-1046.	9.1	36
18	In-situ visualization of hydrogen evolution sites on helium ion treated molybdenum dichalcogenides under reaction conditions. Npj 2D Materials and Applications, 2019, 3, .	7.9	35

#	Article	IF	Citations
19	Resonant Inelastic Light Scattering Investigation of Low-Lying Gapped Excitations in the Quantum Fluid at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î½</mml:mi><mml:mo mathvariant="bold">=</mml:mo><mml:mn>5</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></mml:math>. Physical Review Letters, 2013, 110, 026801.	7.8	33
20	Hydrogen evolution activity of individual mono-, bi-, and few-layer MoS 2 towards photocatalysis. Applied Materials Today, 2017, 8, 132-140.	4.3	32
21	Impact of substrate induced band tail states on the electronic and optical properties of MoS2. Applied Physics Letters, 2019, 115, .	3.3	24
22	Unexpected Near-Infrared to Visible Nonlinear Optical Properties from 2-D Polar Metals. Nano Letters, 2020, 20, 8312-8318.	9.1	22
23	Lightâ€"matter interaction in van der Waals hetero-structures. Journal of Physics Condensed Matter, 2020, 32, 333002.	1.8	22
24	Optical dipole orientation of interlayer excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub><mm heterostacks. Physical Review B, 2022, 105, .	3.2	22
25	Singleâ€Photon Emitters in Layered Van der Waals Materials. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	19
26	Observation of Nonconventional Spin Waves in Composite-Fermion Ferromagnets. Physical Review Letters, 2011, 107, 066804.	7.8	18
27	Lightâ€"Matter Interaction in Quantum Confined 2D Polar Metals. Advanced Functional Materials, 2021, 31, 2005977.	14.9	17
28	Contact morphology and revisited photocurrent dynamics in monolayer MoS2. Npj 2D Materials and Applications, 2017, 1, .	7.9	16
29	In-plane anisotropy of the photon-helicity induced linear Hall effect in few-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2019, 99, .	3.2	16
30	Tunable 2D Groupâ€III Metal Alloys. Advanced Materials, 2021, 33, e2104265.	21.0	14
31	Manifold Coupling Mechanisms of Transition Metal Dichalcogenides to Plasmonic Gold Nanoparticle Arrays. Journal of Physical Chemistry C, 2018, 122, 9663-9670.	3.1	12
32	Confocal shift interferometry of coherent emission from trapped dipolar excitons. Applied Physics Letters, 2014, 105, .	3.3	11
33	Gapped excitations of unconventional fractional quantum Hall effect states in the second Landau level. Physical Review B, 2015, 92, .	3.2	11
34	Optical Emission Spectroscopy Study of Competing Phases of Electrons in the Second Landau Level. Physical Review Letters, 2016, 116, 016801.	7.8	11
35	Collective electronic excitation in a trapped ensemble of photogenerated dipolar excitons and free holes revealed by inelastic light scattering. Physical Review B, 2017, 95, .	3.2	7
36	Observation of new plasmons in the fractional quantum Hall effect: Interplay of topological and nematic orders. Science Advances, 2019, 5, eaav3407.	10.3	7

#	Article	IF	Citations
37	Scalable single-photon sources in atomically thin MoS2. , 2020, , .		6
38	Uniaxial strain tuning of Raman spectra of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>ReS</mml:mi></mml:mrow><mml:mn>2</mml:mn></m monolayer. Physical Review B, 2022, 105, .	3.2	1
39	Overflow of a dipolar exciton trap at high magnetic fields. Superlattices and Microstructures, 2017, 108, 42-50.	3.1	3
40	On the parabolicity of dipolar exciton traps and their population of excess charge carriers. New Journal of Physics, 2019, 21, 063028.	2.9	2
41	Low Temperature Sputtered Graphenic Carbon Enables Highly Reliable Contacts to Silicon. , 2018, , .		1
42	Domain Textures in the Fractional Quantum Hall Effect. Physical Review Letters, 2022, 128, 017401.	7.8	1
43	Highly Reliable Contacts to Silicon Enabled by Low Temperature Sputtered Graphenic Carbon. IEEE Journal of the Electron Devices Society, 2019, 7, 252-260.	2.1	0
44	Disclosed: Quasiparticle properties and dynamics in real and momentum space. Natural Sciences, 2021, 1, e10017.	2.1	0
45	Condensation signatures of a degenerate many-body state of interlayer excitons in a van der Waals MoSe2â€“WSe2 heterostack. , 2021, , .		0