Tobias Korn

List of Publications by Year in descending order

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39 papers	3,276 citations	236925 25 h-index	302126 39 g-index
39 all docs	39 docs citations	39 times ranked	4510 citing authors

#	Article	IF	Citations
1	Interlayer exciton valley polarization dynamics in large magnetic fields. Physical Review B, 2022, 105, .	3.2	11
2	Fluence-dependent dynamics of localized excited species in monolayer versus bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	8
3	MoirÃ© phonons in twisted MoSe₂â€“WSe₂ heterobilayers and their correlation with interlayer excitons. 2D Materials, 2021, 8, 035030.	4.4	29
4	Ultrafast Charge-Transfer Dynamics in Twisted MoS₂/WSe₂ Heterostructures. ACS Nano, 2021, 15, 14725-14731.	14.6	32
5	Two-color Kerr microscopy of two-dimensional materials with sub-picosecond time resolution. Review of Scientific Instruments, 2021, 92, 113904.	1.3	2
6	Air tightness of hBN encapsulation and its impact on Raman spectroscopy of van der Waals materials. 2D Materials, 2020, 7, 015012.	4.4	10
7	Interlayer Excitons in Transitionâ€Metal Dichalcogenide Heterobilayers. Physica Status Solidi (B): Basic Research, 2019, 256, 1900308.	1.5	15
8	Tuning Spontaneous Emission through Waveguide Cavity Effects in Semiconductor Nanowires. Nano Letters, 2019, 19, 7287-7292.	9.1	3
9	Ultrafast transition between exciton phases in van der Waals heterostructures. Nature Materials, 2019, 18, 691-696.	27.5	168
10	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. Nano Letters, 2018, 18, 1402-1409.	9.1	39
11	Lightwave valleytronics in a monolayer of tungsten diselenide. Nature, 2018, 557, 76-80.	27.8	201
12	Momentum-space indirect interlayer excitons in transition-metal dichalcogenide van der Waals heterostructures. Nature Physics, 2018, 14, 801-805.	16.7	229
13	Spatial extent of the excited exciton states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></m monolayers from diamagnetic shifts. Physical Review B, 2018, 98, .	3.2	40
14	Exciton Diffusion and Halo Effects in Monolayer Semiconductors. Physical Review Letters, 2018, 120, 207401.	7.8	193
15	Asymmetric g Tensor in Low-Symmetry Two-Dimensional Hole Systems. Physical Review X, 2018, 8, .	8.9	8
16	Zeeman Splitting and Inverted Polarization of Biexciton Emission in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m Physical Review Letters, 2018, 121, 057402.	7.8	70
17	Two-dimensional semiconductors in the regime of strong light-matter coupling. Nature Communications, 2018, 9, 2695.	12.8	256
18	Valley-Polarized Exciton Dynamics in Exfoliated Monolayer WSe₂. Journal of Physical Chemistry C, 2017, 121, 6409-6413.	3.1	25

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19	Optical investigation of electrical spin injection into an inverted two-dimensional electron gas structure. Physical Review B, 2017, 95, .	3.2	5
20	Direct Observation of Ultrafast Exciton Formation in a Monolayer of WSe₂. Nano Letters, 2017, 17, 1455-1460.	9.1	171
21	Spectral focusing of broadband silver electroluminescence in nanoscopic FRET-LEDs. Nature Nanotechnology, 2017, 12, 637-641.	31.5	18
22	Valley polarized relaxation and upconversion luminescence from Tamm-plasmon trionâ€“polaritons with a MoSe ₂ monolayer. 2D Materials, 2017, 4, 025096.	4.4	36
23	Interlayer exciton dynamics in a dichalcogenide monolayer heterostructure. 2D Materials, 2017, 4, 025112.	4.4	146
24	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	12.8	526
25	Valley dynamics of excitons in monolayer dichalcogenides. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700131.	2.4	19
26	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. Nanotechnology, 2017, 28, 455703.	2.6	45
27	Long-lived spin polarization in n-doped MoSe2 monolayers. Applied Physics Letters, 2017, 111, .	3.3	12
28	Highly Localized Strain in a MoS₂/Au Heterostructure Revealed by Tip-Enhanced Raman Spectroscopy. Nano Letters, 2017, 17, 6027-6033.	9.1	91
29	Direct Observation of the Band Gap Transition in Atomically Thin ReS₂. Nano Letters, 2017, 17, 5187-5192.	9.1	65
30	Giant magnetic splitting inducing near-unity valley polarization in van der Waals heterostructures. Nature Communications, 2017, 8, 1551.	12.8	105
31	Observation of macroscopic valley-polarized monolayer exciton-polaritons at room temperature. Physical Review B, 2017, 96, .	3.2	35
32	Polarized surface-enhanced Raman spectroscopy of suspended carbon nanotubes by Pt-Re nanoantennas. Physical Review B, 2017, 96, .	3.2	4
33	Neutral and charged inter-valley biexcitons in monolayer MoSe2. Nature Communications, 2017, 8, 15552.	12.8	159
34	Trion valley coherence in monolayer semiconductors. 2D Materials, 2017, 4, 025105.	4.4	34
35	Deterministic transfer of spin polarization in wire-like lateral structures via the persistent spin helix. Applied Physics Letters, 2016, 109, .	3.3	6
36	Controlling the Spontaneous Emission Rate of Quantum Wells in Rolled-Up Hyperbolic Metamaterials. Physical Review Letters, 2016, 117, 085503.	7.8	29

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37	Excitonic Valley Effects in Monolayer WS₂ under High Magnetic Fields. Nano Letters, 2016, 16, 7899-7904.	9.1	114
38	Coherent and Incoherent Coupling Dynamics between Neutral and Charged Excitons in Monolayer MoSe₂. Nano Letters, 2016, 16, 5109-5113.	9.1	78
39	Trion fine structure and coupled spinâ€“valley dynamics in monolayer tungsten disulfide. Nature Communications, 2016, 7, 12715.	12.8	239