

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	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	12.8	526
2	Two-dimensional semiconductors in the regime of strong light-matter coupling. Nature Communications, 2018, 9, 2695.	12.8	256
3	Trion fine structure and coupled spin-valley dynamics in monolayer tungsten disulfide. Nature Communications, 2016, 7, 12715.	12.8	239
4	Momentum-space indirect interlayer excitons in transition-metal dichalcogenide van der Waals heterostructures. Nature Physics, 2018, 14, 801-805.	16.7	229
5	Lightwave valleytronics in a monolayer of tungsten diselenide. Nature, 2018, 557, 76-80.	27.8	201
6	Exciton Diffusion and Halo Effects in Monolayer Semiconductors. Physical Review Letters, 2018, 120, 207401.	7.8	193
7	Direct Observation of Ultrafast Exciton Formation in a Monolayer of WSe_2 . Nano Letters, 2017, 17, 1455-1460.	9.1	171
8	Ultrafast transition between exciton phases in van der Waals heterostructures. Nature Materials, 2019, 18, 691-696.	27.5	168
9	Neutral and charged inter-valley biexcitons in monolayer MoSe_2 . Nature Communications, 2017, 8, 15552.	12.8	159
10	Interlayer exciton dynamics in a dichalcogenide monolayer heterostructure. 2D Materials, 2017, 4, 025112.	4.4	146
11	Excitonic Valley Effects in Monolayer WS_2 under High Magnetic Fields. Nano Letters, 2016, 16, 7899-7904.	9.1	114
12	Giant magnetic splitting inducing near-unity valley polarization in van der Waals heterostructures. Nature Communications, 2017, 8, 1551.	12.8	105
13	Highly Localized Strain in a MoS_2/Au Heterostructure Revealed by Tip-Enhanced Raman Spectroscopy. Nano Letters, 2017, 17, 6027-6033.	9.1	91
14	Coherent and Incoherent Coupling Dynamics between Neutral and Charged Excitons in Monolayer MoSe_2 . Nano Letters, 2016, 16, 5109-5113.	9.1	78
15	Zeeman Splitting and Inverted Polarization of Biexciton Emission in Monolayer WS_2 . Physical Review Letters, 2018, 121, 057402.	7.8	70
16	Direct Observation of the Band Gap Transition in Atomically Thin ReS_2 . Nano Letters, 2017, 17, 5187-5192.	9.1	65
17	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. Nanotechnology, 2017, 28, 455703.	2.6	45
18	Spatial extent of the excited exciton states in WS_2 monolayers from diamagnetic shifts. Physical Review B, 2018, 98, .	9.2	40

#	ARTICLE	IF	CITATIONS
19	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. Nano Letters, 2018, 18, 1402-1409.	9.1	39
20	Valley polarized relaxation and upconversion luminescence from Tamm-plasmon trion polaritons with a MoSe ₂ monolayer. 2D Materials, 2017, 4, 025096.	4.4	36
21	Observation of macroscopic valley-polarized monolayer exciton-polaritons at room temperature. Physical Review B, 2017, 96, .	3.2	35
22	Trion valley coherence in monolayer semiconductors. 2D Materials, 2017, 4, 025105.	4.4	34
23	Ultrafast Charge-Transfer Dynamics in Twisted MoS ₂ /WSe ₂ Heterostructures. ACS Nano, 2021, 15, 14725-14731.	14.6	32
24	Controlling the Spontaneous Emission Rate of Quantum Wells in Rolled-Up Hyperbolic Metamaterials. Physical Review Letters, 2016, 117, 085503.	7.8	29
25	Moiré phonons in twisted MoSe ₂ /WSe ₂ heterobilayers and their correlation with interlayer excitons. 2D Materials, 2021, 8, 035030.	4.4	29
26	Valley-Polarized Exciton Dynamics in Exfoliated Monolayer WSe ₂ . Journal of Physical Chemistry C, 2017, 121, 6409-6413.	3.1	25
27	Valley dynamics of excitons in monolayer dichalcogenides. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700131.	2.4	19
28	Spectral focusing of broadband silver electroluminescence in nanoscopic FRET-LEDs. Nature Nanotechnology, 2017, 12, 637-641.	31.5	18
29	Interlayer Excitons in Transition-Metal Dichalcogenide Heterobilayers. Physica Status Solidi (B): Basic Research, 2019, 256, 1900308.	1.5	15
30	Long-lived spin polarization in n-doped MoSe ₂ monolayers. Applied Physics Letters, 2017, 111, .	3.3	12
31	Interlayer exciton valley polarization dynamics in large magnetic fields. Physical Review B, 2022, 105, .	3.2	11
32	Air tightness of hBN encapsulation and its impact on Raman spectroscopy of van der Waals materials. 2D Materials, 2020, 7, 015012.	4.4	10
33	Asymmetric g Tensor in Low-Symmetry Two-Dimensional Hole Systems. Physical Review X, 2018, 8, .	8.9	8
34	Fluence-dependent dynamics of localized excited species in monolayer versus bulk MoS_2 . Physical Review B, 2021, 103, .	3.2	8
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	Optical investigation of electrical spin injection into an inverted two-dimensional electron gas structure. Physical Review B, 2017, 95, .	3.2	5

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37	Polarized surface-enhanced Raman spectroscopy of suspended carbon nanotubes by Pt-Re nanoantennas. <i>Physical Review B</i> , 2017, 96, .	3.2	4
38	Tuning Spontaneous Emission through Waveguide Cavity Effects in Semiconductor Nanowires. <i>Nano Letters</i> , 2019, 19, 7287-7292.	9.1	3
39	Two-color Kerr microscopy of two-dimensional materials with sub-picosecond time resolution. <i>Review of Scientific Instruments</i> , 2021, 92, 113904.	1.3	2