

# Thorsten Deilmann

## List of Publications by Year in descending order

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43  
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all docs

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docs citations

45  
times ranked

3306  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Computational 2D Materials Database: high-throughput modeling and discovery of atomically thin crystals. 2D Materials, 2018, 5, 042002.	4.4	711
2	Recent progress of the Computational 2D Materials Database (C2DB). 2D Materials, 2021, 8, 044002.	4.4	218
3	Diversity of trion states and substrate effects in the optical properties of an MoS <sub>2</sub> monolayer. Nature Communications, 2017, 8, 2117.	12.8	144
4	Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike $1T\text{-ReSe}_2$ . Nano Letters, 2017, 17, 3202-3207.	9.1	130
5	Reversible uniaxial strain tuning in atomically thin WSe <sub>2</sub> . 2D Materials, 2016, 3, 021011.	4.4	125
6	Classifying the Electronic and Optical Properties of Janus Monolayers. ACS Nano, 2019, 13, 13354-13364.	14.6	93
7	Finite-momentum exciton landscape in mono- and bilayer transition metal dichalcogenides. 2D Materials, 2019, 6, 035003.	4.4	84
8	Scanning Quantum Dot Microscopy. Physical Review Letters, 2015, 115, 026101.	7.8	80
9	Interlayer excitons in a bulk van der Waals semiconductor. Nature Communications, 2017, 8, 639.	12.8	76
10	Interlayer Excitons with Large Optical Amplitudes in Layered van der Waals Materials. Nano Letters, 2018, 18, 2984-2989.	9.1	71
11	Electrical tuning of optically active interlayer excitons in bilayer MoS <sub>2</sub> . Nature Nanotechnology, 2021, 16, 888-893.	31.5	60
12	Dark excitations in monolayer transition metal dichalcogenides. Physical Review B, 2017, 96, .	3.2	60
13	Discovering two-dimensional topological insulators from high-throughput computations. Physical Review Materials, 2019, 3, .	2.4	60
14	Interlayer Trions in the MoS <sub>2</sub> /WS <sub>2</sub> van der Waals Heterostructure. Nano Letters, 2018, 18, 1460-1465.	9.1	56
15	Excited-State Trions in Monolayer $WS_2$ . Physical Review Letters, 2019, 123, 167401.	7.8	51
16	Ab Initio Studies of Exciton Factors: Monolayer Transition Metal Dichalcogenides in Magnetic Fields. Physical Review Letters, 2020, 124, 226402.	7.8	51
17	A chemically driven quantum phase transition in a two-molecule Kondo system. Nature Physics, 2016, 12, 867-873.	16.7	49
18	Three-particle correlation from a Many-Body Perspective: Trions in a Carbon Nanotube. Physical Review Letters, 2016, 116, 196804.	7.8	43



#	ARTICLE	IF	CITATIONS
37	Valley selectivity induced by magnetic adsorbates: Triplet oxygen on monolayer $2\text{H-MoS}_2$ . Physical Review B, 2020, 101, .		
38	Inelastic electron tunneling spectroscopy for probing strongly correlated many-body systems by scanning tunneling microscopy. Physical Review B, 2020, 101, .	3.2	7
39	Interlayer and excited-state exciton transitions in bulk $2\text{H-MoS}_2$ . Physical Review B, 2020, 102, .		
40	Uniaxial strain tuning of Raman spectra of a $\text{ReS}_2$ monolayer. Physical Review B, 2022, 105, .		
41	Trions in bulk LiF and at the LiF(001) surface. Physical Review B, 2018, 98, .	3.2	4
42	Covalent photofunctionalization and electronic repair of $2\text{H-MoS}_2$ via nitrogen incorporation. Physical Chemistry Chemical Physics, 2021, 23, 18517-18524.	2.8	3
43	Correction to Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike $1\text{T-}\text{ReSe}_2$ . Nano Letters, 2017, 17, 7169-7169.	9.1	1